



The bidi Package

Source documentation for [version 41.4](#)

to my Master, *Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

<https://github.com/xepersian/bidi/discussions>

The announcements for the new releases of the package will also appear in the Discussions space under the Announcements category.

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The *bidi* Package

Bidirectional typesetting in plain $\text{T}_{\text{E}}\text{X}$ and $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$, using Xe $\text{T}_{\text{E}}\text{X}$ engine

Source documentation for [version 41.4](#)

Vafa Khalighi*

January 7, 2025

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*Thanks to the `bidi-tex` GitHub organization consisted of David Carlisle and other members of the $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ team for maintaining the package in the period 2018–2020.

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1 File amsart-xetex-bidi.def

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3 \ifnum #1>\c@tocdepth % then omit
4 \else
5 \par \addpenalty\@secpenalty\addvspace{#2}%
6 \begingroup \hyphenpenalty\@M
7 \ifempty{#4}{%
8 \@tempdima\csname r@tocindent\number#1\endcsname\relax
9 }{%
10 \@tempdima#4\relax
11 }%
12 \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else
13 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16 \nobreak
17 \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24 \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27 \kern-.4\p@
28 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29 \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35 \insert\footins{%
36 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
37 \reset@font%
38 \bidi@@footnotetext@font% \normalfont\footnotesize
39 \interlinepenalty\interfootnotelinepenalty
40 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41 \floatingpenalty\@MM \hsize\columnwidth
42 \@parboxrestore \parindent\normalparindent \sloppy
43 \protected@edef\@currentlabel{%
44 \csname p@footnote\endcsname\@thefnmark}%
45 \@makefnmark%
46 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
47
48 \long\def\@RTLfootnotetext#1{%
49 \insert\footins{%
50 \@RTLtrue%
51 \reset@font%
52 \bidi@@RTLfootnotetext@font% \normalfont\footnotesize
```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefntext{%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \RTLfalse%
67 \reset@font%
68 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefntext{%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent\z@ \parskip\z@\@plus.3\p@\relax
104 \ifRTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111 \@topnum\z@ % this prevents figures from falling at the top of page 1
112 \setcopyright
113 \thispagestyle{firstpage}% this sets first page specifications
114 \uppercase\shorttitle
115 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116 \else \andify\shortauthors
117 \fi
118 \@maketitle@hook
119 \begingroup
120 \@maketitle
121 \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
122 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123 \edef\@tempa{%
124 \@nx\markboth{\the\toks4
125 \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126 \@tempa
127 \endgroup
128 \c@footnote\z@
129 \cleartopmattertags
130 }

```

2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133 \def\@tempa{#2}%
134 \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135 \def\@tempa{#3}%
136 \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137 \ifnum\col@number<\@ne
138 \PackageWarning{adjmulticol}%
139 {Using '\number\col@number'
140 columns doesn't seem a good idea.^^J
141 I therefore use one columns instead}%
142 \col@number\@ne\fi
143 \ifnum\col@number>10
144 \PackageError{adjmulticol}%
145 {Too many columns}%
146 {Current implementation doesn't
147 support more than 10 columns.%
148 \MessageBreak
149 I therefore use 10 columns instead}%
150 \col@number10 \fi
151 \ifx\@footnotetext\mult@footnotetext\else
152 \let\orig@footnotetext\@footnotetext
153 \let\@footnotetext\mult@footnotetext
154 \fi
155 \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156 \let\orig@LTRfootnotetext\@LTRfootnotetext
157 \let\@LTRfootnotetext\mult@LTRfootnotetext

```




```

158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160 \let\orig@RTLfootnotetext\@RTLfootnotetext
161 \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
166 \expandafter\ifx\csname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\csname the\algocf@within\endcsname\@SepMark\@arabic@c@algocf}%
169 \fi
170 \ApplyPatchIfPackageLoadedF{color}{%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }
196
197 \@ifpackagewith{algorithm2e}{algonl}{%
198 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{A
199 }}{}
200
201 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
202
203 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
204
205 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```

4 File amsbook-xetex-bidi.def



```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
207 \def\@tocline#1#2#3#4#5#6#7{\relax
208 \ifnum #1>\c@tocdepth % then omit
209 \else
210 \par \addpenalty\@secpenalty\addvspace{#2}%
211 \begingroup \hyphenpenalty\@M
212 \@ifempty{#4}{%
213 \@tempdima\csname r@tocindent\number#1\endcsname\relax
214 }{%
215 \@tempdima#4\relax
216 }%
217 \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\leftskip\fi
218 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221 \nobreak
222 \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229 \columnseprule\z@ \columnsep 35\p@
230 \@indextitlestyle
231 \thispagestyle{plain}%
232 \let\item\@idxitem
233 \parindent\z@ \parskip\z@\@plus.3\p@\relax
234 \if@RTL\raggedleft\else\raggedright\fi
235 \hyphenpenalty\@M
236 \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241 \kern-.4\p@
242 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243 \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248 \insert\footins{%
249 \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
250 \reset@font%
251 \bidi@footnotetext@font% \normalfont\footnotesize
252 \interlinepenalty\interfootnotelinepenalty
253 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254 \floatingpenalty\@MM \hsize\columnwidth
255 \@parboxrestore \parindent\normalparindent \sloppy
256 \protected@edef\@currentlabel{%
257 \csname p@footnote\endcsname\@thefnmark}%
258 \@makefnmark%
259 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}

```



```

260
261 \long\def\@RTLfootnotetext#1{%
262   \insert\footins{%
263     \RTLtrue%
264     \reset@font%
265     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
266     \interlinepenalty\interfootnotelinepenalty
267     \splittopskip\footnotesepp \splitmaxdepth \dp\strutbox
268     \floatingpenalty\@MM \hsize\columnwidth
269     \@parboxrestore \parindent\normalparindent \sloppy
270     \protected@edef\@currentlabel{%
271       \csname p@footnote\endcsname\@thefnmark}%
272     \@makefnctext{%
273       \rule\z@\footnotesepp\ignorespaces#1\unskip\strut\par}}
274
275
276 \long\def\@LTRfootnotetext#1{%
277   \insert\footins{%
278     \RTLfalse%
279     \reset@font%
280     \bidi@LTRfootnotetext@font% \normalfont\footnotesize
281     \interlinepenalty\interfootnotelinepenalty
282     \splittopskip\footnotesepp \splitmaxdepth \dp\strutbox
283     \floatingpenalty\@MM \hsize\columnwidth
284     \@parboxrestore \parindent\normalparindent \sloppy
285     \protected@edef\@currentlabel{%
286       \csname p@footnote\endcsname\@thefnmark}%
287     \@makefnctext{%
288       \rule\z@\footnotesepp\ignorespaces#1\unskip\strut\par}}
289
290
291
292 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
293 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
294 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
295
296 \renewenvironment{thebibliography}[1]{%
297   \@bibtitlestyle
298   \normalfont\bibliofont\labelsep .5em\relax
299   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
300   \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@LTRbibitems\@RTLtrue\else\fi\fi
301   \bidi@thebibliography@font@hook%
302   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
303     \leftmargin\labelwidth \advance\leftmargin\labelsep
304     \usecounter{enumiv}}%
305   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
306   \sfcode`\.=\@m
307 }{%
308 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
309 \endlist
310 }
311 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
312 \begingroup
313 \fontsize{\@xivpt}{18}\bfseries\centering

```



```

314 \ifnum\c@secnumdepth>\m@ne
315 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
316 \rlap{\vbox to\z@{\vss
317 \centerline{\normalsize\mdseries
318 \uppercase\@xp{\chaptername}\enspace\thechapter}
319 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
320 #1\par \endgroup
321 \skip@34\p@ \advance\skip@-\normalbaselineskip
322 \vskip\skip@ }
323 \def\maketitle{\par
324 \topnum\z@ % this prevents figures from falling at the top of page 1
325 \begingroup
326 \@maketitle
327 \endgroup
328 \c@footnote\z@
329 \def\do##1{\let##1\relax}%
330 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
331 \do\author \do\@xauthor \do\address \do\@xaddress
332 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
333 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
334 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
335 }

```

5 File `amsmath-xetex-bidi.def`

```

336 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
337 \let\veqno=\eqno
338 \iftagsleft@ \let\veqno=\leqno \fi
339 \renewcommand{\numberwithin}[3][\arabic]{%
340 \ifundefined{c@#2}{\@nocounterr{#2}}{%
341 \ifundefined{c@#3}{\@nocnterr{#3}}{%
342 \addtoreset{#2}{#3}%
343 \xp\xdef\csname the#2\endcsname{%
344 \xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
345 }
346 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
347
348 \bidi@patchcmd\math@cr@@@align\place@tag{%
349 \place@tag
350 \else
351 \place@tag
352 }{}{}
353

```

6 File `amstext-xetex-bidi.def`

```

354 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
355 \def\textdef@#1#2#3{\hbox{%
356 \everymath{#1}%
357 \let\fontsize#2\selectfont
358 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}

```

7 File `amsthm-xetex-bidi.def`



```

359 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
360 \def\@thmcountersep{\@SepMark}

```

8 File array-xetex-bidi.def

```

361 \ProvidesFile{array-xetex-bidi.def}[2024/12/10 v0.5 bidi adaptations for array package for X
362 \def\@testpach{\@chclass
363 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
364 \ifnum \@lastchclass=7 5 \else
365 \ifnum \@lastchclass=8 \tw@ \else
366 \ifnum \@lastchclass=9 \thr@@
367 \else \z@
368 \ifnum \@lastchclass = 10 \else
369 \edef\@nextchar{\expandafter\string\@nextchar}%
370 \@chnum
371 \if \@nextchar c\z@ \else
372 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
373 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
374 \z@ \@chclass
375 \if \@nextchar |\@ne \else
376 \if \@nextchar !6 \else
377 \if \@nextchar @7 \else
378 \if \@nextchar <8 \else
379 \if \@nextchar >9 \else
380 10
381 \@chnum
382 \if \@nextchar m\thr@@ \else
383 \if \@nextchar p4 \else
384 \if \@nextchar b5 \else
385 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
386 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
387 \def\@tabular{%
388 \leavevmode
389 \hbox \bgroup\if@RTLtab\beginR \fi
390 \UseTaggingSocket{tbl/hmode/begin}%
391 $\col@sep\tabc@sep \let\d@llarbegin\beginR \let\d@llarend\endR
392 \let\d@llarend\endgroup
393 \@tabarray}
394 \def\endtabular{\endarray\m@th $
395 \UseTaggingSocket{tbl/hmode/end}%
396 \if@RTLtab\endR\fi\egroup
397 }
398 \expandafter\let\csname endtabular*\endcsname=\endtabular
399 \ExplSyntaxOn
400 \def\@array[#1]#2{
401 \@tempdima \ht \strutbox
402 \advance \@tempdima by\extrarowheight
403 \setbox \@arstrutbox \hbox{\vrule
404 \@height \arraystretch \@tempdima
405 \@depth \arraystretch \dp \strutbox
406 \@width \z@}%
407 \tbl_save_outer_table_cols:
408 \beginR
409 \mkpream{#2}%

```



```

410 \tbl_count_table_cols:
411 \xdef\@preamble{
412   \noexpand \ar@ialign
413   \@halignto
414   \bgroup \@arstrut
415   \UseTaggingSocket{tbl/row/begin}
416   \tbl_init_cell_data_for_row:
417   \@preamble
418   \tabskip \z@ \cr}
419 \endgroup
420 \@arrayleft
421 \if #1\vtop \else \if#1b\vbox \else \vcenter \fi \fi
422 \bgroup
423 \let \@sharp ##\let \protect \relax
424 \lineskip \z@
425 \baselineskip \z@
426 \mathsurround \z@
427 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
428 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1\vtop \else \vbox \fi\bgroup\fi
429 \UseTaggingSocket{tbl/init}
430 \@preamble
431 }
432 \ExplSyntaxOff
433 \let\@array\@array
434 \ExplSyntaxOn
435 \def\endarray {
436   \tbl_crcr:n{endarray} \egroup
437   \UseTaggingSocket{tbl/finalize}
438   \tbl_restore_outer_cell_data:
439   \if@RTLtab\egroup\endR\egroup\fi
440   \egroup
441   \@arrayright \gdef\@preamble{}%
442 }
443 \ExplSyntaxOff
444 \def\array{\col@sep\arraycolsep
445   \def\d@llarbegin{${}\let\d@llarend\d@llarbegin\def\@halignto{}}%
446   \@RTLtabfalse\@tabarray}

```

9 File article-xetex-bidi.def

```

447 \ProvidesFile{article-xetex-bidi.def}[2025/01/05 v0.9 bidi adaptations for standard article]
448 \IfClassLoadedT{svmult}{\endinput}
449 \if@titlepage
450   \renewcommand\maketitle{\begin{titlepage}%
451     \let\footnotesize\small
452     \let\right@footnoterule\relax
453     \let\left@footnoterule\relax
454     \let\textwidth@footnoterule\relax
455     \let \footnote \thanks
456     \let \LTRfootnote \LTRthanks
457     \let \RTLfootnote \RTLthanks
458     \null\vfil
459     \vskip 60\p@
460     \begin{center}%

```



```

461   {\LARGE \@title \par}%
462   \vskip 3em%
463   {\large
464     \lineskip .75em%
465     \begin{tabular}[t]{c}%
466       \@author
467     \end{tabular}\par}%
468   \vskip 1.5em%
469   {\large \@date \par}%           % Set date in \large size.
470 \end{center}\par
471 \@thanks
472 \vfil\null
473 \end{titlepage}%
474 \setcounter{footnote}{0}%
475 \global\let\thanks\relax
476 \global\let\LTRthanks\relax
477 \global\let\RTLthanks\relax
478 \global\let\maketitle\relax
479 \global\let\@thanks\@empty
480 \global\let\@author\@empty
481 \global\let\@date\@empty
482 \global\let\@title\@empty
483 \global\let\title\relax
484 \global\let\author\relax
485 \global\let\date\relax
486 \global\let\and\relax
487 }
488 \else
489 \renewcommand\maketitle{\par
490   \begingroup
491     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
492     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
493     \long\def\@makefntext##1{\parindent 1em\noindent
494       \hb@xt@1.8em{%
495         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
496     \if@twocolumn
497       \ifnum \col@number=\@one
498         \@maketitle
499       \else
500         \twocolumn[\@maketitle]%
501       \fi
502     \else
503       \newpage
504       \global\@topnum\z@   % Prevents figures from going at top of page.
505       \@maketitle
506     \fi
507     \thispagestyle{plain}\@thanks
508   \endgroup
509   \setcounter{footnote}{0}%
510   \global\let\thanks\relax
511   \global\let\LTRthanks\relax
512   \global\let\RTLthanks\relax
513   \global\let\maketitle\relax
514   \global\let\@maketitle\relax

```



```

515 \global\let\thanks\@empty
516 \global\let\author\@empty
517 \global\let\@date\@empty
518 \global\let\@title\@empty
519 \global\let\title\relax
520 \global\let\author\relax
521 \global\let\date\relax
522 \global\let\and\relax
523 }
524 \def\@maketitle{%
525 \newpage
526 \null
527 \vskip 2em%
528 \begin{center}%
529 \let \footnote \thanks
530 \let \LTRfootnote \LTRthanks
531 \let \RTLfootnote \RTLthanks
532 {\LARGE \@title \par}%
533 \vskip 1.5em%
534 {\large
535 \lineskip .5em%
536 \begin{tabular}[t]{c}%
537 \@author
538 \end{tabular}\par}%
539 \vskip 1em%
540 {\large \@date}%
541 \end{center}%
542 \par
543 \vskip 1.5em}
544 \fi
545 \renewcommand*\l@part[2]{%
546 \ifnum \c@tocdepth >-2\relax
547 \addpenalty\@secpenalty
548 \addvspace{2.25em \@plus\p@}%
549 \setlength\@tempdima{3em}%
550 \begingroup
551 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
552 \parfillskip -\@pnumwidth
553 {\leavevmode
554 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
555 \nobreak
556 \if@compatibility
557 \global\@nobreaktrue
558 \everypar{\global\@nobreakfalse\everypar{}}%
559 \fi
560 \endgroup
561 \fi}
562 \renewcommand*\l@section[2]{%
563 \ifnum \c@tocdepth >\z@
564 \addpenalty\@secpenalty
565 \addvspace{1.0em \@plus\p@}%
566 \setlength\@tempdima{1.5em}%
567 \begingroup
568 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```




```

569     \parfillskip -\@pnumwidth
570     \leavevmode \bfseries
571     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
572     \hskip -\if@RTL\rightskip\else\leftskip\fi
573     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
574   \endgroup
575 \fi}
576 \renewcommand\left@footnoterule{%
577   \kern-3\p@
578   \hrule\@width.4\columnwidth
579   \kern2.6\p@}
580 \renewcommand\right@footnoterule{%
581   \kern-3\p@
582   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
583   \kern2.6\p@}
584 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
585 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
586 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
587 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
588 \def\@part[#1]#2{%
589   \ifnum \c@secnumdepth >\m@ne
590     \refstepcounter{part}%
591     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
592   \else
593     \addcontentsline{toc}{part}{#1}%
594   \fi
595   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
596     \interlinepenalty \M
597     \normalfont
598     \ifnum \c@secnumdepth >\m@ne
599       \Large\bfseries \partname\nobreakspace\thepart
600       \par\nobreak
601     \fi
602     \huge \bfseries #2%
603     \markboth{}{\par}%
604     \nobreak
605     \vskip 3ex
606     \@afterheading}
607 \ApplyPatchIfPackageLoaded{nameref}{%
608   \bidi@patchcmd\NR@spart\raggedright{%
609     \if@RTL\raggedleft\else\raggedright\fi
610   }{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
611 }{%
612   \bidi@patchcmd\@spart\raggedright{%
613     \if@RTL\raggedleft\else\raggedright\fi
614   }{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
615 }
616 \renewenvironment{thebibliography}[1]
617   {\section*{\refname}%
618     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
619     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
620     \bidi@@thebibliography@font@hook%
621     \list{\@biblabel{\@arabic\c@enumiv}}%
622     {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

623         \leftmargin\labelwidth
624         \advance\leftmargin\labelsep
625         \@openbib@code
626         \usecounter{enumiv}%
627         \let\p@enumiv\@empty
628         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
629     \sloppy
630     \clubpenalty4000
631     \@clubpenalty \clubpenalty
632     \widowpenalty4000%
633     \sfcode`.\@m}
634     {\def\noitemerr
635      {\@latex@warning{Empty `thebibliography' environment}}}%
636     \endlist}
637 \renewenvironment{theindex}
638     {\if@twocolumn
639      \@restonecolfalse
640      \else
641      \@restonecoltrue
642      \fi
643      \columnseprule \z@
644      \columnsep 35\p@
645      \twocolumn[\section*{\indexname}]%
646      \@mkboth{\MakeUppercase\indexname}%
647              {\MakeUppercase\indexname}%
648      \thispagestyle{plain}\parindent\z@
649      \parskip\z@ \@plus .3\p@\relax
650      \let\item\@idxitem}
651     {\if@restonecol\onecolumn\else\clearpage\fi}

```

10 File artikel1-xetex-bidi.def

```

652 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
653 \renewenvironment{theindex}{%
654   \if@twocolumn
655     \@restonecolfalse
656   \else
657     \@restonecoltrue
658   \fi
659   \columnseprule \z@
660   \columnsep 35\p@
661   \twocolumn[\section*{\indexname}]%
662   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
663   \thispagestyle{plain}\parindent\z@
664   \parskip\z@ \@plus .3\p@\relax
665   \let\item\@idxitem
666 }{%
667   \if@restonecol\onecolumn\else\clearpage\fi}
668 \renewcommand*\head@style{%
669   \interlinepenalty \@M
670   \hyphenpenalty=\@M \exhyphenpenalty=\@M
671   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizel\relax}
672 \if@titlepage
673 \renewenvironment{abstract}{%

```



```

674     \titlepage
675     \null\vfil
676     \section*{\SectFont\abstractname}
677     \noindent\ignorespaces}
678   {\par\vfil\null\endtitlepage}
679 \else
680 \renewenvironment{abstract}{%
681   \if@twocolumn
682     \section*{\abstractname}%
683   \else
684     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
685     \section*{\small\SectFont\abstractname}%
686     \noindent\ignorespaces
687     \fi}
688   {\if@twocolumn\else\par\egroup\fi}
689 \fi
690 \renewcommand*\@regtocline[3]{%
691   \ifnum #1>\c@tocdepth
692   \else
693     \vskip\z@\@plus.2\p@
694     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
695     \if@RTL\rightskip\else\leftskip\fi\unitindent
696     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
697     \parfillskip\z@
698     \@tempdima\unitindent
699     \parindent\z@
700     \leavevmode
701     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
702     \hskip 1em \nobreak{\slshape #3}\par
703     }%
704   \fi}
705 \if@oldtoc
706 \renewcommand*\l@part[2]{%
707   \ifnum \c@tocdepth >-2\relax
708     \addpenalty\@secpenalty
709     \addvspace{2.25em \@plus\p@}%
710     \begingroup
711     \setlength\@tempdima{3em}%
712     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
713     \parfillskip -\@pnumwidth
714     {\leavevmode
715       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
716       \nobreak
717       \if@compatibility
718         \global\@nobreaktrue
719         \everypar{\global\@nobreakfalse\everypar{}}%
720       \fi
721     \endgroup
722   \fi}
723 \else
724 \renewcommand*\l@part{%
725   \ifnum \c@tocdepth >-2\relax
726     \addpenalty\@secpenalty
727     \addvspace{2.25em \@plus \p@}%

```



```

728     \@regtocline{0}%
729     \fi}
730 \fi
731 \if@oldtoc
732 \renewcommand*\l@section[2]{%
733     \addpenalty\@secpenalty
734     \addvspace{1.0em \@plus\p@}%
735     \setlength\@tempdima{1.5em}%
736     \begingroup
737     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
738     \parfillskip -\@pnumwidth
739     \leavevmode \bfseries
740     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
741     \hskip -\if@RTL\rightskip\else\leftskip\fi
742     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
743     \endgroup}
744 \else
745     \renewcommand*\l@section{\@regtocline{1}}
746 \fi
747 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
748 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
749 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
750 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
751 \renewenvironment{thebibliography}[1]
752     {\section*\@refname}%
753     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
754     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
755     \bidi@thebibliography@font@hook%
756     \list{\@biblabel{\@arabic\c@enumiv}}%
757         {\settowidth\labelwidth{\@biblabel{#1}}%
758         \leftmargin\labelwidth
759         \advance\leftmargin\labelsep
760         \@openbib@code
761         \usecounter{enumiv}%
762         \let\p@enumiv\@empty
763         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
764     \sloppy\clubpenalty4000\widowpenalty4000%
765     \sfcode\.\@m}
766     {\def\@noitemerr
767         {\@latex@warning{Empty `thebibliography' environment}}}%
768     \endlist}
769 \renewcommand*\left@footnoterule{%
770     \kern-3\p@
771     \kern.5\baselineskip
772     \hrule\@width\unitindent
773     \kern.4\baselineskip
774 }
775 \renewcommand*\right@footnoterule{%
776     \kern-3\p@
777     \kern.5\baselineskip
778     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
779     \kern.4\baselineskip}
780 \if@titlepage
781 \renewcommand*\TitleFont{\rmfamily}

```



```

782 \renewcommand*\maketitle{%
783 \begin{titlepage}%
784 \let\footnotesize\small
785 \let\right@footnoterule\relax
786 \let\left@footnoterule\relax
787 \let\textwidth@footnoterule\relax
788 \let \footnote \thanks
789 \long\def \@makefntext##1{\parindent\z@
790 \def\labelitemi{\textendash}\@revlabeltrue
791 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
792 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
793 \if@compatibility\setcounter{page}{0}\fi
794 \null\vfil
795 \vskip 60\p@
796 \begin{center}%
797 \TitleFont
798 {\LARGE \def\{\penalty -\@M}
799 \if@allcaps
800 \expandafter\uc@nothanks\@title\thanks\relax
801 \else
802 \@title
803 \fi\par}%
804 \vskip 3em%
805 {\large
806 \lineskip .75em \parindent\z@
807 \begin{tabular}[t]{c}%
808 \if@allcaps
809 \expandafter\uc@authornothanks\@author\and\relax
810 \else
811 \@author
812 \fi
813 \end{tabular}\par}%
814 \vskip 1.5em%
815 {\large
816 \if@allcaps
817 \uppercase\expandafter{\@date}%
818 \else
819 \@date
820 \fi\par}%
821 \end{center}\par
822 \@thanks
823 \vfil\null
824 \end{titlepage}%
825 \setcounter{footnote}{0}%
826 \global\let\thanks\relax
827 \global\let\maketitle\relax
828 \global\let\@thanks\@empty
829 \global\let\@author\@empty
830 \global\let\@title\@empty
831 \global\let\@date\@empty
832 \global\let\title\relax
833 \global\let\author\relax
834 \global\let\date\relax
835 \global\let\and\relax

```



```

836 }
837 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
838 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
839   \futurelet\@tempa\uc@ax}
840 \def\uc@ax{%
841   \ifx\@tempa\relax
842   \else
843     \ \andname \ \expandafter\uc@authornothanks
844   \fi}
845 \def\uc@tx{\ifx\@tempa\relax
846   \else \expandafter\uc@ty \fi}
847 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
848 \else
849 \renewcommand*\maketitle{\par
850   \begin{group}
851     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
852     \def\@makefnmark{\rlap{%
853       \@textsuperscript{\normalfont\@thefnmark}}}%
854     \long\def\@makefntext{\@xmakefntext{%
855       \@textsuperscript{\normalfont\@thefnmark}}}%
856     \if@twocolumn
857       \ifnum \col@number=\@ne
858         \@maketitle
859       \else
860         \twocolumn[\@maketitle]%
861       \fi
862     \else
863       \newpage
864       \global\@topnum\z@
865       \@maketitle
866     \fi
867     \thispagestyle{plain}\@thanks
868   \end{group}
869   \setcounter{footnote}{0}%
870   \global\let\thanks\relax
871   \global\let\maketitle\relax
872   \global\let\@maketitle\relax
873   \global\let\@thanks\@empty
874   \global\let\@author\@empty
875   \global\let\@title\@empty
876   \global\let\@date\@empty
877   \global\let\title\relax
878   \global\let\author\relax
879   \global\let\date\relax
880   \global\let\and\relax
881 }
882 \def\@maketitle{%
883   \newpage
884   \null
885   \vskip 2em%
886   \begin{center}%
887     \let \footnote \thanks
888     {\LARGE \TitleFont \@title \par}%
889     \vskip 1.5em%

```



```

890   {\large \TitleFont
891     \lineskip .5em%
892     \begin{tabular}[t]{c}%
893       \@author
894     \end{tabular}\par}%
895   \vskip 1em%
896   {\large \TitleFont \@date}%
897 \end{center}%
898 \par
899 \vskip 1.5em}
900 \fi

```

11 File artikel2-xetex-bidi.def

```

901 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
902 \renewenvironment{theindex}{%
903   \if@twocolumn
904     \@restonecolfalse
905   \else
906     \@restonecoltrue
907   \fi
908   \columnseprule \z@
909   \columnsep 35\p@
910   \twocolumn[\section*{\indexname}]%
911   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
912   \thispagestyle{plain}\parindent\z@
913   \parskip\z@ \@plus .3\p@\relax
914   \let\item\@idxitem
915   }{%
916   \if@restonecol\onecolumn\else\clearpage\fi}
917 \renewcommand*\@regtocline[3]{%
918   \ifnum #1>\c@tocdepth
919   \else
920     \vskip\z@\@plus.2\p@
921     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
922       \if@RTL\righskip\else\leftskip\fi\unitindent
923       \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
924       \parfillskip\z@
925       \@tempdima\unitindent
926       \advance\@tempdima by \othermargin
927       \parindent\z@
928       \leavevmode
929       \hbox{} \hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
930       \hskip 1em \nobreak{\slshape #3}\par
931     }%
932   \fi}
933 \if@oldtoc
934 \renewcommand*\l@section[2]{%
935   \addpenalty\@secpenalty
936   \addvspace{1.0em \@plus\p@}%
937   \setlength\@tempdima{1.5em}%
938   \begingroup
939   \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
940   \parfillskip -\@pnumwidth

```



```

941 \leavevmode \bfseries
942 \advance\if@RTL\rightskip\else\leftskip\fi@tempdima
943 \hskip -\if@RTL\rightskip\else\leftskip\fi
944 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
945 \endgroup}
946 \else
947 \renewcommand*\l@section{\@regtocline{1}}
948 \fi
949 \if@oldtoc
950 \renewcommand*\l@part[2]{%
951 \ifnum \c@tocdepth >-2\relax
952 \addpenalty\@secpenalty
953 \addvspace{2.25em \@plus\p@}%
954 \begingroup
955 \setlength\@tempdima{3em}%
956 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
957 \parfillskip -\@pnumwidth
958 {\leavevmode
959 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
960 \nobreak
961 \if@compatibility
962 \global\@nobreaktrue
963 \everypar{\global\@nobreakfalse\everypar{}}%
964 \fi
965 \endgroup
966 \fi}
967 \else
968 \renewcommand*\l@part{%
969 \ifnum \c@tocdepth >-2\relax
970 \addpenalty\@secpenalty
971 \addvspace{2.25em \@plus\p@}%
972 \@regtocline{0}%
973 \fi}
974 \fi
975 \renewcommand*\head@style{%
976 \interlinepenalty \@M
977 \hyphenpenalty=\@M \exhyphenpenalty=\@M
978 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
979 \if@titlepage
980 \renewenvironment{abstract}{%
981 \titlepage
982 \null\vfil
983 \section*{\SectFont\abstractname}%
984 \noindent\ignorespaces}
985 {\par\vfil\null\endtitlepage}
986 \else
987 \renewenvironment{abstract}{%
988 \if@twocolumn
989 \section*{\abstractname}%
990 \else
991 \section*{\hskip\unitindent\small\SectFont\abstractname}%
992 \list{}{\setlength\listparindent{\unitindent}%
993 \setlength\parindent {\z@}%
994 \setlength\leftmargin {\unitindent}%

```




```

995             \setlength\rightmargin  {\unitindent}%
996             \setlength\parsep      {\z@}}%
997     \item[]%
998     \fi}
999     {\if@twocolumn\else\par\endlist\fi}
1000 \fi
1001 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1002 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1003 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1004 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1005 \renewcommand*\left@footnoterule{%
1006   \kern-3\p@
1007   \hrule\@width 3\unitindent
1008   \kern 2.6\p@
1009 }
1010 \renewcommand*\right@footnoterule{%
1011   \kern-3\p@
1012   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1013   \kern 2.6\p@}
1014 \renewenvironment{thebibliography}[1]
1015   {\section*\refname}%
1016   \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1017   \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
1018   \bidi@thebibliography@font@hook%
1019   \list{\@biblabel{\@arabic\c@enumiv}}%
1020     {\settowidth\labelwidth{\@biblabel{#1}}%
1021     \leftmargin\labelwidth
1022     \advance\leftmargin\labelsep
1023     \@openbib@code
1024     \usecounter{enumiv}%
1025     \let\p@enumiv\@empty
1026     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1027   \sloppy\clubpenalty4000\widowpenalty4000%
1028   \sfcode`. \@m}
1029   {\def\@noitemerr
1030     {\@latex@warning{Empty `thebibliography' environment}}}%
1031   \endlist}
1032 \if@titlepage
1033 \renewcommand*\TitleFont{\rmfamily}
1034 \renewcommand*\maketitle{%
1035   \begin{titlepage}%
1036     \let\footnotesize\small
1037     \let\right@footnoterule\relax
1038     \let\left@footnoterule\relax
1039     \let\textwidth@footnoterule\relax
1040     \let \footnote \thanks
1041     \long\def\@makefnctext##1{\parindent\z@
1042       \def\labelitemi{\textendash}\@revlabeltrue
1043       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1044     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1045     \if@compatibility\setcounter{page}{0}\fi
1046     \null\vfil
1047     \vskip 60\p@
1048     \begin{center}%

```



```

1049 \TitleFont
1050 {\LARGE \def\{\{\penalty -\@M}
1051 \if@allcaps
1052 \expandafter\uc@nothanks\@title\thanks\relax
1053 \else
1054 \@title
1055 \fi\par}%
1056 \vskip 3em%
1057 {\large
1058 \lineskip .75em \parindent\z@
1059 \begin{tabular}[t]{c}%
1060 \if@allcaps
1061 \expandafter\uc@authornothanks\@author\and\relax
1062 \else
1063 \@author
1064 \fi
1065 \end{tabular}\par}%
1066 \vskip 1.5em%
1067 {\large
1068 \if@allcaps
1069 \uppercase\expandafter{\@date}%
1070 \else
1071 \@date
1072 \fi\par}%
1073 \end{center}\par
1074 \@thanks
1075 \vfil\null
1076 \end{titlepage}%
1077 \setcounter{footnote}{0}%
1078 \global\let\thanks\relax
1079 \global\let\maketitle\relax
1080 \global\let\@thanks\@empty
1081 \global\let\@author\@empty
1082 \global\let\@title\@empty
1083 \global\let\@date\@empty
1084 \global\let\title\relax
1085 \global\let\author\relax
1086 \global\let\date\relax
1087 \global\let\and\relax
1088 }
1089 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1090 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1091 \futurelet\@tempa\uc@ax}
1092 \def\uc@ax{%
1093 \ifx\@tempa\relax
1094 \else
1095 \ \ \andname \ \ \expandafter\uc@authornothanks
1096 \fi}
1097 \def\uc@tx{\ifx\@tempa\relax
1098 \else \expandafter\uc@ty \fi}
1099 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1100 \else
1101 \renewcommand*\maketitle{\par
1102 \begingroup

```



```

1103 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1104 \long\def\@makefntext##1{\parindent\z@
1105 \def\labelitemi{\textendash}%
1106 \leavevmode\hb@xt@.5\unitindent{%
1107 \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1108 \if@twocolumn
1109 \ifnum \col@number=\@ne
1110 \@maketitle
1111 \else
1112 \twocolumn[\@maketitle]%
1113 \fi
1114 \else
1115 \newpage
1116 \global\@topnum\z@
1117 \@maketitle
1118 \fi
1119 \thispagestyle{plain}\@thanks
1120 \endgroup
1121 \setcounter{footnote}{0}%
1122 \global\let\thanks\relax
1123 \global\let\maketitle\relax
1124 \global\let\@maketitle\relax
1125 \global\let\@thanks\@empty
1126 \global\let\@author\@empty
1127 \global\let\@title\@empty
1128 \global\let\@date\@empty
1129 \global\let\title\relax
1130 \global\let\author\relax
1131 \global\let\date\relax
1132 \global\let\and\relax
1133 }
1134 \def\@maketitle{%
1135 \newpage
1136 \null
1137 \vskip 2em%
1138 \begin{center}%
1139 \let \footnote \thanks
1140 {\LARGE \TitleFont \@title \par}%
1141 \vskip 1.5em%
1142 {\large \TitleFont
1143 \lineskip .5em%
1144 \begin{tabular}[t]{c}%
1145 \@author
1146 \end{tabular}\par}%
1147 \vskip 1em%
1148 {\large \TitleFont \@date}%
1149 \end{center}%
1150 \par
1151 \vskip 1.5em}
1152 \fi

```

12 File artikel3-xetex-bidi.def

```

1153 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f

```



```

1154 \renewenvironment{theindex}{%
1155   \if@twocolumn
1156     \@restonecolfalse
1157   \else
1158     \@restonecoltrue
1159   \fi
1160   \columnseprule \z@
1161   \columnsep 35\p@
1162   \twocolumn[section*{\indexname}]%
1163   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1164   \thispagestyle{plain}\parindent\z@
1165   \parskip\z@ \@plus .3\p@\relax
1166   \let\item\@idxitem
1167 }{%
1168   \if@restonecol\onecolumn\else\clearpage\fi}
1169 \renewcommand*\head@style{%
1170   \interlinepenalty \@M
1171   \hyphenpenalty=\@M \exhyphenpenalty=\@M
1172   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1173 \renewcommand*\@regtocline[3]{%
1174   \ifnum #1>\c@tocdepth
1175   \else
1176     \vskip\z@\@plus.2\p@
1177     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1178     \if@RTL\rightskip\else\leftskip\fi\unitindent
1179     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1180     \parfillskip\z@
1181     \@tempdima\unitindent
1182     \parindent\z@
1183     \leavevmode
1184     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1185     \hskip 1em \nobreak{\slshape #3}\par
1186   }%
1187   \fi}
1188 \if@oldtoc
1189 \renewcommand*\l@part[2]{%
1190   \ifnum \c@tocdepth >-2\relax
1191     \addpenalty\@secpenalty
1192     \addvspace{2.25em \@plus\p@}%
1193     \begingroup
1194       \setlength\@tempdima{3em}%
1195       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1196       \parfillskip -\@pnumwidth
1197       {\leavevmode
1198         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1199         \nobreak
1200         \if@compatibility
1201           \global\@nobreaktrue
1202           \everypar{\global\@nobreakfalse\everypar{}}%
1203         \fi
1204       \endgroup
1205   \fi}
1206 \else
1207   \renewcommand*\l@part{%

```



```

1208 \ifnum \c@tocdepth >-2\relax
1209 \addpenalty\@secpenalty
1210 \advvspace{2.25em \@plus \p@}%
1211 \@regtocline{0}%
1212 \fi}
1213 \fi
1214
1215 \if@oldtoc
1216 \renewcommand*\l@section[2]{%
1217 \addpenalty\@secpenalty
1218 \advvspace{1.0em \@plus \p@}%
1219 \setlength\@tempdima{1.5em}%
1220 \begingroup
1221 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1222 \parfillskip -\@pnumwidth
1223 \leavevmode \bfseries
1224 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
1225 \hskip -\if@RTL\rightskip\else\leftskip\fi
1226 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1227 \endgroup}
1228 \else
1229 \renewcommand*\l@section{\@regtocline{1}}
1230 \fi
1231 \if@titlepage
1232 \renewenvironment{abstract}{%
1233 \titlepage
1234 \null\vfil
1235 \section*{\SectFont\abstractname}%
1236 \noindent\ignorespaces}
1237 {\par\vfil\null\endtitlepage}
1238 \else
1239 \renewenvironment{abstract}{%
1240 \if@twocolumn
1241 \section*{\abstractname}%
1242 \else
1243 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1244 \section*{\small\SectFont\abstractname}%
1245 \noindent\ignorespaces
1246 \fi}
1247 {\if@twocolumn\else\par\egroup\fi}
1248 \fi
1249 \renewcommand*\left@footnoterule{%
1250 \kern-3\p@
1251 \kern.5\baselineskip
1252 \hrule\@width\unitindent
1253 \kern.4\baselineskip
1254 }
1255 \renewcommand*\right@footnoterule{%
1256 \kern-3\p@
1257 \kern.5\baselineskip
1258 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1259 \kern.4\baselineskip}
1260 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1261 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}

```



```

1262 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1263 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1264 \renewenvironment{thebibliography}[1]
1265     {\section*\refname}%
1266     \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1267     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1268     \bidi@thebibliography@font@hook%
1269     \list{\@biblabel{\@arabic\c@enumiv}}%
1270         {\settowidth\labelwidth{\@biblabel{#1}}%
1271         \leftmargin\labelwidth
1272         \advance\leftmargin\labelsep
1273         \@openbib@code
1274         \usecounter{enumiv}}%
1275     \let\p@enumiv\@empty
1276     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1277     \sloppy\clubpenalty4000\widowpenalty4000%
1278     \sfcode\.\@m}
1279     {\def\@noitemerr
1280     {\@latex@warning{Empty `thebibliography' environment}}}%
1281     \endlist}
1282 \if@titlepage
1283 \renewcommand*\TitleFont{\rmfamily}
1284 \renewcommand*\maketitle{%
1285 \begin{titlepage}%
1286 \let\footnotesize\small
1287 \let\right@footnoterule\relax
1288 \let\left@footnoterule\relax
1289 \let\textwidth@footnoterule\relax
1290 \let \footnote \thanks
1291 \long\def\@makefntext##1{\parindent\z@
1292 \def\labelitemi{\textendash}\@revlabeltrue
1293 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1294 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1295 \if@compatibility\setcounter{page}{0}\fi
1296 \null\vfil
1297 \vskip 60\p@
1298 \begin{center}%
1299 \TitleFont
1300 {\LARGE \def\{\{\penalty -\@M}
1301 \if@allcaps
1302 \expandafter\uc@nothanks\@title\thanks\relax
1303 \else
1304 \@title
1305 \fi\par}%
1306 \vskip 3em%
1307 {\large
1308 \lineskip .75em \parindent\z@
1309 \begin{tabular}[t]{c}%
1310 \if@allcaps
1311 \expandafter\uc@authornothanks\@author\and\relax
1312 \else
1313 \@author
1314 \fi
1315 \end{tabular}\par}%

```



```

1316     \vskip 1.5em%
1317     {\large
1318     \if@allcaps
1319     \uppercase\expandafter{\@date}%
1320     \else
1321     \@date
1322     \fi\par}%
1323     \end{center}\par
1324     \@thanks
1325     \vfil\null
1326 \end{titlepage}%
1327 \setcounter{footnote}{0}%
1328 \global\let\thanks\relax
1329 \global\let\maketitle\relax
1330 \global\let\@thanks\@empty
1331 \global\let\@author\@empty
1332 \global\let\@title\@empty
1333 \global\let\@date\@empty
1334 \global\let\title\relax
1335 \global\let\author\relax
1336 \global\let\date\relax
1337 \global\let\and\relax
1338 }
1339 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1340 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1341     \futurelet\@tempa\uc@ax}
1342 \def\uc@ax{%
1343     \ifx\@tempa\relax
1344     \else
1345     \ \andname \ \ \expandafter\uc@authornothanks
1346     \fi}
1347 \def\uc@tx{\ifx\@tempa\relax
1348     \else \expandafter\uc@ty \fi}
1349 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1350 \else
1351 \renewcommand*\maketitle{\par
1352     \begingroup
1353     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1354     \def\@makefnmark{\rlap{%
1355     \@textsuperscript{\normalfont\@thefnmark}}}%
1356     \long\def\@makefntext{\@xmakefntext{%
1357     \@textsuperscript{\normalfont\@thefnmark}}}%
1358     \if@twocolumn
1359     \ifnum \col@number=\@ne
1360     \@maketitle
1361     \else
1362     \twocolumn[\@maketitle]%
1363     \fi
1364     \else
1365     \newpage
1366     \global\@topnum\z@
1367     \@maketitle
1368     \fi
1369     \thispagestyle{plain}\@thanks

```



```

1370 \endgroup
1371 \setcounter{footnote}{0}%
1372 \global\let\thanks\relax
1373 \global\let\maketitle\relax
1374 \global\let\@maketitle\relax
1375 \global\let\@thanks\@empty
1376 \global\let\@author\@empty
1377 \global\let\@title\@empty
1378 \global\let\@date\@empty
1379 \global\let\title\relax
1380 \global\let\author\relax
1381 \global\let\date\relax
1382 \global\let\and\relax
1383 }
1384 \def\@maketitle{%
1385   \newpage
1386   \null
1387   \vskip 2em%
1388   \if@titlecentered
1389     \begin{center}%
1390       \let \footnote \thanks
1391       {\LARGE \TitleFont \@title \par}%
1392       \vskip 1.5em%
1393       {\large \TitleFont
1394         \lineskip .5em%
1395         \begin{tabular}[t]{c}%
1396           \@author
1397         \end{tabular}\par}%
1398       \vskip 1em%
1399       {\large \TitleFont \@date}%
1400     \end{center}%
1401   \else
1402     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1403     {\large \TitleFont \lineskip .5em \tabcolsep\z@
1404       \def\and{%%} \begin{tabular} has already started
1405         \end{tabular}\hskip 1em plus .17fil
1406         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
1407         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}
1408       \vskip 1em {\large \TitleFont \@date}
1409   \fi
1410   \par
1411   \vskip 1.5em}
1412 \fi

```

13 File arydshln-xetex-bidi.def

```

1413 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln package]
1414 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1415 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1416 \expandafter\let\csname endtabular*\endcsname\endtabular
1417 \let\adl@array\@array
1418 \def\@array{\adl@everyvbox\everyvbox
1419   \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1420   \ifadl@inactive \adl@inactivate \else \adl@activate \fi

```




```

1421         \let\adl@noalign\noalign
1422         \adl@array}
1423 \ifadl@usingarypkg
1424 \def\@testpach{\@chclass
1425 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1426 \ifnum \@lastchclass=7 5 \else
1427 \ifnum \@lastchclass=8 \tw@ \else
1428 \ifnum \@lastchclass=9 \thr@@
1429 \else \z@
1430 \ifnum \@lastchclass = 10 \else
1431 \edef\@nextchar{\expandafter\string\@nextchar}%
1432 \@chnum
1433 \if \@nextchar c\z@ \else
1434 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1435 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1436 \z@ \@chclass
1437 \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1438 \if\@nextchar :\@ne \let\@arrayrule\adl@arraydashrule \else
1439 \if\@nextchar ;\@ne \let\@arrayrule\adl@argarraydashrule \else
1440 \if \@nextchar !6 \else
1441 \if \@nextchar @7 \else
1442 \if \@nextchar <8 \else
1443 \if \@nextchar >9 \else
1444 10
1445 \@chnum
1446 \if \@nextchar m\thr@@\else
1447 \if \@nextchar p4 \else
1448 \if \@nextchar b5 \else
1449 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1450 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1451
1452 \def\@classz{\@classx
1453 \@tempcnta \count@
1454 \prepnext@tok
1455 \@addtopreamble{\ifcase \@chnum
1456 \hfil
1457 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1458 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1459 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1460 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1461 \adl@endmbox\or
1462 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1463 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1464 \fi}\prepnext@tok}
1465 \def\adl@class@start{4}
1466 \def\adl@class@iiiorvii{7}
1467
1468 \else
1469 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1470 \ifnum \@lastchclass=\thr@@ 5\relax \else
1471 \z@ \if #1c\@chnum \z@ \else
1472 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
1473 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1474 \@chclass

```



```

1475         \if #1\@ne \let\@arrayrule\adl@arrayrule \else
1476         \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
1477         \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
1478         \if #1\@tw@ \else
1479         \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1480 \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1481
1482 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1483         \or \or \@addamp \or
1484         \@acolampacol \or \@firstampfalse \@acol \fi
1485 \edef\@preamble{\@preamble
1486         \ifcase \@chnum
1487         \hfil\adl@putlrc{\$relax\@sharp$}\hfil
1488         \or \adl@putlrc{\$relax\@sharp$}\hfil
1489         \or \hfil\adl@putlrc{\$relax\@sharp$}\fi}}
1490 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1491         \or \or \@addamp \or
1492         \@acolampacol \or \@firstampfalse \@acol \fi
1493 \edef\@preamble{\@preamble
1494         \ifcase \@chnum
1495         \hfil\adl@putlrc{\@sharp\unskip}\hfil
1496         \or \adl@putlrc{\@sharp\unskip}\hfil
1497         \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1498 \def\adl@class@start{6}
1499 \def\adl@class@iiiorvii{3}
1500 \fi
1501 \ApplyPatchCodeToPackage{colortbl}{%
1502 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1503 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1504         \let\@endpbox\adl@org@endpbox}
1505 \let\adl@CT@setup\CT@setup
1506 \def\CT@setup{\adl@CT@setup
1507         \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1508         \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1509         \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1510 \let\adl@act@CT@setup\CT@setup
1511 \def\@classz{\@classx
1512         \@tempcnta\count@ \prepnext@tok
1513         \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1514         \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1515         \expandafter\adl@extract@drsc
1516         \the\toks\@tempcnta\doublerulesepcolor!\@nil
1517         \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1518         \@addtopreamble{\if@RTL\beginL\fi%
1519         \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1520         \ifcase \@chnum
1521         \hskip\stretch{.5}\kern\z@
1522         \dollarbegin
1523         \insert@column
1524         \dollarend\hskip\stretch{.5}%
1525         \or \dollarbegin \insert@column \dollarend \hfill
1526         \or \hfill \kern\z@ \dollarbegin \insert@column \dollarend
1527         \or $\vcenter
1528         \@startpbox{\@nextchar}\insert@column \@endpbox $%

```



```

1529         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1530         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1531         \fi
1532         \if@RTL\endR\fi\egroup\egroup
1533         \begin@group
1534             \CT@setup
1535             \CT@column@color
1536             \CT@row@color
1537             \CT@cell@color
1538             \CT@do@color
1539         \end@group
1540         \@tempdima\ht\z@
1541         \advance\@tempdima\minrowclearance
1542         \vrule\@height\@tempdima\@width\z@
1543         \unhbox\z@\if@RTL\endL\fi}%
1544     \prepnext@tok}
1545 \let\adl@act@classz\@classz
1546 \let\adl@org@classz\@classz
1547 }

```

14 File beamer-xetex-bidi.def

```

1548 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1549 \AtBeginDocument{%
1550     \if@RTLmain
1551         \raggedleft
1552     \else
1553         \raggedright
1554     \fi
1555 }
1556
1557 \renewcommand*{\bidi@beamer@ragged}{%
1558     \if@RTL
1559         \raggedleft
1560     \else
1561         \raggedright
1562     \fi
1563 }
1564
1565

```

15 File beamerbaseauxtemplates-xetex-bidi.def

```

1566 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1567 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1568
1569 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1570
1571 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}
1572
1573 \bidi@csundef{beamer@tmpop@subsection in toc@subsections numbered}
1574
1575 \bidi@csundef{beamer@tmpop@subsubsection in toc@subsections numbered}
1576

```



```

1577 \defbeamertemplate{subsection in toc}{sections numbered}
1578 {\leavevmode\ bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1579
1580 \defbeamertemplate{subsubsection in toc}{sections numbered}
1581 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\ bidi@beamer@leftskip=3.5em\usebeamerfont{subsubsection in toc}%
1582 \inserttocsubsubsection\par}
1583
1584 \defbeamertemplate{section in toc}{subsections numbered}
1585 {\leavevmode\ bidi@beamer@leftskip=2em\inserttocsection\par}
1586
1587 \defbeamertemplate{subsection in toc}{subsections numbered}
1588 {\leavevmode\ bidi@beamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubsection in toc}%
1589 \defbeamerfont{subsubsection in toc}{subsections numbered}
1590 {\leavevmode\normalsize\usebeamerfont{subsection in
1591 toc}\ bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1592 \inserttocsubsubsection\par}
1593
1594
1595 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1596
1597 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1598
1599 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1600
1601 \defbeamerfont{section in toc}{circle}
1602 {\leavevmode\ bidi@beamer@leftskip=2ex%
1603 \llap{%
1604 \usebeamerfont*{section number projected}%
1605 \usebeamerfont{section number projected}%
1606 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1607 \color{bg}
1608 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1609 \pgfusepath{fill}
1610 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1611 \end{pgfpicture}\kern1.25ex%
1612 }%
1613 \inserttocsection\par}
1614
1615 \defbeamerfont{subsection in toc}{circle}
1616 {\leavevmode\ bidi@beamer@leftskip=2em\inserttocsubsection\par}
1617
1618 \defbeamerfont{subsubsection in toc}{circle}
1619 {\leavevmode\normalsize\usebeamerfont{subsection in
1620 toc}\ bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1621 \inserttocsubsubsection\par}
1622
1623 \bidi@csundef{beamer@@tmpop@section in toc@square}
1624
1625 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1626
1627 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1628
1629 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1630

```



```

1631 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1632
1633 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1634
1635 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1636
1637 \defbeamertemplate{section in toc}{square}
1638 {\leavevmode\bidi@beamer@leftskip=3ex%
1639 \llap{%
1640 \usebeamerfont*{section number projected}%
1641 \usebeamercolor[bg]{section number projected}%
1642 \if@RTL
1643 \else
1644 \vrule width2.25ex height1.85ex depth.4ex%
1645 \hskip-2.25ex%
1646 \fi
1647 \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}%
1648 \if@RTL
1649 \hskip-2.25ex%
1650 \vrule width2.25ex height1.85ex depth.4ex%
1651 \fi
1652 }\kern1.25ex}%
1653 \inserttocsection\par}
1654
1655 \defbeamertemplate{subsection in toc}{square}
1656 {\leavevmode\bidi@beamer@leftskip=5ex\llap{%
1657 \usebeamercolor[bg]{subsection number projected}%
1658 \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1659
1660 \defbeamertemplate{subsubsection in toc}{square}
1661 {\leavevmode\normalsize\usebeamerfont{subsection in
1662 toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1663 \llap{%
1664 \usebeamercolor[bg]{subsubsection number projected}%
1665 \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1666
1667 \defbeamertemplate{enumerate item}{square}
1668 {
1669 \hbox{%
1670 \usebeamerfont*{item projected}%
1671 \usebeamercolor[bg]{item projected}%
1672 \if@RTL
1673 \else
1674 \vrule width2.25ex height1.85ex depth.4ex%
1675 \hskip-2.25ex%
1676 \fi
1677 \hbox to2.25ex{%
1678 \hfil%
1679 \color{fg}\insertenumlabel%
1680 \hfil}}%
1681 \if@RTL
1682 \hskip-2.25ex%
1683 \vrule width2.25ex height1.85ex depth.4ex%
1684 \fi

```



```

1685 }}%
1686 }
1687 [action]
1688 {\setbeamerfont{item projected}{size=\scriptsize}}
1689
1690 \defbeamertemplate{enumerate subitem}{square}
1691 {
1692   \hbox{%
1693     \usebeamerfont*{subitem projected}%
1694     \usebeamercolor[bg]{subitem projected}%
1695     \if@RTL
1696     \else
1697       \vrule width2.25ex height1.85ex depth.4ex%
1698       \hskip-2.25ex%
1699     \fi
1700     \hbox to2.25ex{%
1701       \hfil%
1702       \color{fg}\insertsubenumlabel%
1703       \hfil}}%
1704     \if@RTL
1705       \hskip-2.25ex%
1706       \vrule width2.25ex height1.85ex depth.4ex%
1707     \fi
1708   }}%
1709 }
1710
1711 \defbeamertemplate{enumerate subsubitem}{square}
1712 {
1713   \hbox{%
1714     \usebeamerfont*{subitem projected}%
1715     \usebeamercolor[bg]{subsubitem projected}%
1716     \if@RTL
1717     \else
1718       \vrule width2.25ex height1.85ex depth.4ex%
1719       \hskip-2.25ex%
1720     \fi
1721     \hbox to2.25ex{%
1722       \hfil%
1723       \color{fg}\insertsubsubenumlabel%
1724       \hfil}}%
1725     \if@RTL
1726       \hskip-2.25ex%
1727       \vrule width2.25ex height1.85ex depth.4ex%
1728     \fi
1729   }}%
1730 }
1731
1732 \defbeamertemplate{enumerate mini template}{square}
1733 {
1734   \hbox{%
1735     \usebeamerfont*{\beameritemnestingprefix item projected}%
1736     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1737     \if@RTL
1738     \else

```



```

1739     \vrule width2.25ex height1.85ex depth.4ex%
1740     \hskip-2.25ex%
1741   \fi
1742   \hbox to2.25ex{%
1743     \hfil%
1744     \color{fg}\insertenumlabel%
1745     \hfil}}%
1746   \if@RTL
1747     \hskip-2.25ex%
1748     \vrule width2.25ex height1.85ex depth.4ex%
1749   \fi
1750 }}%
1751 }
1752
1753 \bidi@csundef{beamer@tmpop@section in toc@ball unnumbered}
1754
1755 \bidi@csundef{beamer@tmpop@subsection in toc@ball unnumbered}
1756
1757 \bidi@csundef{beamer@tmpop@subsubsection in toc@ball unnumbered}
1758
1759 \defbeamer@template{section in toc}{ball unnumbered}
1760 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1761   \llap{%
1762     \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1763   \inserttocsection\par}
1764
1765 \defbeamer@template{subsection in toc}{ball unnumbered}
1766 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1767   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1768
1769 \defbeamer@template{subsubsection in toc}{ball unnumbered}
1770 {\leavevmode\normalsize\usebeamerfont{subsection in
1771   toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1772   \llap{%
1773     \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsection\par}
1774
1775 \bidi@csundef{beamer@tmpop@section in toc@ball}
1776
1777 \bidi@csundef{beamer@tmpop@subsection in toc@ball}
1778
1779 \bidi@csundef{beamer@tmpop@subsubsection in toc@ball}
1780
1781 \defbeamer@template{section in toc}{ball}
1782 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1783   \llap{%
1784     \normalsize%
1785     \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1786       \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1787       \pgftext{%
1788         \usebeamerfont*{section number projected}%
1789         \usebeamerfont*{section number projected}%
1790         \color{fg!90!bg}%
1791         \inserttocsectionnumber}
1792     \end{pgfpicture}%

```



```

1793     \kern1.25ex}%
1794 \inserttocsection\par
1795 }
1796 [action]
1797 {\setbeamerfont{section number projected}{size=\scriptsize}}
1798
1799 \defbeamertemplate{subsection in toc}{ball}
1800 {\leavevmode\ bidi@beamer@leftskip=5ex%
1801  \llap{\raise0.1ex\ beamer@usesphere{subsection number projected}{bigsphere}\ kern1ex}%
1802  \inserttocsubsection\par%
1803 }
1804
1805 \defbeamertemplate{subsubsection in toc}{ball}
1806 {\leavevmode\normalsize\ usebeamerfont{subsection in
1807   toc}\ bidi@beamer@leftskip=7ex\ usebeamerfont{subsubsection in toc}%
1808  \llap{\ beamer@usesphere{subsubsection number projected}{bigsphere}\ kern0.75ex}%
1809  \inserttocsubsubsection\par%
1810 }
1811
1812 \bidi@csundef{beamer@@tmpop@block begin@rounded}
1813
1814 \bidi@csundef{beamer@@tmpop@block alerted begin@rounded}
1815
1816 \bidi@csundef{beamer@@tmpop@block example begin@rounded}
1817
1818 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1819 {%
1820  \par\vskip\medskipamount%
1821  \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1822    {\raggedright\ usebeamerfont*{block title}\ insertblocktitle}%
1823    \bidi@beamer@ragged%
1824    \usebeamerfont{block body}%
1825  }%
1826
1827 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1828 {%
1829  \par\vskip\medskipamount%
1830  \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1831    {\raggedright\ usebeamerfont*{block title alerted}\ insertblocktitle}%
1832    \bidi@beamer@ragged%
1833    \usebeamerfont{block body alerted}%
1834  }%
1835
1836 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1837 {%
1838  \par\vskip\medskipamount%
1839  \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1840    {\raggedright\ usebeamerfont*{block title example}\ insertblocktitle}%
1841    \bidi@beamer@ragged%
1842    \usebeamerfont{block body example}%
1843  }%
1844
1845 \bidi@csundef{beamer@@tmpop@caption@numbered}
1846

```




```

1847 \defbeamertemplate{caption}{numbered}
1848 {%
1849   \leavevmode
1850   \bidi@beamer@ragged
1851   {%
1852     \usebeamercolor[fg]{caption name}%
1853     \usebeamerfont*{caption name}%
1854     \insertcaptionname~\insertcaptionnumber
1855     \usebeamertemplate{caption label separator}%
1856   }%
1857   \insertcaption\par
1858 }
1859
1860 \bidi@csundef{beamer@tmpop@caption@caption name own line}
1861
1862 \defbeamertemplate{caption}{caption name own line}
1863 {%
1864   \begin{minipage}{\textwidth}
1865     \leavevmode
1866     \bidi@beamer@ragged
1867     {%
1868       \usebeamercolor[fg]{caption name}%
1869       \usebeamerfont*{caption name}%
1870       \insertcaptionname%
1871     }\\
1872     \insertcaption
1873   \end{minipage}
1874 }
1875
1876 \ApplyPatchCodeToPackage{caption}{%
1877   \DeclareCaptionFont{beamer@font}{%
1878     \usebeamerfont*{caption}%
1879   }%
1880 }
1881 \SetCaptionDefault{font}{beamer@font}
1882 \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1883 \SetCaptionDefault{justification}{bidi@beamer@ragged}
1884 }
1885

```

16 File beamerbaseboxes-xetex-bidi.def

```

1886 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1887 \renewcommand\beamerboxesrounded[2] []{%
1888   \global\let\beamer@firstlineitemizeunskip=\relax%
1889   \vbox\bgroup%
1890   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1891   \setkeys{beamerboxes}{#1}%
1892   {%
1893     \usebeamercolor{\bmb@lower}%
1894     \globalcolorstrue%
1895     \colorlet{lower.bg}{bg}%
1896   }%
1897   {%

```



```

1898 \usebeamercolor{\bmb@upper}%
1899 \globalcolorstrue%
1900 \colorlet{upper.bg}{bg}%
1901 }%
1902 %
1903 % Typeset head
1904 %
1905 \vskip4bp
1906 \setbox\bmb@box=\hbox{%
1907 \begin{minipage}[b]{\bmb@width}%
1908 \usebeamercolor[fg]{\bmb@upper}%
1909 #2%
1910 \end{minipage}}%
1911 \ifdim\wd\bmb@box=0pt%
1912 \setbox\bmb@box=\hbox{}%
1913 \ht\bmb@box=1.5pt%
1914 \bmb@prevheight=-4.5pt%
1915 \else%
1916 \wd\bmb@box=\bmb@width%
1917 \bmb@temp=\dp\bmb@box%
1918 \ifdim\bmb@temp<1.5pt%
1919 \bmb@temp=1.5pt%
1920 \fi%
1921 \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1922 \dp\bmb@box=0pt%
1923 \bmb@prevheight=\ht\bmb@box%
1924 \fi%
1925 \bmb@temp=\bmb@width%
1926 \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1927 \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1928 \hbox{%
1929 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1930 \ifdim\wd\bmb@box=0pt%
1931 \color{lower.bg}%
1932 \else%
1933 \color{upper.bg}%
1934 \fi%
1935 \pgfpathmoveto{-4bp}{-1bp}
1936 \pgfpathcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1937 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1938 \pgfpathcurveto%
1939 {\pgfpoint{\bmb@dima}{3bp}}%
1940 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1941 {\pgfpoint{\bmb@dimb}{-1bp}}%
1942 \bmb@dima=-\ht\bmb@box%
1943 \advance\bmb@dima by-2pt%
1944 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1945 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1946 \pgfusepath{fill}
1947 \end{pgfpicture}%
1948 \copy\bmb@box%
1949 }%
1950 \nointerlineskip%
1951 \vskip-1pt%

```



```

1952 \ifdim\wd\bmb@box=0pt%
1953 \else%
1954 \hbox{%
1955   \begin{pgfpicture}{Opt}{Opt}{\bmb@width}{6pt}
1956     \bmb@dima=\bmb@width%
1957     \advance\bmb@dima by8bp%
1958     \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1959     \pgfusepath{clip}
1960     {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1961   \end{pgfpicture}%
1962 }%
1963 \nointerlineskip%
1964 \vskip-0.5pt%
1965 \fi%
1966 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1967 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1968   \vskip2pt%
1969   \usebeamercolor[fg]{\bmb@lower}%
1970   \colorlet{beamerstructure}{upper.bg}%
1971   \colorlet{structure}{upper.bg}%
1972   %\color{.}%
1973   \@bidi@list@minipage@parboxfalse
1974 }
1975
1976 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1977   \begingroup
1978   \@RTLfalse
1979 }{}{}
1980
1981

```

17 File beamerbasecolor-xetex-bidi.def

```

1982 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1983 \renewenvironment{beamercolorbox}[2][]{%
1984   \def\beamer@vmode{\leavevmode}%
1985   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1986     leftskip=Opt,rightskip=Opt plus1fil,%
1987     sep=Opt,colsep=Opt,colsep*=0pt,%
1988     shadow=false,rounded=false,ignorebg=false}%
1989   \if@RTL
1990     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1991   \else
1992     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1993   \fi
1994   \setkeys{beamercolbox}{#1}%
1995   \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1996   \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1997   \def\beamer@colbox@color{#2}%
1998   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1999     \ifbeamer@colbox@ignorebg%
2000       \colorlet{beamer@temp@color}{bg}%
2001       \usebeamercolor[fg]{#2}%
2002       \colorlet{bg}{beamer@temp@color}%

```



```

2003 \else%
2004 \usebeamercolor[fg]{#2}%
2005 \fi%
2006 \beginL
2007 \vbox\bgroup%
2008 \hsize=\beamer@colbox@wd%
2009 \@arrayparboxrestore%
2010 \leftskip=\beamer@colbox@ls%
2011 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2012 \rightskip=\beamer@colbox@rs%
2013 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2014 \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2015 \advance\leftskip by\beamer@colbox@colsep%
2016 \advance\rightskip by\beamer@colbox@colsep%
2017 \vskip\beamer@colbox@colsep%
2018 \fi%
2019 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2020 \fi%
2021 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2022 \beamer@vmode\ignorespaces}{%
2023 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2024 \if@tempswa
2025 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2026 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2027 \fi%
2028 \egroup\endL\color@endgroup\egroup%
2029 \wd\beamer@tempbox=\beamer@colbox@wd%
2030 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2031 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2032 \ifbeamer@colbox@rounded%
2033 \if@tempswa%
2034 \begin{beamerboxesrounded}[%
2035 shadow=\beamer@colbox@shadow,%
2036 lower=\beamer@colbox@color,%
2037 upper=normal text,%
2038 width=\beamer@colbox@wd]{}%
2039 \box\beamer@tempbox%
2040 \end{beamerboxesrounded}%
2041 \else%
2042 \ifdim\wd\beamer@tempbox>\textwidth%
2043 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2044 \fi%
2045 \box\beamer@tempbox%
2046 \fi%
2047 \else%
2048 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2049 \usebeamercolor{\beamer@colbox@color}%
2050 \hskip-\beamer@colbox@colseps%
2051 \fboxsep=\z@\colorbox{bg}{%
2052 \hskip\beamer@colbox@colseps%
2053 \box\beamer@tempbox%
2054 \hskip\beamer@colbox@colseps%
2055 }%
2056 \hskip-\beamer@colbox@colseps%

```



```

2057     }\fi%
2058     \ifdim\wd\beamer@tempbox>\textwidth%
2059         \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box%
2060         \fi%
2061     \box\beamer@tempbox%
2062 \fi%
2063 }
2064
2065

```

18 File beamerbasecompatibility-xetex-bidi.def

```

2066 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2067 \def\insertvrule#1#2{\hbox{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2068
2069

```

19 File beamerbaseframecomponents-xetex-bidi.def

```

2070 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations for
2071 \renewcommand{\setbeamer-size}[1]{%
2072     \beamer@dogeometryfalse%
2073     \setkeys{beamer@margin}{#1}%
2074     \ifbeamer@dogeometry%
2075         % Reset left margin now
2076         \beamer@tempdim=\beamer@leftmargin%
2077         \advance\beamer@tempdim by\beamer@leftsidebar%
2078         \if@RTLmain
2079             \geometry{right=\the\beamer@tempdim}%
2080         \else
2081             \geometry{left=\the\beamer@tempdim}%
2082         \fi
2083         % Reset right margin now
2084         \beamer@tempdim=\beamer@rightmargin%
2085         \advance\beamer@tempdim by\beamer@rightsidebar%
2086         \if@RTLmain
2087             \geometry{left=\the\beamer@tempdim}%
2088         \else
2089             \geometry{right=\the\beamer@tempdim}%
2090         \fi
2091     \fi%
2092 }
2093
2094 \newcommand*\bidi@beamer@Gm@lmargin}{%
2095     \if@RTLmain
2096         \Gm@rmargin
2097     \else
2098         \Gm@lmargin
2099     \fi
2100 }
2101
2102 \newcommand*\bidi@beamer@Gm@rmargin}{%
2103     \if@RTLmain
2104         \Gm@lmargin

```



```

2105 \else
2106   \Gm@rmargin
2107 \fi
2108 }
2109
2110 \def\ps@navigation{
2111   \def\@oddhead{%
2112     \begingroup%
2113     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2114     \beamer@tempdim=\ht\beamer@tempbox%
2115     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2116     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2117     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2118     \beamer@tempdim=\ht\@tempboxa%
2119     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2120     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2121     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}}%
2122     \hbox{%
2123       {%
2124         \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2125         \if@RTLmain
2126           {%
2127             \vbox to \sidebarheight{%
2128               \usebeamertemplate***{sidebar left}%
2129               \vfil%
2130             }}%
2131             \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2132               \hskip-\textwidth
2133             }%
2134             \fi
2135             {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2136               \usebeamercolor*{sidebar left}%
2137               \usebeamertemplate{sidebar canvas left}%
2138               \vss%
2139             }}%
2140             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2141             \box\beamer@tempbox}%
2142             \if@RTLmain
2143             \else
2144             {%
2145               \vbox to \sidebarheight{%
2146                 \usebeamertemplate***{sidebar left}%
2147                 \vfil%
2148               }}\fi}%
2149             \beamer@tempdim=\ht\beamer@tempbox%
2150             \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2151             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2152             \box\beamer@tempbox%
2153           }%
2154           {% print right sidebar first, since it should be overwritten by headline
2155             \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2156             \if@RTLmain
2157               {%
2158                 \vbox to \sidebarheight{%

```



```

2159         \usebeamertemplate***{sidebar right}%
2160         \vfil%
2161     }}%
2162     \hskip-\textwidth
2163     \fi
2164     {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2165         \usebeamercolor*{sidebar right}%
2166         \usebeamertemplate{sidebar canvas right}%
2167         \vss%
2168     }}%
2169     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2170     \box\beamer@tempbox}%
2171     \if@RTLmain
2172     \else
2173     {%
2174     \vbox to \sidebarheight{%
2175     \usebeamertemplate***{sidebar right}%
2176     \vfil%
2177     }}\fi}%
2178     \beamer@tempdim=\ht\beamer@tempbox%
2179     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2180     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2181     \box\beamer@tempbox%
2182     }%
2183     \beamer@typesetheadorfoot{headline}%
2184     }%
2185     \hfil}%
2186     \endgroup}
2187     \def\@oddfoot{%
2188     \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}}%
2189     \hfil}\hbox{}}\hfil
2190     }%
2191     \let\@evenhead\@oddhead
2192     \let\@evenfoot\@oddfoot}
2193
2194     \AtBeginDocument{%
2195     \pagestyle{navigation}%
2196     }
2197
2198     \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2199     {\parskip0pt\offinterlineskip%
2200     \hbox{%
2201     \hskip-\bidi@beamer@Gm@lmargin%
2202     \hbox{%
2203     \vbox{%
2204     \@tempdima=\textwidth%
2205     \textwidth=\paperwidth%
2206     \hsize=\textwidth%
2207     \def\{,%
2208     \usebeamertemplate***{#1}%
2209     }}%
2210     \hskip-\bidi@beamer@Gm@rmargin%
2211     }}\hfil%
2212     }

```



```

2213
2214 \def\ps@empty{%
2215   \let\@mkboth\@gobbletwo%
2216   \def\@oddhead{\begingroup%
2217     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2218     \beamer@tempdim=\ht\beamer@tempbox%
2219     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2220     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2221     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2222     \beamer@tempdim=\ht\@tempboxa%
2223     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2224     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2225     \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\
2226     \endgroup%
2227   }
2228   \def\@oddfoot{\normalcolor\hfil%
2229     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beame
2230     \ht\beamer@tempbox=0pt%
2231     \dp\beamer@tempbox=0pt%
2232     \box\beamer@tempbox}}
2233   \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2234
2235 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2236   \beamer@colclose\def\beamer@colclose{}%
2237   \begin{actionenv}#3%
2238     \setkeys{beamer@col}{#1}%
2239     \begin{minipage}[\beamer@colalign]{#2}%
2240       \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2241     {\end{minipage}\hfill\end{actionenv}}\@ignoretrue}
2242 \let\endcolumn\endbeamer@columnenv
2243
2244 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2245   \beamer@colclose%
2246   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2247   \begin{actionenv}#3%
2248     \setkeys{beamer@col}{#1}%
2249     \begin{minipage}[\beamer@colalign]{#2}%
2250       \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2251
2252 \renewenvironment<>{columns}[1][]{%
2253   \begin{actionenv}#2%
2254   \ifbeamer@onlytextwidth
2255     \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2256     \def\beamer@colexitcode{\unskip\egroup}
2257   \else%
2258     \def\beamer@colentrycode{%
2259       \hbox to\textwidth\bgroup%
2260       \leavevmode%
2261       \hskip-\beamer@leftmargin%
2262       \nobreak%
2263       \beamer@tempdim=\textwidth%
2264       \advance\beamer@tempdim by\beamer@leftmargin%
2265       \advance\beamer@tempdim by\beamer@rightmargin%
2266       \hbox to\beamer@tempdim\bgroup%

```




```

2267     \hbox{}\hfill\ignorespaces}%
2268     \def\beamer@colexitcode{\egroup%
2269     \nobreak%
2270     \hskip-\beamer@rightmargin\egroup}%
2271 \fi%
2272 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2273 \setkeys{beamer@col}{#1}%
2274 \par%
2275 \leavevmode
2276 \beamer@colentrycode%
2277 \def\beamer@colclose{}\ignorespaces}%
2278 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2279
2280
2281 \def\@makeRTLfntext#1{%
2282   \def\insertfootnotetext{#1}%
2283   \def\insertfootnotemark{\@makefnmark}%
2284   \usebeamertemplate***{RTLfootnote}}
2285
2286 \def\@makeLTRfntext#1{%
2287   \def\insertfootnotetext{#1}%
2288   \def\insertfootnotemark{\@makefnmark}%
2289   \usebeamertemplate***{LTRfootnote}}
2290
2291 \renewcommand<>\beamer@framefootnotetext[1]{%
2292   \global\setbox\beamer@footins\vbox{%
2293     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2294     \hsize\framewidth
2295     \textwidth\hsize
2296     \columnwidth\hsize
2297     \unvbox\beamer@footins
2298     \reset@font
2299     \bidi@@footnotetext@font
2300     \@parboxrestore
2301     \protected@edef\@currentlabel
2302       {\csname p@footnote\endcsname\@thefnmark}%
2303     \color@begingroup
2304     \uncover#2{\@makefntext{%
2305       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2306     \color@endgroup}}
2307
2308 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2309   \global\setbox\beamer@footins\vbox{%
2310     \@RTLtrue
2311     \hsize\framewidth
2312     \textwidth\hsize
2313     \columnwidth\hsize
2314     \unvbox\beamer@footins
2315     \reset@font
2316     \bidi@@RTLfootnotetext@font
2317     \@parboxrestore
2318     \protected@edef\@currentlabel
2319       {\csname p@footnote\endcsname\@thefnmark}%
2320     \color@begingroup

```



```

2321     \uncover#2{\@makeRTLfnstext{%
2322         \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2323     \color@endgroup}}
2324
2325 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2326     \global\setbox\beamer@footins\vbox{%
2327         \RTLfalse
2328         \hsize\framewidth
2329         \textwidth\hsize
2330         \columnwidth\hsize
2331         \unvbox\beamer@footins
2332         \reset@font
2333         \bidi@LTRfootnotetext@font
2334         \@parboxrestore
2335         \protected@edef\@currentlabel
2336             {\csname p@footnote\endcsname\@thefnmark}%
2337         \color@begingroup
2338         \uncover#2{\@makeRTLfnstext{%
2339             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2340         \color@endgroup}}
2341
2342 \renewcommand<>\mpfootnotetext[1]{%
2343 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnotetext
2344     \global\setbox\@mpfootins\vbox{%
2345         \unvbox\@mpfootins
2346         \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
2347         \reset@font
2348         \bidi@footnotetext@font
2349         \hsize\columnwidth
2350         \@parboxrestore
2351         \protected@edef\@currentlabel
2352             {\csname p@mpfootnote\endcsname\@thefnmark}%
2353         \color@begingroup
2354         \uncover#2{\@makefnstext{%
2355             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2356         \color@endgroup}}
2357
2358 \renewcommand<>\mpRTLfootnotetext[1]{%
2359 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnotetext\right@footnotetext
2360     \global\setbox\@mpfootins\vbox{%
2361         \unvbox\@mpfootins
2362         \RTLtrue
2363         \reset@font
2364         \bidi@RTLfootnotetext@font
2365         \hsize\columnwidth
2366         \@parboxrestore
2367         \protected@edef\@currentlabel
2368             {\csname p@mpfootnote\endcsname\@thefnmark}%
2369         \color@begingroup
2370         \uncover#2{\@makeRTLfnstext{%
2371             \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2372         \color@endgroup}}
2373
2374 \renewcommand<>\mpLTRfootnotetext[1]{%

```



```

2375 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\ bidi@mpfootnoterule\left@footnot
2376 \global\setbox\@mpfootins\vbox{%
2377 \unvbox\@mpfootins
2378 \@RTLfalse
2379 \reset@font
2380 \bidi@LTRfootnotetext@font
2381 \hsize\columnwidth
2382 \@parboxrestore
2383 \protected@edef\@currentlabel
2384 {\csname p@mpfootnote\endcsname\@thefnmark}%
2385 \color@begingroup
2386 \uncover#2{\@makeLTRfntext{%
2387 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2388 \color@endgroup}}
2389
2390 \let\@footnotetext=\beamer@framefootnotetext
2391 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2392 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2393
2394 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\@bidi@footdir@footnote}%
2395 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2396 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2397
2398 \renewcommand<>{\footnote}[1][ ]{%
2399 \let\beamer@footnotetext=\@footnotetext%
2400 \let\beamer@mpfn=\@mpfn%
2401 \let\beamer@thempfn=\@thempfn%
2402 \let\beamer@kvorig=\KV@errx%
2403 \let\beamer@xkvorig=\XKV@err
2404 \def\beamer@footarg{}%
2405 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2406 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2407 \setkeys{beamerfootnote}{#1}%
2408 \let\KV@errx=\beamer@kvorig%
2409 \let\XKV@errx=\beamer@xkvorig%
2410 \ifx\beamer@footarg\@empty%
2411 \def\beamer@next{\stepcounter\beamer@mpfn
2412 \protected@xdef\@thefnmark{\beamer@thempfn}%
2413 \@footnotemark\beamer@footnotetext#2}%
2414 \else%
2415 \def\beamer@next{%
2416 \begingroup
2417 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2418 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2419 \endgroup
2420 \@footnotemark\beamer@footnotetext#2}%
2421 \fi%
2422 \beamer@next}
2423
2424 \renewcommand<>{\RTLfootnote}[1][ ]{%
2425 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2426 \let\beamer@mpfn=\@mpfn%
2427 \let\beamer@thempfn=\@thempfn%
2428 \let\beamer@kvorig=\KV@errx%

```



```

2429 \let\beamer@xkvorig=\XKV@err
2430 \def\beamer@footarg{}%
2431 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2432 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2433 \setkeys{beamerfootnote}{#1}%
2434 \let\KV@errx=\beamer@kvorig%
2435 \let\XKV@errx=\beamer@xkvorig%
2436 \ifx\beamer@footarg\@empty%
2437   \def\beamer@next{\stepcounter\beamer@mpfn
2438     \protected@xdef\@thefnmark{\beamer@thempfn}%
2439     \@footnotemark\beamer@RTLfootnotetext#2}%
2440 \else%
2441   \def\beamer@next{%
2442     \begingroup
2443       \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2444       \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2445     \endgroup
2446     \@footnotemark\beamer@RTLfootnotetext#2}%
2447 \fi%
2448 \beamer@next}
2449
2450 \renewcommand<>{\LTRfootnote}[1][ ]{%
2451   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2452   \let\beamer@mpfn=\@mpfn%
2453   \let\beamer@thempfn=\@thempfn%
2454   \let\beamer@kvorig=\KV@errx%
2455   \let\beamer@xkvorig=\XKV@err
2456   \def\beamer@footarg{}%
2457   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2458   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2459   \setkeys{beamerfootnote}{#1}%
2460   \let\KV@errx=\beamer@kvorig%
2461   \let\XKV@errx=\beamer@xkvorig%
2462   \ifx\beamer@footarg\@empty%
2463     \def\beamer@next{\stepcounter\beamer@mpfn
2464       \protected@xdef\@thefnmark{\beamer@thempfn}%
2465       \@footnotemark\beamer@LTRfootnotetext#2}%
2466   \else%
2467     \def\beamer@next{%
2468       \begingroup
2469         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2470         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2471       \endgroup
2472       \@footnotemark\beamer@LTRfootnotetext#2}%
2473   \fi%
2474   \beamer@next}
2475
2476

```

20 File beamerbaseframesize-xetex-bidi.def

```

2477 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2478 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2479   \par\nointerlineskip%

```



```

2480 \global\beamer@slidehaszoomtrue%
2481 \advance\beamer@zoomcount by1\relax%
2482 \def\beamer@zoomborderwidth{0}%
2483 \edef\beamer@labelzoomed{beamer@labelzoomed@\the\beamer@zoomframecount @\the\beamer@zoomcount}%
2484 \setkeys{beamerzoom}{#3}%
2485 \only<#1>{%
2486   {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2487   \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2488     \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2489       \vbox to #7{%
2490         \hbox to#6{\hfil}%
2491         \vfil%
2492       }%
2493     \else%
2494       \begin{group}
2495         \normalsize%
2496         \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2497           \pgfsetfillopacity{0}
2498           \pgftext [x=0cm,y=3pt]{.}
2499           \pgftext [x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2500         \end{pgfpicture}%
2501       \endgroup%
2502     \fi%
2503   }}%
2504   \ht\@tempboxa=0pt%
2505   \wd\@tempboxa=0pt%
2506   \dp\@tempboxa=0pt%
2507   \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}}%
2508   \ht\@tempboxa=0pt%
2509   \wd\@tempboxa=0pt%
2510   \dp\@tempboxa=0pt%
2511   \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2512 }%
2513 \only<#2>{%
2514   \@ifundefined{\beamer@labelzoomed}%
2515   {%
2516     \hypertarget{\beamer@labelzoomed}{}%
2517     \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2518   }{}%
2519   \gdef\beamer@zoomer{%
2520     % compute zoom factor
2521     \@tempdima=\beamer@frametextheight%
2522     \@tempdimb=#7\relax%
2523     \@tempcnta=\@tempdimb%
2524     \divide\@tempcnta by4096\relax%
2525     \multiply\@tempdima by16\relax%
2526     \divide\@tempdima by\@tempcnta%
2527     \@tempdimb=\paperwidth%
2528     \ifbeamer@plainframe%
2529     \else%
2530       \advance\@tempdimb by-\beamer@leftsidebar%
2531       \advance\@tempdimb by-\beamer@rightsidebar\relax%
2532     \fi%
2533     \@tempdimc=#6\relax%

```



```

2534 \@tempcntb=\@tempdimc%
2535 \divide\@tempcntb by4096\relax%
2536 \multiply\@tempdimb by16\relax%
2537 \divide\@tempdimb by\@tempcntb%
2538 \ifdim\@tempdimb<\@tempdima%
2539 \@tempdima=\@tempdimb%
2540 \fi%
2541 \edef\beamer@temp{\strip@pt\@tempdima}%
2542 \@tempdimc=\beamer@frametextheight%
2543 \advance\@tempdimc by4pt%
2544 \@tempdimb=\paperwidth%
2545 \ifbeamer@plainframe%
2546 \else%
2547 \advance\@tempdimb by-\beamer@leftsidebar%
2548 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2549 \fi%
2550 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2551 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2552 \ht\@tempboxa=0pt%
2553 \wd\@tempboxa=0pt%
2554 \dp\@tempboxa=0pt%
2555 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2556 \ifbeamer@plainframe\beamer@leftmargin=\Gm@lmargin\fi%
2557 \ifRTL
2558 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pape
2559 \pgftext [right, top]{\box\@tempboxa}
2560 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2561 \pgfusepath{clip}
2562 \begingroup
2563 \pgftransformscale{\beamer@temp}
2564 \@tempdima=#4\relax%
2565 \@tempdimb=#5\relax%
2566 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2567 \pgftext [right, top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2568 \endgroup
2569 \end{pgfpicture}}%
2570 \else
2571 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargin
2572 \pgftext [left, top]{\box\@tempboxa}
2573 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2574 \pgfusepath{clip}
2575 \begingroup
2576 \pgftransformscale{\beamer@temp}
2577 \@tempdima=#4\relax%
2578 \@tempdimb=#5\relax%
2579 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2580 \pgftext [left, top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2581 \endgroup
2582 \end{pgfpicture}}%
2583 \fi
2584 }}%
2585 \setbox\beamer@framebox=\vbox{%
2586 \nobreak\vbox{} \nobreak\par \nobreak\beamer@entrycode \nobreak%
2587 \nointerlineskip\unvbox\beamer@frametitlebox%

```



```

2588     \nobreak%
2589     \box\beamer@framebox%
2590     \nobreak%
2591     \vss%
2592     \beamer@exitcode%
2593   }%
2594   \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2595 }%
2596 }%
2597 }
2598
2599

```

21 File beamerbaselocalstructure-xetex-bidi.def

```

2600 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2601 \def\beamer@enum@{%
2602   \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2603   \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2604   \bgroup
2605   \usebeamercolor[fg]{itemize/enumerate \beameritemnestingprefix body}%
2606   \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2607   \egroup
2608   \expandafter
2609     \list
2610     {\usebeamertemplate{\beamer@enumtempl}}
2611     {\usecounter\@enumctr%
2612       \def\makelabel##1{\hss\llap{%
2613         \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2614         \usebeamercolor[fg]{enumerate \beameritemnestingprefix item}##1}}}}%
2615   \beamer@cramped%
2616   \bidi@beamer@ragged%
2617   \beamer@firstlineitemizeunskip%
2618 }
2619
2620 \renewcommand{\itemize}[1][ ]{%
2621   \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2622   \ifnum \@itemdepth >2\relax\@toodeep\else
2623     \advance\@itemdepth\@ne
2624     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2625     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2626     \bgroup
2627     \usebeamercolor[fg]{itemize/enumerate \beameritemnestingprefix body}%
2628     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2629     \egroup
2630     \list
2631     {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2632     {\def\makelabel##1{%
2633       {%
2634         \hss\llap{%
2635           \usebeamerfont*{itemize \beameritemnestingprefix item}%
2636           \usebeamercolor[fg]{itemize \beameritemnestingprefix item}##1}}}}%
2637     }%
2638   }%

```



```

2639     }
2640 \fi%
2641 \beamer@cramped%
2642 \bidi@beamer@ragged%
2643 \beamer@firstlineitemizeunskip%
2644 }
2645
2646 \def\@@description{%
2647 \advance\beamer@descdefault by \labelsep%
2648 \usebeamerfont{description body}%
2649 \bgroup
2650 \usebeamercolor[fg]{description body}%
2651 \usebeamertemplate{description body begin}%
2652 \egroup
2653 \list
2654 {}
2655 {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2656 \beamer@cramped%
2657 \bidi@beamer@ragged
2658 \beamer@firstlineitemizeunskip%
2659 }
2660
2661 \renewenvironment{thebibliography}[1]
2662 {%\leavevmode\unskip%
2663 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2664 \bidi@thebibliography@font@hook%
2665 \list{\@biblabel{\@arabic\c@enumiv}}%
2666     {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2667     \leftmargin\labelwidth
2668     \advance\leftmargin\labelsep
2669     \itemsep=0pt%
2670     \partopsep=0pt%
2671     \topsep=0pt%
2672     \usecounter{enumiv}%
2673     \let\p@enumiv\@empty
2674     \renewcommand\theenumiv{\@arabic\c@enumiv}
2675     \let\makelabel\beamer@biblabeltemplate}%
2676 \sloppy\bidi@beamer@ragged
2677 \clubpenalty10000
2678 \@clubpenalty \clubpenalty
2679 \widowpenalty10000%
2680 \sfcode`\.\@m}
2681 {\def\@noitemerr
2682     {\@latex@warning{Empty `thebibliography' environment}}%
2683 \ifhmode\unskip\fi\endlist}
2684
2685

```

22 File beamerbasemisc-xetex-bidi.def

```

2686 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2687 \define@key{beamerst}{width}{%
2688 \def\beamer@ststart{%
2689 \begin{minipage}[t]{#1}%

```




```

2690     \bidi@beamer@ragged
2691     \beamer@stalign
2692     \beamer@stlinebreakrule
2693   }%
2694 \def\beamer@stend{\end{minipage}}
2695
2696

```

23 File beamerbasenavigation-xetex-bidi.def

```

2697 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2698 \def\slideentry#1#2#3#4#5#6{%
2699   %section number, subsection number, slide number, first/last frame, page number, part numb
2700   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2701     \ifbeamer@compress%
2702       \advance\beamer@xpos by1\relax%
2703     \else%
2704       \ifnum#2=0%
2705         \beamer@ypos@offset=1\relax%
2706       \fi
2707       \beamer@xpos=#3\relax%
2708       \beamer@ypos=#2\relax%
2709       \advance\beamer@ypos by \beamer@ypos@offset\relax
2710     \fi%
2711   \hbox to 0pt{%
2712     \beamer@tempdim=-\beamer@vboxoffset%
2713     \advance\beamer@tempdim by-\beamer@boxsize%
2714     \multiply\beamer@tempdim by\beamer@ypos%
2715     \advance\beamer@tempdim by -.05cm%
2716     \raise\beamer@tempdim\hbox{%
2717       \beamer@tempdim=\beamer@boxsize%
2718       \multiply\beamer@tempdim by\beamer@xpos%
2719       \advance\beamer@tempdim by -\beamer@boxsize%
2720       \advance\beamer@tempdim by 1pt%
2721       \kern\beamer@tempdim
2722       \global\beamer@section@min@dim\beamer@tempdim
2723       \hbox{\beamer@link(#4){%
2724         \usebeamerfont{mini frame}%
2725         \ifnum\c@section=#1%
2726           \ifnum\c@subsection=#2%
2727             \usebeamercolor[fg]{mini frame}%
2728             \ifnum\c@subsectionslide=#3%
2729               \usebeamertemplate{mini frame}\beamer@minislidehighlight%
2730             \else%
2731               \usebeamertemplate{mini frame in current subsection}\beamer@minisliderowhil
2732             \fi%
2733           \else%
2734             \usebeamercolor{mini frame}%
2735             %\color{fg!50!bg}%
2736             \usebeamertemplate{mini frame in other subsection}\beamer@minislide%
2737           \fi%
2738         \else%
2739           \usebeamercolor{mini frame}%
2740           %\color{fg!50!bg}%

```



```

2741         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2742         \fi%
2743     }}}} \hskip-10cm plus 1fil%
2744 } \fi \fi%
2745 \else%
2746 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2747 \fi \ignorespaces
2748 }
2749
2750 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2751 {
2752 \pgfpathmoveto{3.5bp}{0.5bp}
2753 \pgfpathqlineto{1.5bp}{2bp}
2754 \pgfpathqlineto{3.5bp}{3.5bp}
2755 \pgfusepathqfill
2756 }
2757
2758 \def\insertgotosymbol{%
2759 \if@RTL
2760 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2761 \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2762 \end{pgfpicture}%
2763 \else
2764 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2765 \pgfuseobject{beamer@gotosymbol}%
2766 \end{pgfpicture}%
2767 \fi
2768 }
2769
2770 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2771 {
2772 \pgfpathmoveto{5.5bp}{0.5bp}
2773 \pgfpathqlineto{3.5bp}{2bp}
2774 \pgfpathqlineto{5.5bp}{3.5bp}
2775 \pgfpathmoveto{3.5bp}{0.5bp}
2776 \pgfpathqlineto{1.5bp}{2bp}
2777 \pgfpathqlineto{3.5bp}{3.5bp}
2778 \pgfusepathqfill
2779 }
2780
2781 \def\insertskipsymbol{%
2782 \if@RTL
2783 \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2784 \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2785 \end{pgfpicture}%
2786 \else
2787 \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2788 \pgfuseobject{beamer@skipsymbol}%
2789 \end{pgfpicture}%
2790 \fi
2791 }
2792
2793 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2794 {

```



```

2795 \pgfpathmoveto{1.5bp}{0.5bp}
2796 \pgfpathqlineto{3.5bp}{2bp}
2797 \pgfpathqlineto{1.5bp}{3.5bp}
2798 \pgfusepathqfill
2799 }
2800
2801 \def\insertreturnsymbol{%
2802 \if@RTL
2803 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2804 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2805 \end{pgfpicture}%
2806 \else
2807 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2808 \pgfuseobject{beamerreturnsymbol}%
2809 \end{pgfpicture}%
2810 \fi
2811 }
2812
2813

```

24 File beamerbaseoverlay-xetex-bidi.def

```

2814 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2815 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2816
2817

```

25 File beamerinnerthemedefault-xetex-bidi.def

```

2818 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2819 \newcommand*{\bidi@beamer@leftskip}{%
2820 \if@RTL
2821 \rightskip
2822 \else
2823 \leftskip
2824 \fi
2825 }
2826
2827 \newcommand*{\bidi@beamer@rightskip}{%
2828 \if@RTL
2829 \leftskip
2830 \else
2831 \rightskip
2832 \fi
2833 }
2834
2835 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2836
2837 \bidi@csundef{beamer@tmpop@subsubsection in toc@default}
2838
2839 \defbeamertemplate*{subsection in toc}{default}
2840 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2841
2842 \defbeamertemplate*{subsubsection in toc}{default}

```



```

2843 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2844 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2845
2846 \newcommand*\bidi@beamer@blacktriangle}{%
2847 \if@RTL
2848   $\blacktriangleleft$%
2849 \else
2850   $\blacktriangleright$%
2851 \fi
2852 }
2853
2854 \bidi@csundef{beamer@@tmpop@itemize item@default}
2855
2856 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2857
2858 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2859
2860 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\vd
2861 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2862 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2863
2864 \bidi@undef\beamer@@tmpop@footnote@default
2865
2866 \defbeamertemplate*{footnote}{default}
2867 {
2868 \parindent 1em\noindent%
2869 \bidi@beamer@ragged
2870 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2871 }
2872
2873 \defbeamertemplate*{RTLfootnote}{default}
2874 {
2875 \parindent 1em\noindent%
2876 \raggedleft
2877 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2878 }
2879
2880 \defbeamertemplate*{LTRfootnote}{default}
2881 {
2882 \parindent 1em\noindent%
2883 \raggedright
2884 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2885 }
2886
2887 \bidi@undef\beamer@@tmpop@caption@default
2888
2889 \defbeamertemplate*{caption}{default}
2890 {%
2891 \bidi@beamer@ragged
2892 {%
2893 \leavevmode
2894 \usebeamerfont[fg]{caption name}%
2895 \usebeamerfont*{caption name}%
2896 \insertcaptionname

```



```

2897   \usebeamertemplate{caption label separator}%
2898 }%
2899 \insertcaption\par
2900 }
2901
2902 \bidi@csundef{beamer@tmpop@block begin@default}
2903
2904 \bidi@csundef{beamer@tmpop@block alerted begin@default}
2905
2906 \bidi@csundef{beamer@tmpop@block example begin@default}
2907
2908 \defbeamertemplate*{block begin}{default}
2909 {
2910   \par\vskip\medskipamount%
2911   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2912     \usebeamerfont*{block title}\insertblocktitle%
2913   \end{beamercolorbox}%
2914   {\parskip0pt\par}%
2915   \ifbeamercoloreempty[bg]{block title}
2916   {}
2917   {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2918   \usebeamerfont{block body}%
2919   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2920     \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\basel}
2921   }
2922 }
2923 \defbeamertemplate*{block alerted begin}{default}
2924 {
2925   \par\vskip\medskipamount%
2926   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2927     \usebeamerfont*{block title alerted}\insertblocktitle%
2928   \end{beamercolorbox}%
2929   {\parskip0pt\par}%
2930   \ifbeamercoloreempty[bg]{block title alerted}
2931   {}
2932   {\ifbeamercoloreempty[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2933   \usebeamerfont{block body alerted}%
2934   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2935     \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e}
2936   }
2937 }
2938 \defbeamertemplate*{block example begin}{default}
2939 {
2940   \par\vskip\medskipamount%
2941   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2942     \usebeamerfont*{block title example}\insertblocktitle%
2943   \end{beamercolorbox}%
2944   {\parskip0pt\par}%
2945   \ifbeamercoloreempty[bg]{block title example}
2946   {}
2947   {\ifbeamercoloreempty[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2948   \usebeamerfont{block body example}%
2949   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2950     \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75e}

```



```

2951 }
2952
2953 \bidi@csundef{beamer@tmpop@abstract begin@default}
2954
2955 \defbeamer@template*{abstract begin}{default}
2956 {\beamer@colorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil
2957
2958 \bidi@undef\beamer@tmpop@button@default
2959
2960 \defbeamer@template*{button}{default}
2961 {%
2962 \setbox\beamer@tempbox=\hbox{\insertbuttontext}}%
2963 \ht\beamer@tempbox=6pt%
2964 \dp\beamer@tempbox=0pt%
2965 \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2966 \beamer@tempdim=\wd\beamer@tempbox%
2967 \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2968 \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2969 \if@RTL
2970 \kern4pt%
2971 \box\beamer@tempbox%
2972 \hskip-\beamer@tempdim%
2973 \fi
2974 \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2975 \color{bg}
2976 \pgfsetlinewidth{0.8pt}
2977 \pgfpathmoveto{0pt}{0pt}
2978 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2979 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2980 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2981 \pgfpathcurveto%
2982 {\pgfpoint{\the\beamer@dima}{8pt}}%
2983 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2984 {\pgfpoint{\the\beamer@dimb}{4pt}}
2985 \pgfpathcurveto%
2986 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2987 {\pgfpoint{\the\beamer@dima}{0pt}}%
2988 {\pgfpoint{\the\beamer@tempdim}{0pt}}
2989 \pgfpathclose
2990 \pgfusepathqfill
2991 \colorlet{bg}{parent.bg}
2992 \usebeamer@color[fg]{button border}
2993 \pgfpathmoveto{0pt}{0pt}
2994 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2995 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2996 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2997 \pgfpathcurveto%
2998 {\pgfpoint{\the\beamer@dima}{8pt}}%
2999 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
3000 {\pgfpoint{\the\beamer@dimb}{4pt}}
3001 \pgfpathcurveto%
3002 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3003 {\pgfpoint{\the\beamer@dima}{0pt}}%
3004 {\pgfpoint{\the\beamer@tempdim}{0pt}}

```



```

3005   \pgfpathclose
3006   \pgfusepathqstroke
3007 \end{pgfpicture}%
3008 \if@RTL
3009 \else
3010   \hskip-\beamer@tempdim%
3011   \box\beamer@tempbox%
3012   \kern4pt%
3013 \fi
3014 }
3015
3016

```

26 File beamerinnerthemecircles-xetex-bidi.def

```

3017 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for be
3018 \setbeamertemplate{sections/subsections in toc}[circle]
3019

```

27 File beamerinnerthemefocus-xetex-bidi.def

```

3020 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3021 \setbeamertemplate{section in toc}[square]
3022 \setbeamertemplate{subsection in toc}[square]
3023
3024 \setbeamertemplate{itemize items}[square]
3025 \setbeamertemplate{itemize subitem}[triangle]
3026
3027 \bidi@csundef{beamer@@tmpop@title page@focus}
3028
3029 \defbeamertemplate*{title page}{focus}{%
3030   {%
3031     \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3032     \begin{tikzpicture}[overlay, remember picture]
3033       \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4
3034     \end{tikzpicture}
3035   }
3036
3037   \vspace{-1.65\baselineskip}
3038   \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3039     \vspace{\baselineskip}
3040     \usebeamerfont{title}
3041     \usebeamercolor[fg]{frametitle}
3042     \inserttitle
3043   \end{minipage}
3044
3045   \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3046     \usebeamerfont{subtitle}
3047     \usebeamercolor[fg]{frametitle}
3048     \insertsubtitle
3049   \end{minipage}
3050
3051   % Set the title graphic in a zero-height box, so that
3052   % the position of other elements is not affected.

```



```

3053   {\vfuuzz=9999pt\vbox to 0pt {
3054     \if@RTL
3055       \raggedright
3056     \else
3057       \raggedleft
3058     \fi
3059     \inserttitlegraphic
3060   }}
3061
3062   \begin{minipage}[t]{\textwidth}
3063     \usebeamerfont{author}
3064     \insertauthor
3065   \end{minipage}
3066
3067   \vspace*{\baselineskip}
3068   \begin{minipage}[t]{\textwidth}
3069     \usebeamerfont{institute}
3070     \insertinstitute
3071   \end{minipage}
3072
3073   \vspace*{\baselineskip}
3074   \begin{minipage}[t]{\textwidth}
3075     \usebeamerfont{date}
3076     \insertdate
3077   \end{minipage}
3078
3079   \vspace*{0pt plus 100fill}
3080
3081   \addtocounter{framenummer}{-1}
3082   \addtocounter{realframenummer}{-1}
3083 }
3084
3085
3086

```

28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3087 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3088 \AtBeginDocument{%
3089   \setbeamsize{sidebar width left=.25\paperwidth}%
3090 }
3091
3092 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3093
3094 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3095
3096 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3097
3098 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3099
3100 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3101
3102 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3103

```




```

3104 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3105
3106 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
3107
3108 \defbeamerteremplate*{section in toc}{inmargin}
3109 {\leavevmode
3110 \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
3111
3112 \defbeamerteremplate*{title page}{inmargin}
3113 {
3114 \begin{block}{\inserttitleindicator}
3115 \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3116 \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3117 \end{block}
3118 \vfill
3119 \ifx\insertauthor\@empty
3120 \else
3121 \begin{block}{\insertauthorindicator}
3122 \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3123 \end{block}
3124 \fi
3125 \ifx\insertinstitute\@empty
3126 \else
3127 \begin{block}{\insertinstituteindicator}
3128 \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3129 \end{block}
3130 \fi
3131 \ifx\insertdate\@empty
3132 \else
3133 \begin{block}{\insertdateindicator}
3134 \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3135 \end{block}
3136 \fi
3137 }
3138
3139 \defbeamerteremplate*{block begin}{inmargin}
3140 {
3141 \par\vskip\medskipamount%
3142 \leavevmode%
3143 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}}\i
3144 \beginL\beamer@putright
3145 %\usebeamercolor[fg]{block body}% to be done!
3146 }
3147
3148 \defbeamerteremplate*{block end}{inmargin}
3149 {\endbeamer@putright\endL\vskip\smallskipamount}
3150
3151 \defbeamerteremplate*{block alerted begin}{inmargin}
3152 {
3153 \par\vskip\medskipamount%
3154 \leavevmode%
3155 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block
3156 \beginL\beamer@putright
3157 %\usebeamercolor[fg]{block body alerted}% to be done!

```



```

3158 }
3159
3160 \defbeamer*{block alerted end}{inmargin}
3161 {\endbeamer@putright\endL\vskip\smallskipamount}
3162
3163 \defbeamer*{block example begin}{inmargin}
3164 {
3165   \par\vskip\medskipamount%
3166   \leavevmode%
3167   \beamer@putleft{\normalfont{\usebeamerfont[fg]{block title example}}\usebeamerfont*{block
3168   \beginL\beamer@putright
3169   %\usebeamerfont[fg]{block body example}% to be done
3170 }
3171
3172 \defbeamer*{block example end}{inmargin}
3173 {\endbeamer@putright\endL\vskip\smallskipamount}
3174
3175 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3176   \setbeamer*{section in toc}[inmargin]%
3177   \setbeamer*{subsection in toc}[inmargin]%
3178   \setbeamer*{subsubsection in toc}[inmargin]%
3179 }
3180
3181

```

29 File beamerinnerthememetropolis-xetex-bidi.def

```

3182 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3183 \setbeamer*{title}{
3184   \bidi@beamer@ragged%
3185   \linespread{1.0}%
3186   \inserttitle%
3187   \par%
3188   \vspace*{0.5em}
3189 }
3190
3191 \setbeamer*{subtitle}{
3192   \bidi@beamer@ragged%
3193   \insertsubtitle%
3194   \par%
3195   \vspace*{0.5em}
3196 }
3197
3198 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3199
3200 \defbeamer*{section page}{progressbar}{
3201   \centering
3202   \begin{minipage}{22em}
3203     \bidi@beamer@ragged
3204     \usebeamerfont[fg]{section title}
3205     \usebeamerfont{section title}
3206     \insertsectionhead\[-1ex]
3207     \usebeamer*{progress bar in section page}
3208     \par

```



```

3209 \ifx\insertsubsectionhead\@empty\else%
3210 \usebeamercolor[fg]{subsection title}%
3211 \usebeamerfont{subsection title}%
3212 \insertsubsectionhead
3213 \fi
3214 \end{minipage}
3215 \par
3216 \vspace{\baselineskip}
3217 }
3218
3219 \setbeamertemplate{progress bar in section page}{
3220 \setlength{\metropolis@progressonsectionpage}{%
3221 \textwidth * \ratio{\insertframenum pt}{\inserttotalframenum pt}}%
3222 }%
3223 \begin{tikzpicture}
3224 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3225 \if@RTLmain
3226 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metro
3227 \else
3228 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsect
3229 \fi
3230 \end{tikzpicture}%
3231 }
3232
3233 \renewcommand{\metropolis@block}[1]{
3234 \par\vskip\medskipamount%
3235 \setlength{\parskip}{Opt}
3236 \ifbeamercoloreempty[bg]{block title#1}{%
3237 \if@RTL
3238 \begin{beamercolorbox}[leftskip=Opt plus 4em]{block title#1}%
3239 \else
3240 \begin{beamercolorbox}[rightskip=Opt plus 4em]{block title#1}%
3241 \fi
3242 }{%
3243 \ifbeamercoloreempty[bg]{block title}{%
3244 \if@RTL
3245 \begin{beamercolorbox}[leftskip=Opt plus 4em]{block title#1}%
3246 \else
3247 \begin{beamercolorbox}[rightskip=Opt plus 4em]{block title#1}%
3248 \fi
3249 }%
3250 }%
3251 \if@RTL
3252 \begin{beamercolorbox}[
3253 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3254 rightskip=\metropolis@blockadjust,
3255 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3256 ]{block title#1}%
3257 \else
3258 \begin{beamercolorbox}[
3259 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3260 leftskip=\metropolis@blockadjust,
3261 rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3262 ]{block title#1}%

```



```

3263   \fi
3264 }}%
3265   \usebeamerfont*{block title#1}%
3266   \metropolis@strut%
3267   \insertblocktitle%
3268   \metropolis@strut%
3269 \end{beamercolorbox}%
3270 \nointerlineskip%
3271 \ifbeamercoloreempty[bg]{block body#1}{%
3272   \begin{beamercolorbox}[vmode]{block body#1}}{
3273   \ifbeamercoloreempty[bg]{block body}{%
3274     \begin{beamercolorbox}[vmode]{block body#1}%
3275   }}{%
3276     \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3277     \vspace{-\metropolis@parskip}
3278   }}%
3279   \usebeamerfont{block body#1}%
3280   \setlength{\parskip}{\metropolis@parskip}%
3281 }
3282
3283
3284 \setbeamertemplate{footnote}{%
3285   \parindent 0em\noindent%
3286   \bidi@beamer@ragged
3287   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3288 }
3289
3290 \setbeamertemplate{RTLfootnote}{%
3291   \parindent 0em\noindent%
3292   \raggedleft
3293   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3294 }
3295
3296 \setbeamertemplate{LTRfootnote}{%
3297   \parindent 0em\noindent%
3298   \raggedright
3299   \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3300 }
3301
3302 \setbeamertemplate{itemize items}{\textbullet}
3303
3304 \setbeamertemplate{section page}[progressbar]
3305
3306

```

30 File beamerinnerthemerectangles-xetex-bidi.def

```

3307 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations fo
3308 \setbeamertemplate{sections/subsections in toc}[square]
3309 \setbeamertemplate{items}[square]
3310

```

31 File beamerinnerthemeroounded-xetex-bidi.def



```

3311 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3312 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3313 \setbeamertemplate{items}[ball]
3314 \setbeamertemplate{sections/subsections in toc}[ball]
3315

```

32 File beamerouterthemedefault-xetex-bidi.def

```

3316 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3317 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3318
3319 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3320
3321 \AtBeginDocument{%
3322   \if@RTLmain
3323     \setbeamertemplate{frametitle}[default][right]
3324   \fi
3325 }
3326
3327 \bidi@csundef{beamer@@tmpop@note page@default}
3328
3329 \newcommand*{\bidi@beamer@today}{%
3330 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3331
3332 \defbeamertemplate*{note page}{default}
3333 {%
3334   {%
3335     \scriptsize
3336     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3337     \ifbeamercolorempy[bg]{note title}{}%
3338     \insertvrule{.25\paperheight}{note title.bg}%
3339     \vskip-.25\paperheight%
3340     \nointerlineskip%
3341   }%
3342   \vbox{
3343     \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3344     \vskip-0.25\paperheight%
3345     \nointerlineskip
3346     \if@RTL
3347       \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3348         \begin{pgflowlevelslope}{\pgftransformrotate{-90}}
3349           {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3350           \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@b
3351         \end{pgflowlevelslope}
3352       \end{pgfpicture}%
3353     \else
3354       \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3355         \begin{pgflowlevelslope}{\pgftransformrotate{90}}
3356           {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3357           \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@b
3358         \end{pgflowlevelslope}
3359       \end{pgfpicture}%
3360     \fi
3361     \nointerlineskip

```



```

3362 \vbox to .25\paperheight{\vskip0.5em
3363 \if@RTL
3364 \moveright0.25\textwidth
3365 \fi
3366 \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3367 \setbox\beamer@tempbox=\hbox{\insertsection}%
3368
3369 \if@RTL
3370 \moveright\dimexpr0.29\textwidth-14pt\relax
3371 \fi
3372 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3373 width0.4pt height7pt\vrule width 9pt
3374 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi}
3375 \if@RTL\endR\fi}%
3376 \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3377
3378 \if@RTL
3379 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3380 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3381 width0.4pt height7pt\vrule width 9pt
3382 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi}
3383 \if@RTL\endR\fi}%
3384 \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3385
3386 \if@RTL
3387 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3388 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3389 width0.4pt height7pt\vrule width 9pt
3390 height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi}
3391 \if@RTL\endR\fi}%
3392 \vfil}%
3393 }%
3394 \ifbeamercoloreempty[bg]{note page}{-}{-}%
3395 \nointerlineskip%
3396 \insertvrule{.75\paperheight}{note page.bg}%
3397 \vskip-.75\paperheight%
3398 }%
3399 \vskip.25em
3400 \nointerlineskip
3401 \insertnote
3402 }
3403
3404
3405

```

33 File beamerouterthemefocus-xetex-bidi.def

```

3406 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3407 \bidi@undef\beamer@@tmpop@footline@progressbar
3408
3409 \defbeamer@template*{footline}{progressbar}{-}{-}
3410 % If not appendix.
3411 \ifnum\mainend<0% From package appendixnumberbeamer.
3412 %

```



```

3413     \settoheight{\focus@pbar@leftoffset}{1}%
3414     \addtolength{\focus@pbar@leftoffset}{1.5em}%
3415     %
3416     \ifx\beamer@focus@totalframenumbers\no%
3417         \settoheight{\focus@pbar@rightoffset}{1}%
3418         \addtolength{\focus@pbar@rightoffset}{0.5em}%
3419     \else%
3420         \settoheight{\focus@pbar@rightoffset}{\inserttotalframenumber}%
3421         \addtolength{\focus@pbar@rightoffset}{1.5em}%
3422     \fi%
3423     %
3424     % If not title page.
3425     \ifnum\value{realframenumber}>0%
3426         \ifnum\value{framenumber}<\inserttotalframenumber%
3427             \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footline}
3428                 \pgfmathsetmacro{\focus@pbar@progress}%
3429                     {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inserttotalframenumber-\value{framenumber})/\inserttotalframenumber}
3430                 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3431             \end{tikzpicture}
3432     \if@RTLmain
3433         \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoffset,\the\focus@pbar@height) node[anchor=west,footline.fg] at ({\the\focus@pbar@leftoffset},0.5*\the\focus@pbar@height)
3434         \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height) node[anchor=west,footline.fg] at ({\paperwidth-\the\focus@pbar@leftoffset},0.5*\the\focus@pbar@height)
3435     \else
3436         \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height) node[anchor=west,footline.fg] at ({\the\focus@pbar@leftoffset},0.5*\the\focus@pbar@height)
3437         \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pbar@rightoffset-\the\focus@pbar@leftoffset,\the\focus@pbar@height) node[anchor=west,footline.fg] at ({\the\focus@pbar@leftoffset},0.5*\the\focus@pbar@height)
3438     \fi
3439     \ifx\beamer@focus@totalframenumbers\no%
3440     \else%
3441     \if@RTLmain
3442         \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=west,footline.fg] at ({\the\focus@pbar@rightoffset},0.5*\the\focus@pbar@height)
3443     \else
3444         \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=west,footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},0.5*\the\focus@pbar@height)
3445     \fi
3446     \end{tikzpicture}
3447     \else%
3448         \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3449             \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3450             \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height) node[anchor=west,footline.fg] at ({\the\focus@pbar@rightoffset},0.5*\the\focus@pbar@height)
3451     \if@RTLmain
3452         \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},0.5*\the\focus@pbar@height)
3453     \else
3454         \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},0.5*\the\focus@pbar@height)
3455     \fi
3456     \ifx\beamer@focus@totalframenumbers\no%
3457     \else%
3458     \if@RTLmain
3459         \node[footline.fg] at ({\the\focus@pbar@rightoffset},0.5*\the\focus@pbar@height)
3460     \else
3461         \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},0.5*\the\focus@pbar@height)
3462     \fi
3463     \if@RTLmain
3464         \node[footline.fg] at ({\the\focus@pbar@rightoffset},0.5*\the\focus@pbar@height)
3465     \else
3466     \fi

```



```

3467             \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.
3468             \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3469 \fi
3470             \fi%
3471             \end{tikzpicture}%
3472             \fi%
3473             \fi%
3474             \fi%
3475 }
3476
3477

```

34 File beamerouterthemeinfolines-xetex-bidi.def

```

3478 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3479 \bidi@csundef{beamer@tmpop@footline@infolines theme}
3480
3481 \defbeamertemplate*{footline}{infolines theme}
3482 {%
3483   \leavevmode%
3484   \hbox{%
3485     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3486     \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3487     \end{beamercolorbox}%
3488     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3489     \usebeamerfont{title in head/foot}\insertshorttitle
3490     \end{beamercolorbox}%
3491     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3492     \hfill%
3493     \usebeamerfont{date in head/foot}%
3494     \insertshortdate{}%
3495     \hfill%
3496     \bgroup
3497     \usebeamercolor[fg]{page number in head/foot}%
3498     \usebeamerfont{page number in head/foot}%
3499     \usebeamertemplate{page number in head/foot}%
3500     \egroup
3501     \end{beamercolorbox}}%
3502     \vskip0pt%
3503 }
3504
3505 \bidi@csundef{beamer@tmpop@headline@infolines theme}
3506
3507 \defbeamertemplate*{headline}{infolines theme}
3508 {%
3509   \leavevmode%
3510   \hbox{%
3511     \if@RTL
3512     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3513   \else
3514     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3515   \fi
3516     \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3517     \end{beamercolorbox}%

```




```

3518 \if@RTL
3519 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}
3520 \else
3521 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3522 \fi
3523 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3524 \end{beamercolorbox}}%
3525 \vskip0pt%
3526 }
3527
3528 \bidi@AfterFile{beamerouterthememetroplit-xetex-bidi.def}{%
3529 \setbeamertemplate{footline}[infolines theme]%
3530 }
3531

```

35 File beamerouterthememetropolis-xetex-bidi.def

```

3532 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3533 \setbeamertemplate{progress bar in head/foot}{
3534 \nointerlineskip
3535 \setlength{\metropolis@progressinheadfoot}{%
3536 \paperwidth * \ratio{\insertframenum pt}{\inserttotalframenum pt}}%
3537 }%
3538 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3539 \begin{tikzpicture}
3540 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3541 \if@RTLmain
3542 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3543 \else
3544 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3545 \fi
3546 \end{tikzpicture}}%
3547 \end{beamercolorbox}
3548 }
3549
3550 \AtBeginDocument{%
3551 \setbeamertemplate{frametitle}[plain]%
3552 }
3553
3554

```

36 File beamerouterthememiniframes-xetex-bidi.def

```

3555 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3556 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3557
3558 \defbeamertemplate*{headline}{miniframes theme}
3559 {%
3560 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3561 \end{beamercolorbox}
3562 \begin{beamercolorbox}{section in head/foot}
3563 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3564 \end{beamercolorbox}}%
3565 \ifbeamer@theme@subsection%

```



```

3566 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3567 \end{beamercolorbox}
3568 \if@RTL
3569 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3570 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/footer}
3571 \else
3572 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3573 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/footer}
3574 \fi
3575 \usebeamerfont{subsection in head/footer}\insertsubsectionhead
3576 \end{beamercolorbox}%
3577 \fi%
3578 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3579 \end{beamercolorbox}
3580 }
3581
3582

```

37 File beamerouterthemesidebar-xetex-bidi.def

```

3583 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3584 \bidi@csundef{beamer@tmpop@frametitle@sidebar theme}
3585
3586 \bidi@csundef{beamer@tmpop@headline@sidebar theme}
3587
3588 \bidi@csundef{beamer@tmpop@sidebar left@sidebar theme}
3589
3590 \bidi@csundef{beamer@tmpop@sidebar right@sidebar theme}
3591
3592 \ifdim\beamer@headheight>0pt
3593
3594 \defbeamertemplate*{frametitle}{sidebar theme}
3595 {%
3596 \nointerlineskip%
3597 \ifbeamer@plainframe%
3598 \hbox{\usebeamercolor[bg]{frametitle}%
3599 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3600 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\beame
3601 \nointerlineskip%
3602 \fi%
3603 \vskip-\beamer@headheight%
3604 \vbox to \beamer@headheight{%
3605 \vfil
3606 \bidi@beamer@leftskip=-\beamer@leftmargin%
3607 \advance\bidi@beamer@leftskip by0.3cm%
3608 \bidi@beamer@rightskip=-\beamer@rightmargin%
3609 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3610 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3611 \ifx\insertframesubtitle\@empty\else%
3612 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesu
3613 \fi%
3614 \vbox{}%
3615 \vskip-1em%
3616 \vfil

```



```

3617 }%
3618 }
3619
3620 \AtBeginDocument{%
3621 \setbeamertheme{frametitle}[sidebar theme]%
3622 }
3623
3624 \defbeamertheme*{headline}{sidebar theme}
3625 {%
3626 \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3627 \ifx\beamer@sidebarside\beamer@lefttext%
3628 \else%
3629 \hfill%
3630 \fi%
3631 \ifdim\beamer@sidebarwidth>0pt%
3632 \bgroup
3633 \usebeamercolor[bg]{logo}%
3634 \if@RTLmain
3635 \else
3636 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3637 \hskip-\beamer@sidebarwidth%
3638 \fi
3639 \hbox to \beamer@sidebarwidth{\hss\vbox to
3640 \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3641 \if@RTLmain
3642 \hskip-\beamer@sidebarwidth%
3643 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3644 \fi
3645 \egroup
3646 \else%
3647 \vrule width0pt height \beamer@headheight%
3648 \fi%
3649 \end{beamercolorbox}
3650 }
3651 \fi
3652
3653 \def\beamer@sidebarformat#1#2#3{%
3654 \if@RTL
3655 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#
3656 \else
3657 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#
3658 \fi
3659 \vbox{}%
3660 #3\par%
3661 \vbox{}%
3662 \vskip-1.5ex%
3663 \end{beamercolorbox}
3664 }
3665
3666 \ifdim\beamer@sidebarwidth>0pt
3667
3668 \AtBeginDocument{%
3669 \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3670 }

```



```

3671
3672 \defbeamertheme*{sidebar \beamer@sidebarside}{sidebar theme}
3673 {
3674   \beamer@tempdim=\beamer@sidebarwidth%
3675   \advance\beamer@tempdim by -6pt%
3676   {\usebeamerfont{title in sidebar}%
3677     \vskip1.5em%
3678     \hskip3pt%
3679     \bgroup
3680     \usebeamercolor[fg]{title in sidebar}%
3681     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3682     \vskip1.25em%
3683   }%
3684   {%
3685     \hskip3pt%
3686     \bgroup
3687     \usebeamercolor[fg]{author in sidebar}%
3688     \usebeamerfont{author in sidebar}%
3689     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3690     \vskip1.25em%
3691   }%
3692   \insertverticalnavigation{\beamer@sidebarwidth}%
3693   \vfill
3694   \ifx\beamer@sidebarside\beamer@lefttext%
3695     \else%
3696       \usebeamercolor{normal text}%
3697       \llap{\usebeamertheme***{navigation symbols}\hskip0.1cm}%
3698       \vskip2pt%
3699     \fi%
3700   }%
3701 \fi
3702

```

38 File beamerouterthemesplit-xetex-bidi.def

```

3703 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3704 \bidi@csundef{beamer@tmpop@footline@split theme}
3705
3706 \defbeamertheme*{footline}{split theme}
3707 {%
3708   \leavevmode%
3709   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3710 \else
3711 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3712 \fi
3713   \usebeamerfont{author in head/footer}\insertshortauthor
3714   \end{beamercolorbox}%
3715   \if@RTL
3716     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3717 \else
3718     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3719 \fi
3720   \usebeamerfont{title in head/footer}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3721   \end{beamercolorbox}}%

```



```

3722 \vskip0pt%
3723 }
3724
3725

```

39 File beamerouterthemeshadow-xetex-bidi.def

```

3726 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3727 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3728 color(0pt)=(frametitle right.bg);
3729 color(\paperwidth)=(frametitle.bg)
3730 }
3731
3732 \newcommand*{\bidi@beamer@frametitleshade}{%
3733 \if@RTLmain
3734 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3735 \else
3736 \pgfuses shading{beamer@frametitleshade}%
3737 \fi
3738 }
3739
3740 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3741
3742 \defbeamer template*{frametitle}{shadow theme}
3743 {%
3744 \nointerlineskip%
3745 \vskip-2pt%
3746 \hbox{\leavev mode
3747 \advance\beamer@leftmargin by -12bp%
3748 \advance\beamer@rightmargin by -12bp%
3749 \beamer@tempdim=\textwidth%
3750 \advance\beamer@tempdim by \beamer@leftmargin%
3751 \advance\beamer@tempdim by \beamer@rightmargin%
3752 \hskip-\Gm@lmargin\hbox{%
3753 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3754 \vbox{\vskip-.75ex%
3755 \bidi@beamer@leftskip0.3cm%
3756 \bidi@beamer@rightskip0.3cm plus1fil\leavev mode
3757 \bgroup\usebeamer color [fg]{frametitle}\usebeamer font{frametitle}\strut\insertframe
3758 \ifx\insertframesubtitle\@empty\else%
3759 {\usebeamer font*{framesubtitle}{\usebeamer color [fg]{framesubtitle}\insertframesu
3760 \fi%
3761 \nointerlineskip
3762 \vbox{}}%
3763 \end{minipage}}%
3764 \beamer@tempdim=\ht\beamer@tempbox%
3765 \advance\beamer@tempdim by 2pt%
3766 \begin{pgf picture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3767 \begin{pgf scope}
3768 \pgfset fill color{black}%
3769 \pgfpath rectangle{\pgf point{0pt}{-4pt}}{\pgf point{\paperwidth}{8pt}}%
3770 \pgfset fading{beamer@topshadowmask}{}%
3771 \pgfuse path{fill}%
3772 \end{pgf scope}

```



```

3773     \begin{pgfscope}
3774         \usebeamercolor{frametitle right}%
3775         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3776         \pgfusepath{clip}%
3777         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3778     \end{pgfscope}
3779 \end{pgfpicture}
3780 \hskip-\paperwidth%
3781 \box\beamer@tempbox%
3782 }%
3783 \hskip-\Gm@margin%
3784 }%
3785 \vskip-2pt
3786 }
3787
3788 \AtBeginDocument{%
3789   \setbeamertheme{frametitle}[shadow theme]%
3790 }
3791
3792

```

40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3793 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for]
3794 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
3795
3796 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
3797
3798 \defbeamertheme*{headline}{smoothbars theme}
3799 {%
3800   \pgfuseshading{beamer@barshade}%
3801   \vskip-0.05ex%
3802   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3803   \begin{pgfpicture}
3804     \begin{pgfscope}%
3805       \ifbeamer@sb@subsection%
3806         \pgfsetfillcolor{subsection in head/foot.bg}%
3807       \else%
3808         \pgfsetfillcolor{section in head/foot.bg}%
3809       \fi%
3810       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3811       \pgfsetfading{beamer@belowframetitlemask}{}%
3812       \pgfusepath{fill}%
3813     \end{pgfscope}%
3814   \end{pgfpicture}%
3815   \end{beamercolorbox}%
3816   \ifbeamer@sb@subsection%
3817     \vskip-9.75ex%
3818   \else%
3819     \vskip-6.85ex%
3820   \fi%
3821   \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3822     \insertnavigation{\paperwidth}
3823   \end{beamercolorbox}%

```



```

3824 \ifbeamer@sb@subsection%
3825 \if@RTL
3826   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3827     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3828   \else
3829   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3830     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3831   \fi
3832   \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3833   \end{beamercolorbox}%
3834 \fi%
3835 }%
3836
3837 \defbeamertemplate*{frametitle}{smoothbars theme}
3838 {%
3839   \nointerlineskip%
3840   \vskip-0.19ex%
3841   \usebeamerfont{headline}%
3842   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3843     \pgfuses shading{beamer@aboveframetitle}%
3844   \end{beamercolorbox}%
3845   \vskip-1ex%
3846   \nointerlineskip%
3847   \if@RTL
3848   \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3849   \else
3850   \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3851   \fi
3852     \vskip0.5ex%
3853     \usebeamerfont*{frametitle}\strut\insertframetitle%
3854     \ifx\insertframesubtitle\@empty%
3855       \strut\par%
3856     \else
3857       \par{\usebeamerfont*{framesubtitle}{\usebeamercolor{fg}{framesubtitle}\strut\insertf
3858     \fi%%
3859     \usebeamerfont{headline}%
3860     \vskip0.05ex%
3861   \end{beamercolorbox}%
3862   \nointerlineskip%
3863   \vskip-0.05ex%
3864   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3865   \begin{pgfpicture}
3866     \begin{pgfscope}%
3867       \pgfsetfillcolor{frametitle.bg}%
3868       \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3869       \pgfsetfading{beamer@belowframetitlemask}{}%
3870       \pgfusepath{fill}%
3871     \end{pgfscope}%
3872   \end{pgfpicture}%
3873   \end{beamercolorbox}%
3874 }
3875
3876 \AtBeginDocument{%
3877   \setbeamertemplate{frametitle}[smoothbars theme]%

```



```

3878 }
3879
3880

```

41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3881 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3882 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3883
3884 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3885
3886 \defbeamertemplate*{headline}{smoothtree theme}
3887 {%
3888   \pgfuseshading{beamer@treeshade}%
3889   \vskip-0.05ex%
3890   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3891   \begin{pgfpicture}
3892     \begin{pgfscope}%
3893       \pgfsetfillcolor{subsection in head/foot.bg}%
3894       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3895       \pgfsetfading{beamer@belowframetitlemask}{}%
3896       \pgfusepath{fill}%
3897     \end{pgfscope}%
3898   \end{pgfpicture}%
3899   \end{beamercolorbox}%
3900   \vskip-9.15ex%
3901   \if@RTL
3902     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3903       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3904     \else
3905     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3906       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3907     \fi
3908     \usebeamerfont{title in head/foot}\insertshorttitle
3909   \end{beamercolorbox}
3910   \if@RTL
3911     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3912       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3913     \else
3914     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3915       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3916     \fi
3917     \usebeamerfont{section in head/foot}%
3918     \hskip6pt\insertsectionhead
3919   \end{beamercolorbox}
3920   \if@RTL
3921     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3922       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3923     \else
3924     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3925       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3926     \fi
3927     \usebeamerfont{subsection in head/foot}%
3928     \hskip12pt\insertsubsectionhead

```




```

3929 \end{beamercolorbox}
3930 \vskip-0.4ex%
3931 }
3932
3933 \defbeamertemplate*{frametitle}{smoothtree theme}
3934 {%
3935 \nointerlineskip%
3936 \vskip-0.05ex%
3937 \usebeamerfont{headline}%
3938 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3939 \pgfuses shading{beamer@aboveframetitle}%
3940 \end{beamercolorbox}
3941 \nointerlineskip%
3942 \if@RTL
3943 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3944 \else
3945 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3946 \fi
3947 \vskip-1.2ex%
3948 \usebeamerfont*{frametitle}\strut\insertframetitle%
3949 \ifx\insertframesubtitle\@empty%
3950 \strut\par%
3951 \else
3952 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}
3953 \fi%%
3954 \usebeamerfont{headline}%
3955 \end{beamercolorbox}%
3956 \nointerlineskip
3957 \vskip-0.2ex%
3958 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3959 \begin{pgfpicture}
3960 \begin{pgfscope}%
3961 \pgfsetfillcolor{frametitle.bg}%
3962 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3963 \pgfsetfading{beamer@belowframetitlemask}{}%
3964 \pgfusepath{fill}%
3965 \end{pgfscope}%
3966 \end{pgfpicture}%
3967 \end{beamercolorbox}%
3968 }
3969
3970
3971 \AtBeginDocument{%
3972 \setbeamertemplate{frametitle}[smoothtree theme]%
3973 }
3974
3975

```

42 File beamerouterthemetree-xetex-bidi.def

```

3976 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3977 \bidi@csundef{beamer@tmpop@headline@tree theme}
3978
3979 \defbeamertemplate*{headline}{tree theme}

```



```

3980 {%
3981   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3982   \end{beamercolorbox}
3983   \if@RTL
3984   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3985     rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3986   \else
3987   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3988     leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3989   \fi
3990   \usebeamerfont{title in head/foot}\insertshorttitle
3991   \end{beamercolorbox}
3992   \if@RTL
3993   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3994     rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3995   \else
3996   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3997     leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3998   \fi
3999   \usebeamerfont{section in head/foot}%
4000   \ifbeamer@tree@showhooks
4001     \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
4002     \ifdim\wd\beamer@tempbox>1pt%
4003       \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.}
4004       \hskip1pt%
4005     \fi%
4006   \else%
4007     \hskip6pt%
4008   \fi%
4009   \insertsectionhead
4010   \end{beamercolorbox}
4011   \if@RTL
4012   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4013     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4014   \else
4015   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4016     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4017   \fi
4018   \usebeamerfont{subsection in head/foot}%
4019   \ifbeamer@tree@showhooks
4020     \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4021     \ifdim\wd\beamer@tempbox>1pt%
4022       \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height}
4023       \hskip1pt%
4024     \fi%
4025   \else%
4026     \hskip12pt%
4027   \fi%
4028   \insertsubsectionhead
4029   \end{beamercolorbox}
4030   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4031   \end{beamercolorbox}
4032 }
4033

```



4034

43 File beamerthemeHannover-xetex-bidi.def

```
4035 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4036 \AtBeginDocument{%
4037   \if@RTLmain
4038     \setbeamertemplate{frametitle}[default][left]%
4039   \else
4040     \setbeamertemplate{frametitle}[default][right]%
4041   \fi
4042 }
4043
4044
```

44 File beamerthemeSingapore-xetex-bidi.def

```
4045 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4046 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%
4047
4048 \beamertemplatedotitem
4049
4050 \AtBeginDocument{%
4051   \setbeamertemplate{frametitle}[default][center]%
4052 }
4053
4054
```

45 File bidi.sty

```
4055 \NeedsTeXFormat{LaTeX2e}
4056 \def\bididate{2025/01/07}
4057 \def\bidi@version{41.4}
4058 \def\bidi@releasename{Maryam Mirzakhani}
4059 \newcommand*{\bidireleasename}{\bidi@releasename}
4060 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space]
4061 Bidirectional typesetting in plain TeX and LaTeX
4062 \newif\if@bidi@banner
4063 \newif\if@bidi@pdfbanner
4064 \newif\iffootdir@debug
4065 \newif\if@extrafootnotefeatures
4066 \newif\if@nonlatin
4067 \newif\if@bidi@pdfm@mark
4068 \newif\if@bidi@perpage@footnote
4069 \ExplSyntaxOn
4070 \keys_define:nn { bidi }
4071 {
4072   banner .choice: ,
4073   banner / on .code:n = \@bidi@bannertrue ,
4074   banner / off .code:n = \@bidi@bannerfalse ,
4075   banner .default:n = on
4076 }
4077 \keys_define:nn { bidi }
4078 {
```



```

4079 PDFbanner .choice: ,
4080 PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4081 PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4082 PDFbanner .default:n = on
4083 }
4084 \keys_define:nn { bidi }
4085 {
4086 RTLdocument .choice: ,
4087 RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4088 RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4089 RTLdocument .default:n = on
4090 }
4091 \keys_define:nn { bidi }
4092 {
4093 rldocument .choice: ,
4094 rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4095 rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4096 rldocument .default:n = on
4097 }
4098 \keys_define:nn { bidi }
4099 {
4100 documentdirection .choice: ,
4101 documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4102 documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4103 }
4104 \keys_define:nn { bidi }
4105 {
4106 tabledirection .choice: ,
4107 tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4108 tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4109 }
4110 \keys_define:nn { bidi }
4111 {
4112 footnotedirection .choice: ,
4113 footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4114 footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4115 }
4116 \keys_define:nn { bidi }
4117 {
4118 debugfootnotedirection .choice: ,
4119 debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4120 debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4121 debugfootnotedirection .default:n = on
4122 }
4123 \keys_define:nn { bidi }
4124 {
4125 footnoterule .choice: ,
4126 footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4127 footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4128 footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4129 footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4130 footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4131 }
4132 \keys_define:nn { bidi }

```



```

4133 {
4134   extrafootnotefeatures .choice: ,
4135   extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4136   extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4137   extrafootnotefeatures .default:n = on
4138 }
4139 \keys_define:nn { bidi }
4140 {
4141   script .choice: ,
4142   script / latin .code:n = \@nonlatinfalse ,
4143   script / nonlatin .code:n = \@nonlatintrue ,
4144   script .default:n = latin
4145 }
4146 \keys_define:nn { bidi }
4147 {
4148   DetectColumn .choice: ,
4149   DetectColumn / on .code:n =
4150     \def\bidi@firstcolumn@status@write{%
4151       \protected@write\@auxout{%
4152         {\string\bidi@column@status
4153           {1}}}
4154     \def\bidi@lastcolumn@status@write{%
4155       \protected@write\@auxout{%
4156         {\string\bidi@column@status{2}}} ,
4157   DetectColumn / off .code:n =
4158     \let\bidi@firstcolumn@status@write\relax
4159     \let\bidi@lastcolumn@status@write\relax ,
4160   DetectColumn .default:n = on
4161 }
4162 \keys_define:nn { bidi }
4163 {
4164   logo .choice: ,
4165   logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo@}} ,
4166   logo / off .code:n = \let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty ,
4167   logo .default:n = on
4168 }
4169 \keys_define:nn { bidi }
4170 {
4171   pdfinfo .choice: ,
4172   pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4173   pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4174   pdfinfo .default:n = on
4175 }
4176 % The `perpagefootnote' option is documented in UK TeX FAQ at
4177 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4178 \keys_define:nn { bidi }
4179 {
4180   perpagefootnote .choice: ,
4181   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4182   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4183   perpagefootnote .default:n = on
4184 }
4185 \keys_set:nn { bidi }
4186 {

```



```

4187     banner = on ,
4188     PDFbanner = on ,
4189     DetectColumn = off
4190
4191 }
4192 \ExplSyntaxOff
4193 \ProcessKeyOptions
4194 \edef\@bidi@info{*****~J%
4195 * ~J%
4196 * bidi package (Bidirectional typesetting in~J%
4197 * plain TeX and LaTeX, using XeTeX engine)~J%
4198 * ~J%
4199 * Description: A convenient interface for~J%
4200 * typesetting bidirectional texts in plain TeX~J%
4201 * and LaTeX. The package includes adaptations~J%
4202 * for use with many other commonly-used packages.~J%
4203 * ~J%
4204 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4205 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
4206 * ~J%
4207 * v\bidi@version\space (Release \bidi@releasename), \bididate~J%
4208 * ~J%
4209 * License: LaTeX Project Public License, version~J%
4210 * 1.3c or higher (your choice)~J%
4211 * ~J%
4212 * Location on CTAN: /macros/xetex/latex/bidi~J%
4213 * ~J%
4214 * Issue tracker: https://github.com/xepersian/bidi/issues~J%
4215 * ~J%
4216 * Discussions: https://github.com/xepersian/bidi/discussions~J%
4217 * ~J%
4218 * Primary author of bidi package: Vafa Khalighi.~J%
4219 * ~J%
4220 *****}
4221 \edef\bidi@everyjob{\the\everyjob}
4222 \if@bidi@banner
4223   \typeout{\@bidi@info}
4224   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4225 \fi
4226 \newcommand*\bidi@version{\ensuremath\bidi@version}
4227 \newcommand*\IfbidiPackageVersionLater}[1]{%
4228   \ifdim\bidi@version pt > #1 pt %
4229     \expandafter\@firstoftwo
4230   \else
4231     \expandafter\@secondoftwo
4232   \fi}
4233 \newcommand*\IfbidiPackageVersionBefore}[1]{%
4234   \ifdim\bidi@version pt < #1 pt %
4235     \expandafter\@firstoftwo
4236   \else
4237     \expandafter\@secondoftwo
4238   \fi}
4239 \newcommand*\IfbidiPackageVersion}[1]{%
4240   \ifdim\bidi@version pt = #1 pt %

```



```

4241 \expandafter\@firstoftwo
4242 \else
4243 \expandafter\@secondoftwo
4244 \fi}
4245 \RequirePackage{iftex}
4246 \RequireXeTeX
4247 \RequirePackage{bidiutils}
4248 \RequirePackage{zref-abspage}
4249 \RequirePackage{auxhook}
4250 \RequirePackage{ltxcmds}
4251 \eqnewif{\if@RTLmain}{\if@rlmain}
4252 \eqnewif{\if@RTL}{\if@rl}
4253 \newcommand*\setlatin{\@nonlatinfalse}
4254 \newcommand*\setnonlatin{\@nonlatintrue}
4255 \eqnewif{\if@RTLtab}{\if@tab@rl}
4256 \newif\if@hboxRconstruct
4257 \newif\if@bidi@pdfencrypt
4258 \newcommand*\setRTLtable{\@RTLtabtrue}
4259 \newcommand*\setLTRtable{\@RTLtabfalse}
4260 \newif\if@RTLMarginpar
4261 \newif\if@LTRmarginpar
4262 \newif\if@LTRbibitems
4263 \newif\if@RTLbibitems
4264 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4265 \newif\if@bidi@list@minipage@parbox
4266 \newif\if@bidi@list@minipage@parbox@not@nob
4267 \newcommand*\@bidi@pdfcreator{%
4268 The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4269 }
4270 \newcommand*\@bidi@pdfproducer{%
4271 The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4272 }
4273 \newcommand*\@bidi@pdfcustomproperties{%
4274 This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4275 Released January 7, 2025.
4276 }
4277 \newcommand*\@bidi@beamer@ragged{}
4278 \@RTLmainfalse
4279 \AtBeginDocument{%
4280 \if@RTLmain\else
4281 \if@RTL\@RTLmaintrue%
4282 \else\@RTLmainfalse%
4283 \fi%
4284 \fi%
4285 }
4286 \let\n@xt=\
4287 \bidi@newrobustcmd*\LRE{\protect\pLRE}%
4288 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4289 \bidi@newrobustcmd*\RLE{\protect\pRLE}
4290 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4291 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4292 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4293 \newinsert\@bidi@copyins@
4294 \skip\@bidi@copyins@=12\p@

```



```

4295 \dimen\@bidi@copyins@=40pc
4296 \count\@bidi@copyins@=1000
4297 \newcommand*\@bidi@inslogo@\insert\@bidi@copyins@\@bidi@logo}}
4298 \newcommand*\@bidi@logo@hb@xt@columnwidth}{%
4299   \ifRTLmain
4300     \if@twocolumn
4301       \hboxR to \columnwidth
4302     \else
4303       \hboxR to \textwidth
4304     \fi
4305 \else
4306   \if@twocolumn
4307     \hboxL to \columnwidth
4308   \else
4309     \hboxL to \textwidth
4310   \fi
4311 \fi
4312 }
4313 \newcommand*\@bidi@logo}[1]{%
4314   \toks@{%
4315     \setbox\z@\hbox{%
4316       \special{%
4317         pdf:image width 50pt height 50pt (#1)%
4318       }
4319     }%
4320     \dp\z@\z@
4321     \ht\z@=50pt
4322     \wd\z@=50pt
4323     \beginL
4324     \lower20pt\box\z@
4325     \endL
4326   }%
4327   \the\toks@
4328 }
4329 \newcount\bidi@typesethour
4330 \newcount\bidi@typesetminute
4331 \bidi@typesethour=\time
4332 \divide\bidi@typesethour 60
4333 \bidi@typesetminute=-\bidi@typesethour
4334 \multiply\bidi@typesetminute 60
4335 \advance\bidi@typesetminute \time
4336 \newcommand*\TypesetHour{\two@digits\bidi@typesethour}
4337 \newcommand*\TypesetMinute{\two@digits\bidi@typesetminute}
4338 \newcommand*\TypesetTime{\TypesetHour:\TypesetMinute}
4339 \newcommand*\@bidi@logo@{%
4340   \@bidi@logo@hb@xt@columnwidth
4341   {\hss\LR{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4342     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4343 \ExplSyntaxOn
4344 \keys_define:nn { bidi / pdfencrypt }
4345 {
4346   userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4347   userpassword .default:n =
4348 }

```




```

4349 \keys_define:nn { bidi / pdfencrypt }
4350 {
4351   ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4352   ownerpassword .default:n =
4353 }
4354 \keys_define:nn { bidi / pdfencrypt }
4355 {
4356   keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4357   keylength .default:n = 128
4358 }
4359 \keys_define:nn { bidi / pdfencrypt }
4360 {
4361   permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4362   permissionflags .default:n = 2052
4363 }
4364 \NewDocumentCommand \pdfcryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4365 \ExplSyntaxOff
4366 \@onlypreamble\pdfcryptsetup
4367 \input{latex-xetex-bidi.def}
4368
4369 \pdfcryptsetup{%
4370   userpassword,%
4371   ownerpassword,%
4372   keylength,%
4373   permissionflags%
4374 }
4375
4376 \if@extrafootnotefeatures
4377   \input{extrafootnotefeatures-xetex-bidi.def}
4378 \fi
4379 \newcount\bidi@digits
4380 \XeTeXinterchartokenstate=\@ne
4381 \newXeTeXintercharclass\bidi@digits@charclass
4382 \newXeTeXintercharclass\bidi@sepmark@charclass
4383 \XeTeXcharclass \. \bidi@sepmark@charclass
4384 \XeTeXcharclass \- \bidi@sepmark@charclass
4385 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4386 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4387 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4388 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4389 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4390 \bidi@AtEndPreamble{%
4391   \if@bidi@perpage@footnote
4392     \RequirePackage{bidi-perpage}%
4393     \ResetCounterPerPage{footnote}%
4394   \fi
4395   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4396     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4397       \@bidi@pdfencryptfalse
4398     \else
4399       \@bidi@pdfencrypttrue
4400     \fi
4401   \else
4402     \@bidi@pdfencrypttrue

```



```

4403 \fi
4404 \if@bidi@pdfencrypt
4405   \special{pdf:encrypt
4406     userpw (\bidi@pdfencrypt@userpassword)
4407     ownerpw (\bidi@pdfencrypt@ownerpassword)
4408     length \bidi@pdfencrypt@keylength
4409     perm \bidi@pdfencrypt@permissionflags
4410   }%
4411 \fi
4412 }
4413 \if@bidi@pdfbanner
4414 \if@bidi@pdfm@mark
4415   \AtEndDocument{%
4416     \special{pdf:%
4417       docinfo<<%
4418         /Creator(\@bidi@pdfcreator)%
4419         /Producer(\@bidi@pdfproducer)%
4420         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4421         \if@bidi@csdef{@xepersian@pdfcustomproperties}{-%
4422           /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4423         }{}}%
4424       >>%
4425     }%
4426   }
4427 \else
4428   \AtEndDocument{%
4429     \special{pdf:%
4430       docinfo<<%
4431         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4432         \if@bidi@csdef{@xepersian@pdfcustomproperties}{-%
4433           /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4434         }{}}%
4435       >>%
4436     }%
4437   }
4438 \fi
4439 \else
4440 \if@bidi@pdfm@mark
4441   \AtEndDocument{%
4442     \special{pdf:%
4443       docinfo<<%
4444         /Creator(\@bidi@pdfcreator)%
4445         /Producer(\@bidi@pdfproducer)%
4446       >>%
4447     }%
4448   }
4449 \fi
4450 \fi

```

46 File bidi.tex

```

4451 \def\bidi@date{2025/01/07}
4452 \catcode\@=11
4453 \def\bidi@version{41.4}

```



```

4454 \def\bidi@releasename{Maryam Mirzakhani}
4455 \def\bidireleasename{\bidi@releasename}
4456 \let \protect \relax
4457 \newlinechar`\^^J
4458 \edef\@bidi@info{*****^^J%
4459 * ^^J%
4460 * bidi package (Bidirectional typesetting in^^J%
4461 * plain TeX and LaTeX, using XeTeX engine)^^J%
4462 * ^^J%
4463 * Description: A convenient interface for^^J%
4464 * typesetting bidirectional texts in plain TeX^^J%
4465 * and LaTeX. The package includes adaptations^^J%
4466 * for use with many other commonly-used packages.^^J%
4467 * ^^J%
4468 * Copyright (c) 2007--2025 Vafa Khalighi^^J%
4469 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4470 * ^^J%
4471 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4472 * ^^J%
4473 * License: LaTeX Project Public License, version^^J%
4474 * 1.3c or higher (your choice)^^J%
4475 * ^^J%
4476 * Location on CTAN: /macros/xetex/latex/bidi^^J%
4477 * ^^J%
4478 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4479 * ^^J%
4480 * Discussions: https://github.com/xepersian/bidi/discussions^^J%
4481 * ^^J%
4482 * Primary author of bidi package: Vafa Khalighi.^^J%
4483 * ^^J%
4484 *****}
4485 \edef\bidi@everyjob{\the\everyjob}
4486 \message{\@bidi@info}
4487 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4488 \def\bidi@version{%
4489 \relax
4490 \ifmode
4491 \bidi@version
4492 \else
4493 $\bidi@version$
4494 \fi
4495 }
4496 \input iftex.sty
4497 \RequireXeTeX
4498 \newif\if@bidi@pdfm@mark
4499 \newif\if@RTLmain
4500 \newif\if@RTL
4501 \newif\if@hboxRconstruct
4502 \newif\if@sendif
4503 \newif\if@RTL@footnote
4504 \@RTLmainfalse
4505 \def\setRTLmain{%
4506 \if@RTLmain\else
4507 \if@RTL\@RTLmaintrue%

```



```

4508 \else\@RTLmainfalse%
4509 \fi%
4510 \fi%
4511 }
4512 \let\n@xt=\
4513 \protected\def\LRE{\protect\pLRE}%
4514 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4515 \protected\def\RLE{\protect\pRLE}
4516 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4517 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4518 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4519 \newinsert\@bidi@copyins@
4520 \skip\@bidi@copyins@=12\p@
4521 \dimen\@bidi@copyins@=40pc
4522 \count\@bidi@copyins@=1000
4523 \def\@bidi@inslogo@{\insert\@bidi@copyins@\@bidi@logo@}
4524 \def\@bidi@logo@hb@xt@{%
4525 \ifRTLmain
4526 \hboxR to
4527 \else
4528 \hboxL to
4529 \fi
4530 }
4531 \def\@bidi@logo#1{%
4532 \toks@{%
4533 \setbox\z@\hbox{%
4534 \special{%
4535 pdf:image width 50pt height 50pt (#1)%
4536 }
4537 }%
4538 \dp\z@\z@
4539 \ht\z@=50pt
4540 \wd\z@=50pt
4541 \beginL
4542 \lower20pt\box\z@
4543 \endL
4544 }%
4545 \the\toks@
4546 }
4547 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4548 \newcount\bidi@typesethour
4549 \newcount\bidi@typesetminute
4550 \bidi@typesethour=\time
4551 \divide\bidi@typesethour 60
4552 \bidi@typesetminute=-\bidi@typesethour
4553 \multiply\bidi@typesetminute 60
4554 \advance\bidi@typesetminute \time
4555 \def\TypesetHour{\two@digits\bidi@typesethour}
4556 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4557 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4558 \def\@bidi@logo@\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4559 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4560 \def\@bidi@pdfcreator{%
4561 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate

```



```

4562 }
4563 \def\@bidi@pdfproducer{%
4564   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4565 }
4566 \def\@bidi@pdfcustomproperties{%
4567   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4568   Released January 7, 2025.
4569 }
4570 \def\@bidi@pdfmark{%
4571   \special{pdf:
4572     docinfo<<%
4573       \if\@bidi@pdfmark
4574         /Creator(\@bidi@pdfcreator)%
4575         /Producer(\@bidi@pdfproducer)%
4576       \fi
4577       /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4578     >>%
4579   }%
4580 }
4581 \def\@bidi@pdfinfoon{\@bidi@pdfmarktrue}
4582 \def\@bidi@pdfinfooff{\@bidi@pdfmarkfalse}
4583 \input plain-xetex-bidi.def
4584 \@bidi@inslogo@
4585 \outer\def\@bye{\par\vfill\supereject\@bidi@pdfmark\end}
4586 \catcode\@=12
4587 \@bidi@pdfinfoon

```

47 File bidi2in1.sty

```

4588 \NeedsTeXFormat{LaTeX2e}
4589 \ProvidesPackage{bidi2in1}
4590 \pagestyle{plain}
4591 \newcount\@evenpage
4592 \newcount\@oddpage
4593 \twocolumn
4594 \def\@oddfoot{\@evenpage=\@the\page%
4595 \multiply\@evenpage by 2%
4596 \@oddpage=\@the\@evenpage%
4597 \advance\@oddpage by -1%
4598 \hfil\@the\@evenpage\hfil\hfil\@the\@oddpage\hfil}%
4599 \def\@evenfoot{\@evenpage=\@the\page%
4600 \multiply\@evenpage by 2%
4601 \@oddpage=\@the\@evenpage%
4602 \advance\@oddpage by -1%
4603 \hfil\@the\@oddpage\hfil\hfil\@the\@evenpage\hfil}%
4604 \textwidth 9.49in
4605 \textheight 6.7in
4606 \columnsep 0.9in
4607 \columnseprule 0.125pt
4608 \headheight 0cm
4609 \topmargin 0in
4610 \marginparwidth 0in
4611 \marginparsep 0in
4612 \hoffset 0.05in % Corrected

```



```

4613 \voffset -0.5in %top margin space is 1.0in by default
4614 \oddsidemargin 0in
4615 \evensidemargin 0in
4616 \headsep 0cm
4617 \topskip 0cm
4618 \parskip 0.15in      %
4619 \headsep 0pt
4620 \special{papersize=11.69in,8.26in}
4621 \renewcommand\maketitle{\par
4622 \begingroup
4623 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4624 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4625 \long\def\@makefntext##1{\parindent 1em\noindent
4626 \hb@xt@1.8em{%
4627 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4628 \@maketitle
4629 \@thanks
4630 \endgroup
4631 \setcounter{footnote}{0}%
4632 \global\let\thanks\relax
4633 \global\let\maketitle\relax
4634 \global\let\@maketitle\relax
4635 \global\let\@thanks\@empty
4636 \global\let\@author\@empty
4637 \global\let\@date\@empty
4638 \global\let\@title\@empty
4639 \global\let\title\relax
4640 \global\let\author\relax
4641 \global\let\date\relax
4642 \global\let\and\relax
4643 }

```

48 File bidicode.sty

```

4644 \NeedsTeXFormat{LaTeX2e}
4645 \ProvidesPackage{bidicode}
4646 \RequirePackage{xcolor}
4647 \RequirePackage{showexpl}
4648 \definecolor{hellgelb}{rgb}{1,1,0.85}
4649 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4650 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4651 \definecolor{colIdentifier}{rgb}{0,0,0}
4652 \definecolor{colComments}{rgb}{1,0,0}
4653 \definecolor{colString}{rgb}{0,0.5,0}
4654 \lstset{%
4655     language=[LaTeX]TeX,%
4656     float=hbp,%
4657     basicstyle=\ttfamily\small,%
4658     identifierstyle=\color{colIdentifier},%
4659     keywordstyle=\color{colKeys},%
4660     texcsstyle=\color{colCS},%
4661     stringstyle=\color{colString},%
4662     commentstyle=\color{colComments},%
4663     backgroundcolor=\color{hellgelb},%

```



```

4664 columns=flexible,%
4665 tabsize=4,%
4666 extendedchars=true,%
4667 showspaces=false,%
4668 showstringspaces=false,%
4669 numbers=left,%
4670 numbersep=0.9em,%
4671 numberstyle=\tiny,%
4672 frame=single,%
4673 captionpos=b,%
4674 xleftmargin=1em,%
4675 breaklines=true,%
4676 breakautoindent=false,%
4677 breakindent=0pt,%
4678 escapeinside=**,%
4679 pos=r,%
4680 explpreset={%
4681   xleftmargin=1em,%
4682   columns=flexible,%
4683   language=[LaTeX]TeX%
4684 },%
4685 moretexcs={%
4686   bididate,%
4687   bidiversion,%
4688   deflatinfont,%
4689   defpersianfont,%
4690   ding,%
4691   endLTR,%
4692   endRTL,%
4693   false,%
4694   falsesymbol,%
4695   junicode,%
4696   lr,%
4697   LR,%
4698   LRE,%
4699   LTR,%
4700   maketitle,%
4701   Nastaliq,%
4702   newfontfamily,%
4703   Parsifont,%
4704   part,%
4705   RL,%
4706   RLE,%
4707   RTL,%
4708   RTLcases,%
4709   SepMark,%
4710   setLR,%
4711   setLTR,%
4712   setRL,%
4713   setRTL,%
4714   settextfont,%
4715   subsection,%
4716   subsubsection,%
4717   tableofcontents,%

```



```

4718     text,%
4719     theequation,%
4720     thesection,%
4721     true,%
4722     truesymbol,%
4723     XePersian,%
4724     xepersiandate,%
4725     xepersianversion%
4726   }%
4727 }
4728 \newcommand\HLON{%
4729   \gdef\lst@alloverstyle##1{%
4730     \fboxrule=Opt
4731     \fboxsep=Opt
4732     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4733   }}
4734 \newcommand\HLOFF{%
4735   \xdef\lst@alloverstyle##1{##1}%
4736 }
4737 \newcommand\Larg [1]{\normalfont\itshape#1\ /}
4738 \newcommand\Larga[1]{\langle$Larg{#1}\rangle$}
4739 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4740 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4741 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4742 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}
4743 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}
4744
4745 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4746 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4747 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`{}}
4748 \DeclareRobustCommand\lsb{\normalfont\ttfamily[]}
4749 \DeclareRobustCommand\rsb{\normalfont\ttfamily]}
4750 \DeclareRobustCommand\lrb{\normalfont\ttfamily()}
4751 \DeclareRobustCommand\rrb{\normalfont\ttfamily)}}
4752
4753 \def\Lcs#1{\nxLcs{#1}}
4754 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4755 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4756
4757 \def\Coordx#1{$x_{#1}$}
4758 \def\Coordy#1{$y_{#1}$}
4759 \def\Coordz#1{$z_{#1}$}
4760 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4761 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4762 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4763 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4764 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4765 \def\coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4766 \def\coordin{\Coordx{n},\kern 1pt\Coordy{n}}
4767 \def\coordi#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4768 \def\coordx#1{($x_{#1}$)}
4769 \def\coordy#1{($y_{#1}$)}
4770 \def\coordz#1{($z_{#1}$)}
4771 \def\cAny{\Coordx{},\kern 1pt\Coordy{}}

```




```

4772 \def\ciiAny{(\Coordx{ },\kern 1pt\Coordy{ },\kern 1pt\Coordz{ })}
4773
4774 \newsavebox{\boxdef}
4775 \newenvironment{BDef}
4776   {\begin{lrbox}\boxdef
4777     \def\arraystretch{1.0}
4778     \begin{tabular}{@{}l@{}l@{}l@{}}
4779   }
4780   {\end{tabular}\end{lrbox}
4781
4782   {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4783   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4784 }
4785
4786 \newenvironment{BDef*}
4787   {\begin{lrbox}\boxdef
4788     \def\arraystretch{1.0}
4789     \begin{tabular}{@{}l@{}l@{}l@{}}
4790   }
4791   {\end{tabular}\end{lrbox}
4792   {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
4793   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4794 }
4795 \newenvironment{BCmd}{
4796   \@beginparpenalty-\@lowpenalty
4797   \topsep\BDefaboveskip
4798   \fbboxsep3pt
4799   \flushleft}
4800 {\@endparpenalty\@M
4801  \topsepadd\BDefbelowskip
4802  \endflushleft}
4803
4804 \newenvironment{BCmd*}{
4805   \@beginparpenalty\@M
4806   \topsep\BDefinlineskip
4807   \fbboxsep3pt
4808   \flushleft}
4809 {\@endparpenalty5000
4810  \endflushleft}
4811
4812 \newskip\BDefaboveskip
4813 \newskip\BDefbelowskip
4814 \newskip\BDefinlineskip
4815 \setlength\BDefaboveskip{10pt plus 4pt}
4816 \setlength\BDefbelowskip{6pt}
4817 \setlength\BDefinlineskip{6pt}
4818
4819 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4820 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
4821 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4822 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

49 File bidiftnxtra.sty



```

4823 \NeedsTeXFormat{LaTeX2e}
4824 \ProvidesPackage{bidiftnxtra}
4825 \newtoks\bidip@ftn
4826 \let\FN@sf@@footnote\footnote
4827 \let\FN@sf@LTRfootnote\LTRfootnote
4828 \let\FN@sf@RTLfootnote\RTLfootnote
4829 \def\footnote{\ifx\protect\@typeset@protect
4830   \expandafter\FN@sf@@footnote
4831   \else
4832     \expandafter\FN@sf@gobble@opt
4833   \fi
4834 }
4835 \def\LTRfootnote{\ifx\protect\@typeset@protect
4836   \expandafter\FN@sf@LTRfootnote
4837   \else
4838     \expandafter\FN@sf@gobble@opt
4839   \fi
4840 }
4841 \def\RTLfootnote{\ifx\protect\@typeset@protect
4842   \expandafter\FN@sf@RTLfootnote
4843   \else
4844     \expandafter\FN@sf@gobble@opt
4845   \fi
4846 }
4847 \edef\FN@sf@gobble@opt{\noexpand\protect
4848   \expandafter\noexpand\csname FN@sf@gobble@opt \endcsname}
4849 \expandafter\def\csname FN@sf@gobble@opt \endcsname{%
4850   \@ifnextchar[%]
4851     \FN@sf@gobble@twobrace
4852     \@gobble
4853 }
4854 \def\FN@sf@gobble@twobrace[#1]#2{}
4855 \let\FN@sf@@footnotemark\footnotemark
4856 \def\footnotemark{\ifx\protect\@typeset@protect
4857   \expandafter\FN@sf@@footnotemark
4858   \else
4859     \expandafter\FN@sf@gobble@optonly
4860   \fi
4861 }
4862 \edef\FN@sf@gobble@optonly{\noexpand\protect
4863   \expandafter\noexpand\csname FN@sf@gobble@optonly \endcsname}
4864 \expandafter\def\csname FN@sf@gobble@optonly \endcsname{%
4865   \@ifnextchar[%]
4866     \FN@sf@gobble@bracket
4867     {}%
4868 }
4869 \def\FN@sf@gobble@bracket[#1]{}
4870 \def\@tabular{%
4871   \leavevmode \hbox \bgroup
4872   \let\@footnotetext\bidip@ftntext
4873   \let\@LTRfootnotetext\bidip@LTRftntext
4874   \let\@RTLfootnotetext\bidip@RTLftntext
4875   \let\@xfootnotenext\bidip@xftntext
4876   \let\@xfootnote\bidip@xfootnote

```



```

4877 \let\@xLTRfootnotenext\@xLTRftntext
4878 \let\@xLTRfootnote\@xLTRfootnote
4879 \let\@xRTLfootnotenext\@xRTLftntext
4880 \let\@xRTLfootnote\@xRTLfootnote
4881 \if@RTLtab\beginR \fi
4882 $\let\@acol\@tabacol
4883 \let\@classz\@tabclassz
4884 \let\@classiv\@tabclassiv \let\@tabularcr\@tabarray}
4885 \def\endtabular{\c@r\egroup\if@RTLtab\egroup\endR\egroup\fi
4886 \egroup $\if@RTLtab\endR\fi\egroup
4887 \ifx\@c@type\@undefined
4888 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
4889 \long\def\@bidi@p@ftntext#1{%
4890 \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\@csname c@\@mpfn\endcsname]}%
4891 \global\@bidi@p@ftn\expandafter{\@tempy{#1}}}%
4892 \long\def\@bidi@p@LTRftntext#1{%
4893 \edef\@tempyi{\the\@bidi@p@ftn\noexpand\LTRfootnotetext[\the\@csname c@\@mpfn\endcsname]}%
4894 \global\@bidi@p@ftn\expandafter{\@tempyi{#1}}}%
4895 \long\def\@bidi@p@RTLftntext#1{%
4896 \edef\@tempyii{\the\@bidi@p@ftn\noexpand\RTLfootnotetext[\the\@csname c@\@mpfn\endcsname]}%
4897 \global\@bidi@p@ftn\expandafter{\@tempyii{#1}}}%
4898
4899
4900 \long\def\@bidi@p@xftntext[#1]#2{%
4901 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\footnotetext[#1]{#2}}}
4902
4903 \long\def\@bidi@p@xLTRftntext[#1]#2{%
4904 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\LTRfootnotetext[#1]{#2}}}
4905
4906 \long\def\@bidi@p@xRTLftntext[#1]#2{%
4907 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\RTLfootnotetext[#1]{#2}}}
4908
4909
4910 \def\@bidi@p@xfootnote[#1]{%
4911 \begingroup
4912 \csname c@\@mpfn\endcsname #1\relax
4913 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4914 \endgroup
4915 \@footnotemark\@bidi@p@xftntext[#1]}
4916
4917
4918 \def\@bidi@p@xLTRfootnote[#1]{%
4919 \begingroup
4920 \csname c@\@mpfn\endcsname #1\relax
4921 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4922 \endgroup
4923 \@footnotemark\@bidi@p@xLTRftntext[#1]}
4924
4925
4926 \def\@bidi@p@xRTLfootnote[#1]{%
4927 \begingroup
4928 \csname c@\@mpfn\endcsname #1\relax
4929 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4930 \endgroup

```



```

4931 \@footnotemark\bidi@p@xRTLftntext[#1]}
4932
4933 \def\xfloat #1[#2]{%
4934 \@nodocument
4935 \def \@capytype {#1}%
4936 \def \@fps {#2}%
4937 \@onelevel@sanitize \@fps
4938 \def \reserved@b {!}%
4939 \ifx \reserved@b \@fps
4940 \@fpsaddefault
4941 \else
4942 \ifx \@fps \@empty
4943 \@fpsaddefault
4944 \fi
4945 \fi
4946 \ifhmode
4947 \@bsphack
4948 \@floatpenalty -\@Mii
4949 \else
4950 \@floatpenalty-\@Miii
4951 \fi
4952 \ifinner
4953 \@parmoderr\@floatpenalty\z@
4954 \else
4955 \@next\@currbox\@freelist
4956 {%
4957 \@tempcnta \sixt@n
4958 \expandafter \@tfor \expandafter \reserved@a
4959 \expandafter :\expandafter =\@fps
4960 \do
4961 {%
4962 \if \reserved@a h%
4963 \ifodd \@tempcnta
4964 \else
4965 \advance \@tempcnta \@ne
4966 \fi
4967 \fi
4968 \if \reserved@a t%
4969 \@setfpsbit \tw@
4970 \fi
4971 \if \reserved@a b%
4972 \@setfpsbit 4%
4973 \fi
4974 \if \reserved@a p%
4975 \@setfpsbit 8%
4976 \fi
4977 \if \reserved@a !%
4978 \ifnum \@tempcnta>15
4979 \advance\@tempcnta -\sixt@n\relax
4980 \fi
4981 \fi
4982 }%
4983 \@tempcntb \csname ftype@\@capytype \endcsname
4984 \multiply \@tempcntb \@xxxii

```



```

4985     \advance \@tempcnta \@tempcntb
4986     \global \count\@currbox \@tempcnta
4987     }%
4988     \@fltovf
4989     \fi
4990     \global \setbox\@currbox
4991     \color@vbox
4992     \normalcolor
4993     \vbox \bgroup
4994     \let\@footnotetext\@bidi@p@ftntext
4995     \let\@LTRfootnotetext\@bidi@p@LTRftntext
4996     \let\@RTLfootnotetext\@bidi@p@RTLftntext
4997     \let\@xfootnotenext\@bidi@p@xftntext
4998     \let\@xfootnote\@bidi@p@xfootnote
4999     \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
5000     \let\@xLTRfootnote\@bidi@p@xLTRfootnote
5001     \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
5002     \let\@xRTLfootnote\@bidi@p@xRTLfootnote
5003     \hsize\columnwidth
5004     \@parboxrestore
5005     \@floatboxreset
5006 }
5007 \def \@endfloatbox{%
5008     \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
5009     \@minipagefalse
5010     \outer@nobreak
5011     \egroup                %% end of vbox
5012     \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn
5013     \color@endbox
5014 }

```

50 File bidimoderncv.cls

```

5015 \NeedsTeXFormat{LaTeX2e}
5016 \ProvidesClass{bidimoderncv}
5017 \newif\if@DEBUG\@DEBUGfalse
5018 \DeclareOption{a4paper}{
5019     \setlength\paperheight{297mm}
5020     \setlength\paperwidth{210mm}}
5021 \DeclareOption{a5paper}{
5022     \setlength\paperheight{210mm}
5023     \setlength\paperwidth{148mm}}
5024 \DeclareOption{b5paper}{
5025     \setlength\paperheight{250mm}
5026     \setlength\paperwidth{176mm}}
5027 \DeclareOption{letterpaper}{
5028     \setlength\paperheight{11in}
5029     \setlength\paperwidth{8.5in}}
5030 \DeclareOption{legalpaper}{
5031     \setlength\paperheight{14in}
5032     \setlength\paperwidth{8.5in}}
5033 \DeclareOption{executivepaper}{
5034     \setlength\paperheight{10.5in}
5035     \setlength\paperwidth{7.25in}}

```



```

5036 \DeclareOption{landscape}{
5037   \setlength\@tempdima{\paperheight}
5038   \setlength\paperheight{\paperwidth}
5039   \setlength\paperwidth{\@tempdima}
5040 \newcommand\@ptsize{}
5041 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5042 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5043 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5044 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5045 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5046 \newif\if@colour\@colourtrue
5047 \DeclareOption{nocolour}{\@colourfalse}
5048 \ExecuteOptions{a4paper,11pt,colour,final}
5049 \ProcessOptions\relax
5050 \input{size1\@ptsize.clo}
5051 \RequirePackage{color}
5052 \RequirePackage{graphicx}
5053 \RequirePackage{ifthen}
5054 \RequirePackage{marvosym}
5055 \addtolength{\oddsidemargin}{-54pt}
5056 \addtolength{\textwidth}{109pt}
5057 \addtolength{\topmargin}{-70pt}
5058 \addtolength{\textheight}{122pt}
5059 \addtolength{\marginparsep}{-5pt}
5060 \addtolength{\marginparwidth}{-10pt}
5061 \RequirePackage{url}
5062 \RequirePackage{hyperref}
5063 \hypersetup{%
5064   breaklinks,
5065   baseurl      = http://,%
5066   pdfborder    = 0 0 0,%
5067   pdfpagemode  = UseNone,%
5068   pdfstartpage = 1}
5069 \AtEndOfClass{%
5070   \AtBeginDocument{%
5071     \hypersetup{%
5072       pdfauthor    = \@firstname~\@familyname,%
5073       pdftitle     = \@title,%
5074       pdfsubject   = \@firstname~\@familyname,%
5075       pdfkeywords  = \@resumename~\@firstname~\@familyname}}}}
5076 \urlstyle{tt}
5077 \RequirePackage{fancyhdr}
5078 \fancypagestyle{plain}{%
5079   \renewcommand{\headrulewidth}{0pt}
5080   \renewcommand{\footrulewidth}{0pt}
5081   \fancyhf{}}
5082 \pagestyle{plain}
5083 \setlength\lineskip{1\p@}
5084 \setlength\normallineskip{1\p@}
5085 \renewcommand\baselinestretch{}
5086 \setlength{\parindent}{0pt}
5087 \setlength{\parskip}{0pt}
5088 \setlength\columnsep{10\p@}
5089 \setlength\columnseprule{0\p@}

```



```

5090 \pagestyle{empty}
5091 \pagenumbering{arabic}
5092 \raggedbottom
5093 \onecolumn
5094 \providecommand*\listitemsymbol{\textbullet}
5095 \providecommand*\addresssymbol{}
5096 \providecommand*\mobilesymbol{\Mobilefone}
5097 \providecommand*\phonesymbol{\Telefon}
5098 \providecommand*\faxsymbol{\FAX}
5099 \providecommand*\emailsymbol{\Letter}
5100 \definecolor{firstnamecolor}{rgb}{0,0,0}
5101 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5102 \def\familynamcolour#1{\gdef\@familynamcolour{\addfontfeature{Color=#1}}}
5103 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5104 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5105 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5106 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5107 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5108 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5109 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5110 \providecommand*\firstnamefont{}
5111 \providecommand*\familynamefont{}
5112 \providecommand*\titlefont{}
5113 \providecommand*\addressfont{}
5114 \providecommand*\quotefont{}
5115 \providecommand*\sectionfont{}
5116 \providecommand*\subsectionfont{}
5117 \providecommand*\hintfont{\small}
5118 \providecommand*\firstnamestyle[1]{\{\@firstnamefont\@firstnamecolour#1}}
5119 \providecommand*\familynamestyle[1]{\{\@familynamefont\@familynamcolour#1}}
5120 \providecommand*\titlestyle[1]{\{\@titlefont\@titlecolour#1}}
5121 \providecommand*\addresstyle[1]{\{\@addressfont\@addresscolour#1}}
5122 \providecommand*\quotestyle[1]{\{\@quotefont\@quotecolour#1}}
5123 \providecommand*\sectionstyle[1]{\{\@sectionfont\@sectiontitlecolour#1}}
5124 \providecommand*\subsectionstyle[1]{\{\@subsectionfont\@subsectioncolour#1}}
5125 \providecommand*\hintstyle[1]{\{\@hintfont\@hintcolour#1}}
5126 \newcommand*{cvtheme}[2]{}
5127 \def\@cvtheme{#2}
5128 \def\@cvthemeoptions{#1}
5129 \cvtheme{bidi-casual}
5130 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5131 \newcommand*\resumename[1]{\def\@resumename{#1}}
5132 \newcommand*\firstname[1]{\def\@firstname{#1}}
5133 \newcommand*\familyname[1]{\def\@familyname{#1}}
5134 \renewcommand*\title[1]{\def\@title{#1}}
5135 \newcommand*\address[1]{\def\@address{#1}}
5136 \newcommand*\mobile[1]{\def\@mobile{#1}}
5137 \newcommand*\phone[1]{\def\@phone{#1}}
5138 \renewcommand*\fax[1]{\def\@fax{#1}}
5139 \newcommand*\email[1]{\def\@email{#1}}
5140 \newcommand*\extrainfo[1]{\def\@extrainfo{#1}}
5141 \def\@photowidth{0pt}
5142 \newcommand*\photo[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5143 \newcommand*\quote[1]{\def\@quote{#1}}

```



```

5144 \newlength{\quotewidth}
5145 \newlength{\hintscolumnwidth}
5146 \newlength{\separatorcolumnwidth}
5147 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5148 \newlength{\maincolumnwidth}
5149 \newlength{\doubleitemmaincolumnwidth}
5150 \newlength{\listitemsymbolwidth}
5151 \settoheight{\listitemsymbolwidth}{\listitemsymbol{}}~}
5152 \newlength{\listitemmaincolumnwidth}
5153 \newlength{\listdoubleitemmaincolumnwidth}
5154 \newcommand*\recomputethemelengths{}
5155 \newcommand*\recomputelengths{%
5156 \setlength{\quotewidth}{0.65\textwidth}%
5157 \setlength{\maincolumnwidth}{\textwidth}%
5158 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5159 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5160 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5161 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5162 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5163 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5164 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5165 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5166 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5167 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5168 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5169 \renewcommand{\headwidth}{\textwidth}%
5170 \recomputethemelengths}
5171 \setlength{\hintscolumnwidth}{0.15\textwidth}
5172 \recomputelengths
5173 \title{}
5174 \renewcommand*\maketitle{}
5175 \newcommand*\section}[1]{%
5176 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5177 \phantomsection}%
5178 \addcontentsline{toc}{part}{#1}%
5179 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5180 \hspace{\separatorcolumnwidth}%
5181 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\[\[1ex]}
5182 \newcommand*\subsection}[1]{%
5183 \cvline[0.45em]{\subsectionstyle{#1}}
5184 \newcommand*\cvline}[3][.25em]{%
5185 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5186 \bidi@raggedleft\hintfont{#2} &{#3}%
5187 \end{tabular}\[\[#1]}
5188 \newcommand*\cvdoubleitem}[4]{%
5189 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5190 \hfill%
5191 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\
5192 \newcommand*\cvlistitem}[2][\listitemsymbol]{%
5193 \cvline[0pt]{\#1-\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5194 \newcommand*\cvlistdoubleitem}[3][\listitemsymbol]{%
5195 \cvline[0pt]{\#1-\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5196 \hfill%
5197 \ifthenelse{\equal{#3}{}}%

```




```

5198   {}%
5199   {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
5200 \newcommand*\cventry}[6]{%
5201   \cvline{#1}{%
5202     {\bfseries#2}%
5203     \ifx#3\else{, {\slshape#3}}\fi%
5204     \ifx#4\else{, #4}\fi%
5205     \ifx#5\else{, #5}\fi%
5206     .%
5207     \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5208   }%
5209 \newcommand*\cvlanguage}[3]{%
5210   \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}\small#3\end{minipage}}
5211 \newcommand*\cvcomputer}[4]{%
5212   \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5213 \newcommand*\link}[2][ ]{%
5214   \ifthenelse{\equal{#1}{}}{%
5215     {\href{#2}{#2}}%
5216     {\href{#2}{#1}}}
5217 \newcommand*\httplink}[2][ ]{%
5218   \ifthenelse{\equal{#1}{}}{%
5219     {\href{http://#2}{#2}}%
5220     {\href{http://#2}{#1}}}
5221 \newcommand*\emailink}[2][ ]{%
5222   \ifthenelse{\equal{#1}{}}{%
5223     {\href{mailto:#2}{#2}}%
5224     {\href{mailto:#2}{#1}}}
5225 \newif\if@displaypagenumbers\@displaypagenumberstrue
5226 \newcommand*\nopagenumbers{\@displaypagenumbersfalse}
5227 \AtBeginDocument{%
5228   \if@displaypagenumbers%
5229     \@ifundefined{r@lastpage}{}{%
5230       \ifthenelse{\pageref{lastpage} > 1}{%
5231         \fancypagestyle{plain}{%
5232           \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pageref{lastpage}}%
5233         \pagestyle{plain}}}%
5234   \AtEndDocument{\label{lastpage}}%
5235   \fi}
5236 \newlength{\bibindent}
5237 \setlength{\bibindent}{1.5em}
5238 \newcommand*\bibliographyitemlabel{\includegraphics{bidi-bibitem.pdf}}
5239 \newenvironment{thebibliography}[1]{%
5240   {%
5241     \section{\refname}%
5242     \small%
5243     \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
5244     \bidi@thebibliography@font@hook%
5245     \begin{list}{\bibliographyitemlabel}%
5246       {%
5247         \setlength{\topsep}{0pt}%
5248         \setlength{\labelwidth}{\hintscolumnwidth}%
5249         \setlength{\labelsep}{\separatorcolumnwidth}%
5250         \leftmargin\labelwidth%
5251         \advance\leftmargin\labelsep%

```



```

5252     \@openbib@code%
5253     \usecounter{enumiv}%
5254     \let\p@enumiv\@empty%
5255     \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5256     \sloppy\clubpenalty4000\widowpenalty4000%
5257 }%
5258 {%
5259     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5260     \end{list}%
5261 }
5262 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5263 \let\@openbib@code\@empty

```

51 File bidi-perpage.sty

```

5264 \NeedsTeXFormat{LaTeX2e}
5265 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5266 \newcount\bidi@page@count
5267 \bidi@page@count\@ne
5268 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5269   \if@bidi@csundef\bidi@stepcounterhook@@#2}{%
5270     \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{%
5271   }}%
5272   \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5273     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5274   }}%
5275   \if@bidi@csundef\bidi@#2@count}{%
5276     \expandafter\newcount\csname bidi@#2@count\endcsname
5277   }}%
5278   \csname bidi@#2@count\endcsname\z@
5279   \if@bidi@csundef\bidi@previous@page@@#2@count}{%
5280     \expandafter\newcount\csname
5281     bidi@previous@page@@#2@count\endcsname
5282   }}%
5283   \csname bidi@previous@page@@#2@count\endcsname\z@
5284   \if@bidi@csundef\bidi@reset@#2@perpage}{%
5285     \bidi@AfterEndDocumentCheckLabelsRerun{%
5286       \csname if@bidi@reset@#2@rerun\endcsname
5287       \PackageWarningNoLine{bidi-perpage}{%
5288         Counter `#2' may not have been reset per page.
5289         Rerun to reset counter `#2' per page%
5290       }}%
5291     \fi
5292   }}%
5293 }{}%
5294 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5295   \global\advance\csname bidi@#2@count\endcsname\@ne
5296   \if@files@w
5297     \edef\@tempa{%
5298       \write\@auxout{%
5299         \string\bidi@counter@page{#2}%
5300         {\number\csname bidi@#2@count\endcsname}%
5301         {\noexpand\number\noexpand\bidi@page@count}%
5302       }}%

```



```

5303     }%
5304     \@tempa
5305     \fi
5306     \begingroup\expandafter\expandafter\expandafter\endgroup
5307     \expandafter\ifx\csname bidi@#2@@\number\csname
5308     bidi@#2@count\endcsname\endcsname\relax
5309     \global\csname @bidi@reset@#2@reruntrue\endcsname
5310     \else
5311     \global\csname @bidi@reset@#2@rerunfalse\endcsname
5312     \expandafter\@tempcnta\csname bidi@#2@@\number
5313     \csname bidi@#2@count\endcsname\endcsname\relax
5314     \ifnum\@tempcnta=\csname
5315     bidi@previous@page@#2@count\endcsname
5316     \else
5317     \global\csname
5318     bidi@previous@page@#2@count\endcsname\@tempcnta
5319     \global\csname c@#2\endcsname#1\relax
5320     \fi
5321     \fi
5322     }%
5323     \expandafter\bidi@gappto\csname
5324     bidi@stepcounterhook@#2\endcsname{%
5325     \csname bidi@reset@#2@perpage\endcsname
5326     }%
5327     }
5328     \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@#2-#3}
5329     \bidi@AtEndOutputPage{%
5330     \global\advance\bidi@page@count\@ne
5331     }

```

52 File biditools.sty

```

5332 \NeedsTeXFormat{LaTeX2e}
5333 \ProvidesPackage{biditools}[2025/01/03 v2.6 Programming tools for bidi package]
5334 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\\\relax
5335     \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5336     \ifx\@tempa\@tempb \global\let#2#1%
5337     \else
5338     \edef\@tempb{\meaning#2}%
5339     \ifx\@tempa\@tempb
5340     \else
5341     \@latex@error{Unable to properly define \string#2; primitive
5342     \noexpand#1no longer primitive}\@eha
5343     \fi
5344     \fi
5345     \endgroup}
5346 \newtoks\@bidi@envbody
5347 \newtoks\@bidi@emptytoks
5348 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5349 \def\bidi@collect@body#1{%
5350     \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5351     \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
5352     \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5353     \begingroup

```



```

5354 \expandafter\let\csname\@currentenv\endcsname\@bidi@collect@@body
5355 \edef\@bidi@process@envbody{\expandafter\noexpand\csname\@currentenv\endcsname}%
5356 \bidi@process@envbody
5357 }
5358 \def\@bidi@push@begins#1\begin#2{%
5359 \ifx\end#2\else b\expandafter\@bidi@push@begins\fi
5360 }
5361 \def\@bidi@collect@@body#1\end#2{%
5362 \edef\@begin@bidi@stack{\@bidi@push@begins#1\begin\end \expandafter\@gobble\@begin@bidi@stack
5363 \ifx\@empty\@begin@bidi@stack
5364 \endgroup
5365 \@checkend{#2}%
5366 \bidi@addto@envbody{#1}%
5367 \else
5368 \bidi@addto@envbody{#1\end{#2}}%
5369 \fi
5370 \bidi@process@envbody % A little tricky! Note the grouping
5371 }
5372 \long\def\@bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5373 \long\def\@bidi@collect@long@body#1{%
5374 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5375 \edef\@bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentenv}}%
5376 \@bidi@envbody\@bidi@emptytoks \def\@begin@bidi@stack{b}%
5377 \begin@group
5378 \expandafter\let\csname\@currentenv\endcsname\@bidi@collect@long@@body
5379 \edef\@bidi@process@envbody{\expandafter\noexpand\csname\@currentenv\endcsname}%
5380 \bidi@process@envbody
5381 }
5382 \long\def\@bidi@push@long@begins#1\begin#2{%
5383 \ifx\end#2\else b\expandafter\@bidi@push@long@begins\fi
5384 }
5385 \long\def\@bidi@collect@long@@body#1\end#2{%
5386 \edef\@begin@bidi@stack{\@bidi@push@long@begins#1\begin\end \expandafter\@gobble\@begin@bidi@stack
5387 \ifx\@empty\@begin@bidi@stack
5388 \endgroup
5389 \@checkend{#2}%
5390 \bidi@addto@long@envbody{#1}%
5391 \else
5392 \bidi@addto@long@envbody{#1\end{#2}}%
5393 \fi
5394 \bidi@process@envbody % A little tricky! Note the grouping
5395 }
5396 \long\def\@bidi@new@ifnextchar#1#2#3{%
5397 \let\reserved@d= #1%
5398 \def\reserved@a{#2}\def\reserved@b{#3}%
5399 \futurelet\@let@token\@bidi@new@ifnch
5400 }
5401 \def\@bidi@new@ifnch{%
5402 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5403 \reserved@b
5404 }
5405 \def\@bidi@matrix@check#1{%
5406 \expandafter\ifx\csname\@currentenv\endcsname#1%
5407 \else\@bidi@matrix@error#1%

```



```

5408   \expandafter\@gobble
5409   \fi
5410 }
5411 \def\bidi@matrix@error#1{%
5412   \PackageError{biditools}{%
5413 Old form `string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5414   }{%
5415   `string#1{...}' is old bidi package syntax whose use is
5416 ill-advised in the old versions of bidi package.%
5417   }%
5418 }
5419 \def\eqnewif#1#2{%
5420   \count@\escapechar \escapechar\m@ne
5421   \let#1\iffalse
5422   \let#2\iffalse
5423   \eq@if#1#2\iftrue
5424   \eq@if#1#2\iffalse
5425   \escapechar\count@}
5426 \def\eq@if#1#2#3{%
5427   \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5428     \expandafter\@gobbletwo\string#3\endcsname
5429     {\let#1#3%
5430     \let#2#3}%
5431   \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5432     \expandafter\@gobbletwo\string#3\endcsname
5433     {\let#2#3%
5434     \let#1#3}}
5435 \def\noteqnewif#1#2{%
5436   \count@\escapechar \escapechar\m@ne
5437   \let#1\iffalse
5438   \let#2\iffalse
5439   \not@eq@if#1#2\iftrue\iffalse
5440   \escapechar\count@}
5441 \def\not@eq@if#1#2#3#4{%
5442   \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5443     \expandafter\@gobbletwo\string#3\endcsname
5444     {\let#1#3%
5445     \let#2#4}%
5446   \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5447     \expandafter\@gobbletwo\string#4\endcsname
5448     {\let#1#4%
5449     \let#2#3}%
5450   \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5451     \expandafter\@gobbletwo\string#3\endcsname
5452     {\let#2#3%
5453     \let#1#4}%
5454   \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5455     \expandafter\@gobbletwo\string#4\endcsname
5456     {\let#2#4%
5457     \let#1#3}}
5458 \newcommand*{\SetBoolean}[2]{%
5459   \lowercase{\def\@tempa{#2}}%
5460   \@ifundefined{\@tempswa\@tempa}%
5461   {\PackageError{biditools}{%

```



```

5462     {You can only set a boolean to `true' or `false'}\@ehc}%
5463     {\@ifundefined{#1\@tempa}%
5464     {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5465     {\csname#1\@tempa\endcsname}}}
5466 \newcommand*\GlobalSetBoolean}[2]{%
5467 \lowercase{\def\@tempa{#2}}%
5468 \@ifundefined{@tempswa\@tempa}%
5469 {\PackageError{biditytools}%
5470 {You can only set a boolean to `true' or `false'}\@ehc}%
5471 {\@ifundefined{#1\@tempa}%
5472 {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5473 {\global\csname#1\@tempa\endcsname}}}
5474 \newcommand*\SetatBoolean}[2]{%
5475 \lowercase{\def\@tempa{#2}}%
5476 \@ifundefined{@tempswa\@tempa}%
5477 {\PackageError{biditytools}%
5478 {You can only set a boolean to `true' or `false'}\@ehc}%
5479 {\@ifundefined{@#1\@tempa}%
5480 {\PackageError{biditytools}{Boolean @#1 undefined}\@ehc}%
5481 {\csname @#1\@tempa\endcsname}}}
5482 \newcommand*\GlobalSetatBoolean}[2]{%
5483 \lowercase{\def\@tempa{#2}}%
5484 \@ifundefined{@tempswa\@tempa}%
5485 {\PackageError{biditytools}%
5486 {You can only set a boolean to `true' or `false'}\@ehc}%
5487 {\@ifundefined{@#1\@tempa}%
5488 {\PackageError{biditytools}{Boolean @#1 undefined}\@ehc}%
5489 {\global\csname @#1\@tempa\endcsname}}}
5490 \def\@bidi@removefromreset#1#2{%
5491 \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5492 \def\@elt##1{%
5493 \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5494 \else
5495 \noexpand\@elt{##1}%
5496 \fi}%
5497 \expandafter\xdef\csname c1@#2\endcsname{%
5498 \csname c1@#2\endcsname}}}
5499 \newcommand*\ifRtoL{%
5500 \if@RTL
5501 \expandafter\@firstoftwo
5502 \else
5503 \expandafter\@secondoftwo
5504 \fi}
5505 \newcommand*\ifLtoR{%
5506 \if@RTL
5507 \expandafter\@secondoftwo
5508 \else
5509 \expandafter\@firstoftwo
5510 \fi}
5511 \newcommand*\ifRtoLtable{%
5512 \if@RTLtab
5513 \expandafter\@firstoftwo
5514 \else
5515 \expandafter\@secondoftwo

```



```

5516 \fi}
5517 \newcommand*{\ifLtoRtable}{%
5518 \if@RTLtab
5519 \expandafter\@secondoftwo
5520 \else
5521 \expandafter\@firstoftwo
5522 \fi}
5523 \newcommand*{\ifRtoLhboxconstruct}{%
5524 \if@hboxRconstruct
5525 \expandafter\@firstoftwo
5526 \else
5527 \expandafter\@secondoftwo
5528 \fi}
5529 \newcommand*{\ifLtoRhboxconstruct}{%
5530 \if@hboxRconstruct
5531 \expandafter\@secondoftwo
5532 \else
5533 \expandafter\@firstoftwo
5534 \fi}
5535 \newcommand*{\iflatin}{%
5536 \if@nonlatin
5537 \expandafter\@secondoftwo
5538 \else
5539 \expandafter\@firstoftwo
5540 \fi}
5541 \newcommand*{\ifnonlatin}{%
5542 \if@nonlatin
5543 \expandafter\@firstoftwo
5544 \else
5545 \expandafter\@secondoftwo
5546 \fi}
5547
5548 \newcommand*{\bidi@convert@dimen@t@unit}[2]{%
5549 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5550
5551 \newcommand*{\bidi@convert@dimen@t@pt}[1]{%
5552 \dimexpr #1*65536/\dimexpr 1pt\relax}
5553
5554 \newcommand*{\if@bidi@csdef}[1]{%
5555 \ifcsname#1\endcsname
5556 \expandafter\@firstoftwo
5557 \else
5558 \expandafter\@secondoftwo
5559 \fi}
5560 \newcommand*{\if@bidi@csundef}[1]{%
5561 \ifcsname#1\endcsname
5562 \expandafter\ifx\csname#1\endcsname\relax
5563 \expandafter\expandafter
5564 \expandafter\@firstoftwo
5565 \else
5566 \expandafter\expandafter
5567 \expandafter\@secondoftwo
5568 \fi
5569 \else

```



```

5570     \expandafter\@firstoftwo
5571     \fi}
5572 \newcommand{\if@bidi@def}[1]{%
5573     \ifdefined#1%
5574     \expandafter\@firstoftwo
5575     \else
5576     \expandafter\@secondoftwo
5577     \fi}
5578 \newcommand{\if@bidi@undef}[1]{%
5579     \ifdefined#1%
5580     \ifx#1\relax
5581     \expandafter\expandafter
5582     \expandafter\@firstoftwo
5583     \else
5584     \expandafter\expandafter
5585     \expandafter\@secondoftwo
5586     \fi
5587     \else
5588     \expandafter\@firstoftwo
5589     \fi}
5590 \newcommand{\if@bidi@blank}[1]{% from url.sty
5591     \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5592 \long\def\bidi@ifblank@i#1#2&#3#4#5:#{#4}
5593 \newcommand{\bidi@notblank}[1]{%
5594     \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5595 \newcommand{\if@bidi@defmacro}{%
5596 \long\edef\if@bidi@defmacro#1{%
5597     \noexpand\expandafter\noexpand\bidi@ifdefmacro
5598     \noexpand\meaning#1\detokenize{macro}:&}
5599 \edef\bidi@ifdefmacro{%
5600     \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&
5601     \bidi@ifdefmacro{\bidi@notblank{#2}}
5602 \newcommand*{\if@bidi@csmacro}[1]{%
5603     \if@bidi@csdef{#1}
5604     {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5605     {\@secondoftwo}}
5606 \newcommand{\if@bidi@defprimitive}[1]{%
5607     \ifprimitive#1%
5608     \expandafter\@firstoftwo
5609     \else
5610     \expandafter\@secondoftwo
5611     \fi}
5612 \newcommand{\if@bidi@csprimitive}[1]{%
5613     \begingroup\expandafter\expandafter\expandafter\endgroup%
5614     \expandafter\ifprimitive\csname#1\endcsname%
5615     \expandafter\@firstoftwo
5616     \else
5617     \expandafter\@secondoftwo
5618     \fi}
5619 \newcommand*{\bidi@csdefcs}[2]{%
5620 \expandafter\@ifdefinable \csname#1\endcsname{%
5621 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5622 \newcommand*{\bidi@csletcs}[2]{%
5623 \expandafter\@ifdefinable \csname#1\endcsname{%

```




```

5624 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5625 \newcommand*{\bidi@cslet}[2]{%
5626 \expandafter\ifdefinable \csname#1\endcsname{%
5627 \expandafter\let\csname#1\endcsname#2}}
5628 \newcommand{\bidi@namelongdef}[1]{%
5629 \long\expandafter\def\csname #1\endcsname}
5630 \newcommand{\bidi@namelonggdef}[1]{%
5631 \long\expandafter\gdef\csname #1\endcsname}
5632 \newcommand{\bidi@namelongedef}[1]{%
5633 \long\expandafter\edef\csname #1\endcsname}
5634 \newcommand{\bidi@namelongxdef}[1]{%
5635 \long\expandafter\xdef\csname #1\endcsname}
5636 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5637 \def\bidi@ensure@new@command#1{%
5638 \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5639 \expandafter\if\bidi@csundef\@gtempa
5640 {\new@command#1}{\relax%
5641 \let\@ifdefinable\rc@ifdefinable%
5642 \new@command#1}}
5643 \def\bidi@ensure@newlength#1{\if\bidi@undef#1{\newskip#1}{}}
5644
5645 \protected\def\bidi@error{\PackageError{bidi}}
5646 \protected\def\bidi@warning{\PackageWarning{bidi}}
5647 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5648 \protected\def\bidi@info{\PackageInfo{bidi}}
5649
5650 \def\bidi@pos#1#2#3#4{\bidi@namegdef{bidi@#1pos@#2@#3}{#4}}
5651
5652 \newcount\bidi@poscount
5653
5654 \newcommand*{\WriteStartXPostoaux}{%
5655 \global\advance\bidi@poscount\@ne
5656 \edef\@tempa{%
5657 \write\@auxout{%
5658 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
5659 }}%
5660 }%
5661 \ifvmode
5662 \leavevmode
5663 \fi
5664 \if@RTL
5665 \if@filesw
5666 \@tempa
5667 \fi
5668 \pdfsavepos
5669 \else
5670 \pdfsavepos
5671 \if@filesw
5672 \@tempa
5673 \fi
5674 \fi
5675 \if\bidi@csundef{bidi@xpos@start@\number\bidi@poscount}{%
5676 \PackageWarningNoLine{biditools}{%
5677 The start x position \number\bidi@poscount' is not known yet.

```



```

5678         Rerun to get this x position%
5679         }%
5680     }{}%
5681 }
5682
5683 \newcommand*\WriteEndXPostoaux}{%
5684     \edef\@tempa{%
5685         \write\@auxout{%
5686             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx}
5687         }%
5688     }%
5689 \if@RTL
5690     \if@filesw
5691         \@tempa
5692     \fi
5693 \pdfsavepos
5694 \else
5695 \pdfsavepos
5696 \if@filesw
5697     \@tempa
5698 \fi
5699 \fi
5700 \if@bidi@csundef{bidi@xpos@end@\number\bidiposcount}{%
5701     \PackageWarningNoLine{biditools}{%
5702         The end x position `'\number\bidiposcount' is not known yet.
5703         Rerun to get this x position%
5704     }%
5705 }{}%
5706 }
5707
5708 \newcommand*\WriteStartYPostoaux}{%
5709 \global\advance\bidiposcount\@ne
5710     \edef\@tempa{%
5711         \write\@auxout{%
5712             \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty}
5713         }%
5714     }%
5715 \ifvmode
5716     \leavevmode
5717 \fi
5718 \if@RTL
5719     \if@filesw
5720         \@tempa
5721     \fi
5722 \pdfsavepos
5723 \else
5724 \pdfsavepos
5725 \if@filesw
5726     \@tempa
5727 \fi
5728 \fi
5729 \if@bidi@csundef{bidi@ypos@start@\number\bidiposcount}{%
5730     \PackageWarningNoLine{biditools}{%
5731         The start y position `'\number\bidiposcount' is not known yet.

```



```

5732         Rerun to get this y position%
5733     }%
5734 }{}%
5735 }
5736
5737 \newcommand*{\WriteEndYPostoaux}{%
5738     \edef\@tempa{%
5739         \write\@auxout{%
5740             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5741         }%
5742     }%
5743 \if@RTL
5744     \if@filesw
5745         \@tempa
5746     \fi
5747 \pdfsavepos
5748 \else
5749 \pdfsavepos
5750 \if@filesw
5751     \@tempa
5752 \fi
5753 \fi
5754 \if@bidi@csundef{bidi@ypos@end@\number\bidiposcount}{%
5755     \PackageWarningNoLine{biditools}{%
5756         The end y position `'\number\bidiposcount' is not known yet.
5757         Rerun to get this y position%
5758     }%
5759 }{}%
5760 }
5761
5762 \newcommand*{\WriteStartXYPostoaux}{%
5763 \global\advance\bidiposcount\@ne
5764     \edef\@tempa{%
5765         \write\@auxout{%
5766             \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5767         }%
5768         \write\@auxout{%
5769             \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5770         }%
5771     }%
5772 \ifvmode
5773     \leavevmode
5774 \fi
5775 \if@RTL
5776     \if@filesw
5777         \@tempa
5778     \fi
5779 \pdfsavepos
5780 \else
5781 \pdfsavepos
5782 \if@filesw
5783     \@tempa
5784 \fi
5785 \fi

```



```

5786 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5787     \PackageWarningNoLine{biditools}{%
5788         The start x position `\

```



```

5840 \dimexpr \csname bidi@xpos@@end@\number\bidi@poscount
5841 \endcsname sp - \csname bidi@xpos@@start@\number\bidi@poscount
5842 \endcsname sp\relax
5843 \else
5844 \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5845 \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
5846 \endcsname sp\relax
5847 \fi
5848 }%
5849 }
5850
5851 \newcommand*{\currentposyheight}{%
5852 \if@bidi\csundef\bidi@ypos@@end@\number\bidi@poscount}{\z@}
5853 {%
5854 \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5855 \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5856 \endcsname sp\relax
5857 }%
5858 }
5859
5860
5861
5862 \newcommand*{\setbaselineskip}[1]{%
5863 \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5864 \selectfont
5865 }
5866
5867
5868 \newcommand*{\bidi@newrobustcmd}{}
5869 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5870
5871 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5872
5873 \def\bidi@newcommand#1[#2]{%
5874 \@ifnextchar[%]
5875 {\bidi@xargdef#1[#2]}
5876 {\ifx\l@ngrel@x\relax
5877 \let\l@ngrel@x\protected
5878 \else
5879 \protected\def\l@ngrel@x{\protected\long}%
5880 \fi
5881 \@argdef#1[#2]}}
5882
5883 \long\def\bidi@xargdef#1[#2][#3]#4{%
5884 \@ifdefinable#1{%
5885 \expandafter\protected
5886 \expandafter\def
5887 \expandafter#1%
5888 \expandafter{%
5889 \expandafter\@testopt
5890 \csname\string#1\endcsname{#3}}}%
5891 \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}
5892
5893 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}

```



```

5894
5895 \def\bidirenew@command#1{%
5896   \if@bidi@undef{#1}
5897     {\bidi@error{\string#1 undefined}\@ehc}
5898     {}%
5899   \let\@ifdefinable\@rc@ifdefinable
5900   \bidi@new@command#1}
5901
5902
5903
5904 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
5905
5906 \def\bidi@provide@command#1{%
5907   \if@bidi@undef{#1}
5908     {\def\reserved@a{\bidi@new@command#1}}
5909     {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5910   \reserved@a}
5911
5912 \newcommand*{\bidi@csuse}[1]{%
5913   \ifcsname#1\endcsname
5914     \csname#1\expandafter\endcsname
5915   \fi}
5916
5917 \newcommand{\bidi@expandonce}[1]{%
5918   \unexpanded\expandafter{#1}}
5919
5920 \def\bidi@protected{%
5921   \let\@@protect\protect
5922   \let\protect\@unexpandable@protect
5923   \afterassignment\restore@protect}
5924
5925 \bidi@newrobustcmd{\bidi@appto}[2]{%
5926   \if@bidi@undef{#1}
5927     {\edef#1{\unexpanded{#2}}}
5928     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5929 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5930   \if@bidi@undef{#1}
5931     {\edef#1{#2}}
5932     {\edef#1{\bidi@expandonce#1#2}}}}
5933 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5934   \if@bidi@undef{#1}
5935     {\xdef#1{\unexpanded{#2}}}
5936     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5937 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5938   \if@bidi@undef{#1}
5939     {\xdef#1{#2}}
5940     {\xdef#1{\bidi@expandonce#1#2}}}}
5941
5942 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5943 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5944
5945
5946
5947 \bidi@newrobustcmd{\bidi@preto}[2]{%

```



```

5948 \if@bidi@undef{#1}
5949   {\edef#1{\unexpanded{#2}}}
5950   {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5951 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5952   \if@bidi@undef{#1}
5953     {\edef#1{#2}}
5954     {\edef#1{#2}\bidi@expandonce#1}}}
5955 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5956   \if@bidi@undef{#1}
5957     {\xdef#1{\unexpanded{#2}}}
5958     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5959 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5960   \if@bidi@undef{#1}
5961     {\xdef#1{#2}}
5962     {\xdef#1{#2}\bidi@expandonce#1}}}
5963
5964 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5965 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5966
5967
5968
5969 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5970 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
5971 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
5972 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
5973 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
5974 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
5975
5976
5977
5978 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
5979 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
5980 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
5981 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
5982 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
5983 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
5984
5985
5986
5987 \bidi@newrobustcmd{\if@bidi@patchable}{%
5988   \bidi@dbg@trce\if@bidi@patchable
5989   \begingroup
5990   \@makeother\#%
5991   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
5992
5993 \long\def\bidi@ifpatchable#1#2{%
5994   \endgroup
5995   \bidi@dbg@init#1%
5996   \if@bidi@undef{#1}
5997     {\bidi@dbg@fail{def}\@secondoftwo}
5998     {\bidi@dbg@info{def}%
5999     \if@bidi@defmacro{#1}
6000       {\bidi@dbg@info{mac}%
6001       \bidi@ifscanable{#1}

```



```

6002     {\bidi@ifhashcheck{#2}
6003         {\bidi@dbg@info{tok}%
6004             \bidi@ifpattern#1{#2}
6005                 {\bidi@dbg@info{pat}%
6006                     \bidi@dbg@info{pos}\@firstoftwo}
6007                 {\bidi@dbg@fail{pat}\@secondoftwo}}
6008         {\bidi@dbg@fail{hsh}\@secondoftwo}}
6009     {\bidi@dbg@fail{tok}\@secondoftwo}}
6010     {\bidi@dbg@fail{mac}\@secondoftwo}}
6011
6012 \long\def\bidi@ifpatchable#1{%
6013     \endgroup
6014     \bidi@dbg@init#1%
6015     \if@bidi@undef{#1}
6016         {\bidi@dbg@fail{def}\@secondoftwo}
6017         {\bidi@dbg@info{def}%
6018             \if@bidi@defmacro{#1}
6019                 {\bidi@dbg@info{mac}%
6020                     \if@bidi@defparam{#1}
6021                         {\bidi@dbg@info{prm}%
6022                             \bidi@ifscanable{#1}
6023                                 {\bidi@dbg@info{tok}%
6024                                     \bidi@dbg@info{pos}\@firstoftwo}
6025                                 {\bidi@dbg@fail{tok}\@secondoftwo}}
6026                             {\bidi@dbg@info{prl}%
6027                                 \if@bidi@defprotected{#1}
6028                                     {\bidi@dbg@info{pro}}
6029                                     {}}%
6030                             \bidi@dbg@info{pos}\@firstoftwo}}
6031                         {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6032
6033 \bidi@newrobustcmd*{\bidi@patchcmd}{%
6034     \bidi@dbg@trce\bidi@patchcmd
6035     \begingroup
6036     \@makeother\#%
6037     \bidi@@patchcmd}
6038
6039 \newcommand{\bidi@@patchcmd}[4][#####1]{%
6040     \bidi@ifpatchable#2{#3}
6041     {\bidi@dbg@succ{ret}%
6042         \begingroup
6043         \edef\bidi@resrvda{%
6044             \def\noexpand\bidi@resrvda#####1\detokenize{macro:}####2->####3&{%
6045                 #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb#####3&}}%
6046             \def\noexpand\bidi@resrvdb#####1\detokenize{#3}####2&{%
6047                 #####1\detokenize{#4}####2}%
6048             \edef\noexpand\bidi@resrvda{%
6049                 \noexpand\bidi@resrvda\meaning#2&}}%
6050         \bidi@resrvda
6051         \bidi@patchcmd@scantoks\bidi@resrvda
6052         \let#2\bidi@resrvda
6053         \bidi@undef\bidi@resrvda
6054         \@firstoftwo}
6055     {\@secondoftwo}}

```




```

6056
6057 \def\bidipatchcmdscantoks#1{%
6058   \edef\bidiresrvda{\endgroup
6059     \unexpanded{\makeatletter\scantokens}{#1}%
6060     \catcode\number`\@=\the\catcode`\@\relax}%
6061   \bidiresrvda}
6062
6063 \protected\def\bidifscanable#1{%
6064   \begingroup
6065   \edef\bidiresrvda{%
6066     \def\noexpand\bidiresrvda####1\detokenize{macro}:###2->###3&{%
6067       ###1\def\string\bidiresrvda####2{###3}}%
6068     \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda\meaning#1&}}%
6069   \bidiresrvda
6070   \makeatletter
6071   \scantokens\expandafter{\bidiresrvda}%
6072   \expandafter\endgroup\ifx#1\bidiresrvda
6073     \expandafter\@firstoftwo
6074   \else
6075     \expandafter\@secondoftwo
6076   \fi}
6077
6078
6079 \protected\long\def\bidifhashcheck#1{%
6080   \begingroup
6081   \edef\bidiresrvda{\detokenize{#1}}%
6082   \expandafter\endgroup
6083   \expandafter\bidifhashcheck@i\meaning\bidiresrvda&}
6084
6085 \edef\bidifhashcheck@i#1&{%
6086   \noexpand\expandafter
6087   \noexpand\bidifhashcheck@ii
6088   \noexpand\strip@prefix#1\string#\string#&}
6089
6090 \edef\bidifhashcheck@ii{%
6091   \def\noexpand\bidifhashcheck@ii##1\string#\string###2&{
6092   \bidifhashcheck@ii{\if@bidi@blank{#2}}
6093
6094
6095 \protected\long\def\bidifpattern#1#2{%
6096   \begingroup
6097   \edef\bidiresrvda{%
6098     \def\noexpand\bidiresrvda####1\detokenize{#2}###2&{%
6099     \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{###2}}%
6100     \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda
6101     \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6102     \noexpand\bidiresrvda}
6103     \bidiresrvda\@secondoftwo\@firstoftwo}
6104
6105
6106 \newcommand{\if@bidi@defparam}{ }
6107 \long\edef\if@bidi@defparam#1{%
6108   \noexpand\expandafter\noexpand\bidifdefparam
6109   \noexpand\meaning#1\detokenize{macro}:->&}

```



```

6110 \edef\bidi@ifdefparam{%
6111   \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
6112 \bidi@ifdefparam{\bidi@notblank{#2}}
6113
6114
6115 \newcommand{\if@bidi@defprotected}{}
6116 \long\edef\if@bidi@defprotected#1{%
6117   \noexpand\expandafter\noexpand\bidi@ifdefprotected
6118   \noexpand\meaning#1\string\protected&}
6119 \edef\bidi@ifdefprotected{%
6120   \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
6121 \bidi@ifdefprotected{\bidi@notblank{#2}}
6122
6123
6124 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6125 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6126   \expandafter\let\csname #1\endcsname\bidi@undefined
6127 }
6128
6129 \let\bidi@dbg@trce@gobble
6130 \let\bidi@dbg@init@gobble
6131 \let\bidi@dbg@info@gobble
6132 \let\bidi@dbg@succ@gobble
6133 \let\bidi@dbg@fail@gobble
6134
6135
6136
6137 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6138   \bidi@dbg@trce\bidi@apptocmd
6139   \begingroup
6140   \@makeother\#%
6141   \bidi@hooktocmd\bidi@append}
6142
6143
6144
6145 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6146   \bidi@dbg@trce\bidi@pretocmd
6147   \begingroup
6148   \@makeother\#%
6149   \bidi@hooktocmd\bidi@prepend}
6150
6151 \long\def\bidi@hooktocmd#1#2#3{%
6152   \endgroup
6153   \bidi@dbg@init#2%
6154   \if@bidi@undef{#2}
6155     {\bidi@dbg@fail{def}\@secondoftwo}
6156     {\bidi@dbg@info{def}%
6157       \if@bidi@defmacro{#2}
6158         {\bidi@dbg@info{mac}%
6159           \if@bidi@defparam{#2}
6160             {\bidi@dbg@info{prm}%
6161               \bidi@ifscanable{#2}
6162                 {\bidi@ifhashcheck{#3}
6163                   {\bidi@dbg@info{tok}%

```



```

6164         \bidi@dbg@succ{ret}}%
6165         \bidi@hooktocmd@i#1#2{#3}}%
6166         \@firstoftwo
6167         {\bidi@dbg@fail{hsh}\@secondoftwo}}
6168         {\bidi@dbg@fail{tok}\@secondoftwo}}
6169     {\bidi@dbg@info{prl}}%
6170     \if@bidi@defprotected{#2}
6171     {\bidi@dbg@info{pro}}%
6172     \bidi@dbg@succ{red}}%
6173     \protected
6174     {\bidi@dbg@succ{red}}}%
6175     \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6176     \@firstoftwo}}
6177     {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6178
6179 \long\def\bidi@hooktocmd@i#1#2#3{%
6180 \begingroup
6181 \edef\bidi@resrvda{%
6182   \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6183     ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}}%
6184   \edef\noexpand\bidi@resrvda{%
6185     \noexpand\bidi@resrvda\meaning#2&}}}%
6186 \bidi@resrvda
6187 \bidi@patchcmd@scantoks\bidi@resrvda
6188 \let#2\bidi@resrvda
6189 \bidi@undef\bidi@resrvda}
6190
6191 \long\def\bidi@append#1#2{#1#2}
6192 \long\def\bidi@prepend#1#2{#2#1}
6193
6194 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6195 %\newcommand*{\bidi@endpreamblehook}{}
6196
6197 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}}%
6198
6199 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6200 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
6201
6202 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6203 \newcommand*{\bidi@beforeheaderhook}{}
6204
6205 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
6206 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
6207
6208 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutput}
6209 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
6210
6211 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6212 \newcommand*{\bidi@beforefooterhook}{}
6213
6214 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6215 \newcommand*{\bidi@afterfooterhook}{}
6216
6217

```



```

6218 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouthook}
6219 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6220
6221 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6222 \newcommand*{\bidi@atendoutputpagehook}{}
6223
6224 %\bidi@preto\document{%
6225 % \endgroup
6226 % \let\bidi@AtEndPreamble\@firstofone
6227 % \bidi@endpreamblehook
6228 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6229 % \bidi@undef\bidi@endpreamblehook
6230 % \beginingroup}
6231
6232 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6233 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6234
6235 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6236 %\newcommand*{\bidi@afterendpreamblehook}{}
6237
6238 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6239
6240 %\bidi@appto\document{%
6241 % \let\bidi@AfterEndPreamble\@firstofone
6242 % \bidi@afterendpreamblehook
6243 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6244 % \bidi@undef\bidi@afterendpreamblehook
6245 % \ignorespaces}
6246
6247 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocumentchecklabelsrerunhook}
6248 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{}
6249
6250 \bidi@patchcmd\enddocument
6251 {\fi}
6252 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6253 \bidi@afterenddocumentchecklabelsrerunhook
6254 \fi}
6255 {}
6256 {\PackageWarning{biditools}{Patching `string\enddocument' failed}}
6257
6258 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6259
6260 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6261 \newcommand*{\bidi@afterlastshipouthook}{}
6262
6263 \bidi@patchcmd\enddocument
6264 {\clearpage}
6265 {\clearpage
6266 \let\bidi@AfterLastShipout\@firstofone
6267 \bidi@afterlastshipouthook}
6268 {}
6269 {\let\bidi@clearpage\clearpage
6270 \def\clearpage{%
6271 \bidi@clearpage

```



```

6272 \let\bid@AfterLastShipout\@firstofone
6273 \bid@afterlastshipouthook}}
6274
6275 %\bid@newrobustcmd*{\bid@AfterEndDocument}{\bid@gappto\bid@afterenddocumenthook}
6276 %\newcommand*{\bid@afterenddocumenthook}{
6277
6278 \bid@newrobustcmd*{\bid@AfterEndDocument}{\AddToHook{enddocument/end}}%
6279
6280 %\bid@patchcmd\enddocument
6281 % {\deadcycles}
6282 % {\let\bid@AfterEndDocument\@firstofone
6283 % \bid@afterenddocumenthook
6284 % \deadcycles}
6285 % {}
6286 % {\let\bid@@end\@end
6287 % \def\@end{%
6288 % \let\bid@AfterEndDocument\@firstofone
6289 % \bid@afterenddocumenthook
6290 % \bid@@end}}
6291
6292 \bid@newrobustcmd{\bid@AtBeginEnvironment}[1]{%
6293 \bid@csgappto{\bid@begin@#1@hook}}
6294
6295 % Patch \begin<space> and \end<space> in newer LaTeX releases
6296 % \begin and \end in older ones.
6297 \expandafter\bid@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6298 {\csname #1\endcsname}
6299 {\bid@csuse{\bid@begin@#1@hook}%
6300 \csname #1\endcsname}
6301 {}
6302 {\bid@warning{%
6303 Patching '\string\begin' failed!\MessageBreak
6304 '\string\bid@AtBeginEnvironment' will not work@gobble}}
6305
6306
6307
6308 \bid@newrobustcmd{\bid@AtEndEnvironment}[1]{%
6309 \bid@csgappto{\bid@end@#1@hook}}
6310
6311 \expandafter\bid@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6312 {\csname end#1\endcsname}
6313 {\bid@csuse{\bid@end@#1@hook}%
6314 \csname end#1\endcsname}
6315 {}
6316 {\bid@warning{%
6317 Patching '\string\end' failed!\MessageBreak
6318 '\string\bid@AtEndEnvironment' will not work@gobble}}
6319
6320
6321
6322 \bid@newrobustcmd{\bid@BeforeBeginEnvironment}[1]{%
6323 \bid@csgappto{\bid@beforebegin@#1@hook}}
6324
6325 \expandafter\bid@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname

```



```

6326 {\bidi@csuse{@bidi@beforebegin@#1@hook}}
6327 {}
6328 {\bidi@warning{%
6329   Patching '\string\begin' failed!\MessageBreak
6330   '\string\bidi@BeforeBeginEnvironment' will not work@gobble}}
6331
6332 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6333   \bidi@csgappto{@bidi@afterend@#1@hook}}
6334
6335 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6336 {\if@ignore}
6337 {\bidi@csuse{@bidi@afterend@#1@hook}%
6338   \if@ignore}
6339 {}
6340 {\bidi@warning{%
6341   Patching '\string\end' failed!\MessageBreak
6342   '\string\bidi@AfterEndEnvironment' will not work@gobble}}
6343
6344 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6345 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6346 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6347 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6348
6349 % From David Carlisle:
6350 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6351 % See also https://github.com/ho-tex/oberdiek/issues/26
6352
6353 \let\bidi@stepcounter\stepcounter
6354 \let\bidi@@stpelt\@stpelt
6355
6356 \def\bidi@stpelt#1{%
6357   \ifcsname bidi@reset@#1@perpage\endcsname
6358     \begingroup
6359       \let\stepcounter\bidi@stepcounter
6360       \@bidi@@stpelt{#1}%
6361     \endgroup
6362     \expandafter@gobbletwo
6363   \fi
6364   \@bidi@@stpelt{#1}%
6365 }
6366
6367 \bidi@pretocmd\stepcounter
6368 {%
6369   \if@bidi@csundef{bidi@stepcounterhook@#1}{-}{%
6370     \csname bidi@stepcounterhook@#1\endcsname
6371   }%
6372 }-%
6373 {\PackageWarning{biditytools}{Patching '\string\stepcounter' failed}}
6374
6375 \chardef\bidi@backslash`\\
6376 \def\biditycs#1{\texttt{\char\bidi@backslash#1}}
6377
6378 % anonymous control sequences
6379 \newcount\biditytempcountb

```



```

6380 \newtoks\bidi@temptoksa
6381 \newtoks\bidi@temptoksb
6382
6383 % Catcode (re)storing
6384 %
6385 \def\bidi@storecatcode#1%
6386   {\escapechar@m@ne
6387   \bidi@csarg\edef\bidi@restorecatcode\string#1}%
6388     {\catcode`\string#1=
6389     \the\catcode\expandafter`\string#1}%
6390   \catcode\expandafter`\string#1=12\relax
6391   \escapechar`\\relax}
6392 \def\bidi@restorecatcode#1%
6393   {\escapechar@m@ne
6394   \csname bidi@restorecatcode\string#1\endcsname
6395   \escapechar`\\relax}
6396
6397 % Construct a control sequence inside \edef
6398 %
6399 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6400
6401 % Construct a control sequence out of #2, and give it to #1
6402 %
6403 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6404
6405 % Pick an escapecharacter
6406 % this presumes that its argument is a character.
6407 %
6408 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6409
6410 % Equality of strings.
6411 % the fast approach: does not work in expansion-only environment.
6412 %
6413 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
6414   \ifx\bidi@eqs@a\bidi@eqs@b}
6415
6416 % Test by expansion only
6417 %
6418 \def\bidi@EqualStringX#1#2{00\fi
6419   \csname if\@bidi@EqualStringX#1&#2&$\endcsname}
6420 \def\@bidi@EqualStringX#1#2$#3#4${\ifx#1#3%
6421   \ifx#1&true\else\bidi@hop@ES\@bidi@EqualStringX#2$#4\fi
6422   \else false\fi}
6423 \def\bidi@hop@ES#1\fi#2\fi{\fi\fi#1}
6424
6425 % Lexicographic ordering
6426 % note the use of \def
6427 % also note the characters 0,127,255 that are used,
6428 % these are not supposed to appear in the strings
6429 %
6430 {\catcode0=12 \catcode255=12 \catcode127=12
6431 \gdef\bidi@StringBeforeNC#1#2{00\fi
6432   \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
6433 \gdef\bidi@CharsBeforeNC#1#2^^?#3#4^^?{%

```



```

6434 \ifcat#1\relax\def\bidinext{\bidi@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6435 \else\ifcat#3\relax\def\bidinext{\bidi@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6436 \else\ifnum\lcode`#1<\lcode`#3
6437 \def\bidinext{\csname iftrue\endcsname}%
6438 \else\ifnum\lcode`#1>\lcode`#3
6439 \def\bidinext{\csname iffalse\endcsname}%
6440 \else\def\bidinext{\bidi@CharsBefore#2^^?#4^^?}%
6441 \fi \fi \fi \fi
6442 \bidinext}
6443 \gdef\bidi@StringBefore#1#2{00\fi
6444 \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
6445 \gdef\bidi@CharsBefore#1#2^^?#3#4^^?{%
6446 \ifnum`#1<`#3
6447 \def\bidinext{\csname iftrue\endcsname}%
6448 \else\ifnum`#1>`#3
6449 \def\bidinext{\csname iffalse\endcsname}%
6450 \else\def\bidinext{\bidi@CharsBefore#2^^?#4^^?}%
6451 \fi\fi
6452 \bidinext}
6453 }
6454
6455 % Null argument test
6456 %
6457 \def\bidi@empty{}
6458 \def\bidi@ifempty#1{00\fi\expandafter\ifx\csname bidi@#1>null\endcsname\bidi@null}
6459 \def\bidi@ifEmptyX#1{\expandafter\ifx\csname bidi@#1>null\endcsname\bidi@null}
6460 %\def\bidi@ifEmpty#1{\def\bidi@cs@a{#1}\ifx\bidi@cs@a\bidi@empty}
6461 \def\bidi@IsEmptyList#1{00\fi\def\bidi@cs@a{#1}\ifx\cs@a\bidi@empty}
6462
6463 % Next character test
6464 %
6465 \def\bidi@NextChar#1#2#3{00\fi
6466 \let\bidi@nxt@ch#1\def\bidi@nxt@a{#2}\def\bidi@nxt@b{#3}%
6467 \futurelet\bidi@nxt@c@\bidi@ifnxtc}
6468 \def\bidi@ifNextChar#1#2#3{%
6469 \let\bidi@nxt@ch#1\def\bidi@nxt@a{#2}\def\bidi@nxt@b{#3}%
6470 \futurelet\bidi@nxt@c@\bidi@ifnxtc}
6471 \def\@bidi@ifnxtc{\ifx\bidi@nxt@ch\bidi@nxt@c \expandafter\bidi@nxt@a
6472 \else \expandafter\bidi@nxt@b \fi}
6473
6474 % Test for defined-ness of string as control sequence.
6475 % works inside \edef
6476 %
6477 \def\bidi@undefinedcs#1{00\fi\bidi@csarg\ifx{#1}\relax}
6478
6479 % Define uniquely defined dummy macros,
6480 % usually to serve as bumper blocks at the end of a list
6481 %
6482 \newcount\bidi@dummies
6483 \def\DefNewDummy#1{
6484 \if\bidi@undefinedcs{#1}\bidi@csarg\edef{#1}{bidi@dum\the\bidi@dummies}
6485 \advance\bidi@dummies\@ne
6486 \else
6487 \bidi@error{Attempt at second definition of `#1'}

```




```

6488   \fi}
6489
6490% string case statement
6491% use: \bidi@switch \iftest{...} in:
6492%   item1 action1
6493%   ...
6494%   itemn actionn
6495%   default defaultaction [optional]
6496%   \endbidi@switch
6497% inspired by Jonathan Fine: Some Basic Control Macros
6498% Tugboat 12 #4
6499%
6500\let\bidi@fi\fi \let\endbidi@switch\relax \DefNewDummy{\bidi@default}
6501\def\bidi@switch@exit #1 \@bidi@fi #2 \endbidi@switch {\fi #1}
6502\def\bidi@switch #1#2#3{\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6503 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6504 \bidi@switch {#1}
6505 }
6506% this version puts the test object in {}
6507\def\bidi@oswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6508 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6509 \bidi@switch #1 in:
6510 }
6511% this version assumes that the test object is just one character
6512\def\bidi@cswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6513 #1#2\bidi@switch@exit #3 \@bidi@fi
6514 \bidi@cswitch #1 in:
6515 }
6516% this version assumes that the test object can have an optional space
6517\def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6518 #1#2 \bidi@switch@exit #3 \@bidi@fi
6519 \bidi@bswitch #1 in:
6520 }
6521% this version can cope with significant spaces at the start of #3;
6522% #2 is macro argument
6523\def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6524 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6525 \bidi@mswitch #1 in:
6526 }
6527% idem; #2 does not have to be enclosed in braces
6528\def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6529 #1#2 \bidi@switch@exit #3 \@bidi@fi
6530 \bidi@fswitch #1 in:
6531 }
6532
6533% Routines for taking the value of a string:
6534% if the string is defined as control sequence
6535% take the value of that, otherwise take the string itself
6536
6537% String or value of control sequence
6538%
6539\def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6540
6541% String or control sequence

```



```

6542 %
6543 \def\@bidi@ww#1{\if\@bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6544
6545 % String or \noexpand-ed control sequence;
6546 % for use in \edef
6547 %
6548 \newif\ifbidi@in@label
6549 \def\@bidi@w#1{\if\@bidi@undefinedcs{#1}#1\else
6550     \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6551 \newtoks\bidi@are@these@correct
6552 \def\bidi@t@w#1{%
6553     \if\@bidi@undefinedcs{#1}#1%
6554     \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1} \fi
6555     \else
6556     \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6557
6558 % List Manipulation .....
6559 % this assumes that #1 is a list of tokens, #2 is the name of a list
6560 %
6561 % Names of lists (and of items to pop into) are given as strings;
6562 % not as control sequences.
6563 %
6564 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6565 % basic append/prepend macro
6566 \long\def\@bidi@append@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6567 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@lista}
6568 \long\def\@bidi@prepend@to@cslist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6569 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lista}
6570 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@cslist}
6571 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@cslist}
6572 % variations:
6573 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
6574 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
6575 \def\bidi@append@list@to@list#1#2{%
6576     \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}
6577 \def\bidi@prepend@list@to@list#1#2{%
6578     \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter}{\expandafter\the\csname#2}
6579 \def\bidi@append@cslist@to@cslist#1#2{%
6580     \@bidi@append@to@cslist{#1}\expandafter{\the#2}}
6581 \def\bidi@prepend@cslist@to@cslist#1#2{%
6582     \@bidi@prepend@to@cslist{#1}\expandafter{\the#2}}
6583 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
6584 \def\bidi@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
6585
6586 \let\bidi@willbeunhskip\unhskip
6587
6588 % A few list macros for the user
6589 \def\NewTokenList:#1 {\bidi@csarg\newtoks{#1}\global\csname#1\endcsname{}}
6590 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6591 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
6592 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
6593 \def\TheTokenList:#1 {\let\bidi@oldwbuskip\bidi@willbeunhskip \let\bidi@willbeunhskip\empty
6594     \if\@bidi@undefinedcs{#1}\bidi@error{Token List <#1> undefined}
6595     \else\bidi@csarg\the{#1}\fi

```



```

6596 \let\bid@willbeunhskip\bid@oldwbuskip}
6597
6598 \def\bid@del@tok@from@list#1#2{\begingroup
6599 \long\def\bid@cs@liste##1#2##2\bid@tok@SM
6600 {\bid@toks@lista{##1}\bid@toks@listb{##2}%
6601 \edef\bid@cs@listb{\global\bid@csname{#1}=
6602 {\the\bid@toks@lista\the\bid@toks@listb}}%
6603 \bid@cs@listb}%
6604 \edef\bid@cs@lista{\noexpand\bid@cs@liste}\expandafter\the\csname#1\endcsname\noexpand
6605 \bid@cs@lista \endgroup}
6606 \def\bid@in@front@of@list#1{\bid@csarg{\let\expandafter\bid@cs@lista}{#1}%
6607 \bid@in@front@of@cslist\bid@cs@lista}
6608 \long\def\bid@in@front@of@cslist#1#2{\begingroup\bid@toks@lista={#2}%
6609 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bid@toks@list
6610 \endgroup}
6611 \long\def\bid@local@in@front@of@list#1#2{\bid@toks@lista={#2}%
6612 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6613 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6614 \expandafter\the\csname#1\endcsname}%
6615 }
6616 \def\bid@set@list#1{\bid@csarg{\let\expandafter\bid@cs@lista}{#1}%
6617 \bid@set@cslist\bid@cs@lista}
6618 \long\def\bid@set@cslist#1#2{\begingroup\bid@toks@lista={#2}%
6619 \global#1=\expandafter{\the\bid@toks@lista}\endgroup}
6620
6621 %%%Stack macros
6622 %
6623 % push in terms of prepending of lists
6624 \def\bid@push@cs@onto@cs#1#2{\@bid@prepend@to@cslist#1\expandafter{\expandafter\expandafter
6625 \def\bid@push@onto#1{\bid@csarg\bid@push@onto@cs{#1}}
6626 \def\bid@push@onto@cs#1#2{\@bid@prepend@to@cslist#1}{\{#2}}
6627 \def\bid@local@push@onto#1#2{\let\relax
6628 \bid@local@in@front@of@list{#1}{\{#2}}
6629 % pop via auxiliary macro: #1 is result, #2 is stack
6630 % two cs arguments
6631 \def\bid@pop@cs@into#1#2{\edef\bid@cs@e
6632 {\noexpand\@bid@popinto\noexpand#1\noexpand#2\the#2\noexpand\@bid@pop}\bid@cs@e}
6633 % two string arguments
6634 \def\bid@pop@into#1#2{\edef\bid@cs@e
6635 {\noexpand\@bid@popinto\bid@csname{#1}\bid@csname{#2}\bid@csarg\the{#2}\noexpand\@bid@
6636 \long\def\@bid@popinto#1#2\#3#4\@bid@pop{#1}{#3}#2{#4}}
6637 \def\bid@copy@stacktop#1#2{%
6638 \edef\bid@cs@e{\noexpand\@bid@copy@stacktop
6639 {#1}\bid@csarg\the{#2}\noexpand\@bid@pop}%
6640 \bid@cs@e}
6641 \def\@bid@copy@stacktop#1\#2#3\@bid@pop{\csname#1\endcsname#2\relax}
6642 \newcount\bid@stack@length \newtoks\bid@empty@stack \bid@empty@stack{\{\}}
6643 \def\bid@length@of@stack#1{\bid@csarg\bid@length@of@csstack{#1}}
6644 \def\bid@length@of@csstack#1{\def\advance\bid@stack@length\@ne}%
6645 \bid@stack@length\m@ne \the#1}
6646 % turn a stack upside down
6647 \def\bid@invert@csstack#1{\bid@length@of@csstack{#1}%
6648 \bid@tempcountb\z@ \bid@temptoksa\bid@empty@stack
6649 \loop\ifnum\bid@tempcountb<\bid@stack@length

```



```

6650 \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length@m@ne
6651 \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6652 % \bidi@append@cslst@to@cslst\bidi@temptoksb\bidi@temptoksa% append a to b
6653 % \bidi@temptoksa\bidi@temptoksb
6654 \repeat% copy b to a
6655 #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6656 % invert a stack into a list
6657 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6658 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6659 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6660 \bidi@pop@into{bidi@temptoksb}{#1}\advance\bidi@stack@length@m@ne
6661 \bidi@append@list@to@list{bidi@temptoksb}{bidi@temptoksa}\repeat
6662 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6663
6664
6665 % General loop macro:
6666 % \looprepeat
6667 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6668 % \untilcondition{<cond>} \whilecondition{<cond>}
6669 % \doloopbody { <loop body> }
6670 % where all control sequences in between \looprepeat and \doloopbody are optional.
6671 %
6672 % var: characters to form a control sequence;
6673 % after \forvariable{index} you can access the loop counter as \index.
6674 % This is a count register; to print it use \number\index.
6675 % start,step,end: integers with obvious relations to the loop counter;
6676 % start and step have a default value of 1
6677 % cond: (sequence of commands ending in) any TeX \if... test.
6678 %
6679 % Count down instead of up with \downtovalue; the increment given in \bystep
6680 % is always positive, and is added or subtracted accordingly.
6681 %
6682 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6683 % at the beginning of the loop body.
6684 %
6685 % Exit from middle of loop: \breaklooprepeat
6686 % use this at any place in the loop; in case of a conditional use
6687 % \ifsomething ... \expandafter \breaklooprepeat \fi
6688 %
6689 % Note that the line ends do not cause spaces in the output.
6690 %
6691 % Technical details:
6692 % The loop body is not executed in a group: the braces are those
6693 % of a token list.
6694 % The `forvariable' variable is \let to a \count register.
6695
6696
6697
6698 % Auxiliary stuff
6699 \def\bidi@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6700 \def\bidi@looprepeat@csromannumeral#1{\csname #1\romannumeral\bidi@looprepeat@depth\endcsname}
6701 \def\bidi@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidi@looprepeat@depth\endcsname}
6702
6703 \newcount\bidi@looprepeat@depth

```



```

6704 \let\endlooprepeat\relax \def\bidi@csprotect{}
6705 % Trace switches may later be defined by PAC_utils
6706 \let\bidi@looprepeat@traceinit\relax \let\bidi@looprepeat@traceexit\relax
6707
6708 % Main repeatloop macro
6709 % - go to next level and allocate unique counter/toks if this is the
6710 %   first time we visit this level
6711 % - setup: gather bounds and termination conditions
6712 % - scoop up body in token list; after the assignment define and
6713 %   execute body
6714 \def\looprepeat#1\do loopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop
6715   \advance\bidi@looprepeat@depth\@ne\relax
6716   \bidi@looprepeat@csargromannumeral\ifx\bidi@looprepeat@count}\relax
6717     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6718     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6719     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6720     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6721   \fi \bidi@looprepeat@zero \def\bidi@looprepeat@sign{}}\def\bidi@looprepeat@comp{>}\bidi@loop
6722   \edef\bidi@looprepeat@tmp
6723     {\def\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}}{\bidi@loop
6724   \afterassignment\bidi@looprepeat@dxbody\bidi@looprepeat@csromannumeral{\bidi@looprepeat@tok
6725
6726 % Define and execute loop body
6727 % This is done with an \edef to construct the actual sequence
6728 \def\bidi@looprepeat@dxbody{\bidi@looprepeat@csargromannumeral\edef{\bidi@looprepeat@body}{%
6729   \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}}%
6730   \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@toks}}%
6731   \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@utest}}%
6732   \global\bidi@looprepeat@csargromannumeral\advance{\bidi@looprepeat@count} by \bidi@loopre
6733   \noexpand\endlooprepeat
6734   \bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}}}%
6735   \bidi@looprepeat@csromannumeral{\bidi@looprepeat@body}\ignorespaces}
6736
6737 % Stop test
6738 %% In order to stop, issue a
6739 % \breaklooprepeat which scoops up the rest of the body and exits
6740 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral
6741   \advance\bidi@looprepeat@depth\m@ne \bidi@looprepeat@traceexit
6742 }
6743
6744
6745 % Setup
6746 % gather bounds and termination conditions
6747 \def\bidi@looprepeat@setup#1{%
6748   \begingroup
6749     \def\forvariable##1{%
6750       \edef\bidi@looprepeat@tmp{%
6751         \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{\bidi@
6752         \bidi@looprepeat@tmp}}%
6753       \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{\bidi@looprepeat@count}##1\ig
6754       \def\tovalue##1{%
6755         \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loop
6756         {\bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}}%
6757         \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@count}\bi

```



```

6758         \noexpand\expandafter \noexpand\breaklooprepeat
6759         \noexpand\fi}\ignorespaces}%
6760         \bidi@looprepeat@tmp}%
6761     \def\downtovalue##1{%
6762         \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6763     \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}%
6764         \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{-##1}\else
6765         \bidi@looprepeat@csargromannumeral\gdef{bidi@looprepeat@inc}{##1}\fi\ignorespaces}%
6766     \def\untilcondition##1{%
6767         \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@
6768             \noexpand##1\relax
6769             \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6770         \bidi@looprepeat@tmp}%
6771     \def\whilecondition##1{%
6772         \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{bidi@looprepeat@
6773             \noexpand##1\relax \noexpand\else
6774             \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6775         \bidi@looprepeat@tmp}%
6776     \fromvalue{\@ne}\bystep{\@ne}#1%
6777 \endgroup}
6778 \def\bidi@looprepeat@zero
6779     {\bidi@looprepeat@csromannumeral{bidi@looprepeat@toks}{}\bidi@looprepeat@csromannumeral{bidi@looprepeat@
6780     \bidi@looprepeat@csargromannumeral\def{bidi@looprepeat@body}{}}
6781
6782 %\tracingmacros2
6783 %\newcount\tmpcount % used in some examples below
6784
6785 %\looprepeat \forvariable{i}
6786 %     \bystep{2}
6787 % \doloopbody {%
6788 %     \ifnum i=13 \expandafter\breaklooprepeat \fi
6789 %     \number{i} } %
6790 %}%
6791
6792 %\looprepeat \forvariable{iii}
6793 %     \tovalue{8}
6794 % \doloopbody {}
6795 %After loop: \number{iii}%
6796
6797 %\looprepeat \forvariable{i}
6798 %     \fromvalue{10}
6799 %     \bystep{2}
6800 %     \downtovalue{0}
6801 % \doloopbody {\number{i} }
6802
6803 %\looprepeat \forvariable{x} \whilecondition{\ifnum x<7}
6804 % \doloopbody {\number{x} }
6805
6806 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6807
6808 %\looprepeat \forvariable{j}
6809 %     \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6810 % \doloopbody {\number{j} }
6811

```



```

6812%\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6813% {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6814% \doloopbody {(\number{i}.\number{j}) }
6815% }
6816
6817% infinite loop
6818%\looprepeat \doloopbody {}
6819
6820\ExplSyntaxOn
6821\NewDocumentCommand \bidi@AfterClass { s m o +m }
6822 {
6823   \IfBooleanTF { #1 }
6824   {
6825     \@ifclassloaded{ #2 }
6826     { #4 }
6827     {
6828       \hook_gput_code:nnn
6829       { file / #2.\@clsextension / after }
6830       { #3 }
6831       { #4 }
6832     }
6833   }
6834   {
6835     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6836   }
6837 }
6838
6839\seq_new:N \g__biditools_input_file_seq
6840
6841\prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6842 {
6843   \str_set:Nx \l_tmpa_str { #1 }
6844   \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }
6845   { \prg_return_true: }
6846   { \prg_return_false: }
6847 }
6848
6849\prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6850 {
6851   \@ifclassloaded { #1 }
6852   {
6853     \__bidi_if_loading:nTF { #1.\@clsextension }
6854     { \prg_return_false: }
6855     { \prg_return_true: }
6856   }
6857   {
6858     \prg_return_false:
6859   }
6860 }
6861
6862\prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6863 {
6864   \@ifpackageloaded { #1 }
6865   {

```



```

6866     \_bidi_if_loading:nTF { #1.\@pkgextension }
6867     { \prg_return_false: }
6868     { \prg_return_true: }
6869   }
6870   {
6871     \prg_return_false:
6872   }
6873 }
6874
6875 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6876 {
6877   \IfBooleanTF { #1 }
6878   {
6879     \bidi_if_class_loaded:nTF { #2 }
6880     { #4 }
6881     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6882   }
6883   {
6884     \bidi_if_class_loaded:nF
6885     { #2 }
6886     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6887   }
6888 }
6889
6890 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6891 {
6892   \IfBooleanTF { #1 }
6893   {
6894     \@ifpackageloaded{ #2 }
6895     { #4 }
6896     {
6897       \hook_gput_code:nnn
6898       { file / #2.\@pkgextension / after }
6899       { #3 }
6900       { #4 }
6901     }
6902   }
6903   {
6904     \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6905   }
6906 }
6907
6908 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6909 {
6910   \IfBooleanTF { #1 }
6911   {
6912     \bidi_if_package_loaded:nTF { #2 }
6913     { #4 }
6914     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6915   }
6916   {
6917     \bidi_if_package_loaded:nF
6918     { #2 }
6919     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }

```




```

6920     }
6921 }
6922
6923 \clist_new:N \l__biditools_package_clist
6924 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6925 {
6926     Can-not-prevent-package-`#1'-from-being-loaded,~
6927     since-it-has-been-loaded-already-before-line-\msg_line_number:
6928 }
6929 \clist_new:N \g__biditools_prevent_clist
6930
6931 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6932 {
6933     \clist_set:Nx \l__biditools_package_clist { #3 }
6934     \clist_map_inline:Nn \l__biditools_package_clist
6935     {
6936         \@ifpackageloaded { ##1 }
6937         {
6938             \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
6939             { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
6940         }
6941         {
6942             \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
6943             { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
6944             \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
6945             {
6946                 \tl_new:c { g__biditools_exclude_package_##1_tl }
6947             }
6948             \IfValueT { #2 }
6949             {
6950                 \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
6951             }
6952             \disable@package@load { ##1 }
6953             { \tl_use:c { g__biditools_exclude_package_##1_tl } }
6954         }
6955     }
6956     \clist_clear:N \l__biditools_package_clist
6957 }
6958
6959 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
6960 {
6961     \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
6962     \clist_gclear:N \g__biditools_prevent_clist
6963 }
6964
6965 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
6966 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
6967
6968 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
6969 {
6970     \clist_set:Nx \l__biditools_package_clist { #2 }
6971     \clist_map_inline:Nn \l__biditools_package_clist
6972     {
6973         \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }

```



```

6974     {
6975         \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
6976         \reenable@package@load { ##1 }
6977         \IfBooleanT { #1 }
6978             { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
6979     }
6980 }
6981 }
6982
6983 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
6984 {
6985     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
6986     {
6987         \debug_suspend:
6988         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
6989         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
6990         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
6991         #2
6992         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
6993         \debug_resume:
6994     }
6995 }
6996
6997 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
6998 {
6999     \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7000     {
7001         \debug_suspend:
7002         \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7003         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7004         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7005         #2
7006         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7007         \debug_resume:
7008     }
7009 }
7010
7011 \clist_new:N \l__biditools_file_patch_clist
7012
7013 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7014 {
7015     \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7016     \clist_map_inline:Nn \l__biditools_file_patch_clist
7017     {
7018         \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7019     }
7020     \clist_clear:N \l__biditools_file_patch_clist
7021 }
7022
7023 \clist_new:N \l__biditools_package_patch_clist
7024
7025 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7026 {
7027     \clist_set:Nx \l__biditools_package_patch_clist { #1 }

```



```

7028 \clist_map_inline:Nn \l__biditools_package_patch_clist
7029 {
7030   \ApplyPatchToPackage { ##1 } [ #2 ]
7031 }
7032 \clist_clear:N \l__biditools_package_patch_clist
7033 }
7034
7035 \clist_new:N \l__biditools_class_patch_clist
7036
7037 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7038 {
7039   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7040   \clist_map_inline:Nn \l__biditools_class_patch_clist
7041   {
7042     \ApplyPatchToClass { ##1 } [ #2 ]
7043   }
7044   \clist_clear:N \l__biditools_class_patch_clist
7045 }
7046
7047 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7048 {
7049   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7050   \clist_map_inline:Nn \l__biditools_class_patch_clist
7051   {
7052     \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7053   }
7054   \clist_clear:N \l__biditools_class_patch_clist
7055 }
7056 \ExplSyntaxOff
7057
7058 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7059 \newcommand*{\bidi@UnReplaceInput}
7060 {\undeclare@file@substitution}
7061 \newcommand*{\bidi@ReplacePackage}[2]{%
7062   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7063 }
7064 \newcommand*{\bidi@UnReplacePackage}[1]{%
7065   \undeclare@file@substitution{#1.\@pkgextension}%
7066 }
7067 \newcommand*{\bidi@ReplaceClass}[2]{%
7068   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7069 }
7070 \newcommand*{\bidi@UnReplaceClass}[1]{%
7071   \undeclare@file@substitution{#1.\@clsextension}%
7072 }
7073 \newcommand*{\bidi@BeforeFile}[1]{%
7074   \AddToHook{file/#1/before}%
7075 }
7076 \newcommand*{\bidi@AfterFile}[1]{%
7077   \AddToHook{file/#1/after}%
7078 }
7079 \newcommand*{\bidi@BeforeClass}[1]{%
7080   \bidi@BeforeFile{#1.\@clsextension}%
7081 }

```



```

7082 \newcommand*{\bidi@BeforePackage}[1]{%
7083   \bidi@BeforeFile{#1.\@pkgextension}%
7084 }
7085
7086 \long\def\bidi@protected@immediate@write#1#2#3{%
7087   \begingroup
7088     #2%
7089     \let\protect\@unexpandable@protect
7090     \edef\reserved@a{\immediate\write#1{#3}}%
7091     \reserved@a
7092   \endgroup
7093   \if@nobreak\ifvmode\nobreak\fi\fi
7094 }
7095
7096 \def\bidi@patch@AfterPackage#1{%
7097   \@ifpackageloaded{#1}{%
7098     \@firstofone
7099   }{%
7100     \AddToHook{package/#1/after}%
7101   }%
7102 }
7103
7104 \def\bidi@patch@AfterFile#1{%
7105   \IfFileLoadedTF{#1}{%
7106     \@firstofone
7107   }{%
7108     \AddToHook{file/#1/after}%
7109   }%
7110 }
7111
7112 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7113 {
7114   \bidi@patch@AfterFile{#1.#2}{%
7115     \ifnum\catcode`\@=11
7116       \input{#1-xetex-#3.def}%
7117     \else
7118       \bidi@storecatcode\@
7119       \makeatletter
7120       \input{#1-xetex-#3.def}%
7121       \bidi@restorecatcode\@
7122     \fi
7123   }%
7124 }
7125
7126 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7127 {
7128   \bidi@patch@AfterFile{#1.#3}{#2}%
7129 }
7130
7131 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7132 {
7133   \AddToHook{begindocument/before}{%
7134     \IfPackageLoadedF{#1}{%
7135       \ApplyPatchToFiles{#2}[#3][#4]%

```



```

7136     }%
7137   }
7138 }
7139
7140 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7141 {
7142   \AddToHook{begindocument/before}{%
7143     \IfPackageLoadedF{#2}{%
7144       \ifnum\catcode`\@=11
7145         \@ifclassloaded{#1}{%
7146           \input{#1-xetex-#3.def}%
7147         }{}%
7148       \else
7149         \bidi@storecatcode\@
7150         \makeatletter
7151         \@ifclassloaded{#1}{%
7152           \input{#1-xetex-#3.def}%
7153         }{}%
7154         \bidi@restorecatcode\@
7155       \fi
7156     }%
7157   }
7158 }
7159
7160 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7161 {
7162   \AddToHook{begindocument/before}{%
7163     \IfPackageLoadedF{#2}{%
7164       \IfPackageLoadedT{#1}{%
7165         \ifnum\catcode`\@=11
7166           \input{#1-xetex-#3.def}%
7167         \else
7168           \bidi@storecatcode\@
7169           \makeatletter
7170           \input{#1-xetex-#3.def}%
7171           \bidi@restorecatcode\@
7172         \fi
7173       }%
7174     }%
7175   }
7176 }
7177
7178 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7179 {
7180   \AddToHook{begindocument/before}{%
7181     \ifnum\catcode`\@=11
7182       \@ifpackageloaded{#1}{#2}{#3}%
7183     \else
7184       \bidi@storecatcode\@
7185       \makeatletter
7186       \@ifpackageloaded{#1}{#2}{#3}%
7187       \bidi@restorecatcode\@
7188     \fi
7189   }

```



```

7190 }
7191
7192 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7193 {
7194   \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7195 }
7196
7197 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7198 {
7199   \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7200 }
7201
7202 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7203 {
7204   \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7205 }
7206
7207 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7208 {
7209   \bidi@patch@AfterPackage{#1}{#2}%
7210 }
7211
7212 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7213 {
7214   \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7215 }

```

53 File `bidituftefloat.sty`

```

7216 \NeedsTeXFormat{LaTeX2e}
7217 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7218 bidi implementation of tufte float]
7219 \RequirePackage{xifthen}
7220 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7221 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7222 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bid
7223 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1@gobble}}
7224 \newboolean{@bidituftefloat@reversegeometry}
7225 \setboolean{@bidituftefloat@reversegeometry}{false}
7226 \DeclareOption{reversegeometry}{\setboolean{@bidituftefloat@reversegeometry}{true}}
7227 \newboolean{@bidituftefloat@a4paper}
7228 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@a4paper}{true}}
7229 \newboolean{@bidituftefloat@b5paper}
7230 \DeclareOption{b5paper}{\setboolean{@bidituftefloat@b5paper}{true}}
7231 \newboolean{@bidituftefloat@symmetric}
7232 \newboolean{@bidituftefloat@twoside}
7233 \DeclareOption{twoside}{%
7234 \@twosidetrue \mparswitchtrue%
7235 \setboolean{@bidituftefloat@twoside}{true}%
7236 \setboolean{@bidituftefloat@symmetric}{true}%
7237 }
7238 \DeclareOption{oneside}{%
7239 \@twosidefalse \mparswitchfalse%
7240 \setboolean{@bidituftefloat@twoside}{false}%

```



```

7241 \setboolean{@biditytfloat@symmetric}{false}%
7242 }
7243 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7244 \newboolean{@biditytfloat@debug}
7245 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodete
7246 \ProcessOptions
7247 %% Globally sets the length
7248 \newcommand*{\gsetlength}[2]{%
7249   \setlength{#1}{#2}%
7250   \global#1=#1\relax%
7251 }
7252
7253 %% Set the font sizes and baselines to match biditytfloat's books
7254 \renewcommand\normalsize{%
7255   \@setfontsize\normalsize\expt{14}%
7256   \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7257   \abovedisplayshortskip \z@ \@plus3\p@
7258   \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7259   \belowdisplayskip \abovedisplayskip
7260   \let\@listi\@listI}
7261 \normalbaselineskip=14pt
7262 \normalsize
7263 \renewcommand\footnotesize{%
7264   \@setfontsize\footnotesize\@viipt{10}%
7265   \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7266   \abovedisplayshortskip \z@ \@plus\p@
7267   \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7268   \def\@listi{\leftmargin\leftmargini
7269     \topsep 3\p@ \@plus\p@ \@minus\p@
7270     \parsep 2\p@ \@plus\p@ \@minus\p@
7271     \itemsep \parsep}%
7272   \belowdisplayskip \abovedisplayskip
7273 }
7274 %% Paragraph indentation and separation for marginal text
7275 \newcommand{\@biditytfloat@margin@par}{%
7276   \setlength{\RaggedRightParindent}{0.5pc}%
7277   \setlength{\JustifyingParindent}{0.5pc}%
7278   \setlength{\parindent}{0.5pc}%
7279   \setlength{\parskip}{0pt}%
7280 }
7281 \RequirePackage{ragged2e}
7282 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
7283 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpa
7284 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7285   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpa
7286   }}
7287 \ifthenelse{\boolean{@biditytfloat@b5paper}}
7288   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7289   }}{%
7290 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpa
7291 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7292   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpa
7293   }}
7294 \ifthenelse{\boolean{@biditytfloat@b5paper}}

```



```

7295 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7296 {}}}
7297 \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7298 {}
7299 {\geometry{asymmetric}}% forces internal LaTeX `twoside'
7300 \setlength\marginparpush{10pt}
7301 %% Font for margin items
7302 \newcommand{\@bidituftefloat@marginfont}{\normalfont\footnotesize}
7303 \newcommand*{\@bidituftefloat@caption@font}{\@bidituftefloat@marginfont}
7304 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bidituftefloat@caption@font}{#1}}
7305 \newcommand{\@bidituftefloat@justification}{\justifying}%
7306 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7307 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7308 \newboolean{@bidituftefloat@changepage}
7309 \IfFileExists{changepage.sty}{%
7310 \bidituftefloatDebugInfoNL{Found changepage.sty}
7311 \RequirePackage[strict]{changepage}
7312 \setboolean{@bidituftefloat@changepage}{true}
7313 }{%
7314 \bidituftefloatDebugInfoNL{Found chngpage.sty}
7315 \RequirePackage[strict]{chngpage}
7316 \setboolean{@bidituftefloat@changepage}{false}
7317 }
7318 \newboolean{@bidituftefloat@odd@page}
7319 \setboolean{@bidituftefloat@odd@page}{true}
7320 \newcommand*{\@bidituftefloat@checkoddpage}{%
7321 \checkoddpage%
7322 \ifthenelse{\boolean{@bidituftefloat@changepage}}{%
7323 \ifoddpage%
7324 \setboolean{@bidituftefloat@odd@page}{true}%
7325 \else%
7326 \setboolean{@bidituftefloat@odd@page}{false}%
7327 \fi%
7328 }{%
7329 \ifcpoddpage%
7330 \setboolean{@bidituftefloat@odd@page}{true}%
7331 \else%
7332 \setboolean{@bidituftefloat@odd@page}{false}%
7333 \fi%
7334 }%
7335 }
7336 \newlength{\@bidituftefloat@overhang}% used by the fullwidth environment and the running head
7337 \newlength{\@bidituftefloat@fullwidth}
7338 \newlength{\@bidituftefloat@caption@fill}
7339 \newcommand{\bidituftefloatRecalculate}{%
7340 \setlength{\@bidituftefloat@overhang}{\marginparwidth}
7341 \addtolength{\@bidituftefloat@overhang}{\marginparsep}
7342
7343 \setlength{\@bidituftefloat@fullwidth}{\textwidth}
7344 \addtolength{\@bidituftefloat@fullwidth}{\marginparsep}
7345 \addtolength{\@bidituftefloat@fullwidth}{\marginparwidth}
7346
7347 \setlength{\@bidituftefloat@caption@fill}{\textwidth}
7348 \addtolength{\@bidituftefloat@caption@fill}{\marginparsep}

```




```

7349 }
7350 \AtBeginDocument{\biditytfloatRecalculate}
7351 \RequirePackage{optparams}% provides multiple optional arguments for commands
7352 \RequirePackage{placeins}
7353 \newsavebox{\@biditytfloat@margin@floatbox}
7354 \newenvironment{@biditytfloat@margin@float}[2] [-1.2ex]%
7355   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
7356   \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7357   \begin{minipage}{\marginparwidth}%
7358     \@biditytfloat@caption@font%
7359     \def\@capttype{#2}%
7360     \hbox{\vspace*{#1}}%
7361     \@biditytfloat@caption@justification%
7362     \@biditytfloat@margin@par%
7363     \noindent%
7364   }
7365   {\end{minipage}%
7366   \end{lrbox}%
7367   \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7368 }
7369 \newenvironment{marginfigure}[1] [-1.2ex]%
7370   {\begin{@biditytfloat@margin@float}[#1]{figure}}
7371   {\end{@biditytfloat@margin@float}}
7372 \newenvironment{marginfigure}[1] [-1.2ex]%
7373   {\begin{@biditytfloat@margin@float}[#1]{table}}
7374   {\end{@biditytfloat@margin@float}}
7375 \newcommand*{\@biditytfloat@justification@autodetect}{\justifying}%
7376
7377 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
7378 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7379   \ifthenelse{equal{\@biditytfloat@float@debug@info}{}}%
7380     {\def\@biditytfloat@float@debug@info{#1}}%
7381     {\g@addto@macro{\@biditytfloat@float@debug@info{\MessageBreak#1}}}%
7382 }
7383 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7384 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debu
7385 \newboolean{@biditytfloat@float@recto}
7386 \newcommand{\forcefloatrecto}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@bidityt
7387 \newcommand{\forcefloatfloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@bidityt
7388 \newsavebox{\@biditytfloat@figure@box}
7389 \newsavebox{\@biditytfloat@caption@box}
7390 \let\@biditytfloat@orig@float\@float
7391 \let\@biditytfloat@orig@endfloat\endfloat
7392 \newlength{\@biditytfloat@caption@vertical@offset}
7393 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7394 \newcommand{\@biditytfloat@stored@shortcaption}{}
7395 \newcommand{\@biditytfloat@stored@caption}{}
7396 \newcommand{\@biditytfloat@stored@label}{}
7397 \long\def\@biditytfloat@caption[#1][#2]#3{%
7398   \ifthenelse{\isempty{#1}}%
7399     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7400     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7401   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to l
7402   \gdef\@biditytfloat@stored@caption{#3}%

```



```

7403 }
7404 \newcommand{\@biditytfloat@label}[1]{%
7405   \gdef\@biditytfloat@stored@label{#1}%
7406 }
7407 \newcommand{\@biditytfloat@fps}{}
7408 \newboolean{\@biditytfloat@float@star}
7409 \newlength{\@biditytfloat@float@contents@width}
7410 \newenvironment{\@biditytfloat@float}[3][htbp]%
7411   {% begin \@biditytfloat@float
7412     % Should this float be full-width or just text-width?
7413     \ifthenelse{\equal{#3}{star}}%
7414       {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
7415       {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
7416     % Check page side (recto/verso) and store detected value -- can be overridden in environm
7417     \@biditytfloat@checkoddpage%
7418     \ifthenelse{\boolean{\@biditytfloat@odd@page}}%
7419       {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug{Dete
7420       {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug{Det
7421     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7422     \renewcommand{\@biditytfloat@fps}{#1}%
7423     \@biditytfloat@float@debug{Allowed positions: [#1]}%
7424     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7425       {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bot
7426       {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [top
7427     % Capture the contents of the \caption and \label commands to use later
7428     \global\let\@biditytfloat@orig@caption\caption%
7429     \global\let\@biditytfloat@orig@label\label%
7430     \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[ ] [Opt]}}%
7431     \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
7432     % Handle subfigure package compatibility
7433     \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7434       \bidi@patchcmd{\subfigure}{%
7435         \let\subfig@oldlabel=\label
7436         }{%
7437         \let\subfig@oldlabel=\@biditytfloat@orig@label
7438         }
7439       {}
7440       {}
7441       \let\subtable=\subfigure
7442     }{}% subfigure package is not loaded
7443     \@biditytfloat@orig@float{#2}[#1]%
7444     \ifthenelse{\boolean{\@biditytfloat@float@star}}%
7445       {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7446       {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7447     \begin{lrbox}{\@biditytfloat@figure@box}%
7448     \begin{minipage}[floatalignment]{\@biditytfloat@float@contents@width}\hbox{}%
7449 }{% end \@biditytfloat@float
7450   \par\hbox{} \vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7451   \end{minipage}%
7452 \end{lrbox}%
7453 % build the caption box
7454 \begin{lrbox}{\@biditytfloat@caption@box}%
7455 \begin{minipage}[floatalignment]{\marginparwidth}\hbox{}%
7456 \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}{}}{\@biditytfloat@orig@cap

```



```

7457     \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}{}}{\@biditytfloat@orig@label
7458     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7459     \end{minipage}%
7460 \end{lrbox}%
7461 % now typeset the stored boxes
7462 \begin{fullwidth}%
7463     \begin{minipage}[\floatalignment]{\linewidth}%
7464         \ifthenelse{\boolean{@biditytfloat@float@star}}%
7465             {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7466             {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7467         \end{minipage}%
7468     \end{fullwidth}%
7469 \@biditytfloat@orig@endfloat% end original LaTeX float environment
7470 % output debug info
7471 \ifthenelse{\boolean{@biditytfloat@debug}}{%
7472     \typeout{^^J^^J----- biditytfloat package float information -----}%
7473     \ifthenelse{\equal{\@biditytfloat@stored@label}{}}%
7474         {\typeout{Warning: Float unlabeled!}}%
7475         {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7476     \typeout{Page number: [\thepage]}%
7477     \def\MessageBreak{^^J}%
7478     \typeout{\@biditytfloat@float@debug@info}%
7479     \ifthenelse{\boolean{@biditytfloat@symmetric}}%
7480         {\typeout{Symmetric: [true]}}%
7481         {\typeout{Symmetric: [false]}}%
7482     \typeout{-----^^J^^J}%
7483 }{}%
7484 % reset commands and temp boxes and captions
7485 \gdef\@biditytfloat@float@debug@info{}%
7486 \let\caption\@biditytfloat@orig@caption%
7487 \let\label\@biditytfloat@orig@label%
7488 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
7489 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7490 \gdef\@biditytfloat@stored@shortcaption{}%
7491 \gdef\@biditytfloat@stored@caption{}%
7492 \gdef\@biditytfloat@stored@label{}%
7493 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7494 }
7495 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7496 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}\OR\boolean{@biditytfloat@float@recto
7497 % asymmetric or page is odd, so caption is on the right
7498 \hbox{%
7499     \usebox{#2}%
7500     \hspace{\marginparsep}%
7501     \smash{\raisebox{#1}{\usebox{#3}}}%
7502 }
7503 \@biditytfloat@float@debug{Caption position: [right]}%
7504 }{% symmetric pages and page is even, so caption is on the left
7505 \hbox{%
7506     \smash{\raisebox{#1}{\usebox{#3}}}%
7507     \hspace{\marginparsep}%
7508     \usebox{#2}%
7509 }
7510 \@biditytfloat@float@debug{Caption position: [left]}%

```



```

7511 }%
7512 }
7513 \newcommand{@@bituftefloat@float@fullwidth}[3] [Opt]{%
7514 \ifthenelse{equal{\floatalignment}{b}}{%
7515     {% place caption above figure
7516         \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@
7517             {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@bituftefloat@float@debug
7518             {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@bituftefloat@float@debug
7519         }}% place caption below figure
7520         \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@
7521             {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@bituftefloat@float@debug
7522             {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@bituftefloat@float@debug
7523     }}%
7524 }
7525 \renewenvironment{figure}[1] [htbp]%
7526 {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{}}
7527 {\end{@bituftefloat@float}}
7528 \renewenvironment{table}[1] [htbp]
7529 {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{}}
7530 {\end{@bituftefloat@float}}
7531 \renewenvironment{figure*}[1] [htbp]%
7532 {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{star}}
7533 {\end{@bituftefloat@float}}
7534 \renewenvironment{table*}[1] [htbp]%
7535 {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{star}}
7536 {\end{@bituftefloat@float}}
7537 \newenvironment{fullwidth}
7538 {\ifthenelse{\boolean{@bituftefloat@symmetric}}{%
7539     {\ifthenelse{\boolean{@bituftefloat@changeage}}{\begin{adjustwidth*}{- \@bituftef
7540     {\begin{adjustwidth}{}{- \@bituftefloat@overhang}}}%
7541 }}%
7542 {\ifthenelse{\boolean{@bituftefloat@symmetric}}{%
7543     {\ifthenelse{\boolean{@bituftefloat@changeage}}{\end{adjustwidth*}}{\end{adjustwidth}}
7544     {\end{adjustwidth}}}%
7545 }}
7546 \long\def\@caption#1[#2]#3{%
7547     \par%
7548     \addcontentsline{\csname ext@#1\endcsname}{#1}%
7549     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7550     \begingroup%
7551     \@parboxrestore%
7552     \if@minipage%
7553         \setminipage%
7554     \fi%
7555     \@bituftefloat@caption@font\@bituftefloat@caption@justification%
7556     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7557     \@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7558     \endgroup}
7559 %%
7560 % Turns newlines into spaces. Based on code from the `titlesec` package.
7561 \DeclareRobustCommand{@bitufteheading@newlinetospace}{%
7562     \ifstar{\@bitufteheading@newlinetospace@i}{\@bitufteheading@newlinetospace@i}%
7563 }
7564 \def\@bitufteheading@newlinetospace@i{%

```



```

7565 \ifdim\lastskip>\z@\else\space\fi
7566 \ignorespaces%
7567 }
7568 \DeclareRobustCommand{\newlinetospace}[1]{%
7569 \let\@bidityfteheading@orig@cr\% save the original meaning of \
7570 \def\{\@bidityfteheading@newlinetospace}% turn \ and \* into \space
7571 \let\newline\% turn \newline into \space
7572 #1%
7573 \let\{\@bidityfteheading@orig@cr% revert to original meaning of \
7574 }
7575 \RequirePackage{fancyhdr}
7576 \pagestyle{fancy}
7577 \AtBeginDocument{%
7578 \ifthenelse{\boolean{@bidityftefloat@symmetric}}
7579 {\fancyhfoffset[LE,RO]{\@bidityftefloat@overhang}}
7580 {\fancyhfoffset[RE,RO]{\@bidityftefloat@overhang}}
7581 }
7582 % The running heads/feet don't have rules
7583 \renewcommand{\headrulewidth}{0pt}
7584 \renewcommand{\footrulewidth}{0pt}
7585 % The 'fancy' page style is the default style for all pages.
7586 \fancyhf{} % clear header and footer fields
7587 \ifthenelse{\boolean{@bidityftefloat@symmetric}}
7588 {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7589 \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7590 {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7591 % The `plain' page style is used on chapter opening pages.
7592 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7593 % bottom of pages -- the folios are unexpressed.
7594 \fancypagestyle{plain}{
7595 \fancyhf{} % clear header and footer fields
7596 % Uncomment the following five lines of code if you want the opening page
7597 % of the chapter to express the folio in the lower outside corner.
7598 % \ifthenelse{\boolean{@bidityftefloat@symmetric}}
7599 % {\fancyfoot[LE,RO]{\thepage}}
7600 % {\fancyfoot[RE,RO]{\thepage}}
7601 }
7602 % The `empty' page style suppresses all headers and footers.
7603 % It's used on title pages and `intentionally blank' pages.
7604 \fancypagestyle{empty}{
7605 \fancyhf{} % clear header and footer fields
7606 }
7607 \def\morefloats{% provides a total of 52 floats
7608 \ifthenelse{\isundefined{\bx@S}}{%
7609 \bidityftefloatDebugInfoNL{Adding 34 more float slots.}
7610 \newinsert\bx@S
7611 \newinsert\bx@T
7612 \newinsert\bx@U
7613 \newinsert\bx@V
7614 \newinsert\bx@W
7615 \newinsert\bx@X
7616 \newinsert\bx@Y
7617 \newinsert\bx@Z
7618 \newinsert\bx@a

```



```

7619 \newinsert\bx@b
7620 \newinsert\bx@c
7621 \newinsert\bx@d
7622 \newinsert\bx@e
7623 \newinsert\bx@f
7624 \newinsert\bx@g
7625 \newinsert\bx@h
7626 \newinsert\bx@i
7627 \newinsert\bx@j
7628 \newinsert\bx@k
7629 \newinsert\bx@l
7630 \newinsert\bx@m
7631 \newinsert\bx@n
7632 \newinsert\bx@o
7633 \newinsert\bx@p
7634 \newinsert\bx@q
7635 \newinsert\bx@r
7636 \newinsert\bx@s
7637 \newinsert\bx@t
7638 \newinsert\bx@u
7639 \newinsert\bx@v
7640 \newinsert\bx@w
7641 \newinsert\bx@x
7642 \newinsert\bx@y
7643 \newinsert\bx@z
7644 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7645 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7646 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7647 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7648 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7649 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7650 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7651 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7652 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7653 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7654 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7655 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7656 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7657 \ifthenelse{\isundefined{\bx@AA}}{%
7658 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7659 \newinsert\bx@AA
7660 \newinsert\bx@BB
7661 \newinsert\bx@CC
7662 \newinsert\bx@DD
7663 \newinsert\bx@EE
7664 \newinsert\bx@FF
7665 \newinsert\bx@GG
7666 \newinsert\bx@HH
7667 \newinsert\bx@II
7668 \newinsert\bx@JJ
7669 \newinsert\bx@KK
7670 \newinsert\bx@LL
7671 \newinsert\bx@MM
7672 \newinsert\bx@NN

```



```

7673 \newinsert\bx@OO
7674 \newinsert\bx@PP
7675 \newinsert\bx@QQ
7676 \newinsert\bx@RR
7677 \newinsert\bx@SS
7678 \newinsert\bx@TT
7679 \newinsert\bx@UU
7680 \newinsert\bx@VV
7681 \newinsert\bx@WW
7682 \newinsert\bx@XX
7683 \newinsert\bx@YY
7684 \newinsert\bx@ZZ
7685 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7686 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7687 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7688 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7689 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7690 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7691 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7692 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7693 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7694 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7695 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7696 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7697 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7698 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7699 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7700 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7701 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7702 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7703 }{%
7704 \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7705 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
7706 }%
7707 }%
7708 }
7709 \newboolean{@biditytfloat@packages@subfigure}
7710 \setboolean{@biditytfloat@packages@subfigure}{false}
7711 \AtBeginDocument{%
7712 \@ifpackageloaded{subfigure}
7713 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7714 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
7715 }
7716 \AtBeginDocument{%
7717 \@ifpackageloaded{float}{%
7718 % Save the redefined float environment (instead of the LaTeX float environment)
7719 \let\@biditytfloat@orig@float\float
7720 \let\@biditytfloat@orig@endfloat\endfloat
7721
7722 % Define Tuftian float styles (with the caption in the margin)
7723 \newcommand{\floatc@biditytfloatplain}[2]{%
7724 \begin{lrbox}{\@biditytfloat@caption@box}%
7725 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7726 \@biditytfloat@caption@font{\@fs@font #1:} #2\par%

```



```

7727     \end{minipage}%
7728     \end{lrbox}%
7729     \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7730 }
7731 \newcommand{\fs@biditytfloatplain}{%
7732   \def\@fs@cfont{\@biditytfloat@caption@font}%
7733   \let\@fs@capt\floatc@biditytfloatplain%
7734   \def\@fs@pre{}%
7735   \def\@fs@post{}%
7736   \def\@fs@mid{}%
7737   \let\@fs@iftopcapt\iftrue%
7738 }
7739 \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7740 \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7741 \newcommand\floatc@biditytfloatruled[2]{%
7742   {\@fs@cfont #1} #2\par%
7743 }
7744 \newcommand\fs@biditytfloatruled{%
7745   \def\@fs@cfont{\@biditytfloat@caption@font}%
7746   \let\@fs@capt\floatc@biditytfloatplain%
7747   \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7748   \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7749   \def\@fs@mid{}%
7750   \let\@fs@iftopcapt\iftrue%
7751 }
7752 \newcommand\fs@biditytfloatboxed{%
7753   \def\@fs@cfont{}%
7754   \let\@fs@capt\floatc@biditytfloatplain%
7755   \def\@fs@pre{%
7756     \setbox\@currbox\vbox{\hbadness10000
7757     \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7758     \hrule \hbox to\hsize{\vrule\kern3pt
7759     \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7760   }%
7761   \def\@fs@mid{\kern2pt}%
7762   \def\@fs@post{}%
7763   \let\@fs@iftopcapt\iftrue%
7764 }
7765 }{%
7766   % Nothing to do
7767 }
7768 }
7769 \AtBeginDocument{%
7770   \ifpackageloaded{algorithm}{%
7771     % Set the float style to the Tuftian version
7772     \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\AL
7773       \biditytfloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBrea
7774       \floatstyle{biditytfloat\ALG@floatstyle}%
7775       \restylefloat{algorithm}%
7776     }{}%
7777   }{%
7778     % Nothing to do
7779   }
7780 }

```




```
7781 \PassOptionsToPackage{caption=false}{subfig}
```

54 File `bidituftesidenote.sty`

```
7782 \NeedsTeXFormat{LaTeX2e}
7783 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7784 bidi implementation of tufte sidenote]
7785 \RequirePackage{xifthen}
7786 \RequirePackage{ragged2e}
7787 \RequirePackage{setspace}
7788 \RequirePackage{biditools}
7789 \def\bidituftesidenotemarginpar{%
7790   \ifhmode
7791     \@bsphack
7792     \@floatpenalty -\@Mii
7793   \else
7794     \@floatpenalty-\@Miii
7795   \fi
7796   \ifinner
7797     \@parmoderr
7798     \@floatpenalty\z@
7799   \else
7800     \@next\@currbox\@freelist{}{}%
7801     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7802     {\@floatpenalty\z@
7803       \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7804   \fi
7805   \@ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
7806 \long\def\@bidituftesidenotexmpar[#1]#2{%
7807   \@bidituftesidenotesavemarbox\@marbox{#1}%
7808   \@bidituftesidenotesavemarbox\@currbox{#2}%
7809   \@xympar}
7810 \long\def\@bidituftesidenoteympar#1{%
7811   \@bidituftesidenotesavemarbox\@marbox{#1}%
7812   \global\setbox\@currbox\copy\@marbox
7813   \@xympar}
7814 \long\def \@bidituftesidenotesavemarbox #1#2{%
7815   \global\setbox #1%
7816     \color@vbox
7817     \vtop{%
7818       \hsize\marginparwidth
7819       \@parboxrestore
7820       \@bidituftesidenotemarginparreset
7821       #2%
7822       \@minipagefalse
7823       \outer@nobreak
7824     }%
7825   \color@endbox
7826 }
7827 \def \@bidituftesidenotemarginparreset {%
7828   \reset@font
7829   \normalsize
7830   \@minipagetrue
7831   \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
```



```

7832 }
7833 \def\LTRbidituftesidenotemarginpar{%
7834   \ifhmode
7835     \@bsphack
7836     \@floatpenalty -\@Mii
7837   \else
7838     \@floatpenalty-\@Miii
7839   \fi
7840   \ifinner
7841     \@parmoderr
7842     \@floatpenalty\z@
7843   \else
7844     \@next\@currbox\@freelist{}{}%
7845     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7846     {\@floatpenalty\z@
7847       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7848   \fi
7849   \@ifnextchar [\@LTRbidituftesidenotexmpar\@LTRbidituftesidenoteympar}
7850 \long\def\@LTRbidituftesidenotexmpar[#1]#2{%
7851   \@LTRbidituftesidenotesavemarbox\@marbox{#1}%
7852   \@LTRbidituftesidenotesavemarbox\@currbox{#2}%
7853   \@xympar}
7854 \long\def\@LTRbidituftesidenoteympar#1{%
7855   \@LTRbidituftesidenotesavemarbox\@marbox{#1}%
7856   \global\setbox\@currbox\copy\@marbox
7857   \@xympar}
7858 \long\def \@LTRbidituftesidenotesavemarbox #1#2{%
7859   \global\setbox #1%
7860     \color@vbox
7861     \vtop{%
7862       \hsize\marginparwidth
7863       \@parboxrestore
7864       \@LTRbidituftesidenotemarginparreset
7865       #2%
7866       \@minipagefalse
7867       \outer@nobreak
7868     }%
7869   \color@endbox
7870 }
7871 \def \@LTRbidituftesidenotemarginparreset {%
7872   \reset@font
7873   \normalsize
7874   \@minipagetrue
7875   \everypar{\@minipagefalse\everypar{}\beginL}%
7876 }
7877 \def\RTLbidituftesidenotemarginpar{%
7878   \ifhmode
7879     \@bsphack
7880     \@floatpenalty -\@Mii
7881   \else
7882     \@floatpenalty-\@Miii
7883   \fi
7884   \ifinner
7885     \@parmoderr

```



```

7886 \floatpenalty\z@
7887 \else
7888 \@next\@currbox\@freelist{}{}%
7889 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7890 {\floatpenalty\z@
7891 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7892 \fi
7893 \ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7894 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7895 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7896 \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7897 \@xympar}
7898 \long\def\@RTLbidityftesidenoteympar#1{%
7899 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7900 \global\setbox\@currbox\copy\@marbox
7901 \@xympar}
7902 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7903 \global\setbox #1%
7904 \color@vbox
7905 \vtop{%
7906 \hsize\marginparwidth
7907 \@parboxrestore
7908 \@RTLbidityftesidenotemarginparreset
7909 #2%
7910 \@minipagefalse
7911 \outer@nobreak
7912 }%
7913 \color@endbox
7914 }
7915 \def \@RTLbidityftesidenotemarginparreset {%
7916 \reset@font
7917 \normalsize
7918 \@minipagetrue
7919 \everypar{\@minipagefalse\everypar{} \beginR}%
7920 }
7921 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7922 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7923 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7924 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7925 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7926 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7927 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
7928 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7929 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
7930 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7931 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7932 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
7933 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
7934 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
7935 \newcommand*{\setRTLSidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
7936 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
7937 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
7938 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
7939 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}

```



```

7940 \newcommand*\setLTRcitationfont}[1]{\renewcommand*\@bidityftesidenote@LTRcitation@font}#{#1
7941 \newcommand*\setRTLcitationfont}[1]{\renewcommand*\@bidityftesidenote@RTLcitation@font}#{#1
7942 \newcommand*\@bidityftesidenote@margin@justification}{\@bidityftesidenote@justification@
7943 \newcommand*\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification
7944 \newcommand*\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@
7945 \newcommand*\@bidityftesidenote@justification@autodetect}{\justifying}%
7946 \newcommand{\@bidityftesidenote@margin@par}{%
7947 \setlength{\RaggedRightParindent}{0.5pc}%
7948 \setlength{\JustifyingParindent}{0.5pc}%
7949 \setlength{\parindent}{0.5pc}%
7950 \setlength{\parskip}{0pt}%
7951 }
7952 %%
7953 % Globally sets the length
7954 \@ifundefined{gsetlength}{%
7955 \newcommand*\gsetlength}[2]{%
7956 \setlength{#1}{#2}%
7957 \global#1=#1\relax%
7958 }%
7959 }{}
7960
7961 %%
7962 % A function that removes leading and trailing spaces from the supplied macro.
7963 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7964 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7965 % being trimmed of leading and trailing white space.
7966 \catcode\Q=3
7967 \def\@bidityftesidenote@trim@spaces#1{%
7968 % Use grouping to emulate a multi-token afterassignment queue
7969 \begingroup%
7970 % Put \toks 0 {' into the afterassignment queue
7971 \aftergroup\toks\aftergroup0\aftergroup{%
7972 % Apply \trimb to the replacement text of #1, adding a leading
7973 % \noexpand to prevent brace stripping and to serve another purpose
7974 % later.
7975 \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
7976 % Transfer the trimmed text back into #1.
7977 \edef#1{\the\toks0}%
7978 }
7979 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
7980 % clean up any leftover bizarre Qs, and trim a leading space. In
7981 % order for \trimc to work properly we need to put back a Q first.
7982 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
7983 % Execute \vfuzz assignment to remove leading space; the \noexpand
7984 % will now prevent unwanted expansion of a macro or other expandable
7985 % token at the beginning of the trimmed text. The \endgroup will feed
7986 % in the \aftergroup tokens after the \vfuzz assignment is completed.
7987 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
7988 \catcode\Q=11
7989 %%
7990 % Citations should go in the margin as sidenotes
7991
7992 \RequirePackage{natbib}
7993 \RequirePackage{bibentry} % allows bibitems to be typeset outside the bibliography env

```



```

7994 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
7995 \renewcommand\BR@b@bibitem[2] [] {%
7996   \ifthenelse{\isempty{#1}}{%
7997     {\BR@b@bibitem{#2}}%
7998     {\BR@b@bibitem[#1]{#2}}%
7999   \BR@c@bibitem{#2}%
8000 }
8001 \bidi@AtEndPreamble{\nobibliography*}           % pre-loads the bibliography keys
8002 %%
8003 % Normal \cite behavior
8004 \newcounter{@bidituftesidenote@num@bibkeys}%
8005 \newcommand{\@bidituftesidenote@normal@cite}[2] [Opt] {%
8006   % Snag the last bibentry in the list for later comparison
8007   \let\@temp@last@bibkey\@empty%
8008   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8009   \sidenote[] [#1] {%
8010     % Loop through all the bibentries, separating them with semicolons and spaces
8011     \normalsize\normalfont\@bidituftesidenote@citation@font%
8012     \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8013     \@for\@temp@bibkeyx:=#2\do{%
8014       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8015         {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{-}{and\ }}%
8016         \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8017         \bibentry{\@temp@bibkeyx}}%
8018         {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8019         \bibentry{\@temp@bibkeyx};\ }%
8020     \stepcounter{@bidituftesidenote@num@bibkeys}%
8021   }%
8022 }%
8023 }
8024 \newcommand{\@bidituftelTRSsidenote@normal@cite}[2] [Opt] {%
8025   % Snag the last bibentry in the list for later comparison
8026   \let\@temp@last@bibkey\@empty%
8027   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8028   \LTRsidenote[] [#1] {%
8029     % Loop through all the bibentries, separating them with semicolons and spaces
8030     \normalsize\normalfont\@bidituftesidenote@LTRcitation@font%
8031     \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8032     \@for\@temp@bibkeyx:=#2\do{%
8033       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8034         {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{-}{and\ }}%
8035         \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8036         \bibentry{\@temp@bibkeyx}}%
8037         {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8038         \bibentry{\@temp@bibkeyx};\ }%
8039     \stepcounter{@bidituftesidenote@num@bibkeys}%
8040   }%
8041 }%
8042 }
8043 \newcommand{\@biditufterTLsidenote@normal@cite}[2] [Opt] {%
8044   % Snag the last bibentry in the list for later comparison
8045   \let\@temp@last@bibkey\@empty%
8046   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8047   \RTLsidenote[] [#1] {%

```



```

8048 % Loop through all the bibentries, separating them with semicolons and spaces
8049 \normalsize\normalfont\@bidityftesidenote@citation@font%
8050 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8051 \@for\@temp@bibkeyx:=#2\do{%
8052   \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8053     {\ifthenelse{equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8054     \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8055     \bibentry{\@temp@bibkeyx}}%
8056     {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8057     \bibentry{\@temp@bibkeyx};\ }%
8058   \stepcounter{@bidityftesidenote@num@bibkeys}%
8059 }%
8060 }%
8061 }
8062 %%
8063 % Macros for holding the list of cite keys until after the \sidenote
8064 \gdef\@bidityftesidenote@citations{}% list of cite keys
8065 \newcommand\@bidityftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
8066 \ifx\@bidityftesidenote@citations\@empty\else
8067   \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
8068 \fi
8069 \g@addto@macro\@bidityftesidenote@citations{#1}
8070 }
8071 \newcommand{\@bidityftesidenote@print@citations}[1][0pt]{% puts the citations in a margin no
8072 % Snag the last bibentry in the list for later comparison
8073 \let\@temp@last@bibkey\@empty%
8074 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8075 \marginpar{%
8076   \hbox{} \vspace*{#1}%
8077   \@bidityftesidenote@citation@font%
8078   \@bidityftesidenote@citation@justification%
8079   \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8080   \vspace*{-1\baselineskip}%
8081   % Loop through all the bibentries, separating them with semicolons and spaces
8082   \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8083   \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8084     \ifthenelse{equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8085       {\ifthenelse{equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8086       \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8087       \bibentry{\@temp@bibkeyx}}%
8088       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8089       \bibentry{\@temp@bibkeyx};\ }%
8090     \stepcounter{@bidityftesidenote@num@bibkeys}%
8091   }%
8092 }%
8093 }
8094 %%
8095 % \cite behavior when executed within a sidenote
8096 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8097 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8098   \@bidityftesidenote@add@citation{#1}
8099 }
8100 %%
8101 % Set the default \cite style. This is set and reset by the \sidenote command.

```



```

8102 \let\cite\@bidityftesidenote@normal@cite
8103 \let\LTRcite\@bidityftteLTRsidenote@normal@cite
8104 \let\RTLcite\@bidityftteRTLSidenote@normal@cite
8105 %%
8106 % Transform existing \footnotes into \sidenotes
8107 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8108 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8109 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8110 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8111 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8112 % sidenote's text block.
8113 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark#1{\@textsuperscript{\@bidityftesidenote
8114 % Set the in-text footnote mark in the same typeface as the body text itself.
8115 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8116 \providecommand*\@multiplefootnotemarker}{3sp}
8117 \providecommand*\multfootsep}{,}
8118 \bidi@patch@AfterPackage{bidi}{%
8119 \renewcommand{\@footnotemark}{%
8120 \leavevmode%
8121 \ifhmode%
8122 \edef\@x@sf{\the\spacefactor}%
8123 \@bidityftesidenote@check@multiple@sidenotes%
8124 \nobreak%
8125 \fi%
8126 \@makefnmark%
8127 \ifhmode\spacefactor\@x@sf\fi%
8128 \relax%
8129 }%
8130 }
8131 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8132 \ifdim\lastkern=\@multiplefootnotemarker\relax%
8133 \edef\@x@sf{\the\spacefactor}%
8134 \unkern%
8135 \textsuperscript{\multfootsep}%
8136 \spacefactor\@x@sf\relax%
8137 \fi
8138 }
8139 \bidi@patch@AfterPackage{bidi}{%
8140 \renewcommand\@footnotetext[2][0pt]{%
8141 \bidityftesidenotemarginpar{%
8142 \hbox{} \vspace*{#1}%
8143 \def\baselinestretch {\set@space@singlespace}%
8144 \reset@font%
8145 \bidi@@footnotetext@font% \reset@font\footnotesize%
8146 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8147 \vspace*{-1\baselineskip}\noindent%
8148 \protected@edef\@currentlabel{%
8149 \csname p@footnote\endcsname\@thefnmark%
8150 }%
8151 \color@begingroup%
8152 \@makefnmark%
8153 \ignorespaces#2%
8154 }%
8155 \color@endgroup%

```



```

8156 }%
8157 }%
8158 \renewcommand\@LTRfootnotetext[2][Opt]{%
8159   \LTRbidityftesidenotemarginpar{%
8160     \hbox{ }\vspace*{#1}%
8161     \def\baselinestretch {\set@space@singlespace}%
8162     \reset@font%
8163     \bidi@LTRfootnotetext@font% \reset@font\footnotesize%
8164     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8165     \vspace*{-1\baselineskip}\noindent%
8166     \protected@edef\@currentlabel{%
8167       \csname p@footnote\endcsname\@thefnmark%
8168     }%
8169     \color@begingroup%
8170       \@makefntext{%
8171         \ignorespaces#2%
8172       }%
8173     \color@endgroup%
8174   }%
8175 }%
8176 \renewcommand\@RTLfootnotetext[2][Opt]{%
8177   \RTLbidityftesidenotemarginpar{%
8178     \hbox{ }\vspace*{#1}%
8179     \def\baselinestretch {\set@space@singlespace}%
8180     \reset@font%
8181     \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8182     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8183     \vspace*{-1\baselineskip}\noindent%
8184     \protected@edef\@currentlabel{%
8185       \csname p@footnote\endcsname\@thefnmark%
8186     }%
8187     \color@begingroup%
8188       \@makefntext{%
8189         \ignorespaces#2%
8190       }%
8191     \color@endgroup%
8192   }%
8193 }%
8194 }
8195 %
8196 % Define \sidenote command. Can handle \cite.
8197 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8198 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8199 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8200 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8201   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8202   \gdef\@bidityftesidenote@citations{}% clear out any old citations
8203   \ifthenelse{\NOT\isempty{#2}}{%
8204     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8205   }{%
8206     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8207   }%
8208   \ifthenelse{\isempty{#1}}{%
8209     % no specific footnote number provided

```




```

8210 \stepcounter\@mpfn%
8211 \protected@xdef\@thefnmark{\thempfn}%
8212 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8213 }-%
8214 % specific footnote number provided
8215 \begingroup%
8216 \csname c@\@mpfn\endcsname #1\relax%
8217 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8218 \endgroup%
8219 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8220 }%
8221 \@bidityftesidenote@print@citations% print any citations
8222 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8223 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8224 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8225 \unskip\ignorespaces% remove extra white space
8226 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8227 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8228 }
8229 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8230 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8231 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8232 \ifthenelse{\NOT\isempty{#2}}{%
8233 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8234 }-%
8235 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8236 }%
8237 \ifthenelse{\isempty{#1}}{%
8238 % no specific footnote number provided
8239 \stepcounter\@mpfn%
8240 \protected@xdef\@thefnmark{\thempfn}%
8241 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8242 }-%
8243 % specific footnote number provided
8244 \begingroup%
8245 \csname c@\@mpfn\endcsname #1\relax%
8246 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8247 \endgroup%
8248 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8249 }%
8250 \@bidityftesidenote@print@citations% print any citations
8251 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8252 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8253 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8254 \unskip\ignorespaces% remove extra white space
8255 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8256 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8257 }
8258 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8259 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8260 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8261 \ifthenelse{\NOT\isempty{#2}}{%
8262 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8263 }-%

```



```

8264 \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
8265 }%
8266 \ifthenelse{\isempty{#1}}{%
8267 % no specific footnote number provided
8268 \stepcounter\@mpfn%
8269 \protected@xdef\@thefnmark{\thempfn}%
8270 \@footnotemark\@RTLfootnotetext [\@bidituftesidenote@sidenote@vertical@offset]{#3}%
8271 }{%
8272 % specific footnote number provided
8273 \begingroup%
8274 \csname c@\@mpfn\endcsname #1\relax%
8275 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8276 \endgroup%
8277 \@footnotemark\@RTLfootnotetext [\@bidituftesidenote@sidenote@vertical@offset]{#3}%
8278 }%
8279 \@bidituftesidenote@print@citations% print any citations
8280 \let\cite\@bidituftesidenote@normal@cite% go back to using normal in-text \cite comm
8281 \let\LTRcite\@bidituftesidenote@normal@cite% go back to using normal in-text \LTR
8282 \let\RTLcite\@bidituftesidenote@normal@cite% go back to using normal in-text \RTL
8283 \unskip\ignorespaces% remove extra white space
8284 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8285 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8286 }
8287 \newcommand{\sidenote}{\optparams{\@bidituftesidenote@sidenote}{[] [Opt]}}
8288 \newcommand{\LTRsidenote}{\optparams{\@LTRbidituftesidenote@sidenote}{[] [Opt]}}
8289 \newcommand{\RTLsidenote}{\optparams{\@RTLbidituftesidenote@sidenote}{[] [Opt]}}
8290 \bidi@patch@AfterPackage{bidi}{%
8291 \renewcommand{\footnote}{\optparams{\@bidituftesidenote@sidenote}{[] [Opt]}}%
8292 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidituftesidenote@sidenote}{[] [Opt]}}%
8293 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidituftesidenote@sidenote}{[] [Opt]}}%
8294 }
8295 %%
8296 % Sidenote without the footnote mark
8297 \newcommand\marginnote [2] [Opt]{%
8298 \let\cite\@bidituftesidenote@infootnote@cite% use the in-sidenote \cite command
8299 \gdef\@bidituftesidenote@citations{}% clear out any old citations
8300 \bidituftesidenotemarginpar{\hbox{} \vspace*{#1}\@bidituftesidenote@marginnote@font\@biditu
8301 \@bidituftesidenote@print@citations% print any citations
8302 \let\cite\@bidituftesidenote@normal@cite% go back to using normal in-text \cite comm
8303 \let\LTRcite\@bidituftesidenote@normal@cite% go back to using normal in-text \LTR
8304 \let\RTLcite\@bidituftesidenote@normal@cite% go back to using normal in-text \RTL
8305 }
8306 \newcommand\LTRmarginnote [2] [Opt]{%
8307 \let\cite\@bidituftesidenote@infootnote@cite% use the in-sidenote \cite command
8308 \gdef\@bidituftesidenote@citations{}% clear out any old citations
8309 \LTRbidituftesidenotemarginpar{\hbox{} \vspace*{#1}\@bidituftesidenote@LTRmarginnote@font\@
8310 \@bidituftesidenote@print@citations% print any citations
8311 \let\cite\@bidituftesidenote@normal@cite% go back to using normal in-text \cite comm
8312 \let\LTRcite\@bidituftesidenote@normal@cite% go back to using normal in-text \LTR
8313 \let\RTLcite\@bidituftesidenote@normal@cite% go back to using normal in-text \RTL
8314 }
8315 \newcommand\RTLmarginnote [2] [Opt]{%
8316 \let\cite\@bidituftesidenote@infootnote@cite% use the in-sidenote \cite command
8317 \gdef\@bidituftesidenote@citations{}% clear out any old citations

```



```

8318 \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\
8319 \@bidityftesidenote@print@citations%          print any citations
8320 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8321 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8322 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8323 }

```

55 File bidityftetoc.sty

```

8324 \NeedsTeXFormat{LaTeX2e}
8325 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8326 bidi implementation of tuftes toc]
8327 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8328 \newcommand{\@bidityftetoc@pkgnam}{bidityftetoc}
8329 \newcommand{\@bidityftetoc@Error}[2]{\PackageError{\@bidityftetoc@pkgnam}{#1}{#2}}
8330 %%
8331 % Turn off section numbering
8332 \setcounter{secnumdepth}{-1}
8333 \newboolean{@bidityftetoc@toc}
8334 \setboolean{@bidityftetoc@toc}{true}
8335 \DeclareOption{notoc}{\setboolean{@bidityftetoc@toc}{false}}
8336 \DeclareOption{toc}{\setboolean{@bidityftetoc@toc}{true}}
8337 \ProcessOptions
8338 %%
8339 % Make Tuftian-style section headings and TOC formatting
8340 \bidi@patch@AfterPackage{bidi}{%
8341 \titleformat{\chapter}%
8342 [display]% shape
8343 {\relax\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8344 {\itshape\huge\thechapter}% label
8345 {Opt}% horizontal separation between label and title body
8346 {\huge\rmfamily\itshape}% before the title body
8347 [\ifthenelse{\NOT\boolean{@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the title
8348 \titleformat{\section}%
8349 [hang]% shape
8350 {\normalfont\Large\itshape}% format applied to label+text
8351 {\thesection}% label
8352 {1em}% horizontal separation between label and title body
8353 {}% before the title body
8354 []% after the title body
8355 \titleformat{\subsection}%
8356 [hang]% shape
8357 {\normalfont\large\itshape}% format applied to label+text
8358 {\thesubsection}% label
8359 {1em}% horizontal separation between label and title body
8360 {}% before the title body
8361 []% after the title body
8362 \titleformat{\paragraph}%
8363 [runin]% shape
8364 {\normalfont\itshape}% format applied to label+text
8365 {\theparagraph}% label
8366 {1em}% horizontal separation between label and title body
8367 {}% before the title body
8368 []% after the title body

```



```

8369 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8370 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8371 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8372 }
8373 % Subsubsection and following section headings shouldn't be used.
8374 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8375 \renewcommand\subsubsection{%
8376 \bidityftetocError{\noexpand\subsubsection is undefined by this class.%
8377 \MessageBreak See Robert Bringhurst's _The Elements of
8378 \MessageBreak Typographic Style_, section 4.2.2.
8379 \MessageBreak \noexpand\subsubsection was used}
8380 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8381 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8382 \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8383 }
8384 \renewcommand\subparagraph{%
8385 \bidityftetocError{\noexpand\subparagraph is undefined by this class.%
8386 \MessageBreak See Robert Bringhurst's _The Elements of
8387 \MessageBreak Typographic Style_, section 4.2.2.
8388 \MessageBreak \noexpand\subparagraph was used}
8389 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8390 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8391 \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8392 }
8393 % Formatting for main TOC (printed in front matter)
8394 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8395 \ifthenelse{\boolean{@bidityftetoc@toc}}{%
8396 \bidi@patch@AfterPackage{bidi}{%
8397 \titlecontents{part}% FIXME
8398 [0em] % distance from left margin
8399 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8400 {\contentslabel{2em}} % before w/label (label = ``II'')
8401 {} % before w/o label
8402 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8403 [\end{fullwidth}] % after
8404 \titlecontents{chapter}%
8405 [0em] % distance from left margin
8406 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8407 {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8408 {\hspace*{0em}} % before w/o label
8409 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8410 [\end{fullwidth}] % after
8411 \titlecontents{section}% FIXME
8412 [0em] % distance from left margin
8413 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8414 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8415 {\hspace*{2em}} % before w/o label
8416 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8417 [\end{fullwidth}] % after
8418 \titlecontents{subsection}% FIXME
8419 [0em] % distance from left margin
8420 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8421 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8422 {\hspace*{4em}} % before w/o label

```



```

8423     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8424     [\end{fullwidth}] % after
8425 \titlecontents{paragraph}% FIXME
8426     [0em] % distance from left margin
8427     {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
8428     {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8429     {\hspace*{6em}} % before w/o label
8430     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8431     [\end{fullwidth}] % after
8432 }%
8433 {}
8434 %%
8435 % Format lists of figures/tables
8436 \renewcommand\listoffigures{%
8437   \@ifundefined{chapter}%
8438     {\section*{\listfigurename}}%
8439     {\chapter*{\listfigurename}}%
8440 % \begin{fullwidth}%
8441   \@starttoc{lof}%
8442 % \end{fullwidth}%
8443 }
8444 \renewcommand\listoftables{%
8445   \@ifundefined{chapter}%
8446     {\section*{\listtablename}}%
8447     {\chapter*{\listtablename}}%
8448 % \begin{fullwidth}%
8449   \@starttoc{lot}%
8450 % \end{fullwidth}%
8451 }
8452 \newcommand{\@bidityfttoc@lof@line}[2]{%
8453   % #1 is the figure/table number and its caption text
8454   % #2 is the page number on which the figure/table appears
8455   \leftskip 0.0em
8456   \rightskip 0em
8457   \parfillskip 0em plus 1fil
8458   \parindent 0.0em
8459   \@afterindenttrue
8460   \interlinepenalty\@M
8461   \leavevmode
8462   \@tempdima 2.0em
8463   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8464   \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8465   {#1}\nobreak\qqquad\nobreak#2%
8466   \par%
8467 }
8468 \renewcommand*\l@figure{\@bidityfttoc@lof@line}
8469 \let\l@table\l@figure

```

56 File bidityftgeneralstructure.sty

```

8470 \NeedsTeXFormat{LaTeX2e}
8471 \ProvidesPackage{bidityftgeneralstructure}[2011/06/18 v0.1
8472 bidi implementation of tufte general structure]
8473 \renewcommand\small{%

```



```

8474 \@setfontsize\small\@ixpt{12}%
8475 \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8476 \abovedisplayshortskip \z@ \@plus2\p@
8477 \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8478 \def\@listi{\leftmargin\leftmargini
8479         \topsep 4\p@ \@plus2\p@ \@minus2\p@
8480         \parsep 2\p@ \@plus\p@ \@minus\p@
8481         \itemsep \parsep}%
8482 \belowdisplayskip \abovedisplayskip
8483 }
8484 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
8485 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vipt}
8486 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8487 \renewcommand\Large{\@setfontsize\Large\@xipt{16}}
8488 \renewcommand\LARGE{\@setfontsize\LARGE\@xipt{18}}
8489 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8490 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8491 \setlength\leftmargini {1pc}
8492 \setlength\leftmarginii {1pc}
8493 \setlength\leftmarginiii {1pc}
8494 \setlength\leftmarginiv {1pc}
8495 \setlength\leftmarginv {1pc}
8496 \setlength\leftmarginvi {1pc}
8497 \setlength\labelsep {.5pc}
8498 \setlength\labelwidth {\leftmargini}
8499 \addtolength\labelwidth{-\labelsep}
8500 \setlength{\parindent}{1.0pc}%
8501 \setlength{\parskip}{0pt}%
8502 \RequirePackage{ragged2e}
8503 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8504 % Paragraph indentation and separation for normal text
8505 \newcommand{\@bidiuftegeneralstructure@reset@par}{%
8506 \setlength{\RaggedRightParindent}{1.0pc}%
8507 \setlength{\JustifyingParindent}{1.0pc}%
8508 \setlength{\parindent}{1pc}%
8509 \setlength{\parskip}{0pt}%
8510 }
8511 \@bidiuftegeneralstructure@reset@par
8512 % Require paralist package for tighter lists
8513 \RequirePackage{paralist}
8514 % Add rightmargin to compactenum
8515 \def\@compactenum@{%
8516 \expandafter\list\csname label\@enumctr\endcsname{%
8517 \usecounter{\@enumctr}%
8518 \rightmargin=2em% added this
8519 \parsep\plparsep
8520 \itemsep\plitemsep
8521 \topsep\pltopsep
8522 \partopsep\plpartopsep
8523 \def\makelabel##1{\hss\llap{##1}}}}
8524 %%
8525 % An environment for paragraph-style section
8526 \providecommand\newthought[1]{%
8527 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%

```



```

8528 \noindent\textbf{#1}%
8529 }
8530 %%
8531 % Redefine the display environments (quote, quotation, etc.)
8532 \renewenvironment{verse}
8533     {\let\\@centercr
8534      \list{}{\itemsep \z@
8535              \itemindent -1pc%
8536              \listparindent\itemindent
8537              \rightmargin \leftmargin
8538              \advance\leftmargin 1pc}%
8539      \small%
8540      \item\relax}
8541     {\endlist}
8542 \renewenvironment{quotation}
8543     {\list{}{\listparindent 1pc%
8544             \itemindent \listparindent
8545             \rightmargin \leftmargin
8546             \parsep \z@ \@plus\p@}%
8547     \small%
8548     \item\relax\noindent\ignorespaces}
8549     {\endlist}
8550 \renewenvironment{quote}
8551     {\list{}{\rightmargin\leftmargin}%
8552     \small%
8553     \item\relax}
8554     {\endlist}
8555 % Italicize description run-in headings (instead of the default bold)
8556 \renewcommand*{descriptionlabel}[1]{\hspace\labelsep\normalfont\em #1}
8557 %%
8558 % Redefine \bibsection to not mark the running heads.
8559 % (Code modified from natbib.sty.)
8560 \@ifundefined{chapter}%
8561   {\renewcommand\bibsection{\section*{\refname}}}
8562   {\@ifundefined{NAT@sectionbib}%
8563     {\renewcommand\bibsection{\chapter{\bibname}}}
8564     {\renewcommand\bibsection{\section*{\bibname}}}}
8565 \RequirePackage{multicol}
8566 \renewenvironment{theindex}{%
8567 \@ifundefined{chapter}%
8568   {\section*{\indexname}}%
8569   {\chapter{\indexname}}%
8570 \begin{fullwidth}%
8571 \small%
8572 \parskip0pt%
8573 \parindent0pt%
8574 \let\item\@idxitem%
8575 \begin{multicols}{3}%
8576 }{%
8577 \end{multicols}%
8578 \end{fullwidth}%
8579 }
8580 \AtBeginDocument{%
8581 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%

```



```

8582 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8583 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8584 \renewcommand\indexspace{\par\advspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8585 \newcommand{\lettergroup}[1]{% swallow the letter heading in the index

```

57 File `bidituftehyperref.sty`

```

8586 \NeedsTeXFormat{LaTeX2e}
8587 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8588 bidi implementation of tufte hyperref]
8589 %%
8590 % Color
8591 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8592 \newboolean{@bidituftehyperref@loadhyper}
8593 \setboolean{@bidituftehyperref@loadhyper}{true}
8594 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8595 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8596 \ProcessOptions
8597 %% Loads the hyperref package and sets some default options.
8598 \newcommand{\bidituftehyperrefLoadHyperref}{%
8599 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8600 \hypersetup{%
8601     bookmarksdepth = section,
8602     citecolor = DarkGreen,
8603     linkcolor = DarkBlue,
8604     pagecolor = DarkBlue,
8605     urlcolor = DarkGreen,
8606 }%
8607 }
8608 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8609 \bidituftehyperrefLoadHyperref%
8610 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8611 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8612 }

```

58 File `bidituftetitle.sty`

```

8613 \NeedsTeXFormat{LaTeX2e}
8614 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8615 bidi implementation of tufte title]
8616 \RequirePackage{biditools}
8617 %%
8618 % `titlepage' option -- creates a full title page with \maketitle
8619 \newboolean{@bidituftetitle@titlepage}
8620 \DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
8621 \DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
8622 % Default `book' and `handout' options
8623 \@ifclassloaded{book}{%
8624 \ExecuteOptions{titlepage}}{%
8625 \@ifclassloaded{article}{%
8626 \ExecuteOptions{notitlepage}}%
8627 {}}
8628 \ProcessOptions
8629 %%

```




```

8630 % Modified \title, \author, and \date commands. These store the
8631 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8632 \newcommand{\plaintitle}{}% plain-text-only title
8633 \newcommand{\plainauthor}{}% plain-text-only author
8634 \newcommand{\plainpublisher}{}% plain-text-only publisher
8635 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8636 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8637 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8638 \newcommand{\@publisher}{}% full publisher with \thanks{}
8639 \newcommand{\thedata}{\today}
8640 \bidi@patch@AfterPackage{bidi}{}%
8641 \renewcommand{\thanks}[1]{\footnote{#1}}
8642 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8643 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8644 }
8645 \renewcommand{\title}[2][]{%
8646 \gdef\@title{#2}%
8647 \begingroup%
8648 % TODO store contents of \thanks command
8649 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8650 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8651 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8652 \protected@xdef\thanklesstitle{#2}%
8653 \endgroup%
8654 \ifthenelse{\isempty{#1}}%
8655 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8656 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8657 \@ifundefined{hypersetup}%
8658 {}% hyperref is not loaded; do nothing
8659 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8660 }
8661 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8662 \renewcommand{\author}[2][]{%
8663 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8664 \begingroup%
8665 % TODO store contents of \thanks command
8666 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8667 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8668 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8669 \protected@xdef\thanklessauthor{#2}%
8670 \endgroup%
8671 \ifthenelse{\isempty{#1}}%
8672 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8673 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8674 \@ifundefined{hypersetup}%
8675 {}% hyperref is not loaded; do nothing
8676 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8677 }
8678 \renewcommand{\date}[1]{%
8679 \gdef\@date{#1}%
8680 \begingroup%
8681 % TODO store contents of \thanks command
8682 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8683 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents

```



```

8684 \renewcommand{\RTLthanks}[1]{% swallow \RTLthanks contents
8685 \protected@xdef\thedata{#1}%
8686 \endgroup%
8687 }
8688 %%
8689 % Provides a \publisher command to set the publisher
8690 \newcommand{\publisher}[2] [] {%
8691 \gdef\@publisher{#2}%
8692 \begingroup%
8693 \renewcommand{\thanks}[1]{% swallow \thanks contents
8694 \renewcommand{\LTRthanks}[1]{% swallow \LTRthanks contents
8695 \renewcommand{\RTLthanks}[1]{% swallow \RTLthanks contents
8696 \protected@xdef\thanklesspublisher{#2}%
8697 \endgroup%
8698 \ifthenelse{\isempty{#1}}
8699 {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8700 {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8701 }
8702 %%
8703 % Produces a full title page
8704 \newcommand{\maketitlepage}[0]{%
8705 \cleardoublepage%
8706 {%
8707 \bfseries%
8708 \begin{fullwidth}%
8709 \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8710 \vspace{11.5pc}%
8711 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8712 \vfill%
8713 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8714 \end{fullwidth}%
8715 }
8716 \thispagestyle{empty}%
8717 \clearpage%
8718 }
8719 %%
8720 % Title block
8721 \bidi@AfterEndPreamble{%
8722 \renewcommand{\maketitle}{%
8723 \newpage%
8724 \global\@topnum\z@% prevent floats from being placed at the top of the page
8725 \begingroup%
8726 \setlength{\parindent}{0pt}%
8727 \setlength{\parskip}{4pt}%
8728 \let\@title\@empty%
8729 \let\@author\@empty%
8730 \let\@date\@empty%
8731 \gdef\@title{\LARGE\itshape\@title\par}%
8732 \gdef\@author{\Large\itshape\@author\par}%
8733 \gdef\@date{\Large\itshape\@date\par}%
8734 \@title%
8735 \@author%
8736 \@date%
8737 \endgroup%

```



```

8738 \thispagestyle{plain}% suppress the running head
8739 }%
8740 }
8741 %%
8742 % Title page (if the `titlepage' option was passed to the bidentuftetitle-handout
8743 % class.)
8744 \bidi@AfterEndPreamble{%
8745 \ifthenelse{\boolean{@bidentuftetitle@titlepage}}
8746 {\renewcommand{\maketitle}{\maketitlepage}}
8747 {}
8748 }
8749 %%
8750 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8751 % without headers and footers
8752 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8753 \hbox{}
8754 %\vspace*{\fill}
8755 %\begin{center}
8756 % This page intentionally contains only this sentence.
8757 %\end{center}
8758 %\vspace{\fill}
8759 \thispagestyle{empty}
8760 \newpage
8761 \if@twocolumn\hbox{} \newpage\fi\fi\fi}

```

59 File `biditufte-handout.cls`

```

8762 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8763 \ProvidesClass{biditufte-handout}[2011/06/18 v0.1 biditufte-handout class]
8764 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8765 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8766 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8767 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8768 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8769 \ProcessOptions\relax
8770 \LoadClass{article}
8771 \RequirePackage{bidituftefloat}
8772 \RequirePackage{bidituftesidenote}
8773 \RequirePackage{bidituftetoc}
8774 \RequirePackage{bidituftegeneralstructure}
8775 \RequirePackage{bidituftehyperref}
8776 \RequirePackage{bidituftetitle}
8777 \renewenvironment{abstract}
8778 {\begin{quotation}}
8779 {\end{quotation}}
8780 \AtBeginDocument{%
8781 \IfFileExists{biditufte-handout.cfg}
8782 {\input{biditufte-handout.cfg}
8783 \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8784 }%
8785 }

```

60 File `biditufte-book.cls`



```

8786 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8787 \ProvidesClass{bidityfte-book}[2011/06/18 v0.1 bidityfte-book class]
8788 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8789 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityftefloat}}
8790 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityftetoc}}
8791 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityftehyperref}}
8792 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityftetitle}}
8793 \ProcessOptions\relax
8794 \LoadClass{book}
8795 \RequirePackage{bidityftefloat}
8796 \RequirePackage{bidityftesidenote}
8797 \RequirePackage{bidityftetoc}
8798 \RequirePackage{bidityftegeneralstructure}
8799 \RequirePackage{bidityftehyperref}
8800 \RequirePackage{bidityftetitle}
8801 %%
8802 % Set up any book-specific stuff now
8803 %%
8804 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8805 % to the opening page of Chapter 1. The running heads, when they appear,
8806 % contain only the (arabic) page number in the outside corner.
8807 \newif\if@mainmatter \@mainmattertrue
8808 \renewcommand\frontmatter{%
8809   \cleardoublepage%
8810   \@mainmatterfalse%
8811   \pagenumbering{arabic}%
8812   %\pagestyle{plain}%
8813   \fancyhf{}%
8814   \ifthenelse{\boolean{@bidityftefloat@twoside}}%
8815     {\fancyhead[LE,RO]{\thepage}}%
8816     {\fancyhead[RE,RO]{\thepage}}%
8817 }
8818 %%
8819 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8820 % numbering---it continues where it left off in the front matter.
8821 \renewcommand\mainmatter{%
8822   \cleardoublepage%
8823   \@mainmattertrue%
8824   \fancyhf{}%
8825   \ifthenelse{\boolean{@bidityftefloat@twoside}}%
8826     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}%
8827     \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8828     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8829     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8830 }
8831 %%
8832 % The back matter contains appendices, indices, glossaries, endnotes,
8833 % bibliographies, list of contributors, illustration credits, etc.
8834 \renewcommand\backmatter{%
8835   \if@openright%
8836     \cleardoublepage%
8837   \else%
8838     \clearpage%
8839   \fi%

```



```

8840 \@mainmatterfalse%
8841 }
8842 %%
8843 % Only show the chapter titles in the table of contents
8844 \setcounter{tocdepth}{0}
8845 \AtBeginDocument{%
8846 \IfFileExists{biditufte-book.cfg}
8847 {\input{biditufte-book.cfg}
8848 \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8849 {}%
8850 }

```

61 File bidipoem.sty

```

8851 \NeedsTeXFormat{LaTeX2e}
8852 \ProvidesPackage{bidipoem}%
8853 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8854
8855 % Usage:
8856 %
8857 % \Setversedim #1#2 % define the layout (within a group):
8858 % #1 = length of both half-verses
8859 % #2 = separation distance = length of a connection, if present
8860 % Variant:
8861 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8862 % #1 = length of first (=right) half-verse
8863 % #2 = length of second (=left) half-verse
8864 % #3 = separation distance = length of a connection, if present
8865 %
8866 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8867 % #1 = text of first (=right) half-verse
8868 % #2 = text of second (=left) half-verse
8869 % Variant:
8870 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8871 % #1 = text of first (=right) half-verse
8872 % #2 = text of connection
8873 % #3 = text of second (=left) half-verse
8874 %
8875 % Alternative (if preferred):
8876 %
8877 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8878
8879
8880 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8881
8882 % define the layout, verses will be centered
8883
8884 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8885 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8886
8887 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8888 \bidipoem@hvind \textwidth
8889 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8890 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else

```



```

8891 \bidipoem@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@verse {#2}}\fi \bidipoem
8892
8893 \def \bidipoem@set@verseI [#1]{% optional parameter
8894 \bidipoem@hvlen #1\relax \bidipoem@set@verse }
8895
8896 \newcommand*{\bidipoem@set@verse}[1]{% separation
8897 \advance \bidipoem@hvind -\bidipoem@hvlen \bidipoem@hvsep #1\relax
8898 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8899
8900 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8901 \ifdim Opt > \bidipoem@hvind %
8902 \bidipoem@spreadbox \bidipoem@hvlen {#1}\ \hfill % first block
8903 \else
8904 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8905 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8906 \bidipoem@spreadbox \bidipoem@hvlen {#3}% second block
8907 \par }
8908
8909 % macro for two half verses
8910 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8911 \ifx [#2\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]}%
8912 \else\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8913 \bidipoem@half@verses@next}
8914
8915 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8916 \traditionalconnverses {#1}{#2}{#3}}
8917
8918
8919 {\catcode\^^M=\active % these lines must end with %
8920 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8921 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8922 {\catcode\^^M=\active % these lines must end with %
8923 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
8924 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8925 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8926 \def\poemmarginsskip{1em plus 1fil minus 1em}
8927 \def\poemextrabaselineskip{0\baselineskip}
8928 \def\poemskip{\medskip}
8929 \newcommand{\bidipoem@openbox}{\leavevmode
8930 \hbox to.77778em{%
8931 \hfil\vrule
8932 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8933 \vrule\hfil}}
8934 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8935 \newdimen\versewidth
8936 \newtoks\bidipoem@p@ftn
8937 \def\poem@verse#1{%
8938 \ifdim\wd#1>\new@poem@width
8939 \xdef\new@poem@width{\the\wd#1}%
8940 \ifdim\new@poem@width>\poem@width
8941 \xdef\poem@width{\new@poem@width}%
8942 \global\let\poem@needrun\relax
8943 \fi
8944 \fi

```



```

8945 \hbox to\poem@width{\unhbox#1}%
8946 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8947 }
8948 \def\poem@linebegin{\vadjust{}}\hskip\@flushglue\hskip\poemmargin\relax}
8949 \def\poem@lineend{\nobreak\hskip\poemmargin\hskip\@flushglue\vadjust{}}
8950 \def\poem@lineversesep{%
8951 \nobreak
8952 \hskip\z@ plus 1filll%
8953 \penalty600%
8954 \hskip\poemcolsepskip
8955 \hskip\z@ plus -2filll%
8956 \vadjust{}}%
8957 \nobreak
8958 \hskip\z@ plus 1filll%
8959 }
8960 \def\poem@lineparsebegin{%
8961 \halign\bgroup
8962 \global\setbox\verse@i=\hbox{%
8963 \let\@footnotetext\bidipoem@p@ftntext%
8964 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8965 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8966 \let\@xfootnotenext\bidipoem@p@xftntext%
8967 \let\@xfootnote\bidipoem@p@xfootnote%
8968 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8969 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8970 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8971 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8972 \ignorespaces##\unskip}&&
8973 \global\setbox\verse@ii=\hbox{%
8974 \let\@footnotetext\bidipoem@p@ftntext%
8975 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8976 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8977 \let\@xfootnotenext\bidipoem@p@xftntext%
8978 \let\@xfootnote\bidipoem@p@xfootnote%
8979 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8980 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8981 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8982 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8983 \ignorespaces##\unskip}
8984 \cr
8985 }
8986 \def\poem@lineparseend{%
8987 \crcr\egroup
8988 \vskip-\baselineskip
8989 }
8990 \def\traditionalpoem@cr{%
8991 \cr\poem@line
8992 }
8993 \newbox\verse@i
8994 \newbox\verse@ii
8995 \newif\ifpoem@started
8996
8997 \def\poem@line{%
8998 \poem@lineparseend

```



```

8999 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9000 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9001 \ifpoem@started
9002   \ifdim\wd\verse@ii>\z@\else
9003     \nopagebreak[3]
9004   \fi
9005   \leavevmode
9006   \poem@linebegin
9007   \poem@verse\verse@i
9008   \ifdim\wd\verse@ii>\z@
9009     \poem@lineversesep
9010     \poem@verse\verse@ii
9011   \fi
9012   \poem@lineend
9013 %   \nopagebreak
9014   \par
9015   \vskip\poemextrabaselineskip
9016 \fi
9017 \poem@lineparsebegin
9018 }
9019 \def\@traditionalpoem{%
9020 \stepcounter{poem@no}
9021   \ifnum\max@poem@no<\number\c@poem@no%
9022 \xdef\poem@width{\z@}%
9023   \else
9024 \xdef\poem@width{\poem@prop{poem@width}}%
9025 \fi
9026 \xdef\new@poem@width{\z@}%
9027 \global\versewidth=\poem@width
9028 \poemskip\par
9029 \begingroup
9030 \tabskip=\z@
9031 \parskip=\z@
9032 \parindent=\z@
9033 \parfillskip=\z@
9034 \rightskip=\z@
9035 \leftskip=\z@
9036 \widowpenalty=10000% No break between verses of the same line.
9037 \clubpenalty=10000% Same as above. Not really needed.
9038 \def\newblock{\hfil\poemblocksep\hfil\null}%
9039 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9040 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9041 \global\poem@startedfalse
9042 \csname poem@obeylines\endcsname
9043 \let\poem@obeylines\relax
9044 \poem@lineparsebegin
9045 }
9046 \def\@endtraditionalpoem{%
9047 \cr
9048 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9049 \noalign{%
9050 \skip0=\poemextrabaselineskip
9051 \vskip-\skip0
9052 \vskip-\baselineskip

```




```

9053 }%
9054 \fi\fi
9055 \poem@lineparseend
9056 \endgroup
9057 \par
9058 \vskip\baselineskip
9059 \poemskip
9060 \ifdim\new@poem@width<\poem@width
9061 \global\let\poem@needrun\relax
9062 \fi
9063     \poem@write@aux{poem@width\romannumeral\c@poem@no}{\new@poem@width}%
9064 \ifx\AtEndDocument\undefined\poem@finish\fi
9065 \endparenv
9066 }
9067
9068
9069 \long\def\bidipoem@p@ftntext#1{%
9070 \edef\@temp{x\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
9071 \global\bidipoem@p@ftn\expandafter{\@temp{x#1}}}%
9072 \long\def\bidipoem@p@LTRftntext#1{%
9073 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
9074 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9075 \long\def\bidipoem@p@RTLftntext#1{%
9076 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
9077 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9078
9079 \long\def\bidipoem@p@xftntext[#1]#2{%
9080 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
9081
9082 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9083 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
9084
9085 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9086 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
9087
9088 \def\bidipoem@p@xfootnote[#1]{%
9089 \begingroup
9090 \csname c@\@mpfn\endcsname #1\relax
9091 \unrestored@protected@xdef\@thefnmark{\thempfn}%
9092 \endgroup
9093 \@footnotemark\bidipoem@p@xftntext[#1]}
9094
9095 \def\bidipoem@p@xLTRfootnote[#1]{%
9096 \begingroup
9097 \csname c@\@mpfn\endcsname #1\relax
9098 \unrestored@protected@xdef\@thefnmark{\thempfn}%
9099 \endgroup
9100 \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9101
9102 \def\bidipoem@p@xRTLfootnote[#1]{%
9103 \begingroup
9104 \csname c@\@mpfn\endcsname #1\relax
9105 \unrestored@protected@xdef\@thefnmark{\thempfn}%
9106 \endgroup

```



```

9107 \footnotemark\bidipoem@p@xRTLftntext[#1]}
9108
9109
9110
9111 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9112 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9113 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9114 \def\poem@finish{%
9115 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9116 \ifx\poem@needrun\relax
9117 \PackageWarning{bidipoem}{Unjustified poem. Rerun XeLaTeX to get poem right}%
9118 \global\let\poem@needrun\undefined
9119 \fi
9120 }
9121 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9122 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9123 \ifx\max@poem@no\undefined
9124 \def\max@poem@no{0}%
9125 \fi
9126 \newcommand{\poem@prop}[1]{\@nameuse{#1@romannumeral\c@poem@no}}
9127 \newcommand{\poem@write@aux}[2]{%
9128 \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9129 \@x
9130 }
9131 \def\@modernpoem{%
9132 \par
9133 \begingroup
9134 \parskip=\z@
9135 \parindent=\z@
9136 \def\@settab{\@tabplus\ignorespaces}%
9137 \def\@tabminus{\ignorespaces}%
9138 \def\newblock{\poemblocksep}%
9139 \let\newpoem@tabcr\@tabcr
9140 \def\modernpoem@par{% Redefine \par for possible \obeylines
9141 \ifpoem@started\else
9142 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9143 \@stopfield
9144 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9145 \@contfield
9146 \fi
9147 \fi
9148 \ifpoem@started\newpoem@tabcr\fi}%
9149 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9150 \global\poem@startedfalse
9151 \csname poem@obeylines\endcsname
9152 \let\poem@obeylines\relax
9153 \begin{tabbing}%
9154 }
9155 \def\@endmodernpoem{%
9156 \global\poem@startedfalse
9157 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9158 \@stopfield
9159 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9160 \@contfield

```



```

9161 \fi
9162 \ifpoem@started\else\let\@stopline\@stopfield\fi
9163 \end{tabbing}%
9164 \endgroup
9165 \par
9166 \if@nparlist \else
9167   \ifdim\lastskip >\z@
9168     \@tempskipa\lastskip \vskip -\lastskip
9169     \advance\@tempskipa\parskip \advance\@tempskipa -\outerparskip
9170     \vskip\@tempskipa
9171   \fi
9172   \@endparenv
9173 \fi
9174 }
9175 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9176 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9177 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9178 \gdef\@startfield{%
9179 \global\setbox\@curfield\hbox\bgroup%
9180 \let\@footnotetext\bidipoem@p@ftntext%
9181 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9182 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9183 \let\@xfootnotenext\bidipoem@p@xftntext%
9184 \let\@xfootnote\bidipoem@p@xfootnote%
9185 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9186 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9187 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9188 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9189 \color@begingroup}
9190 \gdef\@stopfield{%
9191 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9192 \gdef\@contfield{%
9193 \global\setbox\@curfield\hbox\bgroup%
9194 \let\@footnotetext\bidipoem@p@ftntext%
9195 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9196 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9197 \let\@xfootnotenext\bidipoem@p@xftntext%
9198 \let\@xfootnote\bidipoem@p@xfootnote%
9199 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9200 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9201 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9202 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9203 \color@begingroup\unhbox\@curfield}

```

62 File boek3-xetex-bidi.def

```

9204 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
9205 \renewenvironment{theindex}{%
9206   \if@twocolumn
9207     \@restonecolfalse
9208   \else
9209     \@restonecoltrue
9210   \fi
9211   \columnseprule \z@

```



```

9212 \columnsep 35\p@
9213 \twocolumn[\@makeschapterhead{\indexname}]%
9214 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9215 \thispagestyle{plain}\parindent\z@
9216 \parskip\z@ \@plus .3\p@\relax
9217 \let\item\@idxitem
9218 }{%
9219 \if@restonecol\onecolumn\else\clearpage\fi}
9220 \renewcommand*\head@style{%
9221   \interlinepenalty \@M
9222   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9223   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9224 \renewcommand*\@regtocline[3]{%
9225   \ifnum #1>\c@tocdepth
9226   \else
9227     \vskip\z@\@plus.2\p@
9228     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9229     \if@RTL\rightskip\else\leftskip\fi\unitindent
9230     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9231     \parfillskip\z@
9232     \@tempdima\unitindent
9233     \parindent\z@
9234     \leavevmode
9235     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9236     \hskip 1em \nobreak{\slshape #3}\par
9237   }%
9238 \fi}
9239 \if@oldtoc
9240 \renewcommand*\l@part[2]{%
9241   \ifnum \c@tocdepth >-2\relax
9242     \addpenalty{-\@highpenalty}%
9243     \addvspace{2.25em \@plus\p@}%
9244     \begingroup
9245       \setlength\@tempdima{3em}%
9246       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9247       \parfillskip -\@pnumwidth
9248       {\leavevmode
9249         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9250       \nobreak
9251       \global\@nobreaktrue
9252       \everypar{\global\@nobreakfalse\everypar{}}%
9253     \endgroup
9254   \fi}
9255 \else
9256   \renewcommand*\l@part{%
9257     \ifnum \c@tocdepth >-2\relax
9258       \addpenalty{-\@highpenalty}%
9259       \addvspace{2.25em \@plus \p@}%
9260       \@regtocline{0}%
9261     \fi}
9262 \fi
9263 \if@oldtoc
9264 \renewcommand*\l@chapter[2]{%
9265   \addpenalty{-\@highpenalty}%

```



```

9266 \vskip 1.0em \@plus\p@
9267 \setlength\@tempdima{1.5em}%
9268 \begingroup
9269 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9270 \parfillskip -\@pnumwidth
9271 \leavevmode \bfseries
9272 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9273 \hskip -\if@RTL\rightskip\else\leftskip\fi
9274 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9275 \penalty\@highpenalty
9276 \endgroup}
9277 \else
9278 \renewcommand*\l@chapter{\@regtocline{0}}
9279 \fi
9280 \renewenvironment{abstract}{%
9281 \titlepage
9282 \null\vfil
9283 \section*\SectFont \abstractname}
9284 \noindent\ignorespaces}
9285 {\par\vfil\null\endtitlepage}
9286 \renewenvironment{thebibliography}[1]
9287 {\chapter*\bibname}%
9288 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9289 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9290 \bidi@thebibliography@font@hook%
9291 \list{\@biblabel{\@arabic\c@enumiv}}%
9292 {\settowidth\labelwidth{\@biblabel{#1}}%
9293 \leftmargin\labelwidth
9294 \advance\leftmargin\labelsep
9295 \@openbib@code
9296 \usecounter{enumiv}%
9297 \let\p@enumiv\@empty
9298 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9299 \sloppy\clubpenalty4000\widowpenalty4000%
9300 \sfcode\.\@m}
9301 {\def\@noitemerr
9302 {\@latex@warning{Empty `thebibliography' environment}}}%
9303 \endlist}
9304 \renewcommand*\left@footnoterule{%
9305 \kern-3\p@
9306 \kern.5\baselineskip
9307 \hrule\@width\unitindent
9308 \kern.4\baselineskip
9309 }
9310 \renewcommand*\right@footnoterule{%
9311 \kern-3\p@
9312 \kern.5\baselineskip
9313 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9314 \kern.4\baselineskip}
9315 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9316 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9317 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9318 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9319 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}

```



```

9320 \renewcommand*\theequation{%
9321   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9322 \renewcommand*\thefigure{%
9323   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
9324 \renewcommand*\thetable{%
9325   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
9326 \renewcommand*\maketitle{%
9327   \begin{titlepage}%
9328     \let\footnotesize\small
9329     \let\right@footnoterule\relax
9330     \let\left@footnoterule\relax
9331     \let\textwidth@footnoterule\relax
9332     \let \footnote \thanks
9333     \long\def\@makefntext##1{\parindent\z@
9334       \def\labelitemi{\textendash}\@revlabeltrue
9335       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9336     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9337     \if@compatibility\setcounter{page}{0}\fi
9338     \null\vfil
9339     \vskip 60\p@
9340     \begin{center}%
9341       \TitleFont
9342       {\LARGE \def\{\{\penalty -\@M}
9343         \if@allcaps
9344           \expandafter\uc@nothanks\@title\thanks\relax
9345         \else
9346           \@title
9347           \fi\par}%
9348       \vskip 3em%
9349       {\large
9350         \lineskip .75em \parindent\z@
9351         \begin{tabular}[t]{c}%
9352           \if@allcaps
9353             \expandafter\uc@authornothanks\@author\and\relax
9354           \else
9355             \@author
9356           \fi
9357         \end{tabular}\par}%
9358       \vskip 1.5em%
9359       {\large
9360         \if@allcaps
9361           \uppercase\expandafter{\@date}%
9362         \else
9363           \@date
9364         \fi\par}%
9365       \end{center}\par
9366       \@thanks
9367       \vfil\null
9368     \end{titlepage}%
9369     \setcounter{footnote}{0}%
9370     \global\let\thanks\relax
9371     \global\let\maketitle\relax
9372     \global\let\@thanks\@empty
9373     \global\let\@author\@empty

```



```

9374 \global\let\@title\@empty
9375 \global\let\@date\@empty
9376 \global\let\title\relax
9377 \global\let\author\relax
9378 \global\let\date\relax
9379 \global\let\and\relax
9380 }

```

63 File boek-xetex-bidi.def

```

9381 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9382 \renewenvironment{theindex}{%
9383   \if@twocolumn
9384     \@restonecolfalse
9385   \else
9386     \@restonecoltrue
9387   \fi
9388   \columnseprule \z@
9389   \columnsep 35\p@
9390   \twocolumn[\@makeschapterhead{\indexname}]%
9391   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9392   \thispagestyle{plain}\parindent\z@
9393   \parskip\z@ \@plus .3\p@\relax
9394   \let\item\@idxitem
9395 }{%
9396   \if@restonecol\onecolumn\else\clearpage\fi}
9397 \renewcommand*\head@style{%
9398   \interlinepenalty \@M
9399   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9400   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizex\relax}
9401 \renewcommand*\@regtocline[3]{%
9402   \ifnum #1>\c@tocdepth
9403   \else
9404     \vskip\z@\@plus.2\p@
9405     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9406       \if@RTL\rightskip\else\leftskip\fi\unitindent
9407       \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9408       \parfillskip\z@
9409       \@tempdima\unitindent
9410       \parindent\z@
9411       \leavevmode
9412       \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9413       \hskip 1em \nobreak{\slshape #3}\par
9414     }%
9415   \fi}
9416 \if@oldtoc
9417 \renewcommand*\l@part[2]{%
9418   \ifnum \c@tocdepth >-2\relax
9419     \addpenalty{-\@highpenalty}%
9420     \addvspace{2.25em \@plus\p@}%
9421     \begingroup
9422       \setlength\@tempdima{3em}%
9423       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9424       \parfillskip -\@pnumwidth

```



```

9425     {\leavevmode
9426       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9427       \nobreak
9428       \global\@nobreaktrue
9429       \everypar{\global\@nobreakfalse\everypar{}}%
9430     \endgroup
9431   \fi}
9432 \else
9433   \renewcommand*\l@part{%
9434     \ifnum \c@tocdepth >-2\relax
9435     \addpenalty{-\@highpenalty}%
9436     \addvspace{2.25em \@plus \p@}%
9437     \@regtocline{0}%
9438   \fi}
9439 \fi
9440 \if@oldtoc
9441 \renewcommand*\l@chapter[2]{%
9442   \addpenalty{-\@highpenalty}%
9443   \vskip 1.0em \@plus \p@
9444   \setlength\@tempdima{1.5em}%
9445   \begingroup
9446   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9447   \parfillskip -\@pnumwidth
9448   \leavevmode \bfseries
9449   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9450   \hskip -\if@RTL\rightskip\else\leftskip\fi
9451   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9452   \penalty\@highpenalty
9453   \endgroup}
9454 \else
9455   \renewcommand*\l@chapter{\@regtocline{0}}
9456 \fi
9457 \renewcommand*\left@footnoterule{%
9458   \kern-3\p@
9459   \kern.5\baselineskip
9460   \hrule\@width\unitindent
9461   \kern.4\baselineskip
9462 }
9463 \renewcommand*\right@footnoterule{%
9464   \kern-3\p@
9465   \kern.5\baselineskip
9466   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9467   \kern.4\baselineskip}
9468 \renewenvironment{abstract}{%
9469   \titlepage
9470   \null\vfil
9471   \section*{\SectFont \abstractname}
9472   \noindent\ignorespaces}
9473   {\par\vfil\null\endtitlepage}
9474 \renewenvironment{thebibliography}[1]
9475   {\chapter*{\bibname}%
9476     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9477     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9478     \bidi@thebibliography@font@hook%

```




```

9479 \list{\@biblabel{\@arabic\c@enumiv}}%
9480     {\settowidth\labelwidth{\@biblabel{#1}}%
9481      \leftmargin\labelwidth
9482      \advance\leftmargin\labelsep
9483      \@openbib@code
9484      \usecounter{enumiv}}%
9485     \let\p@enumiv\@empty
9486     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9487 \sloppy\clubpenalty4000\widowpenalty4000%
9488 \sfcode`. \@m}
9489 {\def\@noitemerr
9490  {\@latex@warning{Empty `thebibliography' environment}}}%
9491 \endlist}
9492 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9493 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9494 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9495 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9496 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9497 \renewcommand*\theequation{%
9498  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9499 \renewcommand*\thefigure{%
9500  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9501 \renewcommand*\thetable{%
9502  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9503 \renewcommand*\maketitle{%
9504  \begin{titlepage}%
9505    \let\footnotesize\small
9506    \let\right@footnoterule\relax
9507    \let\left@footnoterule\relax
9508    \let\textwidth@footnoterule\relax
9509    \let \footnote \thanks
9510    \long\def\@makefntext##1{\parindent\z@
9511     \def\labelitemi{\textendash}\@revlabeltrue
9512     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9513    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9514    \if@compatibility\setcounter{page}{0}\fi
9515    \null\vfil
9516    \vskip 60\p@
9517    \begin{center}%
9518      \TitleFont
9519      {\LARGE \def\{\{\penalty -\@M}
9520       \if@allcaps
9521         \expandafter\uc@nothanks\@title\thanks\relax
9522       \else
9523         \@title
9524         \fi\par}%
9525      \vskip 3em%
9526      {\large
9527       \lineskip .75em \parindent\z@
9528       \begin{tabular}[t]{c}%
9529         \if@allcaps
9530           \expandafter\uc@authornothanks\@author\and\relax
9531         \else
9532           \@author

```



```

9533         \fi
9534         \end{tabular}\par}%
9535     \vskip 1.5em%
9536     {\large
9537     \if@allcaps
9538     \uppercase\expandafter{\@date}%
9539     \else
9540     \@date
9541     \fi\par}%
9542     \end{center}\par
9543     \@thanks
9544     \vfil\null
9545 \end{titlepage}%
9546 \setcounter{footnote}{0}%
9547 \global\let\thanks\relax
9548 \global\let\maketitle\relax
9549 \global\let\@thanks\@empty
9550 \global\let\@author\@empty
9551 \global\let\@title\@empty
9552 \global\let\@date\@empty
9553 \global\let\title\relax
9554 \global\let\author\relax
9555 \global\let\date\relax
9556 \global\let\and\relax
9557 }

```

64 File `bookest-xetex-bidi.def`

```

9558 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9559 \def\@makechapterhead#1{%
9560     \vspace*{20\p@}
9561     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9562     \ifnum \c@secnumdepth >\m@ne
9563     \if@mainmatter
9564     {\colorA\huge\scshape \@chapapp\space \thechapter}
9565     \par\nobreak
9566     \vskip 10\p@
9567     \fi
9568     \fi
9569     \interlinepenalty\@M
9570     {\colorB\hrule}
9571     \vskip 15\p@
9572     \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9573     {\colorA\Huge \bfseries #1}\par\nobreak
9574     \if@RTL\end{flushleft}\else\end{flushright}\fi
9575     \vskip 5\p@
9576     {\colorB\hrule}
9577     \vskip 30\p@
9578     }}
9579 \def\@makeschapterhead#1{%
9580     \vspace*{20\p@}
9581     {\parindent \z@ \raggedright \normalfont
9582     {\colorB\hrule}
9583     \vskip 15\p@

```



```

9584 \begin{center}
9585   {\colorA\Huge \bfseries #1}\par\nobreak
9586 \end{center}
9587 \vskip 5\p@
9588 {\colorB\hrule}
9589 \vskip 30\p@
9590 }}

```

65 File book-xetex-bidi.def

```

9591 \ProvidesFile{book-xetex-bidi.def}[2025/01/03 v1.1 bidi adaptations for standard book class]
9592 \renewenvironment{theindex}
9593   {\if@twocolumn
9594     \@restonecolfalse
9595     \else
9596     \@restonecoltrue
9597     \fi
9598     \columnseprule \z@
9599     \columnsep 35\p@
9600     \twocolumn[\@makeschapterhead{\indexname}]%
9601     \@mkboth{\MakeUppercase\indexname}%
9602             {\MakeUppercase\indexname}%
9603     \thispagestyle{plain}\parindent\z@
9604     \parskip\z@ \@plus .3\p@\relax
9605     \let\item\@idxitem}
9606   {\if@restonecol\onecolumn\else\clearpage\fi}
9607 \IfClassLoadedF{bookest}{%
9608   \if@titlepage
9609   \renewcommand\maketitle{\begin{titlepage}%
9610 \let\footnotesize\small
9611 \let\right@footnoterule\relax
9612 \let\left@footnoterule\relax
9613 \let\textwidth@footnoterule\relax
9614 \let \footnote \thanks
9615 \let \LTRfootnote \LTRthanks
9616 \let \RTLfootnote \RTLthanks
9617 \null\vfil
9618 \vskip 60\p@
9619 \begin{center}%
9620   {\LARGE \@title \par}%
9621   \vskip 3em%
9622   {\large
9623     \lineskip .75em%
9624     \begin{tabular}[t]{c}%
9625       \@author
9626       \end{tabular}\par}%
9627   \vskip 1.5em%
9628   {\large \@date \par}%           % Set date in \large size.
9629 \end{center}\par
9630 \@thanks
9631 \vfil\null
9632 \end{titlepage}%
9633 \setcounter{footnote}{0}%
9634 \global\let\thanks\relax

```



```

9635 \global\let\LTRthanks\relax
9636 \global\let\RTLthanks\relax
9637 \global\let\maketitle\relax
9638 \global\let\@thanks\@empty
9639 \global\let\@author\@empty
9640 \global\let\@date\@empty
9641 \global\let\@title\@empty
9642 \global\let\title\relax
9643 \global\let\author\relax
9644 \global\let\date\relax
9645 \global\let\and\relax
9646 }
9647 \else
9648 \renewcommand\maketitle{\par
9649 \begingroup
9650 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9651 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9652 \long\def\@makefntext##1{\parindent 1em\noindent
9653 \hb@xt@1.8em{%
9654 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9655 \if@twocolumn
9656 \ifnum \col@number=\@ne
9657 \@maketitle
9658 \else
9659 \twocolumn[\@maketitle]%
9660 \fi
9661 \else
9662 \newpage
9663 \global\@topnum\z@ % Prevents figures from going at top of page.
9664 \@maketitle
9665 \fi
9666 \thispagestyle{plain}\@thanks
9667 \endgroup
9668 \setcounter{footnote}{0}%
9669 \global\let\thanks\relax
9670 \global\let\LTRthanks\relax
9671 \global\let\RTLthanks\relax
9672 \global\let\maketitle\relax
9673 \global\let\@maketitle\relax
9674 \global\let\@thanks\@empty
9675 \global\let\@author\@empty
9676 \global\let\@date\@empty
9677 \global\let\@title\@empty
9678 \global\let\title\relax
9679 \global\let\author\relax
9680 \global\let\date\relax
9681 \global\let\and\relax
9682 }
9683 \def\@maketitle{%
9684 \newpage
9685 \null
9686 \vskip 2em%
9687 \begin{center}%
9688 \let \footnote \thanks

```



```

9689 \let \LTRfootnote \LTRthanks
9690 \let \RTLfootnote \RTLthanks
9691 {\LARGE \@title \par}%
9692 \vskip 1.5em%
9693 {\large
9694 \lineskip .5em%
9695 \begin{tabular}[t]{c}%
9696 \@author
9697 \end{tabular}\par}%
9698 \vskip 1em%
9699 {\large \@date}%
9700 \end{center}%
9701 \par
9702 \vskip 1.5em}
9703 \fi}
9704 \renewcommand*\l@part[2]{%
9705 \ifnum \c@tocdepth >-2\relax
9706 \addpenalty{-\@highpenalty}%
9707 \addvspace{2.25em \@plus\p@}%
9708 \setlength\@tempdima{3em}%
9709 \begingroup
9710 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9711 \parfillskip -\@pnumwidth
9712 {\leavevmode
9713 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9714 \nobreak
9715 \global\@nobreaktrue
9716 \everypar{\global\@nobreakfalse\everypar{}}%
9717 \endgroup
9718 \fi}
9719 \renewcommand*\l@chapter[2]{%
9720 \ifnum \c@tocdepth >\m@ne
9721 \addpenalty{-\@highpenalty}%
9722 \vskip 1.0em \@plus\p@
9723 \setlength\@tempdima{1.5em}%
9724 \begingroup
9725 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9726 \parfillskip -\@pnumwidth
9727 \leavevmode \bfseries
9728 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9729 \hskip -\if@RTL\rightskip\else\leftskip\fi
9730 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9731 \penalty\@highpenalty
9732 \endgroup
9733 \fi}
9734 \renewcommand\left@footnoterule{%
9735 \kern-3\p@
9736 \hrule\@width.4\columnwidth
9737 \kern2.6\p@}
9738 \renewcommand\right@footnoterule{%
9739 \kern-3\p@
9740 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9741 \kern2.6\p@}
9742 \renewcommand\theequation

```



```

9743 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9744 \renewcommand \thefigure
9745     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9746 \renewcommand \thetable
9747     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9748 \renewcommand \thechapter {\@arabic\c@chapter}
9749 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9750 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9751 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9752 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9753 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9754 \def\@makechapterhead#1{%
9755     \vspace*{50\p@}%
9756     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9757       \ifnum \c@secnumdepth >\m@ne
9758         \if@mainmatter
9759           \huge\bfseries \@chapapp\space \thechapter
9760           \par\nobreak
9761           \vskip 20\p@
9762         \fi
9763         \fi
9764         \interlinepenalty\@M
9765         \Huge \bfseries #1\par\nobreak
9766         \vskip 40\p@
9767     }}
9768 \def\@makeschapterhead#1{%
9769     \vspace*{50\p@}%
9770     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9771       \normalfont
9772       \interlinepenalty\@M
9773       \Huge \bfseries #1\par\nobreak
9774       \vskip 40\p@
9775     }}
9776 \renewcommand\backmatter{%
9777     \if@openright
9778       \cleardoublepage
9779     \else
9780       \clearpage
9781     \fi
9782     \@mainmatterfalse}
9783 \renewenvironment{thebibliography}[1]
9784     {\chapter*{\bibname}%
9785     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9786     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9787     \bidi@thebibliography@font@hook%
9788     \list{\@biblabel{\@arabic\c@enumiv}}%
9789     {\settowidth\labelwidth{\@biblabel{#1}}%
9790     \leftmargin\labelwidth
9791     \advance\leftmargin\labelsep
9792     \@openbib@code
9793     \usecounter{enumiv}%
9794     \let\p@enumiv\@empty
9795     \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9796     \sloppy

```



```

9797     \clubpenalty4000
9798     \@clubpenalty \clubpenalty
9799     \widowpenalty4000%
9800     \sfcode`.\@m}
9801     {\def\@noitemerr
9802       {\@latex@warning{Empty `thebibliography' environment}}}%
9803     \endlist}

```

66 File breqn-xetex-bidi.def

```

9804 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9805 \def\@dmath[#1]{\ifRTL\@RTLfalse\fi%
9806 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9807 \ifnoskipsec \leavevmode \fi
9808 \ifinlabel \leavevmode \global\@inlabelfalse \fi
9809 \if\eq@group\else\eq@prelim\fi
9810 \setkeys{breqn}{#1}%
9811 \the\eqstyle
9812 \eq@setnumber
9813 \begingroup
9814 \eq@setup@a
9815 \eq@startup
9816 }
9817 \def\@dgroup[#1]{\ifRTL\@RTLfalse\fi%
9818 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9819 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9820 \global\let\GRP@label\@empty
9821 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9822 \global\grp@linewidth\z@\global\grp@wdNum\z@
9823 \global\let\grp@eqs@numbered\@False
9824 \global\let\grp@aligned\@True
9825 \global\let\grp@shiftnumber\@False
9826 \eq@prelim
9827 \setkeys{breqn}{#1}%
9828 \if\grp@hasNumber \grp@setnumber \fi
9829 }
9830 \def\@dseries[#1]{\ifRTL\@RTLfalse\fi%
9831 \let\display@setup\dseries@display@setup
9832 % Question: should this be the default for dseries???
9833 \global\eq@wdCond\z@
9834 \@dmath[layout={M},#1]%
9835 \mathsurround\z@\@math \penalty\@Mi
9836 \let\endmath\ends@math
9837 \def\premath{%
9838   \ifdim\lastskip<.3em \unskip
9839   \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9840 }%
9841 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9842 \ignorespaces
9843 }
9844 \def\eqnumform#1{\ifnonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\ifnonlatin\endR\fi}
9845 \renewenvironment{dsuspend}{%
9846 \global\setbox\EQ@box\ vbox\bgroup\ifnonlatin\@RTLtrue\fi \@parboxrestore
9847 \parshape 1 \displayindent \displaywidth\relax

```



```

9848 \hsize=\columnwidth \noindent\ignorespaces
9849 }{%
9850 \par\egroup
9851 \global\setbox\GRP@box\vbox{%
9852 \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
9853 \unvbox\GRP@box
9854 }%
9855 \global\GRP@queue\@xp{\the\GRP@queue
9856 \@elt{\let\eq@isIntertext\@True}}%
9857 }%
9858 }

```

67 File calcs-xetex-bidi.def

```

9859 \ProvidesFile{calcs-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for calcs package for XeTeX]
9860 \renewcommand\calcs@setup@alignment[1]{%
9861 \if c#1\relax \calcs@vfillAdd \leftskip \calcs@vfillAdd \rightskip \fi
9862 \if l#1\relax \calcs@vfillDrop\leftskip \calcs@vfillDrop\rightskip \fi
9863 \if r#1\relax \calcs@vfillAdd \leftskip \calcs@vfillDrop\rightskip \fi
9864 }
9865 \renewcommand\calcs@table@alignment{\if@RTLtab r\else l\fi}
9866 \renewenvironment{calstable}[1][\calcs@table@alignment]{%
9867 \if@RTLtab\calcs@activate@rtl\fi
9868 \let\calcs@thead@tokens=\relax
9869 \let\calcs@tfoot@tokens=\relax
9870 \let\calcs@tbody@tokens=\relax
9871 \calcs@tfoot@height=0pt \relax
9872 \let\calcs@last@context=n%
9873 \let\calcs@current@context=b%
9874 \parindent=0pt \relax%
9875 \calcs@setup@alignment{#1}%
9876 \calcs@setpadding{Ag}\calcs@setcellprevdepth{Al}\calcs@set@tohsize%
9877 %% Alignment inside is independent on center/flushright outside
9878 \parfillskip=0pt plus1fil\relax
9879 \let\calcs@borderL=\relax
9880 \let\calcs@borderR=\relax
9881 \let\calcs@borderT=\relax
9882 \let\calcs@borderB=\relax
9883 \setbox\calcs@backup@row=\box\voidb@x\relax
9884 \calcs@AtBeginTable
9885 }{% End of the table
9886 \calcs@tfoot@tokens\lastrule\calcs@AtEndTable}
9887 \renewcommand\alignL{%
9888 \if@RTLtab
9889 \calcs@vfillAdd\calcs@paddingL
9890 \else
9891 \calcs@vfillDrop\calcs@paddingL
9892 \fi
9893 \calcs@vfillDrop\calcs@paddingR}
9894 \renewcommand\alignR{%
9895 \if@RTLtab
9896 \calcs@vfillDrop\calcs@paddingL
9897 \else
9898 \calcs@vfillAdd\calcs@paddingL

```




```
9899 \fi
9900 \cals@vfillDrop\cals@paddingR}
```

68 File caption-xetex-bidi.def

```
9901 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9902 \let\makecaption\caption@makecaption
```

69 File caption3-xetex-bidi.def

```
9903 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9904 \renewcommand*\caption@par{%
9905 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%
```

70 File colortbl-xetex-bidi.def

```
9906 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9907 \def\CT@setup{%
9908 \@tempdima\col@sep
9909 \@tempdimc\col@sep
9910 \def\CT@color{%
9911 \global\let\CT@do@color\CT@do@color
9912 \bicolor}}
9913 \def\@classz{\@classx
9914 \@tempcnta \count@
9915 \prepnext@tok
9916 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9917 \@addtopreamble{\if@RTLtab\beginL\fi%
9918 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9919 \ifcase \@cnum
9920 \hskip\stretch{.5}\kern\z@
9921 \dollarbegin
9922 \insert@column
9923 \dollarend\hskip\stretch{.5}\or
9924 \dollarbegin \insert@column \dollarend \hfill \or
9925 \hfill\kern\z@ \dollarbegin \insert@column \dollarend \or
9926 $\vcenter
9927 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9928 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9929 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9930 \fi
9931 \if@RTLtab\endR\fi\egroup\egroup
9932 \begingroup
9933 \CT@setup
9934 \CT@column@color
9935 \CT@row@color
9936 \CT@cell@color
9937 \CT@do@color
9938 \endgroup
9939 \@tempdima\ht\z@
9940 \advance\@tempdima\minrowclearance
9941 \vrule\@height\@tempdima\@width\z@
9942 \unhbox\z@\if@RTLtab\endL\fi}%
9943 \prepnext@tok}
```



71 File color-xetex-bidi.def

```
9944 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for X
9945 \long\def\color@b@x#1#2#3{%
9946 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9947 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9948 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9949 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9950 {#1#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
9951 \box\z@}\ifmmode\else\if@RTL\endL\fi\fi}
9952 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9953 \DeclareRobustCommand\color{%
9954 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor]{%
9955 \def\@declaredcolor#1{%
9956 \@ifundefined{\string\color @#1}%
9957 {\color@error{`#1'}}%
9958 {\expandafter\let\expandafter\current@color
9959 \csname\string\color @#1\endcsname
9960 \set@color}%
9961 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9962 \def\@undeclaredcolor[#1]#2{%
9963 \@ifundefined{color@#1}%
9964 {\color@error{model `#1'}}%
9965 {\csname color@#1\endcsname\current@color{#2}%
9966 \set@color}%
9967 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9968 \DeclareRobustCommand\bidicolor{%
9969 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]{%
9970 \def\@bidiundeclaredcolor[#1]#2{%
9971 \@ifundefined{color@#1}%
9972 {\color@error{model `#1'}}%
9973 {\csname color@#1\endcsname\current@color{#2}%
9974 \set@color}%
9975 \ignorespaces}
9976 \def\@bidideclaredcolor#1{%
9977 \@ifundefined{\string\color @#1}%
9978 {\color@error{`#1'}}%
9979 {\expandafter\let\expandafter\current@color
9980 \csname\string\color @#1\endcsname
9981 \set@color}%
9982 \ignorespaces}
9983 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
9984 \def\color@fbbox#1#2#3{%
9985 \color@b@x{\fbboxsep\z@\bidicolor#1{#2}\fbbox}{\bidicolor#1{#3}}}
9986 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode
```

72 File combine-xetex-bidi.def

```
9987 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
9988 \renewcommand{\c@ll@chapsecii}[2]{%
9989 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
9990 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
9991 #1\nobreak\hfil\nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9992 }
```



```

9993 \renewcommand{\c@ll@chapseci}{%
9994 \setlength\@tempdima{0em}%
9995 \begingroup
9996 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9997 \parfillskip -\@pnumwidth
9998 \leavevmode
9999 }
10000 \renewenvironment{tocindent}[1]{%
10001 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

73 File crop-xetex-bidi.def

```

10002 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeT
10003 \IfClassLoadedT{memoir}{\endinput}
10004 \RequirePackage{graphicx}
10005 \renewcommand*\CROP@ulc{%
10006 \if@RTLmain%
10007 \begin{picture}(0,0)
10008 \unitlength\p@\thinlines
10009 \put(-40,0){\circle{10}}
10010 \put(-30,-5){\line(0,1){10}}
10011 \put(-35,0){\line(1,0){30}}
10012 \put(-10,30){\circle{10}}
10013 \put(-5,30){\line(1,0){10}}
10014 \put(0,35){\line(0,-1){30}}
10015 \end{picture}%
10016 \else%
10017 \begin{picture}(0,0)
10018 \unitlength\p@\thinlines
10019 \put(-30,0){\circle{10}}
10020 \put(-30,-5){\line(0,1){10}}
10021 \put(-35,0){\line(1,0){30}}
10022 \put(0,30){\circle{10}}
10023 \put(-5,30){\line(1,0){10}}
10024 \put(0,35){\line(0,-1){30}}
10025 \end{picture}%
10026 \fi%
10027 }
10028 \renewcommand*\CROP@urc{%
10029 \if@RTLmain%
10030 \begin{picture}(0,0)
10031 \unitlength\p@\thinlines
10032 \put(20,0){\circle{10}}
10033 \put(30,-5){\line(0,1){10}}
10034 \put(35,0){\line(-1,0){30}}
10035 \put(-10,30){\circle{10}}
10036 \put(-5,30){\line(1,0){10}}
10037 \put(0,35){\line(0,-1){30}}
10038 \end{picture}%
10039 \else%
10040 \begin{picture}(0,0)
10041 \unitlength\p@\thinlines
10042 \put(30,0){\circle{10}}
10043 \put(30,-5){\line(0,1){10}}

```



```

10044     \put(35,0){\line(-1,0){30}}
10045     \put(0,30){\circle{10}}
10046     \put(-5,30){\line(1,0){10}}
10047     \put(0,35){\line(0,-1){30}}
10048 \end{picture}%
10049 \fi%
10050 }
10051 \renewcommand*\CROP@llc{%
10052   \if@RTLmain%
10053     \begin{picture}(0,0)
10054       \unitlength\p@\thinlines
10055       \put(-40,0){\circle{10}}
10056       \put(-30,-5){\line(0,1){10}}
10057       \put(-35,0){\line(1,0){30}}
10058       \put(-10,-30){\circle{10}}
10059       \put(-5,-30){\line(1,0){10}}
10060       \put(0,-35){\line(0,1){30}}
10061     \end{picture}%
10062   \else%
10063     \begin{picture}(0,0)
10064       \unitlength\p@\thinlines
10065       \put(-30,0){\circle{10}}
10066       \put(-30,-5){\line(0,1){10}}
10067       \put(-35,0){\line(1,0){30}}
10068       \put(0,-30){\circle{10}}
10069       \put(-5,-30){\line(1,0){10}}
10070       \put(0,-35){\line(0,1){30}}
10071     \end{picture}%
10072   \fi%
10073 }
10074 \renewcommand*\CROP@llrc{%
10075   \if@RTLmain%
10076     \begin{picture}(0,0)
10077       \unitlength\p@\thinlines
10078       \put(20,0){\circle{10}}
10079       \put(30,-5){\line(0,1){10}}
10080       \put(35,0){\line(-1,0){30}}
10081       \put(-10,-30){\circle{10}}
10082       \put(-5,-30){\line(1,0){10}}
10083       \put(0,-35){\line(0,1){30}}
10084     \end{picture}%
10085   \else%
10086     \begin{picture}(0,0)
10087       \unitlength\p@\thinlines
10088       \put(30,0){\circle{10}}
10089       \put(30,-5){\line(0,1){10}}
10090       \put(35,0){\line(-1,0){30}}
10091       \put(0,-30){\circle{10}}
10092       \put(-5,-30){\line(1,0){10}}
10093       \put(0,-35){\line(0,1){30}}
10094     \end{picture}%
10095   \fi%
10096 }
10097 \@ifpackagewith{crop}{cam}{%

```



```

10098 \CROP@execopt{cam}%
10099 }{}

```

74 File cutwin-xetex-bidi.def

```

10100 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10101 \renewcommand*{\c@twcompctr}[2]{%
10102   \def\c@twfirst{1}
10103   \loop\advance\c@twinlines\m@ne
10104   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10105   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10106   \c@twprune{\c@twslicea}{\c@twlftside}%
10107   \c@twprune{\c@twsliceb}{\c@twrtside}%
10108   \ifnum\c@twfirst=\@ne
10109     \setbox#2=\vbox{\unvbox#2\hbox
10110       to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\ifRTL\box\c@tw
10111   \else
10112     \setbox#2=\vbox{\unvbox#2\hbox
10113       to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\ifRTL\box\c@twslicea\else\
10114   \fi
10115   \def\c@twfirst{2}
10116   \ifnum\c@twinlines>\z@\repeat}
10117 \renewcommand*{\c@twcompodctr}[2]{%
10118   \def\c@twrounds{1}
10119   \def\c@twfirst{1}
10120   \@for\c@twlspec:=\c@twb\do{%
10121     \ifnum\c@twrounds=1
10122       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10123       \c@twprune{\c@twslicea}{\c@twlspec}%
10124       \def\c@twrounds{2}
10125     \else
10126       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10127       \c@twprune{\c@twsliceb}{\c@twlspec}%
10128       \ifnum\c@twfirst=1
10129         \setbox#2=\vbox{\unvbox#2\hbox
10130           to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\ifRTL\
10131         \def\c@twfirst{2}
10132       \else
10133         \setbox#2=\vbox{\unvbox#2\hbox
10134           to\hsize{\ifRTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\ifRTL\box\c@twslicea\el
10135       \fi
10136       \def\c@twrounds{1}
10137   \fi}}

```

75 File cuted-xetex-bidi.def

```

10138 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10139
10140 \def\RTL@outputdblcol{%
10141   \if@firstcolumn
10142     \global\@firstcolumnfalse
10143     \global\setbox\@leftcolumn\copy\@outputbox
10144     \splitmaxdepth\maxdimen
10145     \vbadness\maxdimen

```



```

10146 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10147 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10148 \toks@\expandafter{\topmark}%
10149 \xdef\@firstcoltopmark{\the\toks@}%
10150 \toks@\expandafter{\splitfirstmark}%
10151 \xdef\@firstcolfirstmark{\the\toks@}%
10152 \ifx\@firstcolfirstmark\@empty
10153 \global\let\@setmarks\relax
10154 \else
10155 \gdef\@setmarks{%
10156 \let\firstmark\@firstcolfirstmark
10157 \let\topmark\@firstcoltopmark}%
10158 \fi
10159 \else
10160 \global\@firstcolumntrue
10161 \setbox\@outputbox\vbox{%
10162 \hb@xt@\textwidth{%
10163 \hskip \columnwidth
10164 \hfil
10165 {\normalcolor\vrule \@width\columnseprule}%
10166 \hfil
10167 \hb@xt@\columnwidth{%
10168 \bidi@firstcolumn@status@write%
10169 \box\@leftcolumn \hss}%
10170 \hskip -\textwidth
10171 \hb@xt@\columnwidth{%
10172 \bidi@lastcolumn@status@write%
10173 \box\@outputbox \hss}%
10174 \hskip \columnsep
10175 \hskip \columnwidth }}%
10176 \ifvoid\hold@viper
10177 \else
10178 \setbox\@outputbox \vbox to\textheight{%
10179 \box\hold@viper
10180 \box\@outputbox
10181 \vss
10182 }%
10183 \fi
10184 \@combinedblfloats
10185 \@setmarks
10186 \@outputpage
10187 \begingroup
10188 \@dblfloatplacement
10189 \@startdblcolumn
10190 \@whilesw\if@colmade \fi{\@outputpage
10191 \@startdblcolumn}%
10192 \ifvoid\@viper
10193 \else
10194 \global\setbox\@viper\vbox{%
10195 \vskip-\stripsep
10196 \unvbox\@viper
10197 }%
10198 \@viperoutput
10199 \fi

```



```

10200   \endgroup
10201   \fi}%
10202
10203   \def\LTR@outputdblcol{%
10204     \if@firstcolumn
10205       \global\@firstcolumnfalse
10206       \global\setbox\@leftcolumn\copy\@outputbox
10207       \splitmaxdepth\maxdimen
10208       \vbadness\maxdimen
10209       \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10210       \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10211       \toks@\expandafter{\topmark}%
10212       \xdef\@firstcoltopmark{\the\toks@}%
10213       \toks@\expandafter{\splitfirstmark}%
10214       \xdef\@firstcolfirstmark{\the\toks@}%
10215       \ifx\@firstcolfirstmark\@empty
10216         \global\let\@setmarks\relax
10217       \else
10218         \gdef\@setmarks{%
10219           \let\firstmark\@firstcolfirstmark
10220           \let\topmark\@firstcoltopmark}%
10221       \fi
10222     \else
10223       \global\@firstcolumntrue
10224       \setbox\@outputbox\vbox{%
10225         \hb@xt@\textwidth{%
10226           \hb@xt@\columnwidth{%
10227             \bidi@firstcolumn@status@write%
10228             \box\@leftcolumn \hss}%
10229           \hfil
10230           {\normalcolor\vrule \@width\columnseprule}%
10231           \hfil
10232           \hb@xt@\columnwidth{%
10233             \bidi@lastcolumn@status@write%
10234             \box\@outputbox \hss}}}%
10235       \ifvoid\hold@viper
10236       \else
10237         \setbox\@outputbox \vbox to\textheight{%
10238           \box\hold@viper
10239           \box\@outputbox
10240           \vss
10241         }%
10242       \fi
10243     \@combinedblfloats
10244     \@setmarks
10245     \@outputpage
10246     \begingroup
10247       \@dblfloatplacement
10248       \@startdblcolumn
10249       \@whilesw\if@colmade \fi{\@outputpage
10250     \@startdblcolumn}%
10251     \ifvoid\@viper
10252     \else
10253       \global\setbox\@viper\vbox{%

```



```

10254             \vskip-\stripsep
10255             \unvbox\@viper
10256             }%
10257         \@viperoutput
10258     \fi
10259 \endgroup
10260 \fi}%
10261
10262 \def\@addviper{%
10263     \@insertfalse
10264     \def\var@thecol@num{2}%
10265     \if@firstcolumn
10266         \def\var@thecol@num{1}%
10267         \@reqcolroom=.5\@pageht
10268         \ht@viper=\@reqcolroom
10269         \advance\@reqcolroom by\ht\@viper
10270         \advance\@reqcolroom by\stripsep
10271     \else
10272         \@reqcolroom=\@colht
10273         \advance\@reqcolroom by\@pageht
10274         \ht@viper.5\@reqcolroom
10275         \@reqcolroom=\ht@viper
10276         \advance\@reqcolroom by\ht\@viper
10277         \advance\@reqcolroom by\stripsep
10278         \global\setbox\@holdpg\vbox{%
10279             \setbox\cuted@tempbox@a\vbox{%
10280                 \aftergroup\unvbox
10281                 \unvcopy\@leftcolumn
10282                 \unskip\unkern\unpenalty
10283                 \setbox\@tempbox@a\lastbox
10284                 \ifdim\dimexpr\ht\@tempbox+a\wd\@tempbox+a\dp\@tempbox>\z@
10285                     %% keeps lastbox
10286                 \aftergroup\@leftcolumn
10287                 \else
10288                     %% removes lastbox
10289                 \aftergroup\cuted@tempbox@a
10290             \fi
10291         }%
10292         \unskip\unkern\unpenalty
10293         \on@stripcols@break
10294         \the\At@ViperColsBreak
10295         \unvbox\@holdpg
10296         }%
10297         \global\At@ViperColsBreak{}%
10298         \ht@viper=.5\ht\@holdpg
10299         \ifdim\ht@viper>\@colht
10300             \ht@viper=\@colht
10301         \fi
10302     \fi
10303     %%
10304     %% calculations for breaking
10305     %%
10306     \ifvoid\hold@viper
10307         \ht@hold@viper=\z@

```




```

10308 \else
10309 \ht@hold@viper=\ht\hold@viper
10310 \fi
10311 \cuted@@tempdim@b\ht@viper
10312 \set@split@topskip@to\topskip
10313 \loop
10314 \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10315 \setbox\cuted@@varbox@a\copy\@holdpg
10316 \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10317 %% set leftcolumn boxes
10318 \setbox\cuted@@tempbox@c\ vbox{\unvbox\cuted@@tempbox@a}%
10319 \setbox\cuted@@tempbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10320 \xdef\var@@leftcolumn@badness{\the\badness}%
10321 %% set rightcolumn boxes
10322 \setbox\cuted@@varbox@c\ vbox{\unvbox\cuted@@varbox@a}%
10323 \setbox\cuted@@varbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10324 \xdef\var@@rightcolumn@badness{\the\badness}%
10325 %% analyzing split goodness
10326 \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10327 \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10328 \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10329 \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10330 \cuted@@wlog@debug{CUTED [----]}%
10331 ^^JLeft: \the\ht\cuted@@tempbox@c
10332 +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10333 ^^JRight: \the\ht\cuted@@varbox@c
10334 +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10335 ^^JSplit: \the\cuted@@tempdim@b
10336 ^^JExtra height: \the\cuted@@tempdim@spread
10337 }%
10338 \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10339 \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10340 \cuted@@tempdim@spread=\z@
10341 \fi
10342 \fi
10343 \ifdim\cuted@@tempdim@spread<\z@
10344 \ifleftcolumn@spread
10345 \ifrightcolumn@shrink
10346 \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10347 \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10348 \else
10349 \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10350 \fi
10351 \setbox\cuted@@varbox@a\ vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10352 \ifnum\badness<\cuted@@column@badness
10353 \cuted@@tempdim@b=\cuted@@tempdim@a
10354 \cuted@@tempdim@spread=\z@
10355 \fi
10356 \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on
10357 \setbox\cuted@@varbox@a\ vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10358 \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on
10359 \else
10360 \setbox\cuted@@varbox@a\ vbox to\ht\cuted@@varbox@c{
10361 \unvcopy\cuted@@tempbox@c

```



```

10362         }%
10363         \ifnum\badness<\cuted@@column@badness
10364             \@tempdimb=\ht\cuted@@varbox@c
10365             \cuted@@tempdim@spread=\z@
10366         \fi
10367         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\h
10368         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{%
10369             \unvcopy\cuted@@varbox@c
10370         }%
10371         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\
10372     \fi
10373     \else
10374         \if@right@column@shrink
10375             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10376             \else
10377                 \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10378                 \cuted@@tempdim@spread=\z@
10379             \fi
10380         \fi
10381     \fi
10382     \else
10383         \ifdim\cuted@@tempdim@spread>\z@
10384             \ifdim\dimexpr\@tempdimb+p@\relax>\@colht
10385                 \cuted@@tempdim@b=\@colht
10386                 \cuted@@tempdim@spread=\z@
10387             \fi
10388         \fi
10389     \fi
10390     \ifdim\cuted@@tempdim@spread<\z@
10391         \advance\cuted@@tempdim@b 1\p@
10392     \repeat
10393     \wlog{CUTED [- LAST -]}%
10394     ^^JExtra skip:\the\cuted@@tempdim@spread
10395     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10396     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10397     ^^JSplit:\saved@tempdimb
10398     ^^JOutput:\the\cuted@@tempdim@b
10399     ^^JPageshrink:\the\pageshrink
10400     ^^JPagestretch:\the\pagestretch
10401     ^^J@colht:\the\@colht
10402     }%
10403     %%
10404     %% final construction of the cuted page above strip
10405     %%
10406     \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10407     \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10408         \cuted@@tempdim@a=\dimexpr
10409             \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10410         \relax
10411         \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10412         \unvbox\cuted@@tempbox@c
10413         \ifdim\cuted@@tempdim@spread>\dp\strutbox
10414     \else
10415         \vskip-\cuted@@tempdim@spread

```



```

10416     \fi
10417     \prevdepth\z@
10418     \hrule\@height\cuted@@page@rule width\textwidth
10419     \vskip-\cuted@@page@rule
10420     \ifdim\cuted@@tempdim@a>\z@
10421         \if@left@column@spread
10422         \else
10423             \vss
10424         \fi
10425     \else
10426         \ifdim\cuted@@tempdim@a<\z@
10427             \if@left@column@shrink
10428             \else
10429                 \vss
10430             \fi
10431         \fi
10432     \fi
10433 }%
10434 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10435     ^^JCUTED [leftcolumn badness]: \number\badness
10436 }%
10437 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10438     \cuted@@tempdim@a=\dimexpr
10439         \cuted@@tempdim@b-\ht\@holdpg
10440     \relax
10441     \unvbox\@holdpg
10442     \ifdim\cuted@@tempdim@a>\z@
10443         \if@right@column@spread
10444         \else
10445             \vss
10446         \fi
10447     \else
10448         \ifdim\cuted@@tempdim@a<\z@
10449             \if@right@column@shrink
10450             \else
10451                 \vss
10452             \fi
10453         \fi
10454     \fi
10455 }%
10456 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10457 \setbox\cuted@@tempbox@var\vbox{%
10458     \hb@xt@\textwidth{%
10459         \if@RTLmain
10460             \hskip \columnwidth
10461             \hfil
10462             {\normalcolor\vrule \@width\columnseprule}%
10463             \hfil
10464             \hb@xt@\columnwidth{%
10465                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10466             \hss
10467         }%
10468         \hskip -\textwidth
10469         \hb@xt@\columnwidth{%

```



```

10470         \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10471         \hss
10472     }%
10473     \hskip \columnsep
10474     \hskip \columnwidth
10475 \else
10476     \hb@xt@\columnwidth{%
10477         \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10478         \hss
10479     }%
10480     \hfil
10481     {\normalcolor\vrule \@width\columnseprule}%
10482     \hfil
10483     \hb@xt@\columnwidth{%
10484         \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10485         \hss
10486     }%
10487 \fi
10488 }%
10489 }%
10490 %%
10491 %% finalize cuted page
10492 %%
10493 \ifvoid\hold@viper
10494     \global\setbox\hold@viper\vbox{%
10495         \unvbox\cuted@@tempbox@var
10496         \penalty\interlinepenalty
10497         \vskip\stripsep
10498         \the\preCutedStrip
10499         \ifnum\outputpenalty<-\@Mii
10500             \vskip -\parskip
10501         \fi
10502         \outputpenalty\z@
10503     }%
10504 \else
10505     \global\setbox\hold@viper\vbox{%
10506         \unvbox\hold@viper
10507         \cuted@@tempbox@var
10508         \penalty\interlinepenalty
10509         \vskip\stripsep
10510         \the\preCutedStrip
10511         \ifnum\outputpenalty<-\@Mii
10512             \vskip -\parskip
10513         \fi
10514         \outputpenalty\z@
10515     }%
10516 \fi
10517 \ifdim\@colht>\@reqcolroom
10518     \global\setbox\hold@viper\vbox{%
10519         \unvbox\hold@viper
10520         \box@viper
10521         \penalty\interlinepenalty
10522         \the\postCutedStrip
10523         \vskip\stripsep

```



```

10524         \ifnum\outputpenalty<-\@Mii
10525             \vskip -\parskip
10526         \fi
10527         \outputpenalty\z@
10528     }%
10529 \@inserttrue
10530 \global\@firstcolumntrue
10531 \advance\ht@hold@viper by-\ht\hold@viper
10532 \global\advance\colht by\ht@hold@viper
10533 \ifdim\colht<2.5\baselineskip
10534     \latex@warning@no@line {Optional argument of \noexpand\twocolumn
10535                             too tall on page \thepage (\var@@thecol@num column)}%
10536     \@emptycol
10537     \if@firstcolumn
10538     \else
10539         \@emptycol
10540     \fi
10541     \global\@lastvipertrue
10542 \else
10543     \global\vsizel\colht
10544     \global\@colroom\colht
10545     \check@floats\cuted@@tempdim@a
10546     \ifdim\cuted@@tempdim@a>\z@
10547         \global\advance\@colroom by-\cuted@@tempdim@a
10548     \fi
10549     \ifdim\@colroom<\z@
10550         \global\@colroom1\p@
10551         \ifdim\cuted@@tempdim@a>\colht
10552             \latex@warning@no@line{TOP and/or BOT FLOAT's
10553                                     to large on \thepage (\var@@thecol@num column)}%
10554         \fi
10555         \@emptycol
10556         \if@firstcolumn
10557         \else
10558             \@emptycol
10559         \fi
10560         \global\@lastvipertrue
10561     \fi
10562 \fi
10563 \fi
10564 \if@insert
10565 \else
10566     \advance\ht@hold@viper by-\ht\hold@viper
10567     \global\advance\colht by\ht@hold@viper
10568     \global\setbox\hold@viper\ vbox{%
10569         \unvbox\hold@viper
10570         \set@split@topskip@to{\z@ plus2\p@}%
10571         \vsplit\@viper to\colht
10572         \vss
10573     }%
10574     \vbox{%
10575     \global\@firstcolumnfalse
10576     \newpage
10577 \fi

```



```
10578 }
```

76 File cvthemebidicasual.sty

```
10579 \NeedsTeXFormat{LaTeX2e}
10580 \ProvidesPackage{cvthemebidicasual}
10581 \DeclareOption{blue}{}
10582 \newif\if@colourorange\@colourorangefalse
10583 \DeclareOption{orange}{\@colourorange>true}
10584 \newif\if@colourgreen\@colourgreenfalse
10585 \DeclareOption{green}{\@colourgreentrue}
10586 \newif\if@coloured\@colouredfalse
10587 \DeclareOption{red}{\@colouredtrue}
10588 \newif\if@colourgrey\@colourgreyfalse
10589 \DeclareOption{grey}{\@colourgreytrue}
10590 \DeclareOption*{
10591   \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10592 \ExecuteOptions{colour}
10593 \ProcessOptions\relax
10594 \renewcommand*{\listitemsymbol}{\textbullet}
10595 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10596 \familynamecolour{808080}
10597 \firstnamecolour{A9A9A9}
10598 \quotecolour{696969}
10599 \addresscolour{696969}
10600 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10601 \sectiontitlecolour{1E90FF}
10602 \subsectioncolour{4682B4}
10603 \definecolor{rulecolour}{gray}{0.6}
10604 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10605 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10606 \if@colourorange
10607   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10608   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10609   \sectiontitlecolour{FF8C00}
10610   \subsectioncolour{FF8C00}
10611   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10612   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10613 \if@colourgreen
10614   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10615   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10616   \sectiontitlecolour{008000}
10617   \subsectioncolour{008000}
10618   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10619   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10620 \if@coloured
10621   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10622   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10623   \sectiontitlecolour{FF0000}
10624   \subsectioncolour{FF0000}
10625   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10626   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10627 \if@colourgrey
10628   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
```



```

10629 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10630 \sectiontitlecolour{808080}
10631 \subsectioncolour{808080}
10632 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10633 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10634 \renewcommand*{\ttdefault}{pcr}
10635 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10636 \renewcommand*{\familynamefont}{\firstnamefont}
10637 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10638 \renewcommand*{\quoteont}{\large\slshape}
10639 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10640 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10641 \renewcommand*{\maketitle}{%
10642   {%
10643     \ifthenelse{\isundefined{\@photo}}{%
10644       {}%
10645       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}}%
10646     \hfill%
10647     \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10648     {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10649     \ifthenelse{\isundefined{\@quote}}{%
10650       {}%
10651       {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\[-.35em]}%
10652     }%
10653 \newif\if@firstfooterelement\@firstfooterelementtrue
10654 \providecommand*{\footersymbol}{}
10655 \renewcommand*{\footersymbol}{%
10656   \if@firstfooterelement%
10657   \else%
10658     { ~-\color{footersymbolcolor}\textbullet~-\fi}
10659 \providecommand*{\makefooter}{}
10660 \renewcommand*{\makefooter}{%
10661   \fancypagestyle{plain}{%
10662     \fancyfoot[c]{%
10663       \parbox{0.8\textwidth}{%
10664         \centering%
10665         \addressfont\@addresscolour%
10666         \ifthenelse{\isundefined{\@address}}{}{}%
10667         \addresssymbol~\@address\[-.35em]}%
10668         \@firstfooterelementfalse}%
10669         \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10670         \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10671         \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10672         \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\emailink{\@email}\@firstfooterelementfalse}%
10673         \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}%
10674       }%
10675     \pagestyle{plain}}
10676 \AtBeginDocument{\makefooter}

```

77 File cvthemebidiclassic.sty

```

10677 \NeedsTeXFormat{LaTeX2e}
10678 \ProvidesPackage{cvthemebidiclassic}
10679 \DeclareOption{blue}{}

```



```

10680 \newif\if@colourorange\@colourorangefalse
10681 \DeclareOption{orange}{\@colourorange>true}
10682 \newif\if@colourgreen\@colourgreenfalse
10683 \DeclareOption{green}{\@colourgreentrue}
10684 \newif\if@colourred\@colourredfalse
10685 \DeclareOption{red}{\@colourredtrue}
10686 \newif\if@colourgrey\@colourgreyfalse
10687 \DeclareOption{grey}{\@colourgreytrue}
10688 \DeclareOption*{
10689   \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10690 \ExecuteOptions{colour}
10691 \ProcessOptions\relax
10692 \renewcommand*\listitemsymbol{\textbullet}
10693 \firstnamecolour{}
10694 \familynamecolour{}
10695 \titlecolour{808080}
10696 \quotecolour{696969}
10697 \addresscolour{696969}
10698 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10699 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10700 \sectiontitlecolour{1E90FF}
10701 \subsectioncolour{4682B4}
10702 \if@colourorange
10703   \addresscolour{FF8C00}
10704   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10705   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10706   \sectiontitlecolour{FF8C00}
10707   \subsectioncolour{FF8C00}\fi
10708 \if@colourgreen
10709   \addresscolour{008000}
10710   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10711   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10712   \sectiontitlecolour{008000}
10713   \subsectioncolour{008000}\fi
10714 \if@colourred
10715   \addresscolour{FF0000}
10716   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10717   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10718   \sectiontitlecolour{FF0000}
10719   \subsectioncolour{FF0000}\fi
10720 \if@colourgrey
10721   \addresscolour{808080}
10722   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10723   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10724   \sectiontitlecolour{808080}
10725   \subsectioncolour{808080}\fi
10726 \renewcommand*\ttdefault{pcr}
10727 \renewcommand*\firstnamefont{\fontsize{34}{36}\mdseries\upshape}
10728 \renewcommand*\titlefont{\LARGE\mdseries\slshape}
10729 \renewcommand*\addressfont{\normalsize\mdseries\slshape}
10730 \renewcommand*\familynamefont{\firstnamefont}
10731 \renewcommand*\quotefont{\large\slshape}
10732 \renewcommand*\sectionfont{\Large\mdseries\upshape}
10733 \renewcommand*\subsectionfont{\large\mdseries\upshape}

```




```

10734 \newlength{\maketitlemaxwidth}
10735 \setlength{\maketitlemaxwidth}{.525\textwidth}
10736 \newlength{\maketitlefullwidth}
10737 \settowidth{\maketitlefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10738 \newlength{\maketitlewidth}
10739 \ifnum\maketitlemaxwidth<\maketitlefullwidth\setlength{\maketitlewidth}{\maketitlefullwidth}
10740 \newlength{\maketitlepicturewidth}
10741 \setlength{\maketitlepicturewidth}{\@photowidth}
10742 \newlength{\maketitledetailwidth}
10743 \renewcommand*\recomputethemelengths{%
10744   \setlength{\maketitledetailwidth}{\textwidth}%
10745   \addtolength{\maketitledetailwidth}{-\maketitlewidth}%
10746   \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10747   \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10748 \recomputethemelengths
10749 \newif\if@firstdetailselement\@firstdetailselementtrue
10750 \newcommand*\maketitledetailsnewline{%
10751   \if@firstdetailselement%
10752     \@firstdetailselementfalse%
10753   \else%
10754     \ [.2em]\fi}
10755 \renewcommand*\maketitle{%
10756   % name and title
10757   \begin{minipage}[b]{\maketitlewidth}%
10758     \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10759     \ifthenelse{equal{\@title}{}}{\ [1.25em]\titlestyle{\@title}}%
10760   \end{minipage}%
10761   % optional data
10762   \begin{minipage}[b]{\maketitledetailwidth}%
10763     \bidi@raggedleft\addressfont\addresscolour%
10764     \ifthenelse{\isundefined{\@address}}{\}%
10765     \maketitledetailsnewline%
10766     \addresssymbol~\@address%
10767     \ifthenelse{\isundefined{\@mobile}}{\maketitledetailsnewline\mobilesymbol~\@mobile}%
10768     \ifthenelse{\isundefined{\@phone}}{\maketitledetailsnewline\phonesymbol~\@phone}%
10769     \ifthenelse{\isundefined{\@fax}}{\maketitledetailsnewline\faxsymbol~\@fax}%
10770     \ifthenelse{\isundefined{\@email}}{\maketitledetailsnewline\emailsymbol~\emailink{\@email}}%
10771     \ifthenelse{\isundefined{\@extrainfo}}{\maketitledetailsnewline\@extrainfo}%
10772   \end{minipage}%
10773   % optional photo
10774   \ifthenelse{\isundefined{\@photo}}{\}%
10775   {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10776   % optional quote
10777   \ifthenelse{\isundefined{\@quote}}{\}%
10778   {\centering\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\@quote%
10781 }

```

78 File dblfnote-xetex-bidi.def

```

10782 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10783 \let\autofooterule\relax
10784 \let\rightfootnoterule\relax

```



```

10785 \let\leftfootnoterule\relax
10786 \let\textwidthfootnoterule\relax
10787 \let\LRfootnoterule\relax
10788 \def\footnoterule{\kern-3\p@
10789 \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10790 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10791 \let\@footnotetext\dfn@footnotetext}
10792 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
10793 \let\insert\dfn@gobble
10794 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10795 \def\@makefnmark{\smash{\dfn@makefnmark}}
10796 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10797 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10798 \ifdim\dfn@dima>\z@\else
10799 \dfn@dima1sp\relax
10800 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10801 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10802 \ifvoid\dfn@ins\else
10803 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10804 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10805 \setbox\dfn@boxa\copy\dfn@ins
10806 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10807 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10808 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10809 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10810 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10811 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10812 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10813 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10814 \let\insert\dfn@gobble
10815 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10816 \def\@makefnmark{\smash{\dfn@makefnmark}}
10817 \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10818 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10819 \ifdim\dfn@dima>\z@\else
10820 \dfn@dima1sp\relax
10821 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10822 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10823 \ifvoid\dfn@ins\else
10824 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10825 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10826 \setbox\dfn@boxa\copy\dfn@ins
10827 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10828 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10829 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10830 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10831 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10832 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10833 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10834 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10835 \dfn@dima\ht\footins
10836 \@tempcnta\z@ \dfn@countins
10837 \@tempdima\z@ \let\@elt\dfn@elt@getht
10838 \dfn@list\@nil

```



```

10839 \ifdim\@tempdima=\z@\else
10840 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10841 \global\setbox\dfn@ins\box\dfn@ins
10842 \@tempswatrue
10843 \ifdfn@trysingle
10844 \setbox\dfn@boxb\ vbox{\unvcopy\@cclv}\@tempdima\@colroom
10845 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10846 \advance\@tempdima-\skip\footins
10847 \advance\@tempdima-\ht\dfn@boxa
10848 \ifdim\@tempdima<\z@\else \@tempswafalse
10849 \global\setbox\footins\ vbox{\boxmaxdepth\dfn@fnmaxdp
10850 \footnoterule \unvbox\dfn@boxa}\fi\fi
10851 \if@tempswa
10852 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10853 \global\setbox\footins\ vbox{\hbox{%
10854 \hskip \DFNcolumnwidth
10855 \hskip\DFNcolumnsep
10856 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10857 \unvbox\dfn@boxb\vss}\hss}
10858 \hskip -\textwidth
10859 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10860 \vbox to\@tempdima{
10861 \setbox\@tempboxa\vbox{\footnoterule}
10862 \ifdfn@ruleboth \unvbox\@tempboxa
10863 \else \@tempdima\ht\@tempboxa
10864 \advance\@tempdima\dp\@tempboxa
10865 \vskip\@tempdima
10866 \prevdepth\dp\@tempboxa \fi
10867 \unvbox\dfn@boxa\vss}\fi\hss}
10868 \hskip \DFNcolumnsep
10869 \hskip \DFNcolumnwidth}}\fi\fi
10870 \global\dfn@fnht\z@
10871 \ifx\dfn@list\@empty\else
10872 \let\@elt\dfn@eltadjust \dfn@dima\z@ \dfn@dimb\z@
10873 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10874 \let\@elt\relax
10875 \ifdim\dfn@dimb>\z@
10876 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10877 \insert\footins{\floatingpenalty\@MM
10878 \vbox to\dfn@dimb{}}\fi
10879 \ifdim\dfn@fnht>\@tempdima
10880 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10881 \global\dfn@fnht\@tempdima
10882 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10883 \xdef\dfn@afteroutput{\insert\footins{
10884 \floatingpenalty\@MM
10885 \vbox to\number\@tempdimb sp{}}%
10886 \global\let\noexpand\dfn@afteroutput\relax}%
10887 \fi\fi
10888 \fi}%
10889 \let\footnoterule\relax \dfn@latex@makecol
10890 \let\footnoterule\dfn@footnoterule}
10891 \def\dfn@LTRmakecol{\ifvoid\footins\else
10892 \dfn@dima\ht\footins

```



```

10893 \tempcnta\z@ \dfn@countins
10894 \@tempdima\z@ \let\@elt\dfn@elt@getht
10895 \dfn@list\@nil
10896 \ifdim\@tempdima=\z@\else
10897 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10898 \global\setbox\dfn@ins\box\dfn@ins
10899 \@tempswatruue
10900 \ifdfn@trysingle
10901 \setbox\dfn@boxb\ vbox{\unvcopy\@cclv}\@tempdima\@colroom
10902 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10903 \advance\@tempdima-\skip\footins
10904 \advance\@tempdima-\ht\dfn@boxa
10905 \ifdim\@tempdima<\z@\else \@tempswafalse
10906 \global\setbox\footins\ vbox{\boxmaxdepth\dfn@fnmaxdp
10907 \footnoterule \unvbox\dfn@boxa}\fi\fi
10908 \if@tempswa
10909 \dfn@split{\dfn@dim}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10910 \global\setbox\footins\ vbox{\hbox{%
10911 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10912 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10913 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10914 \vbox to\@tempdima{
10915 \setbox\@tempboxa\ vbox{\footnoterule}
10916 \ifdfn@ruleboth \unvbox\@tempboxa
10917 \else \@tempdima\ht\@tempboxa
10918 \advance\@tempdima\dp\@tempboxa
10919 \vskip\@tempdima
10920 \prevdepth\dp\@tempboxa \fi
10921 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10922 \global\dfn@fnht\z@
10923 \ifx\dfn@list\@empty\else
10924 \let\@elt\dfn@elt@adjust \dfn@dim\z@ \dfn@dim\z@
10925 \dfn@list \global\advance\dfn@fnht\dfn@dim
10926 \let\@elt\relax
10927 \ifdim\dfn@dim>\z@
10928 \xdef\dfn@list{\@elt{0}{\number\dfn@dim}\dfn@list}%
10929 \insert\footins{\floatingpenalty\@MM
10930 \vbox to\dfn@dim{}}\fi
10931 \ifdim\dfn@fnht>\@tempdima
10932 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10933 \global\dfn@fnht\@tempdima
10934 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10935 \xdef\dfn@afteroutput{\insert\footins{
10936 \floatingpenalty\@MM
10937 \vbox to\number\@tempdimb sp{}}%
10938 \global\let\noexpand\dfn@afteroutput\relax}%
10939 \fi\fi
10940 \fi}%
10941 \let\footnoterule\relax \dfn@latex@makecol
10942 \let\footnoterule\dfn@footnoterule}
10943 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10944 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10945 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10946 \DFNalwaysdouble

```



79 File diagbox-xetex-bidi.def

```
10947 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10948 \bidi@patchcmd{\diagbox@double}{%
10949   \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10950 }{\bidi@@diagbox@double@ii}{-}{-}
10951 \bidi@patchcmd{\diagbox@double}{%
10952   \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10953 }{\bidi@@diagbox@double@iii}{-}{-}
10954 \newcommand*\bidi@@diagbox@double@ii}{%
10955   \ifRTL
10956     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepl}}
10957   \else
10958     \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10959   \fi
10960 }
10961 \newcommand*\bidi@@diagbox@double@iii}{%
10962   \ifRTL
10963     \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}
10964   \else
10965     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10966   \fi
10967 }
10968 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10969   \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10970 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10971 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10972   \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10973 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
10974 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10975   \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10976 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
10977 \newcommand*\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
10978   \ifRTL
10979     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepl}}
10980   \else
10981     \begin{tabular}{@{\hspace{\diagbox@insepl}}>\diagbox@font}l@{}
10982   \fi}
10983 \newcommand*\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
10984   \ifRTL
10985     \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}
10986   \else
10987     \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}
10988   \fi}
10989 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
10990 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10991   \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}%
10992 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
10993 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10994   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10995 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10996 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10997   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10998 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
```



```

11099 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@i}{%
11000 \if@RTL
11001 \begin{tabular}{@{}r{\hspace{\diagbox@insepl}}}
11002 \else
11003 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11004 \fi
11005 }
11006 \newcommand*{\bidi@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11007 \if@RTL
11008 \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11009 \else
11010 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}
11011 \fi
11012 }
11013 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11014 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11015 \diagbox@setlinecolor
11016 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11017 }{%
11018 {\diagbox@setlinecolor
11019 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11020 }{}{}
11021 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11022 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11023 \diagbox@setlinecolor
11024 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11025 }{%
11026 {\diagbox@setlinecolor
11027 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11028 }{}{}
11029 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11030 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11031 \diagbox@setlinecolor
11032 \Line(0,\yym)(\x,0)
11033 \Line(\xm,\y)(\x,0)%
11034 }{%
11035 {\diagbox@setlinecolor
11036 \Line(0,\yym)(\x,0)
11037 \Line(\xm,\y)(\x,0)}%
11038 }{}{}
11039 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11040 \diagbox@setlinecolor
11041 \Line(0,0)(\xxm,\y)
11042 \Line(0,0)(\x,\yym)%
11043 }{%
11044 {\diagbox@setlinecolor
11045 \Line(0,0)(\xxm,\y)
11046 \Line(0,0)(\x,\yym)}%
11047 }{}{}
11048 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11049 \diagbox@setlinecolor
11050 \Line(0,\ym)(\x,\y)
11051 \Line(\xm,0)(\x,\y)%
11052 }{%

```



```

11053 {\diagbox@setlinecolor
11054 \Line(0,\ym)(\x,\y)
11055 \Line(\xm,0)(\x,\y)}%
11056 }{}{}
11057 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11058 \diagbox@setlinecolor
11059 \Line(0,\y)(\xxm,0)
11060 \Line(0,\y)(\x,\ym)}%
11061 }{}%
11062 {\diagbox@setlinecolor
11063 \Line(0,\y)(\xxm,0)
11064 \Line(0,\y)(\x,\ym)}%
11065 }{}{}

```

80 File draftwatermark-xetex-bidi.def

```

11066 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11067 \renewcommand\SetWatermarkText[1]{%
11068 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

81 File eso-pic-xetex-bidi.def

```

11069 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11070 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11071 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}
11072
11073 \ESO@isMEMOIR{%
11074 \renewcommand\AtTextUpperLeft[1]{%
11075 \begingroup
11076 \ifodd\c@page
11077 \if@RTLmain
11078 \ESO@tempdima=\paperwidth
11079 \advance\ESO@tempdima-\textwidth
11080 \advance\ESO@tempdima-\spinemargin
11081 \else
11082 \ESO@tempdima=\spinemargin
11083 \fi
11084 \else
11085 \if@RTLmain
11086 \ESO@tempdima=\spinemargin
11087 \else
11088 \ESO@tempdima=\paperwidth
11089 \advance\ESO@tempdima-\textwidth
11090 \advance\ESO@tempdima-\spinemargin
11091 \fi
11092 \fi
11093 \ESO@tempdimb=-\uppermargin
11094 \AtPageUpperLeft{%
11095 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11096 }%
11097 \endgroup
11098 }
11099 }{}%
11100 \renewcommand\AtTextUpperLeft[1]{%

```



```

11101 \begingroup
11102 \ESO@tempdima=1in\relax
11103 \if@twoside
11104 \ifodd\c@page
11105 \if@RTLmain
11106 \advance\ESO@tempdima\evensidemargin
11107 \else
11108 \advance\ESO@tempdima\oddsidemargin
11109 \fi
11110 \else
11111 \if@RTLmain
11112 \advance\ESO@tempdima\oddsidemargin
11113 \else
11114 \advance\ESO@tempdima\evensidemargin
11115 \fi
11116 \fi
11117 \else
11118 \advance\ESO@tempdima\oddsidemargin
11119 \fi
11120 \ESO@tempdimb=-1in\relax
11121 \advance\ESO@tempdimb-\topmargin
11122 \advance\ESO@tempdimb-\headheight
11123 \advance\ESO@tempdimb-\headsep
11124 \AtPageUpperLeft{%
11125 \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11126 }%
11127 \endgroup
11128 }
11129 }

```

82 File empheq-xetex-bidi.def

```

11130 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11131 \MHInternalSyntaxOn
11132 \def\EQ_tag_plus_endmark:{%
11133 \iftagsleft@
11134 \gdef\maketag@@@##1{%
11135 \hfuzz\displaywidth
11136 \if@RTL\makebox[\widthof{##1}][r]{%
11137 \hbox to \displaywidth{\m@th\normalfont##1\hss
11138 \raisebox{-\dp\EQ_mathdisplay_box
11139 -\depthof{\EQ_outerbox:}}{
11140 {\PotEndMark{\hss}}}}
11141 \else\makebox[\widthof{##1}][l]{%
11142 \hbox to \displaywidth{\m@th\normalfont##1\hss
11143 \raisebox{-\dp\EQ_mathdisplay_box
11144 -\depthof{\EQ_outerbox:}}{
11145 {\PotEndMark{\hss}}}}\fi}%
11146 \MH_else:
11147 \gdef\maketag@@@##1{%
11148 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11149 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11150 \MH_addtolength:dn \@tempdima
11151 {\g_EQ_bottomtag_depth_dim+\mintagvsep}

```




```

11152     \setlength{\@tempdimb}
11153         {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11154         +\depthof{\EQ_innerbox:}}
11155     \MH_if_dim:w \@tempdima>\@tempdimb
11156     \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11157         -\@tempdima+\g_EQ_bottomrow_depth_dim}
11158     \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}
11159     \def\EQ_next:{\raisebox{\@tempdima}}%
11160     \MH_else:
11161     \def\EQ_next:{
11162         \raisebox{-\dp\EQ_mathdisplay_box
11163             -\depthof{\EQ_outerbox:}}}%
11164     \MH_fi:\EQ_next:}}}%
11165 \MH_fi:}
11166 \def\EQ_post_process:{%
11167 \EQ_initialize:
11168 \EQ_begin_equation:
11169 \MH_if_boolean:nT {outer_mult}{
11170     \setkeys{\MT_options_name:}{
11171         firstline-afterskip=Opt,
11172         lastline-preskip=Opt,
11173         multlined-width=Opt,
11174     }
11175     \ifodd \l_EQ_alignmentmode_int
11176     \setkeys{\MT_options_name:}{multlined-pos=b}
11177     \MH_else:
11178     \setkeys{\MT_options_name:}{multlined-pos=t}
11179     \MH_fi:
11180     \g@addto@macro\EQ_complete_mathdisplay:{
11181         \begin{MTmultlined}\relax
11182     }
11183     \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11184     \MH_if_boolean:nT {outer_mult}{
11185         \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11186     }
11187     \EQ_end_equation:
11188     \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11189     \savecounters@
11190     \EQ_typeset_tags:
11191     \edef\l_EQ_equation_fint{\number\c@equation}
11192     \restorecounters@
11193     \Hy@linkcounter=\EQ_hyperref_link_fint
11194     \settowidth\l_EQ_totalwidth_dim{%
11195         $\EQ_left_side:\EQ_innerbox:}\EQ_right_side:$}%
11196     \MH_if_boolean:nTF {outer_mult}
11197         { \def\EQ_next:{_mult} }
11198         { \def\EQ_next:{} }
11199     \@nameuse{EQ_modify_linewidth_
11200         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11201     \EQ_typeset_display:
11202     \@nameuse{EQ_find_displaywidth_
11203         \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11204     \MH_addtolength:dn
11205     \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}

```



```

11206 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11207   $\EQ_left_side:
11208   \EQ_innerbox:{%
11209     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11210     \makebox[\l_EQ_displaywidth_dim][c]
11211     {\usebox{\EQ_mathdisplay_box}}%
11212   \MH_or:
11213     \makebox[\l_EQ_displaywidth_dim][c]
11214     {\usebox{\EQ_mathdisplay_box}}%
11215   \MH_or:
11216     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11217       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11218       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11219         \kern-\@mathmargin
11220         \MH_fi:
11221       \MH_fi:
11222       \usebox{\EQ_mathdisplay_box}}%
11223     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11224       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11225       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11226         \kern-\@mathmargin
11227       \MH_fi:
11228       \MH_fi:
11229       \usebox{\EQ_mathdisplay_box}}\fi%
11230   \MH_or:
11231     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11232       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11233       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11234         \kern-\@mathmargin
11235       \MH_fi:
11236       \MH_fi:
11237       \usebox{\EQ_mathdisplay_box}}
11238     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11239       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11240       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11241         \kern-\@mathmargin
11242       \MH_fi:
11243       \MH_fi:
11244       \usebox{\EQ_mathdisplay_box}}\fi%
11245   \MH_fi:}%
11246   \EQ_right_side:$}%
11247 \begin{AmSequation*}
11248 \@nameuse{EQ_place_display_
11249   \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11250 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11251 \MH_set_boolean_T:n {show_manual_tags}
11252 \MH_if_case:w \l_EQ_alignmentmode_int
11253 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11254 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11255 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11256 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11257 \MH_fi:
11258 \MH_fi:
11259 \end{AmSequation*}

```



```

11260 \global\c@equation=\l_EQ_equation_fint\relax
11261 }
11262 \AtBeginDocument{%
11263   \@ifpackageloaded{fancybox}{%
11264     \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11265     {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11266     \renewcommand*\shadowbox{%
11267       \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11268         \VerbBox\EQ_shadowbox:n}
11269       {\MH_set_boolean_F:n {shadowbox_star}
11270         \VerbBox\EQ_shadowbox:n}}
11271     \def\EQ_shadowbox:n #1{%
11272       \sbox{z@}{\fbox{#1}}%
11273       \MH_if_boolean:nTF {shadowbox_star}{
11274         \MH_setlength:dn \@tempdima{z@}%
11275       }{
11276         \MH_setlength:dn \@tempdima{\dp z@+\shadowsize}%
11277       }
11278       \raisebox{\@tempdima}{%
11279         \if@RTL\makebox[z@][r]{%
11280           \kern\shadowsize \textcolor{shadowcolor}{%
11281             \rule[-\dp z@-\shadowsize]{\wd z@}{\shadowsize}}%
11282         }%
11283         \else\makebox[z@][l]{%
11284           \kern\shadowsize \textcolor{shadowcolor}{%
11285             \rule[-\dp z@-\shadowsize]{\wd z@}{\shadowsize}}%
11286         }\fi%
11287         \usebox z@\textcolor{shadowcolor}{%
11288           \rule[-\dp z@-\shadowsize]{\shadowsize}{\ht z@+\dp z@}}}%
11289       }{}%
11290 }
11291 \MHInternalSyntaxOff

```

83 File extarticle-xetex-bidi.def

```

11292 \ProvidesFile{extarticle-xetex-bidi.def}[2025/01/05 v0.5 bidi adaptations for extarticle cla
11293 \renewcommand*\l@section[2]{%
11294   \ifnum \c@tocdepth >z@
11295     \addpenalty\@secpenalty
11296     \addvspace{1.0em \@plus\p@}%
11297     \setlength\@tempdima{1.5em}%
11298     \begingroup
11299       \parindent z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11300       \parfillskip -\@pnumwidth
11301       \leavevmode \bfseries
11302       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11303       \hskip -\if@RTL\rightskip\else\leftskip\fi
11304       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11305     \endgroup
11306   \fi}
11307 \renewcommand*\l@part[2]{%
11308 \ifnum \c@tocdepth >-2\relax
11309   \addpenalty\@secpenalty
11310   \addvspace{2.25em \@plus\p@}%

```



```

11311 \beginngroup
11312 \setlength\@tempdima{3em}%
11313 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11314 \parfillskip -\@pnumwidth
11315 {\leavevmode
11316 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11317 \nobreak
11318 \endgroup
11319 \fi}
11320 \def\@part[#1]#2{%
11321 \ifnum \c@secnumdepth >\m@ne
11322 \refstepcounter{part}%
11323 \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
11324 \else
11325 \addcontentsline{toc}{part}{#1}%
11326 \fi
11327 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11328 \interlinepenalty \@M
11329 \normalfont
11330 \ifnum \c@secnumdepth >\m@ne
11331 \Large\bfseries \partname-\thepart
11332 \par\nobreak
11333 \fi
11334 \huge \bfseries #2%
11335 \markboth{}{}\par}%
11336 \nobreak
11337 \vskip 3ex
11338 \@afterheading}
11339 \ApplyPatchIfPackageLoaded{nameref}{%
11340 \bidi@patchcmd\NR@spart\raggedright{%
11341 \if@RTL\raggedleft\else\raggedright\fi
11342 }-{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}}%
11343 }{%
11344 \bidi@patchcmd\@spart\raggedright{%
11345 \if@RTL\raggedleft\else\raggedright\fi
11346 }-{\bidi@warningnoline{Oops! patching `string@\@spart' failed}}}%
11347 }
11348 \renewenvironment{thebibliography}[1]
11349 {\section*\refname
11350 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11351 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11352 \bidi@@thebibliography@font@hook%
11353 \list{\@biblabel{\@arabic\c@enumiv}}%
11354 {\settowidth\labelwidth{\@biblabel{#1}}%
11355 \leftmargin\labelwidth
11356 \advance\leftmargin\labelsep
11357 \@openbib@code
11358 \usecounter{enumiv}}%
11359 \let\p@enumiv\@empty
11360 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11361 \sloppy\clubpenalty4000\widowpenalty4000%
11362 \sfcode`. \@m}
11363 {\def\@noitemerr
11364 {\@latex@warning{Empty `thebibliography' environment}}}%

```



```

11365     \endlist}
11366 \renewcommand\left@footnoterule{%
11367   \kern-3\p@
11368   \hrule\@width.4\columnwidth
11369   \kern2.6\p@}
11370 \renewcommand\right@footnoterule{%
11371   \kern-3\p@
11372   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11373   \kern2.6\p@}
11374   \if@titlepage
11375   \renewcommand\maketitle{\begin{titlepage}%
11376     \let\footnotesize\small
11377     \let\right@footnoterule\relax
11378     \let\left@footnoterule\relax
11379     \let\textwidth@footnoterule\relax
11380     \let \footnote \thanks
11381     \null\vfil
11382     \vskip 60\p@
11383     \begin{center}%
11384       {\LARGE \@title \par}%
11385       \vskip 3em%
11386       {\large
11387         \lineskip .75em%
11388         \begin{tabular}[t]{c}%
11389           \@author
11390           \end{tabular}\par}%
11391       \vskip 1.5em%
11392       {\large \@date \par}%           % Set date in \large size.
11393     \end{center}\par
11394     \@thanks
11395     \vfil\null
11396   \end{titlepage}%
11397   \setcounter{footnote}{0}%
11398   \global\let\thanks\relax
11399   \global\let\maketitle\relax
11400   \global\let\@thanks\@empty
11401   \global\let\@author\@empty
11402   \global\let\@date\@empty
11403   \global\let\@title\@empty
11404   \global\let\title\relax
11405   \global\let\author\relax
11406   \global\let\date\relax
11407   \global\let\and\relax
11408 }
11409 \else
11410 \renewcommand\maketitle{\par
11411   \begingroup
11412     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11413     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11414     \long\def\@makefntext##1{\parindent 1em\noindent
11415       \hb@xt@1.8em{%
11416         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11417     \if@twocolumn
11418       \ifnum \col@number=\@ne

```



```

11419     \@maketitle
11420     \else
11421       \twocolumn[\@maketitle]%
11422     \fi
11423   \else
11424     \newpage
11425     \global\@topnum\z@ % Prevents figures from going at top of page.
11426     \@maketitle
11427     \fi
11428     \thispagestyle{plain}\@thanks
11429 \endgroup
11430 \setcounter{footnote}{0}%
11431 \global\let\thanks\relax
11432 \global\let\maketitle\relax
11433 \global\let\@maketitle\relax
11434 \global\let\@thanks\@empty
11435 \global\let\@author\@empty
11436 \global\let\@date\@empty
11437 \global\let\@title\@empty
11438 \global\let\title\relax
11439 \global\let\author\relax
11440 \global\let\date\relax
11441 \global\let\and\relax
11442 }
11443 \def\@maketitle{%
11444   \newpage
11445   \null
11446   \vskip 2em%
11447   \begin{center}%
11448     \let \footnote \thanks
11449     {\LARGE \@title \par}%
11450     \vskip 1.5em%
11451     {\large
11452       \lineskip .5em%
11453       \begin{tabular}[t]{c}%
11454         \@author
11455       \end{tabular}\par}%
11456     \vskip 1em%
11457     {\large \@date}%
11458   \end{center}%
11459   \par
11460   \vskip 1.5em}
11461 \fi
11462 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11463 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11464 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11465 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

84 File extbook-xetex-bidi.def

```

11466 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11467 \if@titlepage
11468 \renewcommand\maketitle{\begin{titlepage}%
11469 \let\footnotesize\small

```



```

11470 \let\right@footnoterule\relax
11471 \let\left@footnoterule\relax
11472 \let\textwidth@footnoterule\relax
11473 \let \footnote \thanks
11474 \let \LTRfootnote \LTRthanks
11475 \let \RTLfootnote \RTLthanks
11476 \null\vfil
11477 \vskip 60\p@
11478 \begin{center}%
11479   {\LARGE \@title \par}%
11480   \vskip 3em%
11481   {\large
11482     \lineskip .75em%
11483     \begin{tabular}[t]{c}%
11484       \@author
11485     \end{tabular}\par}%
11486     \vskip 1.5em%
11487     {\large \@date \par}%           % Set date in \large size.
11488 \end{center}\par
11489 \@thanks
11490 \vfil\null
11491 \end{titlepage}%
11492 \setcounter{footnote}{0}%
11493 \global\let\thanks\relax
11494 \global\let\LTRthanks\relax
11495 \global\let\RTLthanks\relax
11496 \global\let\maketitle\relax
11497 \global\let\@thanks\@empty
11498 \global\let\@author\@empty
11499 \global\let\@date\@empty
11500 \global\let\@title\@empty
11501 \global\let\title\relax
11502 \global\let\author\relax
11503 \global\let\date\relax
11504 \global\let\and\relax
11505 }
11506 \else
11507 \renewcommand\maketitle{\par
11508   \begingroup
11509     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11510     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11511     \long\def\@makefntext##1{\parindent 1em\noindent
11512       \hb@xt@1.8em{%
11513         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11514     \if@twocolumn
11515       \ifnum \col@number=\@ne
11516         \@maketitle
11517       \else
11518         \twocolumn[\@maketitle]%
11519       \fi
11520     \else
11521       \newpage
11522       \global\@topnum\z@   % Prevents figures from going at top of page.
11523       \@maketitle

```



```

11524     \fi
11525     \thispagestyle{plain}\@thanks
11526 \endgroup
11527 \setcounter{footnote}{0}%
11528 \global\let\thanks\relax
11529 \global\let\LTRthanks\relax
11530 \global\let\RTLthanks\relax
11531 \global\let\maketitle\relax
11532 \global\let\@maketitle\relax
11533 \global\let\@thanks\@empty
11534 \global\let\@author\@empty
11535 \global\let\@date\@empty
11536 \global\let\@title\@empty
11537 \global\let\title\relax
11538 \global\let\author\relax
11539 \global\let\date\relax
11540 \global\let\and\relax
11541 }
11542 \def\@maketitle{%
11543 \newpage
11544 \null
11545 \vskip 2em%
11546 \begin{center}%
11547 \let \footnote \thanks
11548 \let \LTRfootnote \LTRthanks
11549 \let \RTLfootnote \RTLthanks
11550 {\LARGE \@title \par}%
11551 \vskip 1.5em%
11552 {\large
11553 \lineskip .5em%
11554 \begin{tabular}[t]{c}%
11555 \@author
11556 \end{tabular}\par}%
11557 \vskip 1em%
11558 {\large \@date}%
11559 \end{center}%
11560 \par
11561 \vskip 1.5em}
11562 \fi
11563 \renewcommand*\l@part[2]{%
11564 \ifnum \c@tocdepth >-2\relax
11565 \addpenalty{-\@highpenalty}%
11566 \addvspace{2.25em \@plus\p}%
11567 \begingroup
11568 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11569 \parfillskip -\@pnumwidth
11570 {\leavevmode
11571 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11572 \nobreak
11573 \global\@nobreaktrue
11574 \everypar{\global\@nobreakfalse\everypar{}}%
11575 \endgroup
11576 \fi}
11577 \renewcommand\theequation

```




```

11578 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11579 \renewcommand \thefigure
11580     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11581 \renewcommand \thetable
11582     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11583 \renewcommand \thechapter {\@arabic\c@chapter}
11584 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11585 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11586 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11587 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11588 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11589 \def\@makechapterhead#1{%
11590     \vspace*{50\p@}%
11591     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11592       \ifnum \c@secnumdepth >\m@ne
11593         \if@mainmatter
11594           \huge\bfseries \@chapapp\space \thechapter
11595           \par\nobreak
11596           \vskip 20\p@
11597         \fi
11598         \fi
11599         \interlinepenalty\@M
11600         \Huge \bfseries #1\par\nobreak
11601         \vskip 40\p@
11602     }}
11603
11604 \def\@makeschapterhead#1{%
11605     \vspace*{50\p@}%
11606     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11607       \normalfont
11608       \interlinepenalty\@M
11609       \Huge \bfseries #1\par\nobreak
11610       \vskip 40\p@
11611     }}
11612 \renewcommand\backmatter{%
11613     \if@openright
11614       \cleardoublepage
11615     \else
11616       \clearpage
11617     \fi
11618     \@mainmatterfalse}
11619 \renewenvironment{thebibliography}[1]
11620     {\chapter*{\bibname
11621       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11622     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11623     \bidi@thebibliography@font@hook%
11624     \list{\@biblabel{\@arabic\c@enumiv}}%
11625       {\settowidth\labelwidth{\@biblabel{#1}}%
11626       \leftmargin\labelwidth
11627       \advance\leftmargin\labelsep
11628       \@openbib@code
11629       \usecounter{enumiv}}%
11630     \let\p@enumiv\@empty
11631     \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

11632     \sloppy
11633     \clubpenalty4000
11634     \@clubpenalty \clubpenalty
11635     \widowpenalty4000%
11636     \sfcode`.\@m}
11637     {\def\@noitemerr
11638       {\@latex@warning{Empty `thebibliography' environment}}}%
11639     \endlist}

```

85 File extletter-xetex-bidi.def

```

11640 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11641 \renewcommand*\opening}[1]{\ifx\@empty\fromaddress
11642   \thispagestyle{firstpage}%
11643   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11644   \else % home address
11645     \thispagestyle{empty}%
11646     {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11647       \fromaddress \*[2\parskip]%
11648       \@date \end{tabular}\par}%
11649   \fi
11650   \vspace{2\parskip}%
11651   {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
11652   \vspace{2\parskip}%
11653   #1\par\nobreak}
11654 \renewcommand\closing}[1]{\par\nobreak\vspace{\parskip}%
11655   \stopbreaks
11656   \noindent
11657   \ifx\@empty\fromaddress\else
11658     \hspace*\{\longindentation\}\fi
11659   \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11660     \ignorespaces #1\[\[6\medskipamount]}%
11661     \ifx\@empty\fromsig
11662       \fromname
11663     \else \fromsig \fi\strut}%
11664   \par}
11665 \renewcommand\left@footnoterule{%
11666   \kern-\p@
11667   \hrule \@width .4\columnwidth
11668   \kern .6\p@}
11669 \renewcommand\right@footnoterule{%
11670   \kern-\p@
11671   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11672   \kern .6\p@}

```

86 File extrafootnotefeatures-xetex-bidi.def

```

11673 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/01/03 v2.7 bidi extra footnote feat
11674 \newdimen\bidi@columnwidth
11675 \def\bidi@floathook{%
11676   \bidi@columnwidth\columnwidth
11677 }
11678 \newcommand*\@bidi@before@Hy@hyperfootnotes}{%
11679 \if@bidi@csundef{\ifHy@hyperfootnotes}{}{%

```



```

11680 \if@bidi@csundef{HLTR@LTRfootnotetext}{-}{%
11681 \ifHy@hyperfootnotes
11682 \let\@H@footnotetext\@footnotetext
11683 \let\@HLTR@LTRfootnotetext\@LTRfootnotetext
11684 \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11685 \let\@H@mpfootnotetext\@mpfootnotetext
11686 \let\@HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
11687 \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11688 \fi
11689 }%
11690 }%
11691 }
11692 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11693 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11694 \if@bidi@csundef{HLTR@LTRfootnotetext}{-}{%
11695 \ifHy@hyperfootnotes
11696 \let\H@footnotetext\@footnotetext
11697 \let\@footnotetext\@H@footnotetext
11698 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
11699 \let\@LTRfootnotetext\@HLTR@LTRfootnotetext
11700 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11701 \let\@RTLfootnotetext\@HRTL@RTLfootnotetext
11702 \let\H@mpfootnotetext\@mpfootnotetext
11703 \let\@mpfootnotetext\@H@mpfootnotetext
11704 \let\HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
11705 \let\@mpLTRfootnotetext\@HLTR@mpLTRfootnotetext
11706 \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11707 \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
11708 \fi
11709 }%
11710 }%
11711 }
11712 \let\autofooterule\relax
11713 \let\rightfootnoterule\relax
11714 \let\leftfootnoterule\relax
11715 \let\textwidthfootnoterule\relax
11716 \let\LRfootnoterule\relax
11717 \def\footnoterule{\kern-3\p@
11718 \hrule \@width \columnwidth \kern 2.6\p@}
11719 \newcommand{\@preamnormalfmt}{%
11720 \parindent 1em%
11721 \noindent
11722 }
11723 \newcommand{\@normalfootfmt}[1]{%
11724 \@preamnormalfmt
11725 \footfootmark
11726 \rule{z@\footnotesep\ignorespaces}{\foottextfont #1}%
11727 \@finalstrut\strutbox
11728 }
11729 \newcommand{\@normalRTLfootfmt}[1]{%
11730 \@preamnormalfmt
11731 \RTLfootfootmark
11732 \rule{z@\footnotesep\ignorespaces}{\RTLfoottextfont #1}%
11733 \@finalstrut\strutbox

```



```

11734 }
11735 \newcommand{\@normalLTRfootfmt}[1]{%
11736   \@preamnormalfmt
11737   \LTRfootfootmark
11738   \rule\z@\footnotese\ignorespaces{\LTRfoottextfont #1}%
11739   \@finalstrut\strutbox
11740 }
11741 \renewcommand{\@footnotetext}[1]{%
11742   \insert\footins{%
11743     \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11744     \def\baselinestretch{\m@m@footnote@spacing}%
11745     \reset@font
11746     \foottextfont
11747     \@preamfntext
11748     \hsize\columnwidth
11749     \protected@edef\@currentlabel{%
11750       \csname p@footnote\endcsname\@thefnmark}%
11751     \color@begingroup
11752     \@normalfootfmt{#1}%
11753     \color@endgroup}%
11754     \m@mmf@prepare}
11755 \newcommand{\@bidi@bidiold@footnotetext}[1]{%
11756   \bidi@step@absolute@footnote@count
11757   \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11758   \insert\footins{%
11759     \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11760     \def\baselinestretch{\m@m@footnote@spacing}%
11761     \reset@font
11762     \foottextfont
11763     \@preamfntext
11764     \hsize\columnwidth
11765     \protected@edef\@currentlabel{%
11766       \csname p@footnote\endcsname\@thefnmark}%
11767     \color@begingroup
11768     \@normalfootfmt{#1}%
11769     \color@endgroup}%
11770     \m@mmf@prepare}
11771 }
11772 \renewcommand{\@RTLfootnotetext}[1]{%
11773   \insert\footins{%
11774     \@RTLtrue%
11775     \def\baselinestretch{\m@m@footnote@spacing}%
11776     \reset@font
11777     \RTLfoottextfont
11778     \@preamfntext
11779     \hsize\columnwidth
11780     \protected@edef\@currentlabel{%
11781       \csname p@footnote\endcsname\@thefnmark}%
11782     \color@begingroup
11783     \@normalRTLfootfmt{#1}%
11784     \color@endgroup}%
11785     \m@mmf@prepare}
11786 \newcommand{\@bidi@bidiold@RTLfootnotetext}[1]{%
11787   \bidi@step@absolute@footnote@count

```



```

11788 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11789 \insert\footins{%
11790 \@RTLtrue%
11791 \def\baselinestretch{\m@m@footnote@spacing}%
11792 \reset@font
11793 \RTLfoottextfont
11794 \@preamfntext
11795 \hsize\columnwidth
11796 \protected@edef\@currentlabel{%
11797 \csname p@footnote\endcsname\@thefnmark}%
11798 \color@begingroup
11799 \@normalRTLfootfmt{#1}%
11800 \color@endgroup}%
11801 \m@mmf@prepare
11802 }
11803 \renewcommand{\@LTRfootnotetext}[1]{%
11804 \insert\footins{%
11805 \@RTLfalse%
11806 \def\baselinestretch{\m@m@footnote@spacing}%
11807 \reset@font
11808 \LTRfoottextfont
11809 \@preamfntext
11810 \hsize\columnwidth
11811 \protected@edef\@currentlabel{%
11812 \csname p@footnote\endcsname\@thefnmark}%
11813 \color@begingroup
11814 \@normalLTRfootfmt{#1}%
11815 \color@endgroup}%
11816 \m@mmf@prepare}
11817 \renewcommand{\@mpfootnotetext}[1]{%
11818 \global\setbox\@mpfootins\vbox{%
11819 \unvbox\@mpfootins
11820 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11821 \def\baselinestretch{\m@m@footnote@spacing}%
11822 \reset@font%
11823 \foottextfont \hsize\columnwidth \@parboxrestore
11824 \protected@edef\@currentlabel{%
11825 \csname p@mpfootnote\endcsname\@thefnmark}%
11826 \color@begingroup
11827 \@normalfootfmt{#1}%
11828 \color@endgroup}}
11829 \newcommand{\bidi@bidiold@mpfootnotetext}[1]{%
11830 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11831 \global\setbox\@mpfootins\vbox{%
11832 \unvbox\@mpfootins
11833 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11834 \def\baselinestretch{\m@m@footnote@spacing}%
11835 \reset@font%
11836 \foottextfont \hsize\columnwidth \@parboxrestore
11837 \protected@edef\@currentlabel{%
11838 \csname p@mpfootnote\endcsname\@thefnmark}%
11839 \color@begingroup
11840 \@normalfootfmt{#1}%
11841 \color@endgroup}}

```



```

11842 \renewcommand{\@mpLTRfootnotetext}[1]{%
11843   \global\setbox\@mpfootins\vbox{%
11844     \unvbox\@mpfootins
11845     \@RTLfalse
11846     \def\baselinestretch{\m@m@footnote@spacing}%
11847     \reset@font%
11848     \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11849     \protected@edef\@currentlabel{%
11850       \csname p@mpfootnote\endcsname\@thefnmark}%
11851     \color@begingroup
11852     \@normalLTRfootfmt{#1}%
11853     \color@endgroup}}
11854 \renewcommand{\@mpRTLfootnotetext}[1]{%
11855   \global\setbox\@mpfootins\vbox{%
11856     \unvbox\@mpfootins
11857     \@RTLtrue
11858     \def\baselinestretch{\m@m@footnote@spacing}%
11859     \reset@font%
11860     \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11861     \protected@edef\@currentlabel{%
11862       \csname p@mpfootnote\endcsname\@thefnmark}%
11863     \color@begingroup
11864     \@normalRTLfootfmt{#1}%
11865     \color@endgroup}}
11866 \newcommand{\bidi@bidiold@mpRTLfootnotetext}[1]{%
11867   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11868   \global\setbox\@mpfootins\vbox{%
11869     \unvbox\@mpfootins
11870     \@RTLtrue
11871     \def\baselinestretch{\m@m@footnote@spacing}%
11872     \reset@font%
11873     \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11874     \protected@edef\@currentlabel{%
11875       \csname p@mpfootnote\endcsname\@thefnmark}%
11876     \color@begingroup
11877     \@normalRTLfootfmt{#1}%
11878     \color@endgroup}}
11879 \let\m@mold@footnotetext\@footnotetext
11880 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11881 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11882 \let\m@mold@mpfootnotetext\@mpfootnotetext
11883 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11884 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11885 \bidi@ensure@newcommand{\normalfootnotes}{%
11886   \@bidi@before@Hy@hyperfootnotes
11887   \let\@footnotetext\m@mold@footnotetext
11888   \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11889   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11890   \let\@mpfootnotetext\m@mold@mpfootnotetext
11891   \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11892   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11893   \@bidi@after@Hy@hyperfootnotes
11894   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11895 }

```



```

11896 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11897 \bidi@ensure@newcommand*\setSingleSpace{1}{%
11898   \def\m@m@singlespace{#1}%
11899   \def\m@m@footnote@spacing{#1}%
11900   \def\m@m@float@spacing{#1} %
11901 }
11902 \setSingleSpace{1}
11903 \bidi@ensure@newcommand*\multiplefootnotemarker{3sp}
11904 \bidi@ensure@newcommand*\m@mmf@prepare{%
11905   \kern-\multiplefootnotemarker
11906   \kern\multiplefootnotemarker\relax}
11907 \bidi@ensure@newlength{footmarkwidth}
11908 \bidi@ensure@newcommand*\footmarkstyle[1]{\def\footscript##1{#1}}
11909 \bidi@ensure@newcommand*\LTRfootmarkstyle[1]{\def\LTRfootscript##1{#1}}
11910 \bidi@ensure@newcommand*\RTLfootmarkstyle[1]{\def\RTLfootscript##1{#1}}
11911 \bidi@ensure@newcommand\footfootmark{%
11912   \ifdim\footmarkwidth < \z@
11913     \llap{\hb@xt@ -\footmarkwidth{%
11914       \hss\normalfont\footscript{\@thefnmark}}%
11915       \hspace*{-\footmarkwidth}}}%
11916   \else
11917     \ifdim\footmarkwidth = \z@
11918       {\normalfont\footscript{\@thefnmark}}%
11919     \else
11920       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11921     \fi
11922   \fi}
11923 \bidi@ensure@newcommand\LTRfootfootmark{%
11924   \ifdim\footmarkwidth < \z@
11925     \llap{\hb@xt@ -\footmarkwidth{%
11926       \hss\normalfont\LTRfootscript{\@thefnmark}}%
11927       \hspace*{-\footmarkwidth}}}%
11928   \else
11929     \ifdim\footmarkwidth = \z@
11930       {\normalfont\LTRfootscript{\@thefnmark}}%
11931     \else
11932       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11933     \fi
11934   \fi}
11935 \bidi@ensure@newcommand\RTLfootfootmark{%
11936   \ifdim\footmarkwidth < \z@
11937     \llap{\hb@xt@ -\footmarkwidth{%
11938       \hss\normalfont\RTLfootscript{\@thefnmark}}%
11939       \hspace*{-\footmarkwidth}}}%
11940   \else
11941     \ifdim\footmarkwidth = \z@
11942       {\normalfont\RTLfootscript{\@thefnmark}}%
11943     \else
11944       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11945     \fi
11946   \fi}
11947 \footmarkstyle{\textsuperscript{#1}}
11948 \LTRfootmarkstyle{\textsuperscript{#1}}
11949 \RTLfootmarkstyle{\textsuperscript{#1}}

```



```

11950 \newcommand*{\bidi@normal@footmarkwidth}{%
11951   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11952 }
11953 \newcommand*{\bidi@star@footmarkwidth}{%
11954   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11955 }
11956 \bidi@normal@footmarkwidth
11957 \bidi@ensure@newcommand{\m@mmdoextrafeet}{\extrafeetins}
11958 \bidi@ensure@newcommand*{\extrafeetins}{%
11959   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11960   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11961   \bidi@joinfootnotes\@bidi@copyins@{ }\@unvbox\@bidi@copyins@}%
11962   \extrafeetinshook}
11963 \bidi@ensure@newcommand{\extrafeetinshook}{ }
11964 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11965 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11966 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11967 \bidi@ensure@newlength{\footinsdim}
11968   \setlength{\footinsdim}{8in} % standard for \dimen\footins
11969 \bidi@ensure@newcommand{\@preamfntext}{%
11970   \interlinepenalty\interfootnotelinepenalty
11971   \floatingpenalty \@MM
11972   \splittopskip=\footnotesep
11973   \splitmaxdepth=\dp\strutbox
11974   \@parboxrestore}
11975 \def\bidi@ifmulticol#1#2{\@tempswafalse
11976   \ifnum\col@number>\@ne
11977     \ifnum\count\footins>1999 \@tempswatruetrue \fi
11978   \fi
11979   \if@tempswa #1\else #2\fi
11980 }
11981 \def\bidi@joinfootnotes#1#2#3{%
11982   \ifvoid#1
11983   \else
11984     \@tempskipa\skip#1%
11985     \bidi@ifmulticol{\divide\@tempskipa\col@number}{ }%
11986     \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11987     \bidi@removexfootskip
11988     \ifvoid\footins
11989       \global\setbox\footins\vbox{#2#3}%
11990     \else
11991       \global\setbox\footins\vbox{%
11992         \unvbox\footins
11993         \bidi@footskip
11994         #2#3%
11995       }%
11996     \fi
11997   \fi
11998 }
11999 \def\bidi@reinsertfootnote#1#2#3{%
12000   \ifvoid#1%
12001   \else
12002     \insert\footins{#2#3}%
12003   \fi

```




```

12004 }
12005 \def\bidijoinmpfootnotes#1#2#3{%
12006   \ifvoid#1
12007   \else
12008     \@tempskipa\skip#1%
12009     \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
12010     \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12011     \bidi@removexfootskip
12012     \ifvoid\@mpfootins
12013       \global\setbox\@mpfootins\vbox{#2#3}%
12014     \else
12015       \global\setbox\@mpfootins\vbox{%
12016         \unvbox\@mpfootins
12017         \bidi@footskip
12018         #2#3%
12019       }%
12020     \fi
12021   \fi
12022 }
12023 \newcount\bidi@absolute@page@count
12024 \bidi@absolute@page@count\@ne
12025 \newcount\bidi@absolute@footnote@count
12026 \bidi@AfterOutputBoxOutputPage{%
12027   \if@filesw
12028     \edef\@tempa{%
12029       \write\@auxout{%
12030         \string\bidi@finalfootnoteperpage%
12031         {\noexpand\number\noexpand\bidi@absolute@page@count}%
12032         {\noexpand\number\noexpand\bidi@absolute@footnote@count}%
12033       }%
12034     }%
12035     \@tempa
12036   \fi
12037 }
12038 \bidi@AtEndOutputPage{%
12039   \global\advance\bidi@absolute@page@count\@ne
12040 }
12041 \newcommand*{\bidi@finalfootnoteperpage}[2]{%
12042   \expandafter\gdef\csname bidi@currentpagefinalfootnote@@#1\endcsname{#2}%
12043 }
12044 \newif\if@bidi@finalfootnoteperpage
12045 \newcommand{\bidi@ifafterfinalfootnoteperpage}[2]{%
12046   \if@bidi@csundef{bidi@currentpagefinalfootnote@@\number\bidi@absolute@page@count}{%
12047     \global\@bidi@finalfootnoteperpagetrue
12048   }{%
12049     \global\@bidi@finalfootnoteperpagefalse
12050     \ifnum\bidi@absolute@footnote@count=\bidi@csuse{bidi@currentpagefinalfootnote@@\number\bidi@absolute@footnote@count}
12051       #1%
12052     \else
12053       #2%
12054     \fi
12055   }%
12056 }
12057 \newcommand{\bidi@reinsertfinalfootnoteperpage}[3]{%

```



```

12058 \bidi@ifafterfinalfootnoteperpage{%
12059   \bidi@reinsertfootnote{#1}{#2}{#3}%
12060 }{%
12061 }%
12062 }
12063 \newcommand*{\bidi@step@absolutefootnote@count}{%
12064   \global\advance\bidi@absolutefootnote@count\one
12065 }
12066 \bidi@AfterEndDocumentCheckLabelsRerun{%
12067   \if@bidi@finalfootnoteperpage
12068     \PackageWarningNoLine{bidi}{%
12069       The absolute final footnote is not
12070       known on every page of your
12071       document. Rerun TeX to get the
12072       absolute final footnote on every page
12073       of your document%
12074     }%
12075   \fi
12076 }
12077 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12078   \extrafeetminihook}
12079 \bidi@ensure@newcommand{\extrafeetendmini}{%
12080 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12081 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12082 \extrafeetendminihook}
12083 \bidi@ensure@newcommand{\extrafeetendminihook}{%
12084 \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12085 \def\endminipage{%
12086   \par
12087   \unskip
12088   \m@mdoextrafeetendmini
12089   \ifvoid\@mpfootins
12090   \else
12091     \vskip\skip\@mpfootins
12092     \normalcolor
12093     \footnoterule
12094     \unvbox\@mpfootins
12095   \fi
12096   \@minipagefalse
12097   \color@endgroup
12098   \egroup
12099   \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12100 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12101   \@namedef{footstart#1}{%
12102     \leftskip=\z@
12103     \rightskip=\z@
12104     \parindent=\z@
12105   }%
12106 }
12107 \newinsert\footinsv@r
12108 \skip\footinsv@r\skip\footins
12109 \count\footinsv@r=1000 % no magnification
12110 \dimen\footinsv@r=\footinsdim
12111 \m@make@footstart{v@r}

```



```

12112 \newinsert\footinsv@l
12113 \skip\footinsv@l\skip\footins
12114 \count\footinsv@l=1000 % no magnification
12115 \dimen\footinsv@l=\footinsdim
12116 \m@make@footstart{v@l}
12117 \bidi@ensure@newcommand{\@footgroupv@r}{=}
12118 \newinsert\@mpfootinsv@r
12119 \skip\@mpfootinsv@r\skip\@mpfootins
12120 \newinsert\@mpfootinsv@l
12121 \skip\@mpfootinsv@l\skip\@mpfootins
12122 \bidi@ensure@newcommand{\mp@footgroupv@r}{=}
12123 \newcount\m@m@k \newdimen\m@m@h
12124 \bidi@ensure@newcommand*{\m@m@rigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12125 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12126 \valign{##\vfill\cr\m@m@dosplits}\endR}}
12127 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12128 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12129 \valign{##\vfill\cr\m@m@dosplits}\endL}}
12130 \bidi@ensure@newcommand*{\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
12131 \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
12132 \bidi@ensure@newcommand*{\m@m@splitoff}{\dimen0=\ht0
12133 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12134 \setbox2 \vsplit0 to \dimen0
12135 \unvbox2 }
12136 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12137 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12138 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12139 \@bidi@before@Hy@hyperfootnotes
12140 \let\@footnotetext\@twocolfootnotetext
12141 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12142 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12143 \dimen\footinsv@r=2\footinsdim
12144 \count\footinsv@r=500\relax
12145 \m@make@twocol@footgroup{v@r}%
12146 \let\@footgroupv@r\@twocol@footgroupv@r
12147 \dimen\footinsv@l=2\footinsdim
12148 \count\footinsv@l=500\relax
12149 \bidi@make@twocol@LTRfootgroup{v@l}%
12150 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12151 \let\@mpfootnotetext\@mptwocolfootnotetext
12152 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12153 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12154 \@bidi@after@Hy@hyperfootnotes
12155 \m@make@mptwocol@footgroup{v@r}%
12156 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12157 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12158 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12159 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12160 }
12161 \newcommand{\TwoColumnFootnotes}{%
12162 \@namedef{foottextfontv@r}{\foottextfont}%
12163 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12164 \@bidi@before@Hy@hyperfootnotes
12165 \let\@footnotetext\@TwoColfootnotetext

```



```

12166 \let\@LTRfootnotetext\@TwoColLTRfootnotetext
12167 \let\@RTLfootnotetext\@TwoColRTLfootnotetext
12168 \dimen\footinsv@r=2\footinsdim
12169 \count\footinsv@r=500\relax
12170 \m@make@twocol@footgroup{v@r}%
12171 \let\@footgroupv@r\@twocol@footgroupv@r
12172 \dimen\footinsv@l=2\footinsdim
12173 \count\footinsv@l=500\relax
12174 \bidi@make@twocol@LTRfootgroup{v@l}%
12175 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12176 \let\@mpfootnotetext\@mpTwoColfootnotetext
12177 \let\@mpLTRfootnotetext\@mpTwoColLTRfootnotetext
12178 \let\@mpRTLfootnotetext\@mpTwoColRTLfootnotetext
12179 \@bidi@after@Hy@hyperfootnotes
12180 \m@make@emptwocol@footgroup{v@r}%
12181 \let\mp@footgroupv@r\@emptwocol@footgroupv@r
12182 \bidi@make@emptwocol@LTRfootgroup{v@l}%
12183 \let\mp@LTRfootgroupv@l\@emptwocol@LTRfootgroupv@l
12184 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12185 }
12186 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12187 \ifRTL@footnote
12188 \footinsv@r
12189 \else
12190 \footinsv@l
12191 \fi
12192 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12193 \def\baselinestretch{\m@footnote@spacing}%
12194 \reset@font\foottextfont
12195 \@preamfntext
12196 \protected@edef\@currentlabel{%
12197 \csname p@footnote\endcsname\@thefnmark}%
12198 \color@begingroup
12199 \@twocolfootfmt{#1}%
12200 \color@endgroup}%
12201 \m@mmf@prepare}
12202 \newcommand{\@TwoColfootnotetext}[1]{%
12203 \bidi@step@absolute@footnote@count
12204 \ifRTL@footnote
12205 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12206 \else
12207 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12208 \fi
12209 \global\setbox
12210 \ifRTL@footnote
12211 \footinsv@r
12212 \else
12213 \footinsv@l
12214 \fi
12215 \vbox{%
12216 \unvbox
12217 \ifRTL@footnote
12218 \footinsv@r
12219 \else

```



```

12220   \footinsv@l
12221   \fi
12222   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12223   \def\baselinestretch{\m@m@footnote@spacing}%
12224   \reset@font\foottextfont
12225   \@preamfntext
12226   \protected@edef\@currentlabel{%
12227     \csname p@footnote\endcsname\@thefnmark}%
12228   \color@begingroup
12229     \@twocolfootfmt{#1}%
12230   \color@endgroup}%
12231   \m@mmf@prepare
12232   \if@RTL@footnote
12233     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12234   \else
12235     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12236   \fi
12237 }
12238 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12239   \def\baselinestretch{\m@m@footnote@spacing}%
12240   \reset@font\LTRfoottextfont
12241   \@preamfntext
12242   \protected@edef\@currentlabel{%
12243     \csname p@footnote\endcsname\@thefnmark}%
12244   \color@begingroup
12245     \@twocolLTRfootfmt{#1}%
12246   \color@endgroup}%
12247   \m@mmf@prepare}
12248 \newcommand{\@TwoCollTRfootnotetext}[1]{%
12249   \bidi@step@absolute@footnote@count
12250 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12251   \global\setbox\footinsv@l\vbox{%
12252     \unvbox\footinsv@l
12253     \@RTLfalse
12254     \def\baselinestretch{\m@m@footnote@spacing}%
12255     \reset@font\LTRfoottextfont
12256     \@preamfntext
12257     \protected@edef\@currentlabel{%
12258       \csname p@footnote\endcsname\@thefnmark}%
12259     \color@begingroup
12260       \@twocolLTRfootfmt{#1}%
12261     \color@endgroup}%
12262     \m@mmf@prepare
12263     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12264 }
12265 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12266   \def\baselinestretch{\m@m@footnote@spacing}%
12267   \reset@font\RTLfoottextfont
12268   \@preamfntext
12269   \protected@edef\@currentlabel{%
12270     \csname p@footnote\endcsname\@thefnmark}%
12271   \color@begingroup
12272     \@twocolRTLfootfmt{#1}%
12273   \color@endgroup}%

```



```

12274 \m@mmf@prepare}
12275 \newcommand{\@TwoColRTLfootnotetext}[1]{%
12276 \bidi@step@absolutefootnote@count
12277 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12278 \global\setbox\footinsv@r\vbox{%
12279 \unvbox\footinsv@r
12280 \RTLtrue
12281 \def\baselinestretch{\m@m@footnote@spacing}%
12282 \reset@font\RTLfoottextfont
12283 \@preamfntext
12284 \protected@edef\@currentlabel{%
12285 \csname p@footnote\endcsname\@thefnmark}%
12286 \color@begingroup
12287 \@twocolRTLfootfmt{#1}%
12288 \color@endgroup}%
12289 \m@mmf@prepare
12290 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12291 }
12292 \bidi@ensure@newcommand{\@preamtwofmt}{%
12293 \hsize .45\hsize
12294 \parindent=\z@
12295 \tolerance=5000\relax
12296 \leavevmode}
12297 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12298 \@preamtwofmt
12299 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12300 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12301 \@preamtwofmt
12302 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12303 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12304 \@preamtwofmt
12305 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12306 \bidi@ensure@newcommand{\@emptwocolfootnotetext}[1]{%
12307 \global\setbox
12308 \if@RTL@footnote
12309 \mpfootinsv@r
12310 \else
12311 \mpfootinsv@l
12312 \fi
12313 \vbox{%
12314 \unvbox
12315 \if@RTL@footnote
12316 \mpfootinsv@r
12317 \else
12318 \mpfootinsv@l
12319 \fi
12320 \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
12321 \def\baselinestretch{\m@m@footnote@spacing}%
12322 \reset@font\foottextfont
12323 \hsize\columnwidth \@parboxrestore
12324 \protected@edef\@currentlabel{%
12325 \csname p@mpfootnote\endcsname\@thefnmark}%
12326 \color@begingroup
12327 \@twocolfootfmt{#1}%

```



```

12328 \color@endgroup}%
12329 \m@mmf@prepare}
12330 \newcommand{\@mpTwoColFootnotetext}[1]{%
12331   \if@RTL@footnote
12332     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12333   \else
12334     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12335   \fi
12336   \global\setbox
12337     \if@RTL@footnote
12338     \@mpfootinsv@r
12339   \else
12340     \@mpfootinsv@l
12341   \fi
12342   \vbox{%
12343     \unvbox
12344     \if@RTL@footnote
12345     \@mpfootinsv@r
12346   \else
12347     \@mpfootinsv@l
12348   \fi
12349   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12350   \def\baselinestretch{\m@m@footnote@spacing}%
12351   \reset@font\foottextfont
12352   \hsize\columnwidth \@parboxrestore
12353   \protected@edef\@currentlabel{%
12354     \csname p@mpfootnote\endcsname\@thefnmark}%
12355   \color@begingroup
12356     \@twocolfootfmt{#1}%
12357   \color@endgroup}%
12358   \m@mmf@prepare}
12359 \bidi@ensure@newcommand{\@mptwoCOLLTRfootnotetext}[1]{%
12360   \global\setbox\@mpfootinsv@l\vbox{%
12361     \unvbox\@mpfootinsv@l
12362     \@RTLfalse
12363     \def\baselinestretch{\m@m@footnote@spacing}%
12364     \reset@font\LTRfoottextfont
12365     \hsize\columnwidth \@parboxrestore
12366     \protected@edef\@currentlabel{%
12367       \csname p@mpfootnote\endcsname\@thefnmark}%
12368     \color@begingroup
12369       \@twocolLTRfootfmt{#1}%
12370     \color@endgroup}%
12371     \m@mmf@prepare}
12372 \newcommand{\@mpTwoCOLLTRfootnotetext}[1]{%
12373   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12374   \global\setbox\@mpfootinsv@l\vbox{%
12375     \unvbox\@mpfootinsv@l
12376     \@RTLfalse
12377     \def\baselinestretch{\m@m@footnote@spacing}%
12378     \reset@font\LTRfoottextfont
12379     \hsize\columnwidth \@parboxrestore
12380     \protected@edef\@currentlabel{%
12381       \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

12382 \color@begingroup
12383   \@twocolLTRfootfmt{#1}%
12384 \color@endgroup}%
12385 \m@mmf@prepare}
12386 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12387   \global\setbox\@mpfootinsv@r\vbox{%
12388     \unvbox\@mpfootinsv@r
12389     \RTLtrue
12390     \def\baselinestretch{\m@m@footnote@spacing}%
12391     \reset@font\RTLfoottextfont
12392     \hsize\columnwidth \@parboxrestore
12393     \protected@edef\@currentlabel{%
12394       \csname p@mpfootnote@endcsname\@thefnmark}%
12395   \color@begingroup
12396     \@twocolRTLfootfmt{#1}%
12397   \color@endgroup}%
12398   \m@mmf@prepare}
12399 \newcommand{\@mpTwoColRTLfootnotetext}[1]{%
12400   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12401   \global\setbox\@mpfootinsv@r\vbox{%
12402     \unvbox\@mpfootinsv@r
12403     \RTLtrue
12404     \def\baselinestretch{\m@m@footnote@spacing}%
12405     \reset@font\RTLfoottextfont
12406     \hsize\columnwidth \@parboxrestore
12407     \protected@edef\@currentlabel{%
12408       \csname p@mpfootnote@endcsname\@thefnmark}%
12409   \color@begingroup
12410     \@twocolRTLfootfmt{#1}%
12411   \color@endgroup}%
12412   \m@mmf@prepare}
12413 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12414   \@namedef{@twocol@footgroup#1}{%
12415     \def\baselinestretch{\m@m@footnote@spacing}%
12416     \hsize\bidi@columnwidth
12417     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12418     \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}
12419 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12420   \@namedef{@twocol@LTRfootgroup#1}{%
12421     \def\baselinestretch{\m@m@footnote@spacing}%
12422     \hsize\bidi@columnwidth
12423     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12424     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}
12425 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12426   \@namedef{@mptwocol@footgroup#1}{%
12427     \def\baselinestretch{\m@m@footnote@spacing}%
12428     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12429     \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}
12430 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12431   \@namedef{@mptwocol@LTRfootgroup#1}{%
12432     \def\baselinestretch{\m@m@footnote@spacing}%
12433     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12434     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}
12435 \bidi@ensure@newcommand{\threecolumnfootnotes}{%

```




```

12436 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12437 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12438 \@bidi@before@Hy@hyperfootnotes
12439 \let\@footnotetext\@threecolfootnotetext
12440 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12441 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12442 \dimen\footinsv@r=3\footinsdim
12443 \count\footinsv@r=333\relax
12444 \m@make@threecol@footgroup{v@r}%
12445 \let\@footgroupv@r\@threecol@footgroupv@r
12446 \dimen\footinsv@l=3\footinsdim
12447 \count\footinsv@l=333\relax
12448 \bidi@make@threecol@LTRfootgroup{v@l}%
12449 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12450 \let\@mpfootnotetext\@mpthreecolfootnotetext
12451 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12452 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12453 \@bidi@after@Hy@hyperfootnotes
12454 \m@make@mpthreecol@footgroup{v@r}%
12455 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12456 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12457 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12458 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12459 }
12460 \newcommand{\ThreeColumnFootnotes}{%
12461 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12462 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12463 \@bidi@before@Hy@hyperfootnotes
12464 \let\@footnotetext\@ThreeColfootnotetext
12465 \let\@LTRfootnotetext\@ThreeColLTRfootnotetext
12466 \let\@RTLfootnotetext\@ThreeColRTLfootnotetext
12467 \dimen\footinsv@r=3\footinsdim
12468 \count\footinsv@r=333\relax
12469 \m@make@threecol@footgroup{v@r}%
12470 \let\@footgroupv@r\@threecol@footgroupv@r
12471 \dimen\footinsv@l=3\footinsdim
12472 \count\footinsv@l=333\relax
12473 \bidi@make@threecol@LTRfootgroup{v@l}%
12474 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12475 \let\@mpfootnotetext\@mpThreeColfootnotetext
12476 \let\@mpLTRfootnotetext\@mpThreeColLTRfootnotetext
12477 \let\@mpRTLfootnotetext\@mpThreeColRTLfootnotetext
12478 \@bidi@after@Hy@hyperfootnotes
12479 \m@make@mpthreecol@footgroup{v@r}%
12480 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12481 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12482 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12483 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12484 }
12485 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12486 \if@RTL@footnote
12487 \footinsv@r
12488 \else
12489 \footinsv@l

```



```

12490 \fi
12491 {\ifRTL@footnote\RTLtrue\else\RTLfalse\fi%
12492 \def\baselinestretch{\m@m@footnote@spacing}%
12493 \reset@font\foottextfont
12494 \@preamfntext
12495 \protected@edef\@currentlabel{%
12496 \csname p@footnote\endcsname\@thefnmark}%
12497 \color@begingroup
12498 \@threecolfootfmt{#1}%
12499 \color@endgroup}\m@mmf@prepare}
12500 \newcommand{\@ThreeColfootnotetext}[1]{%
12501 \bidi@step@absolute@footnote@count
12502 \ifRTL@footnote
12503 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12504 \else
12505 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12506 \fi
12507 \global\setbox
12508 \ifRTL@footnote
12509 \footinsv@r
12510 \else
12511 \footinsv@l
12512 \fi
12513 \vbox{%
12514 \unvbox
12515 \ifRTL@footnote
12516 \footinsv@r
12517 \else
12518 \footinsv@l
12519 \fi
12520 \ifRTL@footnote\RTLtrue\else\RTLfalse\fi
12521 \def\baselinestretch{\m@m@footnote@spacing}%
12522 \reset@font\foottextfont
12523 \@preamfntext
12524 \protected@edef\@currentlabel{%
12525 \csname p@footnote\endcsname\@thefnmark}%
12526 \color@begingroup
12527 \@threecolfootfmt{#1}%
12528 \color@endgroup}\m@mmf@prepare
12529 \ifRTL@footnote
12530 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12531 \else
12532 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12533 \fi
12534 }
12535 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12536 \def\baselinestretch{\m@m@footnote@spacing}%
12537 \reset@font\LTRfoottextfont
12538 \@preamfntext
12539 \protected@edef\@currentlabel{%
12540 \csname p@footnote\endcsname\@thefnmark}%
12541 \color@begingroup
12542 \@threecolLTRfootfmt{#1}%
12543 \color@endgroup}\m@mmf@prepare}

```



```

12544 \newcommand{\@ThreeCollTRfootnotetext}[1]{%
12545   \bidi@step@absolutefootnote@count
12546   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12547   \global\setbox\footinsv@l\vbox{%
12548     \unvbox\footinsv@l
12549     \@RTLfalse
12550     \def\baselinestretch{\m@m@footnote@spacing}%
12551     \reset@font\LTRfoottextfont
12552     \@preamfntext
12553     \protected@edef\@currentlabel{%
12554       \csname p@footnote\endcsname\@thefnmark}%
12555     \color@begingroup
12556       \@threecolLTRfootfmt{#1}%
12557     \color@endgroup}\m@mmf@prepare
12558   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12559 }
12560 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12561   \def\baselinestretch{\m@m@footnote@spacing}%
12562   \reset@font\RTLfoottextfont
12563   \@preamfntext
12564   \protected@edef\@currentlabel{%
12565     \csname p@footnote\endcsname\@thefnmark}%
12566   \color@begingroup
12567     \@threecolRTLfootfmt{#1}%
12568   \color@endgroup}\m@mmf@prepare}
12569 \newcommand{\@ThreeColRTLfootnotetext}[1]{%
12570   \bidi@step@absolutefootnote@count
12571   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12572   \global\setbox\footinsv@r\vbox{%
12573     \unvbox\footinsv@r
12574     \@RTLtrue
12575     \def\baselinestretch{\m@m@footnote@spacing}%
12576     \reset@font\RTLfoottextfont
12577     \@preamfntext
12578     \protected@edef\@currentlabel{%
12579       \csname p@footnote\endcsname\@thefnmark}%
12580     \color@begingroup
12581       \@threecolRTLfootfmt{#1}%
12582     \color@endgroup}\m@mmf@prepare
12583   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12584 }
12585 \bidi@ensure@newcommand{\@preamthreefmt}{%
12586   \hspace .3\hspace
12587   \parindent=\z@
12588   \tolerance=5000\relax
12589   \leavevmode}
12590 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12591   \@preamthreefmt
12592   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12593 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12594   \@preamthreefmt
12595   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12596 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12597   \@preamthreefmt

```



```

12598 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12599 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12600   \global\setbox
12601     \if@RTL@footnote
12602     \@mpfootinsv@r
12603   \else
12604     \@mpfootinsv@l
12605   \fi
12606   \vbox{%
12607     \unvbox
12608     \if@RTL@footnote
12609     \@mpfootinsv@r
12610   \else
12611     \@mpfootinsv@l
12612   \fi
12613   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12614   \def\baselinestretch{\m@m@footnote@spacing}%
12615   \reset@font\foottextfont
12616   \hsize\columnwidth \@parboxrestore
12617   \protected@edef\@currentlabel{%
12618     \csname p@mpfootnote\endcsname\@thefnmark}%
12619   \color@begingroup
12620     \@threecolfootfmt{#1}%
12621   \color@endgroup}\m@mmf@prepare}
12622 \newcommand{\@mpThreeColfootnotetext}[1]{%
12623   \if@RTL@footnote
12624     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12625   \else
12626     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12627   \fi
12628   \global\setbox
12629     \if@RTL@footnote
12630     \@mpfootinsv@r
12631   \else
12632     \@mpfootinsv@l
12633   \fi
12634   \vbox{%
12635     \unvbox
12636     \if@RTL@footnote
12637     \@mpfootinsv@r
12638   \else
12639     \@mpfootinsv@l
12640   \fi
12641   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12642   \def\baselinestretch{\m@m@footnote@spacing}%
12643   \reset@font\foottextfont
12644   \hsize\columnwidth \@parboxrestore
12645   \protected@edef\@currentlabel{%
12646     \csname p@mpfootnote\endcsname\@thefnmark}%
12647   \color@begingroup
12648     \@threecolfootfmt{#1}%
12649   \color@endgroup}\m@mmf@prepare}
12650 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12651   \global\setbox\@mpfootinsv@l\vbox{%

```



```

12652 \unvbox\@mpfootinsv@l
12653 \@RTLfalse
12654 \def\baselinestretch{\m@m@footnote@spacing}%
12655 \reset@font\LTRfoottextfont
12656 \hsize\columnwidth \@parboxrestore
12657 \protected@edef\@currentlabel{%
12658   \csname p@mpfootnote\endcsname\@thefnmark}%
12659 \color@begingroup
12660   \@threecolLTRfootfmt{#1}%
12661 \color@endgroup}\m@mmf@prepare}
12662 \newcommand{\@mpThreeColLTRfootnotetext}[1]{%
12663   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12664   \global\setbox\@mpfootinsv@l\vbox{%
12665     \unvbox\@mpfootinsv@l
12666     \@RTLfalse
12667     \def\baselinestretch{\m@m@footnote@spacing}%
12668     \reset@font\LTRfoottextfont
12669     \hsize\columnwidth \@parboxrestore
12670     \protected@edef\@currentlabel{%
12671       \csname p@mpfootnote\endcsname\@thefnmark}%
12672     \color@begingroup
12673     \@threecolLTRfootfmt{#1}%
12674     \color@endgroup}\m@mmf@prepare}
12675 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12676   \global\setbox\@mpfootinsv@r\vbox{%
12677     \unvbox\@mpfootinsv@r
12678     \@RTLtrue
12679     \def\baselinestretch{\m@m@footnote@spacing}%
12680     \reset@font\RTLfoottextfont
12681     \hsize\columnwidth \@parboxrestore
12682     \protected@edef\@currentlabel{%
12683       \csname p@mpfootnote\endcsname\@thefnmark}%
12684     \color@begingroup
12685     \@threecolRTLfootfmt{#1}%
12686     \color@endgroup}\m@mmf@prepare}
12687 \newcommand{\@mpThreeColRTLfootnotetext}[1]{%
12688   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12689   \global\setbox\@mpfootinsv@r\vbox{%
12690     \unvbox\@mpfootinsv@r
12691     \@RTLtrue
12692     \def\baselinestretch{\m@m@footnote@spacing}%
12693     \reset@font\RTLfoottextfont
12694     \hsize\columnwidth \@parboxrestore
12695     \protected@edef\@currentlabel{%
12696       \csname p@mpfootnote\endcsname\@thefnmark}%
12697     \color@begingroup
12698     \@threecolRTLfootfmt{#1}%
12699     \color@endgroup}\m@mmf@prepare}
12700 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12701 \@namedef{\@threecol@footgroup#1}{%
12702 \def\baselinestretch{\m@m@footnote@spacing}%
12703 \hsize\bidi@columnwidth
12704 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12705 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}

```



```

12706 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12707 \@namedef{@threecol@LTRfootgroup#1}{%
12708 \def\baselinestretch{\m@m@footnote@spacing}%
12709 \hsize\bidi@columnwidth
12710 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12711 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@}{\splittopskip}}}}
12712 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12713 \@namedef{@mpthreecol@footgroup#1}{%
12714 \def\baselinestretch{\m@m@footnote@spacing}%
12715 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12716 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\thr@}{\splittopskip}}}}
12717 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12718 \@namedef{@mpthreecol@LTRfootgroup#1}{%
12719 \def\baselinestretch{\m@m@footnote@spacing}%
12720 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12721 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\thr@}{\splittopskip}}}}
12722 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12723 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12724 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12725 \@bidi@before@Hy@hyperfootnotes
12726 \let\@footnotetext\@fourcolfootnotetext
12727 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12728 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12729 \dimen\footinsv@r=4\footinsdim
12730 \count\footinsv@r=250\relax
12731 \m@make@fourcol@footgroup{v@r}%
12732 \let\@footgroupv@r\@fourcol@footgroupv@r
12733 \dimen\footinsv@l=4\footinsdim
12734 \count\footinsv@l=250\relax
12735 \bidi@make@fourcol@LTRfootgroup{v@l}%
12736 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12737 \let\@mpfootnotetext\@mpfourcolfootnotetext
12738 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12739 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12740 \@bidi@after@Hy@hyperfootnotes
12741 \m@make@mpfourcol@footgroup{v@r}%
12742 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12743 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12744 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12745 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12746 }
12747 \newcommand{\FourColumnFootnotes}{%
12748 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12749 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12750 \@bidi@before@Hy@hyperfootnotes
12751 \let\@footnotetext\@FourColfootnotetext
12752 \let\@LTRfootnotetext\@FourColLTRfootnotetext
12753 \let\@RTLfootnotetext\@FourColRTLfootnotetext
12754 \dimen\footinsv@r=4\footinsdim
12755 \count\footinsv@r=250\relax
12756 \m@make@fourcol@footgroup{v@r}%
12757 \let\@footgroupv@r\@fourcol@footgroupv@r
12758 \dimen\footinsv@l=4\footinsdim
12759 \count\footinsv@l=250\relax

```



```

12760 \bidi@make@fourcol@LTRfootgroup{v@1}%
12761 \let@LTRfootgroupv@1\@fourcol@LTRfootgroupv@1
12762 \let\@mpfootnotetext\@mpFourColfootnotetext
12763 \let\@mpLTRfootnotetext\@mpFourCollTRfootnotetext
12764 \let\@mpRTLfootnotetext\@mpFourColRTLfootnotetext
12765 \@bidi@after@Hy@hyperfootnotes
12766 \m@make@mpfourcol@footgroup{v@r}%
12767 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12768 \bidi@make@mpfourcol@LTRfootgroup{v@1}%
12769 \let\mp@LTRfootgroupv@1\@mpfourcol@LTRfootgroupv@1
12770 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12771 }
12772 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12773 \ifRTL@footnote
12774 \footinsv@r
12775 \else
12776 \footinsv@l
12777 \fi
12778 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12779 \def\baselinestretch{\m@mm@footnote@spacing}%
12780 \reset@font\foottextfont
12781 \@preamfntext
12782 \protected@edef\@currentlabel{%
12783 \csname p@footnote\endcsname\@thefnmark}%
12784 \color@begingroup
12785 \@fourcolfootfmt{#1}%
12786 \color@endgroup}%
12787 \m@mmf@prepare}
12788 \newcommand{\@FourColfootnotetext}[1]{%
12789 \bidi@step@absolutefootnote@count
12790 \ifRTL@footnote
12791 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@1
12792 \else
12793 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12794 \fi
12795 \global\setbox
12796 \ifRTL@footnote
12797 \footinsv@r
12798 \else
12799 \footinsv@l
12800 \fi
12801 \vbox{%
12802 \unvbox
12803 \ifRTL@footnote
12804 \footinsv@r
12805 \else
12806 \footinsv@l
12807 \fi
12808 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
12809 \def\baselinestretch{\m@mm@footnote@spacing}%
12810 \reset@font\foottextfont
12811 \@preamfntext
12812 \protected@edef\@currentlabel{%
12813 \csname p@footnote\endcsname\@thefnmark}%

```



```

12814 \color@begingroup
12815   \@fourcolfootfmt{#1}%
12816 \color@endgroup}%
12817 \m@mmf@prepare
12818 \if@RTL@footnote
12819   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12820 \else
12821   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12822 \fi
12823 }
12824 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12825   \def\baselinestretch{\m@mm@footnote@spacing}%
12826   \reset@font\LTRfoottextfont
12827   \@preamfntext
12828   \protected@edef\@currentlabel{%
12829     \csname p@footnote\endcsname\@thefnmark}%
12830   \color@begingroup
12831     \@fourcolLTRfootfmt{#1}%
12832   \color@endgroup}%
12833   \m@mmf@prepare}
12834 \newcommand{\@FourColLTRfootnotetext}[1]{%
12835   \bidi@step@absolute@footnote@count
12836   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12837   \global\setbox\footinsv@l\vbox{%
12838     \unvbox\footinsv@l
12839     \@RTLfalse%
12840     \def\baselinestretch{\m@mm@footnote@spacing}%
12841     \reset@font\LTRfoottextfont
12842     \@preamfntext
12843     \protected@edef\@currentlabel{%
12844       \csname p@footnote\endcsname\@thefnmark}%
12845     \color@begingroup
12846       \@fourcolLTRfootfmt{#1}%
12847     \color@endgroup}%
12848     \m@mmf@prepare
12849     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12850 }
12851 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12852   \def\baselinestretch{\m@mm@footnote@spacing}%
12853   \reset@font\RTLfoottextfont
12854   \@preamfntext
12855   \protected@edef\@currentlabel{%
12856     \csname p@footnote\endcsname\@thefnmark}%
12857   \color@begingroup
12858     \@fourcolRTLfootfmt{#1}%
12859   \color@endgroup}%
12860   \m@mmf@prepare}
12861 \newcommand{\@FourColRTLfootnotetext}[1]{%
12862   \bidi@step@absolute@footnote@count
12863   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12864   \global\setbox\footinsv@r\vbox{%
12865     \unvbox\footinsv@r
12866     \@RTLtrue
12867   \def\baselinestretch{\m@mm@footnote@spacing}%

```




```

12868 \reset@font\RTLfoottextfont
12869 \@preamfntext
12870 \protected@edef\@currentlabel{%
12871   \csname p@footnote\endcsname\@thefnmark}%
12872 \color@begingroup
12873   \@fourcolRTLfootfmt{#1}%
12874 \color@endgroup}%
12875 \m@mmf@prepare
12876 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12877 }
12878 \bidi@ensure@newcommand{\@preamfourfmt}{%
12879   \hspace .25\hspace
12880   \parindent=\z@
12881   \tolerance=5000\relax
12882   \leavevmode}
12883 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12884   \@preamfourfmt
12885   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12886 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12887   \@preamfourfmt
12888   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12889 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12890   \@preamfourfmt
12891   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12892 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12893   \global\setbox
12894     \if@RTL@footnote
12895     \@mpfootinsv@r
12896   \else
12897     \@mpfootinsv@l
12898   \fi
12899   \vbox{%
12900     \unvbox
12901     \if@RTL@footnote
12902     \@mpfootinsv@r
12903   \else
12904     \@mpfootinsv@l
12905   \fi
12906   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12907   \def\baselinestretch{\m@m@footnote@spacing}%
12908   \reset@font\foottextfont
12909   \hspace\columnwidth \@parboxrestore
12910   \protected@edef\@currentlabel{%
12911     \csname p@mpfootnote\endcsname\@thefnmark}%
12912   \color@begingroup
12913     \@fourcolfootfmt{#1}%
12914   \color@endgroup}%
12915   \m@mmf@prepare}
12916 \newcommand{\@mpFourColfootnotetext}[1]{%
12917   \if@RTL@footnote
12918     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12919   \else
12920     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12921   \fi

```



```

12922 \global\setbox
12923   \if@RTL@footnote
12924     \@mpfootinsv@r
12925   \else
12926     \@mpfootinsv@l
12927   \fi
12928 \vbox{%
12929   \unvbox
12930   \if@RTL@footnote
12931     \@mpfootinsv@r
12932   \else
12933     \@mpfootinsv@l
12934   \fi
12935   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12936   \def\baselinestretch{\m@m@footnote@spacing}%
12937   \reset@font\foottextfont
12938   \hsize\columnwidth \@parboxrestore
12939   \protected@edef\@currentlabel{%
12940     \csname p@mpfootnote\endcsname\@thefnmark}%
12941   \color@begingroup
12942     \@fourcolfootfmt{#1}%
12943   \color@endgroup}%
12944   \m@mmf@prepare}
12945 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12946 \global\setbox\@mpfootinsv@l\vbox{%
12947   \unvbox\@mpfootinsv@l
12948   \@RTLfalse
12949   \def\baselinestretch{\m@m@footnote@spacing}%
12950   \reset@font\LTRfoottextfont
12951   \hsize\columnwidth \@parboxrestore
12952   \protected@edef\@currentlabel{%
12953     \csname p@mpfootnote\endcsname\@thefnmark}%
12954   \color@begingroup
12955     \@fourcolLTRfootfmt{#1}%
12956   \color@endgroup}%
12957   \m@mmf@prepare}
12958 \newcommand{\@mpFourColLTRfootnotetext}[1]{%
12959 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12960 \global\setbox\@mpfootinsv@l\vbox{%
12961   \unvbox\@mpfootinsv@l
12962   \@RTLfalse
12963   \def\baselinestretch{\m@m@footnote@spacing}%
12964   \reset@font\LTRfoottextfont
12965   \hsize\columnwidth \@parboxrestore
12966   \protected@edef\@currentlabel{%
12967     \csname p@mpfootnote\endcsname\@thefnmark}%
12968   \color@begingroup
12969     \@fourcolLTRfootfmt{#1}%
12970   \color@endgroup}%
12971   \m@mmf@prepare}
12972 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12973 \global\setbox\@mpfootinsv@r\vbox{%
12974   \unvbox\@mpfootinsv@r
12975   \@RTLtrue

```



```

12976 \def\baselinestretch{\m@m@footnote@spacing}%
12977 \reset@font\RTLfoottextfont
12978 \hsize\columnwidth \@parboxrestore
12979 \protected@edef\@currentlabel{%
12980 \csname p@mpfootnote\endcsname\@thefnmark}%
12981 \color@begingroup
12982 \@fourcolRTLfootfmt{#1}%
12983 \color@endgroup}%
12984 \m@mmf@prepare}
12985 \newcommand{\@mpFourColRTLfootnotetext}[1]{%
12986 \bidi@joinmpfootnotes\@mpfootinsv@l\footstartv@l\mp@LTRfootgroupv@l
12987 \global\setbox\@mpfootinsv@r\vbox{%
12988 \unvbox\@mpfootinsv@r
12989 \RTLtrue
12990 \def\baselinestretch{\m@m@footnote@spacing}%
12991 \reset@font\RTLfoottextfont
12992 \hsize\columnwidth \@parboxrestore
12993 \protected@edef\@currentlabel{%
12994 \csname p@mpfootnote\endcsname\@thefnmark}%
12995 \color@begingroup
12996 \@fourcolRTLfootfmt{#1}%
12997 \color@endgroup}%
12998 \m@mmf@prepare}
12999 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
13000 \@namedef{@fourcol@footgroup#1}{%
13001 \def\baselinestretch{\m@m@footnote@spacing}%
13002 \hsize\bidi@columnwidth
13003 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13004 \m@r@rigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13005 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
13006 \@namedef{@fourcol@LTRfootgroup#1}{%
13007 \def\baselinestretch{\m@m@footnote@spacing}%
13008 \hsize\bidi@columnwidth
13009 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13010 \bidi@LTR@rigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13011 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
13012 \@namedef{@mpfourcol@footgroup#1}{%
13013 \def\baselinestretch{\m@m@footnote@spacing}%
13014 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13015 \m@r@rigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}}
13016 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
13017 \@namedef{@mpfourcol@LTRfootgroup#1}{%
13018 \def\baselinestretch{\m@m@footnote@spacing}%
13019 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13020 \bidi@LTR@rigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}}
13021 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
13022 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13023 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13024 \@bidi@before@Hy@hyperfootnotes
13025 \let\@footnotetext\@fivecolfootnotetext
13026 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
13027 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
13028 \dimen\footinsv@r=5\footinsdim
13029 \count\footinsv@r=200\relax

```



```

13030 \m@make@fivecol@footgroup{v@r}%
13031 \let\@footgroupv@r\@fivecol@footgroupv@r
13032 \dimen\footinsv@l=5\footinsdim
13033 \count\footinsv@l=200\relax
13034 \bidi@make@fivecol@LTRfootgroup{v@l}%
13035 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13036 \let\@mpfootnotetext\@mpfivecolfootnotetext
13037 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
13038 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
13039 \@bidi@after@Hy@hyperfootnotes
13040 \m@make@mpfivecol@footgroup{v@r}%
13041 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13042 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13043 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13044 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13045 }
13046 \newcommand{\FiveColumnFootnotes}{%
13047 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13048 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13049 \@bidi@before@Hy@hyperfootnotes
13050 \let\@footnotetext\@FiveColfootnotetext
13051 \let\@LTRfootnotetext\@FiveColLTRfootnotetext
13052 \let\@RTLfootnotetext\@FiveColRTLfootnotetext
13053 \dimen\footinsv@r=5\footinsdim
13054 \count\footinsv@r=200\relax
13055 \m@make@fivecol@footgroup{v@r}%
13056 \let\@footgroupv@r\@fivecol@footgroupv@r
13057 \dimen\footinsv@l=5\footinsdim
13058 \count\footinsv@l=200\relax
13059 \bidi@make@fivecol@LTRfootgroup{v@l}%
13060 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13061 \let\@mpfootnotetext\@mpFiveColfootnotetext
13062 \let\@mpLTRfootnotetext\@mpFiveColLTRfootnotetext
13063 \let\@mpRTLfootnotetext\@mpFiveColRTLfootnotetext
13064 \@bidi@after@Hy@hyperfootnotes
13065 \m@make@mpfivecol@footgroup{v@r}%
13066 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13067 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13068 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13069 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13070 }
13071 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
13072 \if@RTL@footnote
13073 \footinsv@r
13074 \else
13075 \footinsv@l
13076 \fi
13077 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13078 \def\baselinestretch{\m@f@footnote@spacing}%
13079 \reset@font\foottextfont
13080 \@preamfntext
13081 \protected@edef\@currentlabel{%
13082 \csname p@footnote\endcsname\@thefnmark}%
13083 \color@begingroup

```



```

13084     \@fivecolfootfmt{#1}%
13085     \color@endgroup}%
13086     \m@mmf@prepare}
13087 \newcommand{\@FiveColfootnotetext}[1]{%
13088     \bidi@step@absolute@footnote@count
13089     \if@RTL@footnote
13090         \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13091     \else
13092         \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13093     \fi
13094     \global\setbox
13095     \if@RTL@footnote
13096         \footinsv@r
13097     \else
13098         \footinsv@l
13099     \fi
13100 \vbox{%
13101     \unvbox
13102     \if@RTL@footnote
13103         \footinsv@r
13104     \else
13105         \footinsv@l
13106     \fi
13107     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13108     \def\baselinestretch{\m@m@footnote@spacing}%
13109     \reset@font\foottextfont
13110     \@preamfntext
13111     \protected@edef\@currentlabel{%
13112         \csname p@footnote\endcsname\@thefnmark}%
13113     \color@begingroup
13114         \@fivecolfootfmt{#1}%
13115     \color@endgroup}%
13116     \m@mmf@prepare
13117     \if@RTL@footnote
13118         \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13119     \else
13120         \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13121     \fi
13122 }
13123 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13124     \def\baselinestretch{\m@m@footnote@spacing}%
13125     \reset@font\LTRfoottextfont
13126     \@preamfntext
13127     \protected@edef\@currentlabel{%
13128         \csname p@footnote\endcsname\@thefnmark}%
13129     \color@begingroup
13130         \@fivecolLTRfootfmt{#1}%
13131     \color@endgroup}%
13132     \m@mmf@prepare}
13133 \newcommand{\@FiveColLTRfootnotetext}[1]{%
13134     \bidi@step@absolute@footnote@count
13135     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13136     \global\setbox\footinsv@l\vbox{%
13137     \unvbox\footinsv@l

```



```

13138 \@RTLfalse
13139 \def\baselinestretch{\m@m@footnote@spacing}%
13140 \reset@font\LTRfoottextfont
13141 \@preamfntext
13142 \protected@edef\@currentlabel{%
13143   \csname p@footnote\endcsname\@thefnmark}%
13144 \color@begingroup
13145   \@fivecolLTRfootfmt{#1}%
13146 \color@endgroup}%
13147 \m@mmf@prepare
13148 \bidi@reinsertfinalfootnoteperpage\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13149 }
13150 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13151 \def\baselinestretch{\m@m@footnote@spacing}%
13152 \reset@font\RTLfoottextfont
13153 \@preamfntext
13154 \protected@edef\@currentlabel{%
13155   \csname p@footnote\endcsname\@thefnmark}%
13156 \color@begingroup
13157   \@fivecolRTLfootfmt{#1}%
13158 \color@endgroup}%
13159 \m@mmf@prepare}
13160 \newcommand{\@FiveColRTLfootnotetext}[1]{%
13161 \bidi@step@absolute@footnote@count
13162 \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
13163 \global\setbox\footinsv@r\vbox{%
13164 \unvbox\footinsv@r
13165 \@RTLtrue
13166 \def\baselinestretch{\m@m@footnote@spacing}%
13167 \reset@font\RTLfoottextfont
13168 \@preamfntext
13169 \protected@edef\@currentlabel{%
13170   \csname p@footnote\endcsname\@thefnmark}%
13171 \color@begingroup
13172   \@fivecolRTLfootfmt{#1}%
13173 \color@endgroup}%
13174 \m@mmf@prepare
13175 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13176 }
13177 \bidi@ensure@newcommand{\@preamfivefmt}{%
13178 \hspace .2\hspace
13179 \parindent=\z@
13180 \tolerance=5000\relax
13181 \leavevmode}
13182 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
13183 \@preamfivefmt
13184 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13185 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
13186 \@preamfivefmt
13187 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13188 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
13189 \@preamfivefmt
13190 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13191 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%

```



```

13192 \global\setbox
13193 \if@RTL@footnote
13194 \@mpfootinsv@r
13195 \else
13196 \@mpfootinsv@l
13197 \fi
13198 \vbox{%
13199 \unvbox
13200 \if@RTL@footnote
13201 \@mpfootinsv@r
13202 \else
13203 \@mpfootinsv@l
13204 \fi
13205 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13206 \def\baselinestretch{\m@m@footnote@spacing}%
13207 \reset@font\foottextfont
13208 \hsize\columnwidth \@parboxrestore
13209 \protected@edef\@currentlabel{%
13210 \csname p@mpfootnote\endcsname\@thefnmark}%
13211 \color@begingroup
13212 \@fivecolfootfmt{#1}%
13213 \color@endgroup}%
13214 \m@mmf@prepare}
13215 \newcommand{\@mpFiveColfootnotetext}[1]{%
13216 \if@RTL@footnote
13217 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13218 \else
13219 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13220 \fi
13221 \global\setbox
13222 \if@RTL@footnote
13223 \@mpfootinsv@r
13224 \else
13225 \@mpfootinsv@l
13226 \fi
13227 \vbox{%
13228 \unvbox
13229 \if@RTL@footnote
13230 \@mpfootinsv@r
13231 \else
13232 \@mpfootinsv@l
13233 \fi
13234 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13235 \def\baselinestretch{\m@m@footnote@spacing}%
13236 \reset@font\foottextfont
13237 \hsize\columnwidth \@parboxrestore
13238 \protected@edef\@currentlabel{%
13239 \csname p@mpfootnote\endcsname\@thefnmark}%
13240 \color@begingroup
13241 \@fivecolfootfmt{#1}%
13242 \color@endgroup}%
13243 \m@mmf@prepare}
13244 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
13245 \global\setbox\@mpfootinsv@l\vbox{%

```



```

13246 \unvbox\@mpfootinsv@l
13247 \@RTLfalse
13248 \def\baselinestretch{\m@m@footnote@spacing}%
13249 \reset@font\LTRfoottextfont
13250 \hsize\columnwidth \@parboxrestore
13251 \protected@edef\@currentlabel{%
13252 \csname p@mpfootnote\endcsname\@thefnmark}%
13253 \color@begingroup
13254 \@fivecolLTRfootfmt{#1}%
13255 \color@endgroup}%
13256 \m@mmf@prepare}
13257 \newcommand{\@mpFiveColLTRfootnotetext}[1]{%
13258 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13259 \global\setbox\@mpfootinsv@l\vbox{%
13260 \unvbox\@mpfootinsv@l
13261 \@RTLfalse
13262 \def\baselinestretch{\m@m@footnote@spacing}%
13263 \reset@font\LTRfoottextfont
13264 \hsize\columnwidth \@parboxrestore
13265 \protected@edef\@currentlabel{%
13266 \csname p@mpfootnote\endcsname\@thefnmark}%
13267 \color@begingroup
13268 \@fivecolLTRfootfmt{#1}%
13269 \color@endgroup}%
13270 \m@mmf@prepare}
13271 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
13272 \global\setbox\@mpfootinsv@r\vbox{%
13273 \unvbox\@mpfootinsv@r
13274 \@RTLtrue
13275 \def\baselinestretch{\m@m@footnote@spacing}%
13276 \reset@font\RTLfoottextfont
13277 \hsize\columnwidth \@parboxrestore
13278 \protected@edef\@currentlabel{%
13279 \csname p@mpfootnote\endcsname\@thefnmark}%
13280 \color@begingroup
13281 \@fivecolRTLfootfmt{#1}%
13282 \color@endgroup}%
13283 \m@mmf@prepare}
13284 \newcommand{\@mpFiveColRTLfootnotetext}[1]{%
13285 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13286 \global\setbox\@mpfootinsv@r\vbox{%
13287 \unvbox\@mpfootinsv@r
13288 \@RTLtrue
13289 \def\baselinestretch{\m@m@footnote@spacing}%
13290 \reset@font\RTLfoottextfont
13291 \hsize\columnwidth \@parboxrestore
13292 \protected@edef\@currentlabel{%
13293 \csname p@mpfootnote\endcsname\@thefnmark}%
13294 \color@begingroup
13295 \@fivecolRTLfootfmt{#1}%
13296 \color@endgroup}%
13297 \m@mmf@prepare}
13298 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
13299 \@namedef{@fivecol@footgroup#1}{%

```




```

13300 \def\baselinestretch{\m@m@footnote@spacing}%
13301 \hsize\bidicolumnwidth
13302 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13303 \m@r@rigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}
13304 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
13305 \@namedef{@fivecol@LTRfootgroup#1}{%
13306 \def\baselinestretch{\m@m@footnote@spacing}%
13307 \hsize\bidicolumnwidth
13308 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13309 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
13310 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
13311 \@namedef{@mpfivecol@footgroup#1}{%
13312 \def\baselinestretch{\m@m@footnote@spacing}%
13313 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13314 \m@r@rigidbalance{\@nameuse{mpfootins#1}}{5}{\splittopskip}}}}
13315 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
13316 \@namedef{@mpfivecol@LTRfootgroup#1}{%
13317 \def\baselinestretch{\m@m@footnote@spacing}%
13318 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13319 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{5}{\splittopskip}}}}
13320 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
13321 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13322 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13323 \@bidi@before@Hy@hyperfootnotes
13324 \let@footnotetext@sixcolfootnotetext
13325 \let@LTRfootnotetext@sixcolLTRfootnotetext
13326 \let@RTLfootnotetext@sixcolRTLfootnotetext
13327 \dimen\footinsv@r=6\footinsdim
13328 \count\footinsv@r=166\relax
13329 \m@make@sixcol@footgroup{v@r}%
13330 \let@footgroupv@r@sixcol@footgroupv@r
13331 \dimen\footinsv@l=6\footinsdim
13332 \count\footinsv@l=166\relax
13333 \bidi@make@sixcol@LTRfootgroup{v@l}%
13334 \let@LTRfootgroupv@l@sixcol@LTRfootgroupv@l
13335 \let@mpfootnotetext@mpsixcolfootnotetext
13336 \let@mpLTRfootnotetext@mpsixcolLTRfootnotetext
13337 \let@mpRTLfootnotetext@mpsixcolRTLfootnotetext
13338 \@bidi@after@Hy@hyperfootnotes
13339 \m@make@mpsixcol@footgroup{v@r}%
13340 \let@mp@footgroupv@r@mpsixcol@footgroupv@r
13341 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13342 \let@mp@LTRfootgroupv@l@mpsixcol@LTRfootgroupv@l
13343 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13344 }
13345 \newcommand{\SixColumnFootnotes}{%
13346 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13347 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13348 \@bidi@before@Hy@hyperfootnotes
13349 \let@footnotetext@SixColfootnotetext
13350 \let@LTRfootnotetext@SixColLTRfootnotetext
13351 \let@RTLfootnotetext@SixColRTLfootnotetext
13352 \dimen\footinsv@r=6\footinsdim
13353 \count\footinsv@r=166\relax

```



```

13354 \m@make@sixcol@footgroup{v@r}%
13355 \let\@footgroupv@r\@sixcol@footgroupv@r
13356 \dimen\footinsv@l=6\footinsdim
13357 \count\footinsv@l=166\relax
13358 \bidi@make@sixcol@LTRfootgroup{v@l}%
13359 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13360 \let\@mpfootnotetext\@mpSixColfootnotetext
13361 \let\@mpLTRfootnotetext\@mpSixColLTRfootnotetext
13362 \let\@mpRTLfootnotetext\@mpSixColRTLfootnotetext
13363 \@bidi@after@Hy@hyperfootnotes
13364 \m@make@mpsixcol@footgroup{v@r}%
13365 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13366 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13367 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13368 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13369 }
13370 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
13371 \ifRTL@footnote
13372 \footinsv@r
13373 \else
13374 \footinsv@l
13375 \fi
13376 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13377 \def\baselinestretch{\m@footnote@spacing}%
13378 \reset@font\foottextfont
13379 \@preamfntext
13380 \protected@edef\@currentlabel{%
13381 \csname p@footnote\endcsname\@thefnmark}%
13382 \color@begingroup
13383 \@sixcolfootfmt{#1}%
13384 \color@endgroup}%
13385 \m@mmf@prepare}
13386 \newcommand{\@SixColfootnotetext}[1]{%
13387 \bidi@step@absolute@footnote@count
13388 \ifRTL@footnote
13389 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13390 \else
13391 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13392 \fi
13393 \global\setbox
13394 \ifRTL@footnote
13395 \footinsv@r
13396 \else
13397 \footinsv@l
13398 \fi
13399 \vbox{%
13400 \unvbox
13401 \ifRTL@footnote
13402 \footinsv@r
13403 \else
13404 \footinsv@l
13405 \fi
13406 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13407 \def\baselinestretch{\m@footnote@spacing}%

```



```

13408 \reset@font\foottextfont
13409 \@preamftext
13410 \protected@edef\@currentlabel{%
13411   \csname p@footnote\endcsname\@thefnmark}%
13412 \color@begingroup
13413   \@sixcolfootfmt{#1}%
13414 \color@endgroup}%
13415 \m@mmf@prepare
13416 \if@RTL@footnote
13417   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13418 \else
13419   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13420 \fi
13421 }
13422 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13423 \def\baselinestretch{\m@mm@footnote@spacing}%
13424 \reset@font\LTRfoottextfont
13425 \@preamftext
13426 \protected@edef\@currentlabel{%
13427   \csname p@footnote\endcsname\@thefnmark}%
13428 \color@begingroup
13429   \@sixcolLTRfootfmt{#1}%
13430 \color@endgroup}%
13431 \m@mmf@prepare}
13432 \newcommand{\@SixColLTRfootnotetext}[1]{%
13433 \bidi@step@absolute@footnote@count
13434 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13435 \global\setbox\footinsv@l\vbox{%
13436 \unvbox\footinsv@l
13437 \@RTLfalse
13438 \def\baselinestretch{\m@mm@footnote@spacing}%
13439 \reset@font\LTRfoottextfont
13440 \@preamftext
13441 \protected@edef\@currentlabel{%
13442   \csname p@footnote\endcsname\@thefnmark}%
13443 \color@begingroup
13444   \@sixcolLTRfootfmt{#1}%
13445 \color@endgroup}%
13446 \m@mmf@prepare
13447 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13448 }
13449 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13450 \def\baselinestretch{\m@mm@footnote@spacing}%
13451 \reset@font\RTLfoottextfont
13452 \@preamftext
13453 \protected@edef\@currentlabel{%
13454   \csname p@footnote\endcsname\@thefnmark}%
13455 \color@begingroup
13456   \@sixcolRTLfootfmt{#1}%
13457 \color@endgroup}%
13458 \m@mmf@prepare}
13459 \newcommand{\@SixColRTLfootnotetext}[1]{%
13460 \bidi@step@absolute@footnote@count
13461 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l

```



```

13462 \global\setbox\footinsv@r\vbox{%
13463 \unvbox\footinsv@r
13464 \@RTLtrue
13465 \def\baselinestretch{\m@m@footnote@spacing}%
13466 \reset@font\RTLfoottextfont
13467 \@preamfntext
13468 \protected@edef\@currentlabel{%
13469 \csname p@footnote\endcsname\@thefnmark}%
13470 \color@begingroup
13471 \@sixcolRTLfootfmt{#1}%
13472 \color@endgroup}%
13473 \m@mmf@prepare
13474 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13475 }
13476 \bidi@ensure@newcommand{\@preamsixfmt}{%
13477 \hspace .16\hspace
13478 \parindent=\z@
13479 \tolerance=5000\relax
13480 \leavevmode}
13481 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
13482 \@preamsixfmt
13483 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13484 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
13485 \@preamsixfmt
13486 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13487 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
13488 \@preamsixfmt
13489 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13490 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
13491 \global\setbox
13492 \if@RTL@footnote
13493 \@mpfootinsv@r
13494 \else
13495 \@mpfootinsv@l
13496 \fi
13497 \vbox{%
13498 \unvbox
13499 \if@RTL@footnote
13500 \@mpfootinsv@r
13501 \else
13502 \@mpfootinsv@l
13503 \fi
13504 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13505 \def\baselinestretch{\m@m@footnote@spacing}%
13506 \reset@font\foottextfont
13507 \hspace\columnwidth \@parboxrestore
13508 \protected@edef\@currentlabel{%
13509 \csname p@mpfootnote\endcsname\@thefnmark}%
13510 \color@begingroup
13511 \@sixcolfootfmt{#1}%
13512 \color@endgroup}%
13513 \m@mmf@prepare}
13514 \newcommand{\@mpSixColfootnotetext}[1]{%
13515 \if@RTL@footnote

```



```

13516 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13517 \else
13518 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13519 \fi
13520 \global\setbox
13521 \if@RTL@footnote
13522 \@mpfootinsv@r
13523 \else
13524 \@mpfootinsv@l
13525 \fi
13526 \vbox{%
13527 \unvbox
13528 \if@RTL@footnote
13529 \@mpfootinsv@r
13530 \else
13531 \@mpfootinsv@l
13532 \fi
13533 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13534 \def\baselinestretch{\m@m@footnote@spacing}%
13535 \reset@font\foottextfont
13536 \hsize\columnwidth \@parboxrestore
13537 \protected@edef\@currentlabel{%
13538 \csname p@mpfootnote\endcsname\@thefnmark}%
13539 \color@begingroup
13540 \@sixcolfootfmt{#1}%
13541 \color@endgroup}%
13542 \m@mmf@prepare}
13543 \bidi@ensure@newcommand{\@mpsixcollTRfootnotetext}[1]{%
13544 \global\setbox\@mpfootinsv@l\vbox{%
13545 \unvbox\@mpfootinsv@l
13546 \@RTLfalse
13547 \def\baselinestretch{\m@m@footnote@spacing}%
13548 \reset@font\LTRfoottextfont
13549 \hsize\columnwidth \@parboxrestore
13550 \protected@edef\@currentlabel{%
13551 \csname p@mpfootnote\endcsname\@thefnmark}%
13552 \color@begingroup
13553 \@sixcollTRfootfmt{#1}%
13554 \color@endgroup}%
13555 \m@mmf@prepare}
13556 \newcommand{\@mpSixCollTRfootnotetext}[1]{%
13557 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13558 \global\setbox\@mpfootinsv@l\vbox{%
13559 \unvbox\@mpfootinsv@l
13560 \@RTLfalse
13561 \def\baselinestretch{\m@m@footnote@spacing}%
13562 \reset@font\LTRfoottextfont
13563 \hsize\columnwidth \@parboxrestore
13564 \protected@edef\@currentlabel{%
13565 \csname p@mpfootnote\endcsname\@thefnmark}%
13566 \color@begingroup
13567 \@sixcollTRfootfmt{#1}%
13568 \color@endgroup}%
13569 \m@mmf@prepare}

```



```

13570 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
13571   \global\setbox\@mpfootinsv@r\vbox{%
13572     \unvbox\@mpfootinsv@r
13573     \RTLtrue
13574     \def\baselinestretch{\m@m@footnote@spacing}%
13575     \reset@font\RTLfoottextfont
13576     \hsize\columnwidth \@parboxrestore
13577     \protected@edef\@currentlabel{%
13578       \csname p@mpfootnote\endcsname\@thefnmark}%
13579     \color@begingroup
13580     \@sixcolRTLfootfmt{#1}%
13581     \color@endgroup}%
13582   \m@mmf@prepare}
13583 \newcommand{\@mpSixColRTLfootnotetext}[1]{%
13584   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13585   \global\setbox\@mpfootinsv@r\vbox{%
13586     \unvbox\@mpfootinsv@r
13587     \RTLtrue
13588     \def\baselinestretch{\m@m@footnote@spacing}%
13589     \reset@font\RTLfoottextfont
13590     \hsize\columnwidth \@parboxrestore
13591     \protected@edef\@currentlabel{%
13592       \csname p@mpfootnote\endcsname\@thefnmark}%
13593     \color@begingroup
13594     \@sixcolRTLfootfmt{#1}%
13595     \color@endgroup}%
13596   \m@mmf@prepare}
13597 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
13598   \@namedef{@sixcol@footgroup#1}{%
13599     \def\baselinestretch{\m@m@footnote@spacing}%
13600     \hsize\bidi@columnwidth
13601     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13602     \m@r rigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13603 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
13604   \@namedef{@sixcol@LTRfootgroup#1}{%
13605     \def\baselinestretch{\m@m@footnote@spacing}%
13606     \hsize\bidi@columnwidth
13607     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13608     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13609 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
13610   \@namedef{@mpsixcol@footgroup#1}{%
13611     \def\baselinestretch{\m@m@footnote@spacing}%
13612     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13613     \m@r rigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}}
13614 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
13615   \@namedef{@mpsixcol@LTRfootgroup#1}{%
13616     \def\baselinestretch{\m@m@footnote@spacing}%
13617     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13618     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{6}{\splittopskip}}}}
13619 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
13620   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13621   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13622   \@bidi@before@Hy@hyperfootnotes
13623   \let\@footnotetext\@sevendcolfootnotetext

```



```

13624 \let\@LTRfootnotetext\@sevencolLTRfootnotetext
13625 \let\@RTLfootnotetext\@sevencolRTLfootnotetext
13626 \dimen\footinsv@r=7\footinsdim
13627 \count\footinsv@r=142\relax
13628 \m@make@sevencol@footgroup{v@r}%
13629 \let\@footgroupv@r\@sevencol@footgroupv@r
13630 \dimen\footinsv@l=7\footinsdim
13631 \count\footinsv@l=142\relax
13632 \bidi@make@sevencol@LTRfootgroup{v@l}%
13633 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13634 \let\@mpfootnotetext\@mpsevencolfootnotetext
13635 \let\@mpLTRfootnotetext\@mpsevencolLTRfootnotetext
13636 \let\@mpRTLfootnotetext\@mpsevencolRTLfootnotetext
13637 \@bidi@after@Hy@hyperfootnotes
13638 \m@make@mpsevencol@footgroup{v@r}%
13639 \let\mp@footgroupv@r\@mpsevencol@footgroupv@r
13640 \bidi@make@mpsevencol@LTRfootgroup{v@l}%
13641 \let\mp@LTRfootgroupv@l\@mpsevencol@LTRfootgroupv@l
13642 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13643 }
13644 \newcommand{\SevenColumnFootnotes}{%
13645 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13646 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13647 \@bidi@before@Hy@hyperfootnotes
13648 \let\@footnotetext\@SevenColfootnotetext
13649 \let\@LTRfootnotetext\@SevenColLTRfootnotetext
13650 \let\@RTLfootnotetext\@SevenColRTLfootnotetext
13651 \dimen\footinsv@r=7\footinsdim
13652 \count\footinsv@r=142\relax
13653 \m@make@sevencol@footgroup{v@r}%
13654 \let\@footgroupv@r\@sevencol@footgroupv@r
13655 \dimen\footinsv@l=7\footinsdim
13656 \count\footinsv@l=142\relax
13657 \bidi@make@sevencol@LTRfootgroup{v@l}%
13658 \let\@LTRfootgroupv@l\@sevencol@LTRfootgroupv@l
13659 \let\@mpfootnotetext\@mpSevenColfootnotetext
13660 \let\@mpLTRfootnotetext\@mpSevenColLTRfootnotetext
13661 \let\@mpRTLfootnotetext\@mpSevenColRTLfootnotetext
13662 \@bidi@after@Hy@hyperfootnotes
13663 \m@make@mpsevencol@footgroup{v@r}%
13664 \let\mp@footgroupv@r\@mpsevencol@footgroupv@r
13665 \bidi@make@mpsevencol@LTRfootgroup{v@l}%
13666 \let\mp@LTRfootgroupv@l\@mpsevencol@LTRfootgroupv@l
13667 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13668 }
13669 \bidi@ensure@newcommand{\@sevencolfootnotetext}[1]{\insert
13670 \if@RTL@footnote
13671 \footinsv@r
13672 \else
13673 \footinsv@l
13674 \fi
13675 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi}%
13676 \def\baselinestretch{\m@f@footnote@spacing}%
13677 \reset@font\foottextfont

```



```

13678 \@preamfntext
13679 \protected@edef\@currentlabel{%
13680   \csname p@footnote\endcsname\@thefnmark}%
13681 \color@begingroup
13682   \@sevenscolfootfmt{#1}%
13683 \color@endgroup}%
13684 \m@mmf@prepare}
13685 \newcommand{\@SevenColfootnotetext}[1]{%
13686   \bidi@step@absolute@footnote@count
13687   \if@RTL@footnote
13688     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13689   \else
13690     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13691   \fi
13692   \global\setbox
13693   \if@RTL@footnote
13694     \footinsv@r
13695   \else
13696     \footinsv@l
13697   \fi
13698   \vbox{%
13699     \unvbox
13700     \if@RTL@footnote
13701       \footinsv@r
13702     \else
13703       \footinsv@l
13704     \fi
13705     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13706     \def\baselinestretch{\m@m@footnote@spacing}%
13707     \reset@font\foottextfont
13708     \@preamfntext
13709     \protected@edef\@currentlabel{%
13710       \csname p@footnote\endcsname\@thefnmark}%
13711     \color@begingroup
13712       \@sevenscolfootfmt{#1}%
13713     \color@endgroup}%
13714     \m@mmf@prepare
13715     \if@RTL@footnote
13716       \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13717     \else
13718       \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13719     \fi
13720 }
13721 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13722   \def\baselinestretch{\m@m@footnote@spacing}%
13723   \reset@font\LTRfoottextfont
13724   \@preamfntext
13725   \protected@edef\@currentlabel{%
13726     \csname p@footnote\endcsname\@thefnmark}%
13727   \color@begingroup
13728     \@sevenscolLTRfootfmt{#1}%
13729   \color@endgroup}%
13730   \m@mmf@prepare}
13731 \newcommand{\@SevenCollTRfootnotetext}[1]{%

```




```

13732 \bidi@step@absolutefootnote@count
13733 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13734 \global\setbox\footinsv@l\vbox{%
13735 \unvbox\footinsv@l
13736 \@RTLfalse
13737 \def\baselinestretch{\m@m@footnote@spacing}%
13738 \reset@font\LTRfoottextfont
13739 \@preamfntext
13740 \protected@edef\@currentlabel{%
13741 \csname p@footnote\endcsname\@thefnmark}%
13742 \color@begingroup
13743 \@sevenscolLTRfootfmt{#1}%
13744 \color@endgroup}%
13745 \m@mmf@prepare
13746 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13747 }
13748 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13749 \def\baselinestretch{\m@m@footnote@spacing}%
13750 \reset@font\RTLfoottextfont
13751 \@preamfntext
13752 \protected@edef\@currentlabel{%
13753 \csname p@footnote\endcsname\@thefnmark}%
13754 \color@begingroup
13755 \@sevenscolRTLfootfmt{#1}%
13756 \color@endgroup}%
13757 \m@mmf@prepare}
13758 \newcommand{\@SevenColRTLfootnotetext}[1]{%
13759 \bidi@step@absolutefootnote@count
13760 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13761 \global\setbox\footinsv@r\vbox{%
13762 \unvbox\footinsv@r
13763 \@RTLtrue
13764 \def\baselinestretch{\m@m@footnote@spacing}%
13765 \reset@font\RTLfoottextfont
13766 \@preamfntext
13767 \protected@edef\@currentlabel{%
13768 \csname p@footnote\endcsname\@thefnmark}%
13769 \color@begingroup
13770 \@sevenscolRTLfootfmt{#1}%
13771 \color@endgroup}%
13772 \m@mmf@prepare
13773 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13774 }
13775 \bidi@ensure@newcommand{\@preamsevenfmt}{%
13776 \hspace .142\hspace
13777 \parindent=\z@
13778 \tolerance=5000\relax
13779 \leavevmode}
13780 \bidi@ensure@newcommand{\@sevenscolfootfmt}[1]{%
13781 \@preamsevenfmt
13782 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13783 \bidi@ensure@newcommand{\@sevenscolLTRfootfmt}[1]{%
13784 \@preamsevenfmt
13785 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}

```



```

13786 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%
13787   \@preamsevenfmt
13788   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13789 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{%
13790   \global\setbox
13791     \if@RTL@footnote
13792     \@mpfootinsv@r
13793   \else
13794     \@mpfootinsv@l
13795   \fi
13796   \vbox{%
13797     \unvbox
13798     \if@RTL@footnote
13799     \@mpfootinsv@r
13800   \else
13801     \@mpfootinsv@l
13802   \fi
13803   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13804   \def\baselinestretch{\m@m@footnote@spacing}%
13805   \reset@font\foottextfont
13806   \hsize\columnwidth \@parboxrestore
13807   \protected@edef\@currentlabel{%
13808     \csname p@mpfootnote\endcsname\@thefnmark}%
13809   \color@begingroup
13810     \@sevendcolfootfmt{#1}%
13811   \color@endgroup}%
13812   \m@mmf@prepare}
13813 \newcommand{\@mpSevenColfootnotetext}[1]{%
13814   \if@RTL@footnote
13815     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13816   \else
13817     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13818   \fi
13819   \global\setbox
13820     \if@RTL@footnote
13821     \@mpfootinsv@r
13822   \else
13823     \@mpfootinsv@l
13824   \fi
13825   \vbox{%
13826     \unvbox
13827     \if@RTL@footnote
13828     \@mpfootinsv@r
13829   \else
13830     \@mpfootinsv@l
13831   \fi
13832   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13833   \def\baselinestretch{\m@m@footnote@spacing}%
13834   \reset@font\foottextfont
13835   \hsize\columnwidth \@parboxrestore
13836   \protected@edef\@currentlabel{%
13837     \csname p@mpfootnote\endcsname\@thefnmark}%
13838   \color@begingroup
13839     \@sevendcolfootfmt{#1}%

```



```

13840 \color@endgroup}%
13841 \m@mmf@prepare}
13842 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{%
13843 \global\setbox\@mpfootinsv@l\vbox{%
13844 \unvbox\@mpfootinsv@l
13845 \RTLfalse
13846 \def\baselinestretch{\m@m@footnote@spacing}%
13847 \reset@font\LTRfoottextfont
13848 \hsize\columnwidth \@parboxrestore
13849 \protected@edef\@currentlabel{%
13850 \csname p@mpfootnote\endcsname\@thefnmark}%
13851 \color@begingroup
13852 \@sevencolLTRfootfmt{#1}%
13853 \color@endgroup}%
13854 \m@mmf@prepare}
13855 \newcommand{\@mpSevenColLTRfootnotetext}[1]{%
13856 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13857 \global\setbox\@mpfootinsv@l\vbox{%
13858 \unvbox\@mpfootinsv@l
13859 \RTLfalse
13860 \def\baselinestretch{\m@m@footnote@spacing}%
13861 \reset@font\LTRfoottextfont
13862 \hsize\columnwidth \@parboxrestore
13863 \protected@edef\@currentlabel{%
13864 \csname p@mpfootnote\endcsname\@thefnmark}%
13865 \color@begingroup
13866 \@sevencolLTRfootfmt{#1}%
13867 \color@endgroup}%
13868 \m@mmf@prepare}
13869 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{%
13870 \global\setbox\@mpfootinsv@r\vbox{%
13871 \unvbox\@mpfootinsv@r
13872 \RTLtrue
13873 \def\baselinestretch{\m@m@footnote@spacing}%
13874 \reset@font\RTLfoottextfont
13875 \hsize\columnwidth \@parboxrestore
13876 \protected@edef\@currentlabel{%
13877 \csname p@mpfootnote\endcsname\@thefnmark}%
13878 \color@begingroup
13879 \@sevencolRTLfootfmt{#1}%
13880 \color@endgroup}%
13881 \m@mmf@prepare}
13882 \newcommand{\@mpSevenColRTLfootnotetext}[1]{%
13883 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13884 \global\setbox\@mpfootinsv@r\vbox{%
13885 \unvbox\@mpfootinsv@r
13886 \RTLtrue
13887 \def\baselinestretch{\m@m@footnote@spacing}%
13888 \reset@font\RTLfoottextfont
13889 \hsize\columnwidth \@parboxrestore
13890 \protected@edef\@currentlabel{%
13891 \csname p@mpfootnote\endcsname\@thefnmark}%
13892 \color@begingroup
13893 \@sevencolRTLfootfmt{#1}%

```



```

13894 \color@endgroup}%
13895 \m@mmf@prepare}
13896 \bidi@ensure@newcommand{\m@make@sevencol@footgroup}[1]{%
13897 \namedef{@sevencol@footgroup#1}{%
13898 \def\baselinestretch{\m@m@footnote@spacing}%
13899 \hsize\bidi@columnwidth
13900 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13901 \m@r rigidbalance{\nameuse{footins#1}}{7}{\splittopskip}}}}
13902 \newcommand{\bidi@make@sevencol@LTRfootgroup}[1]{%
13903 \namedef{@sevencol@LTRfootgroup#1}{%
13904 \def\baselinestretch{\m@m@footnote@spacing}%
13905 \hsize\bidi@columnwidth
13906 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13907 \bidi@LTRrigidbalance{\nameuse{footins#1}}{7}{\splittopskip}}}}
13908 \bidi@ensure@newcommand{\m@make@mpsevencol@footgroup}[1]{%
13909 \namedef{@mpsevencol@footgroup#1}{%
13910 \def\baselinestretch{\m@m@footnote@spacing}%
13911 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13912 \m@r rigidbalance{\nameuse{mpfootins#1}}{7}{\splittopskip}}}}
13913 \newcommand{\bidi@make@mpsevencol@LTRfootgroup}[1]{%
13914 \namedef{@mpsevencol@LTRfootgroup#1}{%
13915 \def\baselinestretch{\m@m@footnote@spacing}%
13916 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13917 \bidi@LTRrigidbalance{\nameuse{mpfootins#1}}{7}{\splittopskip}}}}
13918 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
13919 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13920 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13921 \@bidi@before@Hy@hyperfootnotes
13922 \let\@footnotetext\@eightcolfootnotetext
13923 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
13924 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
13925 \dimen\footinsv@r=8\footinsdim
13926 \count\footinsv@r=125\relax
13927 \m@make@eightcol@footgroup{v@r}%
13928 \let\@footgroupv@r\@eightcol@footgroupv@r
13929 \dimen\footinsv@l=8\footinsdim
13930 \count\footinsv@l=125\relax
13931 \bidi@make@eightcol@LTRfootgroup{v@l}%
13932 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13933 \let\@mpfootnotetext\@mpeightcolfootnotetext
13934 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
13935 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
13936 \@bidi@after@Hy@hyperfootnotes
13937 \m@make@mpeightcol@footgroup{v@r}%
13938 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13939 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13940 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13941 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13942 }
13943 \newcommand{\EightColumnFootnotes}{%
13944 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13945 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13946 \@bidi@before@Hy@hyperfootnotes
13947 \let\@footnotetext\@EightColfootnotetext

```



```

13948 \let\@LTRfootnotetext\@EightColLTRfootnotetext
13949 \let\@RTLfootnotetext\@EightColRTLfootnotetext
13950 \dimen\footinsv@r=8\footinsdim
13951 \count\footinsv@r=125\relax
13952 \m@make@eightcol@footgroup{v@r}%
13953 \let\@footgroupv@r\@eightcol@footgroupv@r
13954 \dimen\footinsv@l=8\footinsdim
13955 \count\footinsv@l=125\relax
13956 \bidi@make@eightcol@LTRfootgroup{v@l}%
13957 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13958 \let\@mpfootnotetext\@mpEightColfootnotetext
13959 \let\@mpLTRfootnotetext\@mpEightColLTRfootnotetext
13960 \let\@mpRTLfootnotetext\@mpEightColRTLfootnotetext
13961 \@bidi@after@Hy@hyperfootnotes
13962 \m@make@mp@eightcol@footgroup{v@r}%
13963 \let\mp@footgroupv@r\@mp@eightcol@footgroupv@r
13964 \bidi@make@mp@eightcol@LTRfootgroup{v@l}%
13965 \let\mp@LTRfootgroupv@l\@mp@eightcol@LTRfootgroupv@l
13966 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13967 }
13968 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
13969 \ifRTL@footnote
13970 \footinsv@r
13971 \else
13972 \footinsv@l
13973 \fi
13974 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13975 \def\baselinestretch{\m@mm@footnote@spacing}%
13976 \reset@font\foottextfont
13977 \@preamfntext
13978 \protected@edef\@currentlabel{%
13979 \csname p@footnote\endcsname\@thefnmark}%
13980 \color@begingroup
13981 \@eightcolfootfmt{#1}%
13982 \color@endgroup}%
13983 \m@mmf@prepare}
13984 \newcommand{\@EightColfootnotetext}[1]{%
13985 \bidi@step@absolute@footnote@count
13986 \ifRTL@footnote
13987 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13988 \else
13989 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13990 \fi
13991 \global\setbox
13992 \ifRTL@footnote
13993 \footinsv@r
13994 \else
13995 \footinsv@l
13996 \fi
13997 \vbox{%
13998 \unvbox
13999 \ifRTL@footnote
14000 \footinsv@r
14001 \else

```



```

14002   \footinsv@l
14003   \fi
14004   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14005   \def\baselinestretch{\m@m@footnote@spacing}%
14006   \reset@font\foottextfont
14007   \@preamfntext
14008   \protected@edef\@currentlabel{%
14009     \csname p@footnote\endcsname\@thefnmark}%
14010   \color@begingroup
14011     \@eightcolfootfmt{#1}%
14012   \color@endgroup}%
14013   \m@mmf@prepare
14014   \if@RTL@footnote
14015     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14016   \else
14017     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14018   \fi
14019 }
14020 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14021   \def\baselinestretch{\m@m@footnote@spacing}%
14022   \reset@font\LTRfoottextfont
14023   \@preamfntext
14024   \protected@edef\@currentlabel{%
14025     \csname p@footnote\endcsname\@thefnmark}%
14026   \color@begingroup
14027     \@eightcolLTRfootfmt{#1}%
14028   \color@endgroup}%
14029   \m@mmf@prepare}
14030 \newcommand{\@EightCollTRfootnotetext}[1]{%
14031   \bidi@step@absolute@footnote@count
14032   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14033   \global\setbox\footinsv@l\vbox{%
14034     \unvbox\footinsv@l
14035     \@RTLfalse
14036     \def\baselinestretch{\m@m@footnote@spacing}%
14037     \reset@font\LTRfoottextfont
14038     \@preamfntext
14039     \protected@edef\@currentlabel{%
14040       \csname p@footnote\endcsname\@thefnmark}%
14041     \color@begingroup
14042       \@eightcolLTRfootfmt{#1}%
14043     \color@endgroup}%
14044     \m@mmf@prepare
14045     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14046 }
14047 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14048   \def\baselinestretch{\m@m@footnote@spacing}%
14049   \reset@font\RTLfoottextfont
14050   \@preamfntext
14051   \protected@edef\@currentlabel{%
14052     \csname p@footnote\endcsname\@thefnmark}%
14053   \color@begingroup
14054     \@eightcolRTLfootfmt{#1}%
14055   \color@endgroup}%

```



```

14056 \m@mmf@prepare}
14057 \newcommand{\@EightColRTLfootnotetext}[1]{%
14058 \bidi@step@absolutefootnote@count
14059 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14060 \global\setbox\footinsv@r\vbox{%
14061 \unvbox\footinsv@r
14062 \@RTLtrue%
14063 \def\baselinestretch{\m@m@footnote@spacing}%
14064 \reset@font\RTLfoottextfont
14065 \@preamfntext
14066 \protected@edef\@currentlabel{%
14067 \csname p@footnote\endcsname\@thefnmark}%
14068 \color@begingroup
14069 \@eightcolRTLfootfmt{#1}%
14070 \color@endgroup}%
14071 \m@mmf@prepare
14072 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14073 }
14074 \bidi@ensure@newcommand{\@preameightfmt}{%
14075 \hspace .125\hspace
14076 \parindent=\z@
14077 \tolerance=5000\relax
14078 \leavevmode}
14079 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
14080 \@preameightfmt
14081 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14082 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
14083 \@preameightfmt
14084 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14085 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
14086 \@preameightfmt
14087 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14088 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
14089 \global\setbox
14090 \if@RTL@footnote
14091 \@mpfootinsv@r
14092 \else
14093 \@mpfootinsv@l
14094 \fi
14095 \vbox{%
14096 \unvbox
14097 \if@RTL@footnote
14098 \@mpfootinsv@r
14099 \else
14100 \@mpfootinsv@l
14101 \fi
14102 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14103 \def\baselinestretch{\m@m@footnote@spacing}%
14104 \reset@font\foottextfont
14105 \hspace\columnwidth \@parboxrestore
14106 \protected@edef\@currentlabel{%
14107 \csname p@mpfootnote\endcsname\@thefnmark}%
14108 \color@begingroup
14109 \@eightcolfootfmt{#1}%

```



```

14110 \color@endgroup}%
14111 \m@mmf@prepare}
14112 \newcommand{\@mpEightColfootnotetext}[1]{%
14113   \if@RTL@footnote
14114     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14115   \else
14116     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14117   \fi
14118   \global\setbox
14119     \if@RTL@footnote
14120     \@mpfootinsv@r
14121   \else
14122     \@mpfootinsv@l
14123   \fi
14124   \vbox{%
14125     \unvbox
14126     \if@RTL@footnote
14127     \@mpfootinsv@r
14128   \else
14129     \@mpfootinsv@l
14130   \fi
14131   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14132   \def\baselinestretch{\m@m@footnote@spacing}%
14133   \reset@font\foottextfont
14134   \hsize\columnwidth \@parboxrestore
14135   \protected@edef\@currentlabel{%
14136     \csname p@mpfootnote\endcsname\@thefnmark}%
14137   \color@begingroup
14138     \@eightcolfootfmt{#1}%
14139   \color@endgroup}%
14140 \m@mmf@prepare}
14141 \bidi@ensure@newcommand{\@mpEightColLTRfootnotetext}[1]{%
14142   \global\setbox\@mpfootinsv@l\vbox{%
14143     \unvbox\@mpfootinsv@l
14144     \@RTLfalse
14145     \def\baselinestretch{\m@m@footnote@spacing}%
14146     \reset@font\LTRfoottextfont
14147     \hsize\columnwidth \@parboxrestore
14148     \protected@edef\@currentlabel{%
14149       \csname p@mpfootnote\endcsname\@thefnmark}%
14150   \color@begingroup
14151     \@eightcolLTRfootfmt{#1}%
14152   \color@endgroup}%
14153 \m@mmf@prepare}
14154 \newcommand{\@mpEightColLTRfootnotetext}[1]{%
14155   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14156   \global\setbox\@mpfootinsv@l\vbox{%
14157     \unvbox\@mpfootinsv@l
14158     \@RTLfalse
14159     \def\baselinestretch{\m@m@footnote@spacing}%
14160     \reset@font\LTRfoottextfont
14161     \hsize\columnwidth \@parboxrestore
14162     \protected@edef\@currentlabel{%
14163       \csname p@mpfootnote\endcsname\@thefnmark}%

```




```

14164 \color@begingroup
14165   \@eightcolLTRfootfmt{#1}%
14166 \color@endgroup}%
14167 \m@mmf@prepare}
14168 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
14169   \global\setbox\@mpfootinsv@r\vbox{%
14170     \unvbox\@mpfootinsv@r
14171     \RTLtrue
14172     \def\baselinestretch{\m@m@footnote@spacing}%
14173     \reset@font\RTLfoottextfont
14174     \hsize\columnwidth \@parboxrestore
14175     \protected@edef\@currentlabel{%
14176       \csname p@mpfootnote@endcsname\@thefnmark}%
14177   \color@begingroup
14178     \@eightcolLTRfootfmt{#1}%
14179   \color@endgroup}%
14180 \m@mmf@prepare}
14181 \newcommand{\@mpEightColRTLfootnotetext}[1]{%
14182   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14183   \global\setbox\@mpfootinsv@r\vbox{%
14184     \unvbox\@mpfootinsv@r
14185     \RTLtrue
14186     \def\baselinestretch{\m@m@footnote@spacing}%
14187     \reset@font\RTLfoottextfont
14188     \hsize\columnwidth \@parboxrestore
14189     \protected@edef\@currentlabel{%
14190       \csname p@mpfootnote@endcsname\@thefnmark}%
14191   \color@begingroup
14192     \@eightcolLTRfootfmt{#1}%
14193   \color@endgroup}%
14194 \m@mmf@prepare}
14195 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
14196   \@namedef{@eightcol@footgroup#1}{%
14197     \def\baselinestretch{\m@m@footnote@spacing}%
14198     \hsize\bidi@columnwidth
14199     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14200     \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14201 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
14202   \@namedef{@eightcol@LTRfootgroup#1}{%
14203     \def\baselinestretch{\m@m@footnote@spacing}%
14204     \hsize\bidi@columnwidth
14205     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14206     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14207 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
14208   \@namedef{@mpeightcol@footgroup#1}{%
14209     \def\baselinestretch{\m@m@footnote@spacing}%
14210     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14211     \m@mrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
14212 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
14213   \@namedef{@mpeightcol@LTRfootgroup#1}{%
14214     \def\baselinestretch{\m@m@footnote@spacing}%
14215     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14216     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
14217 \bidi@ensure@newcommand{\nincolumnfootnotes}{%

```



```

14218 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14219 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14220 \@bidi@before@Hy@hyperfootnotes
14221 \let\@footnotetext\@ninelcolfootnotetext
14222 \let\@LTRfootnotetext\@ninelcolLTRfootnotetext
14223 \let\@RTLfootnotetext\@ninelcolRTLfootnotetext
14224 \dimen\footinsv@r=9\footinsdim
14225 \count\footinsv@r=111\relax
14226 \m@make@ninelcol@footgroup{v@r}%
14227 \let\@footgroupv@r\@ninelcol@footgroupv@r
14228 \dimen\footinsv@l=9\footinsdim
14229 \count\footinsv@l=111\relax
14230 \bidi@make@ninelcol@LTRfootgroup{v@l}%
14231 \let\@LTRfootgroupv@l\@ninelcol@LTRfootgroupv@l
14232 \let\@mpfootnotetext\@mpninelcolfootnotetext
14233 \let\@mpLTRfootnotetext\@mpninelcolLTRfootnotetext
14234 \let\@mpRTLfootnotetext\@mpninelcolRTLfootnotetext
14235 \@bidi@after@Hy@hyperfootnotes
14236 \m@make@mpninelcol@footgroup{v@r}%
14237 \let\mp@footgroupv@r\@mpninelcol@footgroupv@r
14238 \bidi@make@mpninelcol@LTRfootgroup{v@l}%
14239 \let\mp@LTRfootgroupv@l\@mpninelcol@LTRfootgroupv@l
14240 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14241 }
14242 \newcommand{\NineColumnFootnotes}{%
14243 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14244 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14245 \@bidi@before@Hy@hyperfootnotes
14246 \let\@footnotetext\@NineColfootnotetext
14247 \let\@LTRfootnotetext\@NineColLTRfootnotetext
14248 \let\@RTLfootnotetext\@NineColRTLfootnotetext
14249 \dimen\footinsv@r=9\footinsdim
14250 \count\footinsv@r=111\relax
14251 \m@make@ninelcol@footgroup{v@r}%
14252 \let\@footgroupv@r\@ninelcol@footgroupv@r
14253 \dimen\footinsv@l=9\footinsdim
14254 \count\footinsv@l=111\relax
14255 \bidi@make@ninelcol@LTRfootgroup{v@l}%
14256 \let\@LTRfootgroupv@l\@ninelcol@LTRfootgroupv@l
14257 \let\@mpfootnotetext\@mpNineColfootnotetext
14258 \let\@mpLTRfootnotetext\@mpNineColLTRfootnotetext
14259 \let\@mpRTLfootnotetext\@mpNineColRTLfootnotetext
14260 \@bidi@after@Hy@hyperfootnotes
14261 \m@make@mpninelcol@footgroup{v@r}%
14262 \let\mp@footgroupv@r\@mpninelcol@footgroupv@r
14263 \bidi@make@mpninelcol@LTRfootgroup{v@l}%
14264 \let\mp@LTRfootgroupv@l\@mpninelcol@LTRfootgroupv@l
14265 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14266 }
14267 \bidi@ensure@newcommand{\@ninelcolfootnotetext}[1]{\insert
14268 \if@RTL@footnote
14269 \footinsv@r
14270 \else
14271 \footinsv@l

```



```

14272 \fi
14273 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14274 \def\baselinestretch{\m@m@footnote@spacing}%
14275 \reset@font\foottextfont
14276 \@preamftext
14277 \protected@edef\@currentlabel{%
14278 \csname p@footnote\endcsname\@thefnmark}%
14279 \color@begingroup
14280 \@ninecolfootfmt{#1}%
14281 \color@endgroup}%
14282 \m@mmf@prepare}
14283 \newcommand{\@NineColFootnotetext}[1]{%
14284 \bidi@step@absolute@footnote@count
14285 \ifRTL@footnote
14286 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14287 \else
14288 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14289 \fi
14290 \global\setbox
14291 \ifRTL@footnote
14292 \footinsv@r
14293 \else
14294 \footinsv@l
14295 \fi
14296 \vbox{%
14297 \unvbox
14298 \ifRTL@footnote
14299 \footinsv@r
14300 \else
14301 \footinsv@l
14302 \fi
14303 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
14304 \def\baselinestretch{\m@m@footnote@spacing}%
14305 \reset@font\foottextfont
14306 \@preamftext
14307 \protected@edef\@currentlabel{%
14308 \csname p@footnote\endcsname\@thefnmark}%
14309 \color@begingroup
14310 \@ninecolfootfmt{#1}%
14311 \color@endgroup}%
14312 \m@mmf@prepare
14313 \ifRTL@footnote
14314 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14315 \else
14316 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14317 \fi
14318 }
14319 \bidi@ensure@newcommand{\@NineColLTRFootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14320 \def\baselinestretch{\m@m@footnote@spacing}%
14321 \reset@font\LTRfoottextfont
14322 \@preamftext
14323 \protected@edef\@currentlabel{%
14324 \csname p@footnote\endcsname\@thefnmark}%
14325 \color@begingroup

```



```

14326 \@ninecolLTRfootfmt{#1}%
14327 \color@endgroup}%
14328 \m@mmf@prepare}
14329 \newcommand{\@NineColLTRfootnotetext}[1]{%
14330 \bidi@step@absolute@footnote@count
14331 \bidi@reinsert@footnote\footinsv@r\@footstartv@r\@footgroupv@r
14332 \global\setbox\footinsv@l\vbox{%
14333 \unvbox\footinsv@l
14334 \@RTLfalse
14335 \def\baselinestretch{\m@m@footnote@spacing}%
14336 \reset@font\LTRfoottextfont
14337 \@preamfntext
14338 \protected@edef\@currentlabel{%
14339 \csname p@footnote\endcsname\@thefnmark}%
14340 \color@begingroup
14341 \@ninecolLTRfootfmt{#1}%
14342 \color@endgroup}%
14343 \m@mmf@prepare
14344 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14345 }
14346 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14347 \def\baselinestretch{\m@m@footnote@spacing}%
14348 \reset@font\RTLfoottextfont
14349 \@preamfntext
14350 \protected@edef\@currentlabel{%
14351 \csname p@footnote\endcsname\@thefnmark}%
14352 \color@begingroup
14353 \@ninecolRTLfootfmt{#1}%
14354 \color@endgroup}%
14355 \m@mmf@prepare}
14356 \newcommand{\@NineColRTLfootnotetext}[1]{%
14357 \bidi@step@absolute@footnote@count
14358 \bidi@reinsert@footnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14359 \global\setbox\footinsv@r\vbox{%
14360 \unvbox\footinsv@r
14361 \@RTLtrue
14362 \def\baselinestretch{\m@m@footnote@spacing}%
14363 \reset@font\RTLfoottextfont
14364 \@preamfntext
14365 \protected@edef\@currentlabel{%
14366 \csname p@footnote\endcsname\@thefnmark}%
14367 \color@begingroup
14368 \@ninecolRTLfootfmt{#1}%
14369 \color@endgroup}%
14370 \m@mmf@prepare
14371 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14372 }
14373 \bidi@ensure@newcommand{\@preamninefmt}{%
14374 \hspace .1\hspace
14375 \parindent=\z@
14376 \tolerance=5000\relax
14377 \leavevmode}
14378 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
14379 \@preamninefmt

```



```

14380 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14381 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
14382   \@preamninefmt
14383   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14384 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
14385   \@preamninefmt
14386   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14387 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
14388   \global\setbox
14389     \if@RTL@footnote
14390     \@mpfootinsv@r
14391   \else
14392     \@mpfootinsv@l
14393   \fi
14394   \vbox{%
14395     \unvbox
14396     \if@RTL@footnote
14397     \@mpfootinsv@r
14398   \else
14399     \@mpfootinsv@l
14400   \fi
14401   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14402   \def\baselinestretch{\m@m@footnote@spacing}%
14403   \reset@font\foottextfont
14404   \hsize\columnwidth \@parboxrestore
14405   \protected@edef\@currentlabel{%
14406     \csname p@mpfootnote\endcsname\@thefnmark}%
14407   \color@begingroup
14408     \@ninecolfootfmt{#1}%
14409   \color@endgroup}%
14410   \m@mmf@prepare}
14411 \newcommand{\@mpNineColfootnotetext}[1]{%
14412   \if@RTL@footnote
14413     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14414   \else
14415     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14416   \fi
14417   \global\setbox
14418     \if@RTL@footnote
14419     \@mpfootinsv@r
14420   \else
14421     \@mpfootinsv@l
14422   \fi
14423   \vbox{%
14424     \unvbox
14425     \if@RTL@footnote
14426     \@mpfootinsv@r
14427   \else
14428     \@mpfootinsv@l
14429   \fi
14430   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14431   \def\baselinestretch{\m@m@footnote@spacing}%
14432   \reset@font\foottextfont
14433   \hsize\columnwidth \@parboxrestore

```



```

14434 \protected@edef\@currentlabel{%
14435 \csname p@mpfootnote\endcsname\@thefnmark}%
14436 \color@begingroup
14437 \@ninecolfootfmt{#1}%
14438 \color@endgroup}%
14439 \m@mmf@prepare}
14440 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
14441 \global\setbox\@mpfootinsv@l\vbox{%
14442 \unvbox\@mpfootinsv@l
14443 \@RTLfalse
14444 \def\baselinestretch{\m@m@footnote@spacing}%
14445 \reset@font\LTRfoottextfont
14446 \hsize\columnwidth \@parboxrestore
14447 \protected@edef\@currentlabel{%
14448 \csname p@mpfootnote\endcsname\@thefnmark}%
14449 \color@begingroup
14450 \@ninecolLTRfootfmt{#1}%
14451 \color@endgroup}%
14452 \m@mmf@prepare}
14453 \newcommand{\@mpNineColLTRfootnotetext}[1]{%
14454 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14455 \global\setbox\@mpfootinsv@l\vbox{%
14456 \unvbox\@mpfootinsv@l
14457 \@RTLfalse
14458 \def\baselinestretch{\m@m@footnote@spacing}%
14459 \reset@font\LTRfoottextfont
14460 \hsize\columnwidth \@parboxrestore
14461 \protected@edef\@currentlabel{%
14462 \csname p@mpfootnote\endcsname\@thefnmark}%
14463 \color@begingroup
14464 \@ninecolLTRfootfmt{#1}%
14465 \color@endgroup}%
14466 \m@mmf@prepare}
14467 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
14468 \global\setbox\@mpfootinsv@r\vbox{%
14469 \unvbox\@mpfootinsv@r
14470 \@RTLtrue
14471 \def\baselinestretch{\m@m@footnote@spacing}%
14472 \reset@font\RTLfoottextfont
14473 \hsize\columnwidth \@parboxrestore
14474 \protected@edef\@currentlabel{%
14475 \csname p@mpfootnote\endcsname\@thefnmark}%
14476 \color@begingroup
14477 \@ninecolRTLfootfmt{#1}%
14478 \color@endgroup}%
14479 \m@mmf@prepare}
14480 \newcommand{\@mpNineColRTLfootnotetext}[1]{%
14481 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14482 \global\setbox\@mpfootinsv@r\vbox{%
14483 \unvbox\@mpfootinsv@r
14484 \@RTLtrue
14485 \def\baselinestretch{\m@m@footnote@spacing}%
14486 \reset@font\RTLfoottextfont
14487 \hsize\columnwidth \@parboxrestore

```



```

14488 \protected@edef\@currentlabel{%
14489 \csname p@mpfootnote\endcsname\@thefnmark}%
14490 \color@begingroup
14491 \@ninecolRTLfootfmt{#1}%
14492 \color@endgroup}%
14493 \m@mmf@prepare}
14494 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
14495 \@namedef{@ninecol@footgroup#1}{%
14496 \def\baselinestretch{\m@m@footnote@spacing}%
14497 \hsize\bidi@columnwidth
14498 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14499 \m@r rigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14500 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
14501 \@namedef{@ninecol@LTRfootgroup#1}{%
14502 \def\baselinestretch{\m@m@footnote@spacing}%
14503 \hsize\bidi@columnwidth
14504 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14505 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14506 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
14507 \@namedef{@mpninecol@footgroup#1}{%
14508 \def\baselinestretch{\m@m@footnote@spacing}%
14509 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14510 \m@r rigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}}
14511 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
14512 \@namedef{@mpninecol@LTRfootgroup#1}{%
14513 \def\baselinestretch{\m@m@footnote@spacing}%
14514 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14515 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}}
14516 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
14517 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14518 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14519 \@bidi@before@Hy@hyperfootnotes
14520 \let\@footnotetext\@tencolfootnotetext
14521 \let\@LTRfootnotetext\@tencolLTRfootnotetext
14522 \let\@RTLfootnotetext\@tencolRTLfootnotetext
14523 \dimen\footinsv@r=10\footinsdim
14524 \count\footinsv@r=100\relax
14525 \m@make@tencol@footgroup{v@r}%
14526 \let\@footgroupv@r\@tencol@footgroupv@r
14527 \dimen\footinsv@l=10\footinsdim
14528 \count\footinsv@l=100\relax
14529 \bidi@make@tencol@LTRfootgroup{v@l}%
14530 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14531 \let\@mpfootnotetext\@mptencolfootnotetext
14532 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
14533 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
14534 \@bidi@after@Hy@hyperfootnotes
14535 \m@make@mptencol@footgroup{v@r}%
14536 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14537 \bidi@make@mptencol@LTRfootgroup{v@l}%
14538 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14539 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14540 }
14541 \newcommand{\TenColumnFootnotes}{%

```



```

14542 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14543 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14544 \@bidi@before@Hy@hyperfootnotes
14545 \let\@footnotetext\@TenColfootnotetext
14546 \let\@LTRfootnotetext\@TenColLTRfootnotetext
14547 \let\@RTLfootnotetext\@TenColRTLfootnotetext
14548 \dimen\footinsv@r=10\footinsdim
14549 \count\footinsv@r=100\relax
14550 \m@make@tencol@footgroup{v@r}%
14551 \let\@footgroupv@r\@tencol@footgroupv@r
14552 \dimen\footinsv@l=10\footinsdim
14553 \count\footinsv@l=100\relax
14554 \bidi@make@tencol@LTRfootgroup{v@l}%
14555 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14556 \let\@mpfootnotetext\@mpTenColfootnotetext
14557 \let\@mpLTRfootnotetext\@mpTenColLTRfootnotetext
14558 \let\@mpRTLfootnotetext\@mpTenColRTLfootnotetext
14559 \@bidi@after@Hy@hyperfootnotes
14560 \m@make@mptencol@footgroup{v@r}%
14561 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14562 \bidi@make@mptencol@LTRfootgroup{v@l}%
14563 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14564 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14565 }
14566 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
14567   \if@RTL@footnote
14568     \footinsv@r
14569   \else
14570     \footinsv@l
14571   \fi
14572 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14573   \def\baselinestretch{\m@mm@footnote@spacing}%
14574   \reset@font\foottextfont
14575   \@preamfntext
14576   \protected@edef\@currentlabel{%
14577     \csname p@footnote\endcsname\@thefnmark}%
14578   \color@begingroup
14579     \@tencolfootfmt{#1}%
14580   \color@endgroup}%
14581   \m@mmf@prepare}
14582 \newcommand{\@TenColfootnotetext}[1]{%
14583   \bidi@step@absolute@footnote@count
14584   \if@RTL@footnote
14585     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14586   \else
14587     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14588   \fi
14589   \global\setbox
14590   \if@RTL@footnote
14591     \footinsv@r
14592   \else
14593     \footinsv@l
14594   \fi
14595   \vbox{%

```




```

14596 \unvbox
14597 \if@RTL@footnote
14598   \footinsv@r
14599 \else
14600   \footinsv@l
14601 \fi
14602 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14603 \def\baselinestretch{\m@m@footnote@spacing}%
14604 \reset@font\foottextfont
14605 \@preamfntext
14606 \protected@edef\@currentlabel{%
14607   \csname p@footnote\endcsname\@thefnmark}%
14608 \color@begingroup
14609   \@tencolfootfmt{#1}%
14610 \color@endgroup}%
14611 \m@mmf@prepare
14612 \if@RTL@footnote
14613   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14614 \else
14615   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14616 \fi
14617 }
14618 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14619 \def\baselinestretch{\m@m@footnote@spacing}%
14620 \reset@font\LTRfoottextfont
14621 \@preamfntext
14622 \protected@edef\@currentlabel{%
14623   \csname p@footnote\endcsname\@thefnmark}%
14624 \color@begingroup
14625   \@tencolLTRfootfmt{#1}%
14626 \color@endgroup}%
14627 \m@mmf@prepare}
14628 \newcommand{\@TenColLTRfootnotetext}[1]{%
14629 \bidi@step@absolute@footnote@count
14630 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14631 \global\setbox\footinsv@l\vbox{%
14632 \unvbox\footinsv@l
14633 \@RTLfalse%
14634 \def\baselinestretch{\m@m@footnote@spacing}%
14635 \reset@font\LTRfoottextfont
14636 \@preamfntext
14637 \protected@edef\@currentlabel{%
14638   \csname p@footnote\endcsname\@thefnmark}%
14639 \color@begingroup
14640   \@tencolLTRfootfmt{#1}%
14641 \color@endgroup}%
14642 \m@mmf@prepare
14643 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14644 }
14645 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14646 \def\baselinestretch{\m@m@footnote@spacing}%
14647 \reset@font\RTLfoottextfont
14648 \@preamfntext
14649 \protected@edef\@currentlabel{%

```



```

14650   \csname p@footnote\endcsname\@thefnmark}%
14651   \color@begingroup
14652     \@tencolRTLfootfmt{#1}%
14653   \color@endgroup}%
14654   \m@mmf@prepare}
14655 \newcommand{\@TenColRTLfootnotetext}[1]{%
14656   \bidi@step@absolute@footnote@count
14657   \bidi@reinsert@footnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
14658   \global\setbox\footinsv@r\vbox{%
14659     \unvbox\footinsv@r
14660     \@RTLtrue
14661     \def\baselinestretch{\m@m@footnote@spacing}%
14662     \reset@font\RTLfoottextfont
14663     \@preamfntext
14664     \protected@edef\@currentlabel{%
14665       \csname p@footnote\endcsname\@thefnmark}%
14666     \color@begingroup
14667       \@tencolRTLfootfmt{#1}%
14668     \color@endgroup}%
14669     \m@mmf@prepare
14670     \bidi@reinsert@final@footnote@perpage\footinsv@r\@footstartv@r\@footgroupv@r
14671   }
14672 \bidi@ensure@newcommand{\@preamfntext}{%
14673   \hspace .1\hspace
14674   \parindent=\z@
14675   \tolerance=5000\relax
14676   \leavevmode}
14677 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
14678   \@preamfntext
14679   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14680 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
14681   \@preamfntext
14682   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14683 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
14684   \@preamfntext
14685   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14686 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
14687   \global\setbox
14688     \if@RTL@footnote
14689     \@mpfootinsv@r
14690   \else
14691     \@mpfootinsv@l
14692   \fi
14693   \vbox{%
14694     \unvbox
14695     \if@RTL@footnote
14696     \@mpfootinsv@r
14697   \else
14698     \@mpfootinsv@l
14699   \fi
14700   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14701   \def\baselinestretch{\m@m@footnote@spacing}%
14702   \reset@font\foottextfont
14703   \hspace\columnwidth \@parboxrestore

```



```

14704 \protected@edef\@currentlabel{%
14705 \csname p@mpfootnote\endcsname\@thefnmark}%
14706 \color@begingroup
14707 \@tencolfootfmt{#1}%
14708 \color@endgroup}%
14709 \m@mmf@prepare}
14710 \newcommand{\@mpTenColfootnotetext}[1]{%
14711 \if@RTL@footnote
14712 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14713 \else
14714 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14715 \fi
14716 \global\setbox
14717 \if@RTL@footnote
14718 \@mpfootinsv@r
14719 \else
14720 \@mpfootinsv@l
14721 \fi
14722 \vbox{%
14723 \unvbox
14724 \if@RTL@footnote
14725 \@mpfootinsv@r
14726 \else
14727 \@mpfootinsv@l
14728 \fi
14729 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14730 \def\baselinestretch{\m@m@footnote@spacing}%
14731 \reset@font\foottextfont
14732 \hsize\columnwidth \@parboxrestore
14733 \protected@edef\@currentlabel{%
14734 \csname p@mpfootnote\endcsname\@thefnmark}%
14735 \color@begingroup
14736 \@tencolfootfmt{#1}%
14737 \color@endgroup}%
14738 \m@mmf@prepare}
14739 \bidi@ensure@newcommand{\@mptencollTRfootnotetext}[1]{%
14740 \global\setbox\@mpfootinsv@l\vbox{%
14741 \unvbox\@mpfootinsv@l
14742 \@RTLfalse
14743 \def\baselinestretch{\m@m@footnote@spacing}%
14744 \reset@font\LTRfoottextfont
14745 \hsize\columnwidth \@parboxrestore
14746 \protected@edef\@currentlabel{%
14747 \csname p@mpfootnote\endcsname\@thefnmark}%
14748 \color@begingroup
14749 \@tencollTRfootfmt{#1}%
14750 \color@endgroup}%
14751 \m@mmf@prepare}
14752 \newcommand{\@mpTenCollTRfootnotetext}[1]{%
14753 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14754 \global\setbox\@mpfootinsv@l\vbox{%
14755 \unvbox\@mpfootinsv@l
14756 \@RTLfalse
14757 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

14758 \reset@font\LTRfoottextfont
14759 \hsize\columnwidth \@parboxrestore
14760 \protected@edef\@currentlabel{%
14761 \csname p@mpfootnote\endcsname\@thefnmark}%
14762 \color@begingroup
14763 \@tencolLTRfootfmt{#1}%
14764 \color@endgroup}%
14765 \m@mmf@prepare}
14766 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
14767 \global\setbox\@mpfootinsv@r\vbox{%
14768 \unvbox\@mpfootinsv@r
14769 \@RTLtrue
14770 \def\baselinestretch{\m@m@footnote@spacing}%
14771 \reset@font\RTLfoottextfont
14772 \hsize\columnwidth \@parboxrestore
14773 \protected@edef\@currentlabel{%
14774 \csname p@mpfootnote\endcsname\@thefnmark}%
14775 \color@begingroup
14776 \@tencolRTLfootfmt{#1}%
14777 \color@endgroup}%
14778 \m@mmf@prepare}
14779 \newcommand{\@mpTenColRTLfootnotetext}[1]{%
14780 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14781 \global\setbox\@mpfootinsv@r\vbox{%
14782 \unvbox\@mpfootinsv@r
14783 \@RTLtrue
14784 \def\baselinestretch{\m@m@footnote@spacing}%
14785 \reset@font\RTLfoottextfont
14786 \hsize\columnwidth \@parboxrestore
14787 \protected@edef\@currentlabel{%
14788 \csname p@mpfootnote\endcsname\@thefnmark}%
14789 \color@begingroup
14790 \@tencolRTLfootfmt{#1}%
14791 \color@endgroup}%
14792 \m@mmf@prepare}
14793 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
14794 \@namedef{@tencol@footgroup#1}{%
14795 \def\baselinestretch{\m@m@footnote@spacing}%
14796 \hsize\bidi@columnwidth
14797 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14798 \m@r@rigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14799 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
14800 \@namedef{@tencol@LTRfootgroup#1}{%
14801 \def\baselinestretch{\m@m@footnote@spacing}%
14802 \hsize\bidi@columnwidth
14803 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14804 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
14805 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
14806 \@namedef{@mptencol@footgroup#1}{%
14807 \def\baselinestretch{\m@m@footnote@spacing}%
14808 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14809 \m@r@rigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}}
14810 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
14811 \@namedef{@mptencol@LTRfootgroup#1}{%

```



```

14812 \def\baselinestretch{\m@m@footnote@spacing}%
14813 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14814 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}
14815 \bidi@ensure@newcommand{\m@munvxh}[1]{%
14816   \setbox0=\vbox{\unvbox#1%
14817     \global\setbox1=\lastbox}%
14818   \unhbox1
14819   \unskip
14820   \unskip
14821   \unpenalty
14822   \hskip\m@mipn@skip}
14823 \bidi@ensure@newcommand{\m@mungebox}{%
14824   \setbox0=\hbox{\m@munvxh0}%
14825   \dp0=\z@
14826   \ht0=\footfudgefactor\wd0
14827   \box0
14828   \penalty0}
14829 \newskip\m@mipn@skip
14830 \bidi@ensure@newcommand*{\m@minterparanoteglu}[1]{%
14831   {\foottextfont\global\m@mipn@skip=#1\relax}}
14832 \m@minterparanoteglu{1em plus.3em minus.3em}
14833 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
14834   \setbox0=\hbox{}%
14835   \loop
14836     \unpenalty
14837     \setbox2=\lastbox
14838     \ifhbox2
14839       \setbox0=\hbox{\box2\unhbox0}
14840     \repeat}
14841 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
14842   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
14843 \newcommand*\AddExtraParaSkip[1]{%
14844   \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
14845 }
14846 \let\bidi@xparaskip\relax
14847 \@onlypreamble\AddExtraParaSkip
14848 \@onlypreamble\bidi@xparaskip
14849 \def\bidi@startparafootskip#1{%
14850   \global\advance\skip#1\bidi@paraskip
14851 }
14852 \@onlypreamble\bidi@startparafootskip
14853 \bidi@ensure@newcommand{\paragraphfootnotes}{%
14854   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14855   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14856   \@bidi@before@Hy@hyperfootnotes
14857   \let\@footnotetext\@parafootnotetext
14858   \let\@LTRfootnotetext\@paraLTRfootnotetext
14859   \let\@RTLfootnotetext\@paraRTLfootnotetext
14860   \dimen\footinsv@r=\footinsdim
14861   \count\footinsv@r=1000\relax
14862   \let\bidi@removexfootskip\bidi@removexparafootskip
14863   \m@make@para@footgroup{v@r}%
14864   \m@make@para@footstart{v@r}%
14865   \let\@footgroupv@r\@para@footgroupv@r

```



```

14866 \let\@footstartv@r\@para@footstartv@r
14867 \dimen\footinsv@l=\footinsdim
14868 \count\footinsv@l=1000\relax
14869 \bidi@make@para@LTRfootgroup{v@l}%
14870 \m@make@para@footstart{v@l}%
14871 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14872 \let\@footstartv@l\@para@footstartv@l
14873 \let\@mpfootnotetext\@mpparafootnotetext
14874 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14875 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
14876 \@bidi@after@Hy@hyperfootnotes
14877 \m@make@mppara@footgroup{v@r}%
14878 \bidi@make@mppara@LTRfootgroup{v@l}%
14879 \let\mp@footgroupv@r\@mppara@footgroupv@r
14880 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14881 \g@addto@macro\bidi@floathook{%
14882   \begingroup
14883     \foottextfont \@tempdima\normalbaselineskip
14884     \multiply \@tempdima \ccclvi
14885     \@tempdimb \columnwidth
14886     \divide \@tempdimb \ccclvi
14887     \divide \@tempdima \@tempdimb
14888     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14889   \endgroup
14890 }
14891 \AtBeginDocument{%
14892   \begingroup
14893     \foottextfont
14894     \@tempdima\footnotesep
14895     \advance\@tempdima -\ht\strutbox
14896     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
14897     \advance\@tempdima.5\normalbaselineskip
14898     \bidi@xparaskip
14899     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14900   \endgroup
14901   \bidi@startparafootskip\footinsv@r
14902   \bidi@startparafootskip\footinsv@l
14903 }
14904 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14905 }
14906 \newcommand{\ParagraphFootnotes}{%
14907   \@namedef{foottextfontv@r}{\foottextfont}%
14908   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14909   \@bidi@before@Hy@hyperfootnotes
14910   \let\@footnotetext\@Parafootnotetext
14911   \let\@LTRfootnotetext\@ParaLTRfootnotetext
14912   \let\@RTLfootnotetext\@ParaRTLfootnotetext
14913   \dimen\footinsv@r=\footinsdim
14914   \count\footinsv@r=1000\relax
14915   \let\bidi@removexfootskip\bidi@removexparafootskip
14916   \m@make@para@footgroup{v@r}%
14917   \m@make@para@footstart{v@r}%
14918   \let\@footgroupv@r\@para@footgroupv@r
14919   \let\@footstartv@r\@para@footstartv@r

```



```

14920 \dimen\footinsv@l=\footinsdim
14921 \count\footinsv@l=1000\relax
14922 \bidi@make@para@LTRfootgroup{v@l}%
14923 \m@make@para@footstart{v@l}%
14924 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14925 \let\@footstartv@l\@para@footstartv@l
14926 \let\@mpfootnotetext\@mpParafootnotetext
14927 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
14928 \let\@mpRTLfootnotetext\@mpParaRTLfootnotetext
14929 \@bidi@after@Hy@hyperfootnotes
14930 \m@make@mppara@footgroup{v@r}%
14931 \bidi@make@mppara@LTRfootgroup{v@l}%
14932 \let\mp@footgroupv@r\@mppara@footgroupv@r
14933 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14934 \g@addto@macro\bidi@floathook{%
14935   \begingroup
14936     \foottextfont \@tempdima\normalbaselineskip
14937     \multiply \@tempdima \@cclvi
14938     \@tempdimb \columnwidth
14939     \divide \@tempdimb \@cclvi
14940     \divide \@tempdima \@tempdimb
14941     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14942   \endgroup
14943 }
14944 \AtBeginDocument{%
14945   \begingroup
14946     \foottextfont
14947     \@tempdima\footnotesep
14948     \advance\@tempdima -\ht\strutbox
14949     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
14950     \advance\@tempdima.5\normalbaselineskip
14951     \bidi@xparaskip
14952     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14953   \endgroup
14954   \bidi@startparafootskip\footinsv@r
14955   \bidi@startparafootskip\footinsv@l
14956 }
14957 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14958 }
14959 \newcommand{\normalRTLparaLTRfootnotes}{%
14960   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14961   \@bidi@before@Hy@hyperfootnotes
14962   \if@RTL@footnote
14963     \let\@footnotetext\m@old@footnotetext
14964   \else
14965     \let\@footnotetext\@parafootnotetext
14966   \fi
14967   \let\@LTRfootnotetext\@paraLTRfootnotetext
14968   \let\@RTLfootnotetext\m@old@RTLfootnotetext
14969   \dimen\footinsv@l=\footinsdim
14970   \count\footinsv@l=1000\relax
14971   \let\bidi@removexfootskip\bidi@removexparafootskip
14972   \bidi@make@para@LTRfootgroup{v@l}%
14973   \m@make@para@footstart{v@l}%

```



```

14974 \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
14975 \let\@footstartv@1\@para@footstartv@1
14976 \if@RTL@footnote
14977   \let\@mpfootnotetext\m@mold@mpfootnotetext
14978 \else
14979   \let\@mpfootnotetext\@mpparafootnotetext
14980 \fi
14981 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14982 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
14983 \@bidi@after@Hy@hyperfootnotes
14984 \bidi@make@mppara@LTRfootgroup{v@1}%
14985 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
14986 \g@addto@macro\bidi@floathook{%
14987   \begingroup
14988     \LTRfoottextfont \@tempdima\normalbaselineskip
14989     \multiply \@tempdima \@cclvi
14990     \@tempdimb \columnwidth
14991     \divide \@tempdimb \@cclvi
14992     \divide \@tempdima \@tempdimb
14993     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14994   \endgroup
14995 }
14996 \AtBeginDocument{%
14997   \begingroup
14998     \LTRfoottextfont
14999     \@tempdima\footnotesep
15000     \advance\@tempdima -\ht\strutbox
15001     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
15002     \advance\@tempdima.5\normalbaselineskip
15003     \bidi@xparaskip
15004     \xdef\bidi@paraskip{\the\@tempdima\relax}%
15005   \endgroup
15006   \bidi@startparafootskip\footinsv@1
15007 }
15008 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15009 }
15010 \newcommand{\NormalRTLParaLTRFootnotes}{%
15011   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
15012   \@bidi@before@Hy@hyperfootnotes
15013   \if@RTL@footnote
15014     \let\@footnotetext\bidi@bidiold@footnotetext
15015   \else
15016     \let\@footnotetext\@Parafootnotetext
15017   \fi
15018   \let\@LTRfootnotetext\@ParaLTRfootnotetext
15019   \let\@RTLfootnotetext\bidi@bidiold@RTLfootnotetext
15020   \dimen\footinsv@1=\footinsdim
15021   \count\footinsv@1=1000\relax
15022   \let\bidi@removexfootskip\bidi@removexparafootskip
15023   \bidi@make@para@LTRfootgroup{v@1}%
15024   \m@make@para@footstart{v@1}%
15025   \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
15026   \let\@footstartv@1\@para@footstartv@1
15027   \if@RTL@footnote

```




```

15028 \let\@mpfootnotetext\@bidi@bidiold@mpfootnotetext
15029 \else
15030 \let\@mpfootnotetext\@mpParafootnotetext
15031 \fi
15032 \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
15033 \let\@mpRTLfootnotetext\@bidi@bidiold@mpRTLfootnotetext
15034 \@bidi@after@Hy@hyperfootnotes
15035 \bidi@make@mppara@LTRfootgroup{v@1}%
15036 \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
15037 \g@addto@macro\@bidi@floathook{%
15038 \begingroup
15039 \LTRfoottextfont \@tempdima\normalbaselineskip
15040 \multiply \@tempdima \@cclvi
15041 \@tempdimb \columnwidth
15042 \divide \@tempdimb \@cclvi
15043 \divide \@tempdima \@tempdimb
15044 \xdef\footfudgefactor{\strip@pt\@tempdima}%
15045 \endgroup
15046 }
15047 \AtBeginDocument{%
15048 \begingroup
15049 \LTRfoottextfont
15050 \@tempdima\footnotesep
15051 \advance\@tempdima -\ht\strutbox
15052 \ifdim\@tempdima<z@ \@tempdima\z@ \fi
15053 \advance\@tempdima.5\normalbaselineskip
15054 \bidi@xparaskip
15055 \xdef\@bidi@paraskip{\the\@tempdima\relax}%
15056 \endgroup
15057 \bidi@startparafootskip\footinsv@1
15058 }
15059 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
15060 }
15061 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
15062 \if@RTL@footnote
15063 \footinsv@r
15064 \else
15065 \footinsv@l
15066 \fi
15067 {%
15068 \let\@bidi@RTL@everypar\@empty%
15069 \def\baselinestretch{\m@m@footnote@spacing}%
15070 \reset@font\foottextfont
15071 \@preamfntext
15072 \protected@edef\@currentlabel{%
15073 \csname p@footnote\endcsname\@thefnmark}%
15074 \setbox0=\vbox{\hsize=\maxdimen
15075 \color@begingroup
15076 \noindent \@parafootfmt{#1}%
15077 \color@endgroup}%
15078 \m@mungebox}\m@mmf@prepare}
15079 \newcommand{\@Parafootnotetext}[1]{%
15080 \bidi@step@absolute@footnote@count
15081 \if@RTL@footnote

```



```

15082     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15083 \else
15084     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15085 \fi
15086 \global\setbox
15087 \if@RTL@footnote
15088     \footinsv@r
15089 \else
15090     \footinsv@l
15091 \fi
15092 \vbox{%
15093 \unvbox
15094 \if@RTL@footnote
15095     \footinsv@r
15096 \else
15097     \footinsv@l
15098 \fi
15099 \let\bidi@RTL@everypar\@empty%
15100 \def\baselinestretch{\m@m@footnote@spacing}%
15101 \reset@font\foottextfont
15102 \@preamftext
15103 \protected@edef\@currentlabel{%
15104     \csname p@footnote\endcsname\@thefnmark}%
15105 \setbox0=\vbox{\hsize=\maxdimen
15106     \color@begingroup
15107     \noindent \@parafootfmt{#1}%
15108     \color@endgroup}%
15109 \m@mungebox}\m@mmf@prepare
15110 \if@RTL@footnote
15111     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15112 \else
15113     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15114 \fi
15115 }
15116 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
15117 \let\bidi@RTL@everypar\@empty%
15118 \def\baselinestretch{\m@m@footnote@spacing}%
15119 \reset@font\LTRfoottextfont
15120 \@preamftext
15121 \protected@edef\@currentlabel{%
15122     \csname p@footnote\endcsname\@thefnmark}%
15123 \setbox0=\vbox{\hsize=\maxdimen
15124     \color@begingroup
15125     \noindent \@paraLTRfootfmt{#1}%
15126     \color@endgroup}%
15127 \m@mungebox}\m@mmf@prepare}
15128 \newcommand{\@ParaLTRfootnotetext}[1]{%
15129 \bidi@step@absolute@footnote@count
15130 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15131 \global\setbox\footinsv@l\vbox{%
15132 \unvbox\footinsv@l
15133 \let\bidi@RTL@everypar\@empty%
15134 \def\baselinestretch{\m@m@footnote@spacing}%
15135 \reset@font\LTRfoottextfont

```



```

15136 \@preamfntext
15137 \protected@edef\@currentlabel{%
15138   \csname p@footnote\endcsname\@thefnmark}%
15139 \setbox0=\vbox{\hsize=\maxdimen
15140   \color@begingroup
15141   \noindent \@paraLTRfootfmt{#1}%
15142   \color@endgroup}%
15143 \m@mungebox}\m@mmf@prepare
15144 \bidi@reinsertfinalfootnoteperpage\footinsv@1\@footstartv@1\@LTRfootgroupv@1
15145 }
15146 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
15147   \let\bidi@RTL@everypar\@empty%
15148   \def\baselinestretch{\m@m@footnote@spacing}%
15149   \reset@font\RTLfoottextfont
15150   \@preamfntext
15151   \protected@edef\@currentlabel{%
15152     \csname p@footnote\endcsname\@thefnmark}%
15153   \setbox0=\vbox{\hsize=\maxdimen
15154     \color@begingroup
15155     \noindent \@paraRTLfootfmt{#1}%
15156     \color@endgroup}%
15157   \m@mungebox}\m@mmf@prepare}
15158 \newcommand{\@ParaRTLfootnotetext}[1]{%
15159   \bidi@step@absolutefootnote@count
15160   \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
15161   \global\setbox\footinsv@r\vbox{%
15162     \unvbox\footinsv@r
15163     \let\bidi@RTL@everypar\@empty%
15164     \def\baselinestretch{\m@m@footnote@spacing}%
15165     \reset@font\RTLfoottextfont
15166     \@preamfntext
15167     \protected@edef\@currentlabel{%
15168       \csname p@footnote\endcsname\@thefnmark}%
15169     \setbox0=\vbox{\hsize=\maxdimen
15170       \color@begingroup
15171       \noindent \@paraRTLfootfmt{#1}%
15172       \color@endgroup}%
15173     \m@mungebox}\m@mmf@prepare
15174     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15175   }
15176 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
15177   \parindent=\z@
15178   \parfillskip=0pt \@plus 1fil
15179   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
15180 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
15181   \parindent=\z@
15182   \parfillskip=0pt \@plus 1fil
15183   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
15184 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
15185   \parindent=\z@
15186   \parfillskip=0pt \@plus 1fil
15187   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
15188 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
15189   \global\setbox

```



```

15190 \if@RTL@footnote
15191   \@mpfootinsv@r
15192 \else
15193   \@mpfootinsv@l
15194 \fi
15195 \vbox{%
15196   \unvbox
15197   \if@RTL@footnote
15198     \@mpfootinsv@r
15199   \else
15200     \@mpfootinsv@l
15201   \fi
15202   \let\bidir@RTL@everypar\@empty
15203   \def\baselinestretch{\m@m@footnote@spacing}%
15204   \reset@font\foottextfont
15205   \hsize\columnwidth \@parboxrestore
15206   \protected@edef\@currentlabel{%
15207     \csname p@mpfootnote\endcsname\@thefnmark}%
15208   \setbox0=\vbox{\hsize=\maxdimen
15209     \color@begingroup
15210     \noindent \@parafootfmt{#1}%
15211     \color@endgroup}%
15212   \m@mungebox}\m@mmf@prepare}
15213 \newcommand{\@mpParafootnotetext}[1]{%
15214 \if@RTL@footnote
15215   \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15216 \else
15217   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15218 \fi
15219 \global\setbox
15220 \if@RTL@footnote
15221   \@mpfootinsv@r
15222 \else
15223   \@mpfootinsv@l
15224 \fi
15225 \vbox{%
15226   \unvbox
15227   \if@RTL@footnote
15228     \@mpfootinsv@r
15229   \else
15230     \@mpfootinsv@l
15231   \fi
15232   \let\bidir@RTL@everypar\@empty
15233   \def\baselinestretch{\m@m@footnote@spacing}%
15234   \reset@font\foottextfont
15235   \hsize\columnwidth \@parboxrestore
15236   \protected@edef\@currentlabel{%
15237     \csname p@mpfootnote\endcsname\@thefnmark}%
15238   \setbox0=\vbox{\hsize=\maxdimen
15239     \color@begingroup
15240     \noindent \@parafootfmt{#1}%
15241     \color@endgroup}%
15242   \m@mungebox}\m@mmf@prepare}
15243 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%

```



```

15244 \global\setbox\@mpfootinsv@l\vbox{%
15245 \unvbox\@mpfootinsv@l
15246 \let\@bidi@RTL@everypar\@empty
15247 \def\baselinestretch{\m@m@footnote@spacing}%
15248 \reset@font\LTRfoottextfont
15249 \hsize\columnwidth \@parboxrestore
15250 \protected@edef\@currentlabel{%
15251 \csname p@mpfootnote\endcsname\@thefnmark}%
15252 \setbox0=\vbox{\hsize=\maxdimen
15253 \color@begingroup
15254 \noindent \@paraLTRfootfmt{#1}%
15255 \color@endgroup}%
15256 \m@mungebox}\m@mmf@prepare}
15257 \newcommand{\@mpParaLTRfootnotetext}[1]{%
15258 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15259 \global\setbox\@mpfootinsv@l\vbox{%
15260 \unvbox\@mpfootinsv@l
15261 \let\@bidi@RTL@everypar\@empty
15262 \def\baselinestretch{\m@m@footnote@spacing}%
15263 \reset@font\LTRfoottextfont
15264 \hsize\columnwidth \@parboxrestore
15265 \protected@edef\@currentlabel{%
15266 \csname p@mpfootnote\endcsname\@thefnmark}%
15267 \setbox0=\vbox{\hsize=\maxdimen
15268 \color@begingroup
15269 \noindent \@paraLTRfootfmt{#1}%
15270 \color@endgroup}%
15271 \m@mungebox}\m@mmf@prepare}
15272 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
15273 \global\setbox\@mpfootinsv@r\vbox{%
15274 \unvbox\@mpfootinsv@r
15275 \let\@bidi@RTL@everypar\@empty
15276 \def\baselinestretch{\m@m@footnote@spacing}%
15277 \reset@font\RTLfoottextfont
15278 \hsize\columnwidth \@parboxrestore
15279 \protected@edef\@currentlabel{%
15280 \csname p@mpfootnote\endcsname\@thefnmark}%
15281 \setbox0=\vbox{\hsize=\maxdimen
15282 \color@begingroup
15283 \noindent \@paraRTLfootfmt{#1}%
15284 \color@endgroup}%
15285 \m@mungebox}\m@mmf@prepare}
15286 \newcommand{\@mpParaRTLfootnotetext}[1]{%
15287 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15288 \global\setbox\@mpfootinsv@r\vbox{%
15289 \unvbox\@mpfootinsv@r
15290 \let\@bidi@RTL@everypar\@empty
15291 \def\baselinestretch{\m@m@footnote@spacing}%
15292 \reset@font\RTLfoottextfont
15293 \hsize\columnwidth \@parboxrestore
15294 \protected@edef\@currentlabel{%
15295 \csname p@mpfootnote\endcsname\@thefnmark}%
15296 \setbox0=\vbox{\hsize=\maxdimen
15297 \color@begingroup

```



```

15298     \noindent \@paraRTLfootfmt{#1}%
15299     \color@endgroup}%
15300 \m@mungebox}\m@mmf@prepare}
15301 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
15302 \@namedef{@para@footgroup#1}{%
15303   \unvbox\@nameuse{footins#1}
15304   \@RTLtrue
15305   \m@mmakehboxofhboxes
15306   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15307   \hsize\bidi@columnwidth
15308   \@parboxrestore
15309   \def\baselinestretch{\m@m@footnote@spacing}%
15310   \@nameuse{foottextfont#1}%
15311   \noindent\unhbox0\par}}
15312 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
15313 \@namedef{@para@LTRfootgroup#1}{%
15314   \unvbox\@nameuse{footins#1}
15315   \@RTLfalse
15316   \m@mmakehboxofhboxes
15317   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15318   \hsize\bidi@columnwidth
15319   \@parboxrestore
15320   \def\baselinestretch{\m@m@footnote@spacing}%
15321   \@nameuse{foottextfont#1}%
15322   \noindent\unhbox0\par}}
15323 \newcommand{\bidi@removexparafootskip}{%
15324   \advance\@tempskipa -\bidi@paraskip
15325   \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
15326 }
15327 \let\bidi@removexfootskip\relax
15328 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
15329 \@namedef{@mppara@footgroup#1}{%
15330   \unvbox\@nameuse{mpfootins#1}
15331   \@RTLtrue
15332   \m@mmakehboxofhboxes
15333   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15334   \def\baselinestretch{\m@m@footnote@spacing}%
15335   \@nameuse{foottextfont#1}%
15336   \noindent\unhbox0\par}}
15337 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
15338 \@namedef{@mppara@LTRfootgroup#1}{%
15339   \unvbox\@nameuse{mpfootins#1}
15340   \@RTLfalse
15341   \m@mmakehboxofhboxes
15342   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15343   \def\baselinestretch{\m@m@footnote@spacing}%
15344   \@nameuse{foottextfont#1}%
15345   \noindent\unhbox0\par}}
15346 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
15347 \@namedef{@para@footstart#1}{%
15348   \leftskip=\z@
15349   \rightskip=\z@
15350   \parindent=\z@
15351   }%

```



```

15352 }
15353 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
15354   \xdef\@freelist{\@freelist\@midlist}%
15355   \global\let\@midlist\@empty
15356   \@combinefloats}
15357 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
15358   \ifvbox\@kludgeins
15359     \@makespecialcolbox
15360   \else
15361     \setbox\@outputbox \vbox to\@colht{%
15362       \@texttop
15363       \dimen@ \dp\@outputbox
15364       \unvbox \@outputbox
15365       \vskip -\dimen@
15366       \@textbottom}%
15367   \fi}
15368 \bidi@ensure@newcommand*{\m@m@makecolintro}{-}
15369 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
15370   \boxmaxdepth\@maxdepth
15371   \@tempdima\dp\@cclv
15372   \unvbox\@cclv
15373   \vskip-\@tempdima
15374   \bidi@mopfn@bottom
15375   \vskip \skip\footins
15376   \color@begingroup
15377     \normalcolor
15378     \footnoterule
15379     \unvbox \footins
15380   \color@endgroup
15381   }%
15382 }
15383 \newcommand*{\bidi@mopfootnotebf}{%
15384   \setbox\@outputbox \vbox{%
15385     \boxmaxdepth\@maxdepth
15386     \unvbox\@outputbox
15387     \bidi@mopfn@bottom
15388     \vskip\skip\footins
15389     \color@begingroup
15390       \normalcolor
15391       \footnoterule
15392       \unvbox \footins
15393     \color@endgroup
15394   }%
15395 }
15396 \gdef\mem@makecol{%
15397   \m@m@makecolintro
15398   \m@m@doextrafeet
15399   \ifvoid\footins
15400     \setbox\@outputbox \box\@cclv
15401   \else
15402     \m@mopfootnote
15403   \fi
15404   \m@m@makecolfloats
15405   \m@m@makecoltext

```



```

15406 \global \maxdepth \@maxdepth}
15407 \gdef\bidi@makecolbf{%
15408 \m@m@makecolintro
15409 \m@m@doextrafeet
15410 \setbox\@outputbox \box\@cclv
15411 \m@m@makecolfloats
15412 \ifvoid\footins
15413 \else
15414 \bidi@mopfootnotebf
15415 \fi
15416 \m@m@makecoltext
15417 \global \maxdepth \@maxdepth}
15418 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
15419 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
15420 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
15421 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
15422 \FeetAboveFloat
15423 \FeetBelowRagged
15424 \def\bidi@reinserts#1{\ifvoid#1\else
15425 \ifnum\count\@currbox>\z@
15426 \advance\@pageht \ht#1%
15427 \advance\@pageht \skip#1%
15428 \advance\@pageht \dp#1%
15429 \fi
15430 \insert#1{\unvbox#1}%
15431 \fi
15432 }
15433 \def\bidi@init@multi@footins#1{%
15434 \multiply\count#1\col@number
15435 \multiply\skip#1\col@number
15436 }
15437 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
15438 \insert#1{\fi}
15439 \AtBeginDocument{%
15440 \bidi@preto\@doclearpage\m@m@doextrafeet
15441 \g@addto@macro\@reinserts{%
15442 \bidi@reinserts\footinsv@r
15443 \bidi@reinserts\footinsv@l
15444 }
15445 \bidi@floathook
15446 \g@addto@macro\@floatplacement{%
15447 \bidi@ifmulticol}{\bidi@floathook}%
15448 }%
15449 \if@bidi@csundef{multi@column@out}{%
15450 \@onlypreamble\bidi@init@multi@footins
15451 \let\bidi@ifmulticol\@secondoftwo
15452 }{%
15453 \bidi@preto\multi@column@out\m@m@doextrafeet
15454 \g@addto@macro\init@mult@footins{%
15455 \bidi@init@multi@footins\footinsv@r
15456 \bidi@init@multi@footins\footinsv@l
15457 }%
15458 \g@addto@macro\reinsert@footnotes{%
15459 \bidi@reinsert@footnotes\footinsv@r

```




```

15460     \bidi@reinsert@footnotes\footinsv@l
15461     }%
15462 }%
15463 }

```

87 File extreport-xetex-bidi.def

```

15464 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
15465 \renewcommand*\l@part[2]{%
15466   \ifnum \c@tocdepth >-2\relax
15467     \addpenalty{-\@highpenalty}%
15468     \addvspace{2.25em \@plus\p@}%
15469     \begingroup
15470       \setlength\@tempdima{3em}%
15471       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15472       \parfillskip -\@pnumwidth
15473       {\leavevmode
15474         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15475         \nobreak
15476         \global\@nobreaktrue
15477         \everypar{\global\@nobreakfalse\everypar{}}%
15478       \endgroup
15479   \fi}
15480 \renewcommand*\l@chapter[2]{%
15481   \ifnum \c@tocdepth >\m@ne
15482     \addpenalty{-\@highpenalty}%
15483     \vskip 1.0em \@plus\p@
15484     \setlength\@tempdima{1.5em}%
15485     \begingroup
15486       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15487       \parfillskip -\@pnumwidth
15488       \leavevmode \bfseries
15489       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15490       \hskip -\if@RTL\rightskip\else\leftskip\fi
15491       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15492       \penalty\@highpenalty
15493     \endgroup
15494   \fi}
15495 \def\@makechapterhead#1{%
15496   \vspace*{50\p@}%
15497   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15498     \ifnum \c@secnumdepth >\m@ne
15499       \huge\bfseries \@chapapp\space \thechapter
15500       \par\nobreak
15501       \vskip 20\p@
15502     \fi
15503     \interlinepenalty\@M
15504     \Huge \bfseries #1\par\nobreak
15505     \vskip 40\p@
15506   }}
15507 \def\@makeschapterhead#1{%
15508   \vspace*{50\p@}%
15509   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15510     \normalfont

```



```

15511 \interlinepenalty\@M
15512 \Huge \bfseries #1\par\nobreak
15513 \vskip 40\p@
15514 }
15515 \renewcommand\left@footnoterule{%
15516 \kern-3\p@
15517 \hrule\@width.4\columnwidth
15518 \kern2.6\p@}
15519 \renewcommand\right@footnoterule{%
15520 \kern-3\p@
15521 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15522 \kern2.6\p@}
15523 \renewenvironment{thebibliography}[1]
15524 {\chapter*{\bibname
15525 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
15526 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
15527 \bidi@thebibliography@font@hook%
15528 \list{\@biblabel{\@arabic\c@enumiv}}%
15529 {\settowidth\labelwidth{\@biblabel{#1}}%
15530 \leftmargin\labelwidth
15531 \advance\leftmargin\labelsep
15532 \@openbib@code
15533 \usecounter{enumiv}}%
15534 \let\p@enumiv\@empty
15535 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15536 \sloppy\clubpenalty4000\widowpenalty4000%
15537 \sfcode\.\@m}
15538 {\def\@noitemerr
15539 {\@latex@warning{Empty `thebibliography' environment}}%
15540 \endlist}
15541 \if@titlepage
15542 \renewcommand\maketitle{\begin{titlepage}%
15543 \let\footnotesize\small
15544 \let\right@footnoterule\relax
15545 \let\left@footnoterule\relax
15546 \let\textwidth@footnoterule\relax
15547 \let\footnote\thanks
15548 \null\vfil
15549 \vskip 60\p@
15550 \begin{center}%
15551 {\LARGE \@title \par}%
15552 \vskip 3em%
15553 {\large
15554 \lineskip .75em%
15555 \begin{tabular}[t]{c}%
15556 \@author
15557 \end{tabular}\par}%
15558 \vskip 1.5em%
15559 {\large \@date \par}% % Set date in \large size.
15560 \end{center}\par
15561 \@thanks
15562 \vfil\null
15563 \end{titlepage}%
15564 \setcounter{footnote}{0}%

```



```

15565 \global\let\thanks\relax
15566 \global\let\maketitle\relax
15567 \global\let\@thanks\@empty
15568 \global\let\@author\@empty
15569 \global\let\@date\@empty
15570 \global\let\@title\@empty
15571 \global\let\title\relax
15572 \global\let\author\relax
15573 \global\let\date\relax
15574 \global\let\and\relax
15575 }
15576 \else
15577 \renewcommand\maketitle{\par
15578 \begingroup
15579 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15580 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15581 \long\def\@makefntext##1{\parindent 1em\noindent
15582 \hb@xt@1.8em{%
15583 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15584 \if@twocolumn
15585 \ifnum \col@number=\@ne
15586 \@maketitle
15587 \else
15588 \twocolumn[\@maketitle]%
15589 \fi
15590 \else
15591 \newpage
15592 \global\@topnum\z@ % Prevents figures from going at top of page.
15593 \@maketitle
15594 \fi
15595 \thispagestyle{plain}\@thanks
15596 \endgroup
15597 \setcounter{footnote}{0}%
15598 \global\let\thanks\relax
15599 \global\let\maketitle\relax
15600 \global\let\@maketitle\relax
15601 \global\let\@thanks\@empty
15602 \global\let\@author\@empty
15603 \global\let\@date\@empty
15604 \global\let\@title\@empty
15605 \global\let\title\relax
15606 \global\let\author\relax
15607 \global\let\date\relax
15608 \global\let\and\relax
15609 }
15610 \def\@maketitle{%
15611 \newpage
15612 \null
15613 \vskip 2em%
15614 \begin{center}%
15615 \let \footnote \thanks
15616 {\LARGE \@title \par}%
15617 \vskip 1.5em%
15618 {\large

```



```

15619     \lineskip .5em%
15620     \begin{tabular}[t]{c}%
15621         \@author
15622     \end{tabular}\par}%
15623     \vskip 1em%
15624     {\large \@date}%
15625 \end{center}%
15626 \par
15627 \vskip 1.5em}
15628 \fi
15629 \renewcommand\thesection      {\thechapter\@SepMark\@arabic\c@section}
15630 \renewcommand\thesubsection   {\thesection\@SepMark\@arabic\csubsection}
15631 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\csubsubsection}
15632 \renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\cparagraph}
15633 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\csubparagraph}
15634 \renewcommand\theequation{%
15635     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15636 \renewcommand\thefigure{%
15637     \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
15638 \renewcommand\thetable{%
15639     \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

88 File fancybox-xetex-bidi.def

```

15640 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
15641 \def\fancy@oval#1#2#3{%
15642     \boxmaxdepth \maxdimen
15643     \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
15644     \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
15645     \@ovxx#1\relax
15646     \advance\@ovxx-\@wholewidth
15647     \@ovyy#2\relax
15648     \advance\@ovyy-\@wholewidth
15649     \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
15650     \advance\@tempdimb-2\p@
15651     \ifdim\@tempdimb>\the@cornersize\relax
15652         \@tempdimb=\the@cornersize
15653     \fi
15654     \@getcirc\@tempdimb
15655     \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
15656     \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
15657     \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
15658     \@circlefont
15659     \setbox\@tempboxa\hbox{\beginL%
15660         \if@ovr \@ovvert32\kern -\@tempdima \fi
15661         \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
15662         \if@ovt \@ovhorz \kern -\@ovxx \fi
15663         \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
15664     \advance\@ovdx\@ovro
15665     \advance\@ovdy\@ovro
15666     \advance\@ovxx\@wholewidth
15667     \wd\@tempboxa=\@ovxx
15668     \dp\@tempboxa=\z@}

```



89 File fancyhdr-xetex-bidi.def

```
15669 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/01/07 v0.9 bidi adaptations for fancyhdr package]
15670
15671 \let\f@nch@everypar\everypar
15672
15673 \bidi@patchcmd\f@nch@hfbbox@center\raggedright\bidi@raggedright
15674 {}{\bidi@warningnoline{Oops! patching `string\f@nch@hfbbox@center' failed}}
15675 \bidi@patchcmd\f@nch@hfbbox@center\raggedleft\bidi@raggedleft
15676 {}{\bidi@warningnoline{Oops! patching `string\f@nch@hfbbox@center' failed}}
15677
15678 \bidi@patchcmd\f@nch@hfbbox@fit\raggedright\bidi@raggedright
15679 {}{\bidi@warningnoline{Oops! patching `string\f@nch@hfbbox@fit' failed}}
15680 \bidi@patchcmd\f@nch@hfbbox@fit\raggedleft\bidi@raggedleft
15681 {}{\bidi@warningnoline{Oops! patching `string\f@nch@hfbbox@fit' failed}}
15682
```

90 File fix2col-xetex-bidi.def

```
15683 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
15684 \def\RTL@outputdblcol{%
15685   \if@firstcolumn
15686     \global\@firstcolumnfalse
15687     \global\setbox\@leftcolumn\copy\@outputbox
15688     \splitmaxdepth\maxdimen
15689     \vbadness\maxdimen
15690     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15691     \toks@\expandafter{\topmark}%
15692     \xdef\@firstcoltopmark{\the\toks@}%
15693     \toks@\expandafter{\splitfirstmark}%
15694     \xdef\@firstcolfirstmark{\the\toks@}%
15695     \ifx\@firstcolfirstmark\@empty
15696       \global\let\@setmarks\relax
15697     \else
15698       \gdef\@setmarks{%
15699         \let\firstmark\@firstcolfirstmark
15700         \let\topmark\@firstcoltopmark}%
15701     \fi
15702 \else \global\@firstcolumntrue
15703 \setbox\@outputbox \vbox {\hbox to\textwidth {%
15704 \hskip \columnwidth
15705 \hfil \vrule width\columnseprule \hfil
15706 \hbox to\columnwidth {%
15707 \bidi@firstcolumn@status@write%
15708 \box\@leftcolumn \hss}%
15709 \hskip -\textwidth
15710 \hbox to\columnwidth{%
15711 \bidi@lastcolumn@status@write%
15712 \box\@outputbox \hss}%
15713 \hskip \columnsep
15714 \hskip \columnwidth }}%
15715 \@combinedblfloats \@setmarks \@outputpage
15716 \begingroup \@dblfloatplacement \@startdblcolumn
15717 \@whilesw\if@fcolmade \fi
```



```

15718 {\@outputpage \@startdblcolumn }\endgroup
15719 \fi}
15720 \def\LTR@outputdblcol{%
15721   \if@firstcolumn
15722     \global\@firstcolumnfalse
15723     \global\setbox\@leftcolumn\copy\@outputbox
15724     \splitmaxdepth\maxdimen
15725     \vbadness\maxdimen
15726     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15727     \toks@\expandafter{\topmark}%
15728     \xdef\@firstcoltopmark{\the\toks@}%
15729     \toks@\expandafter{\splitfirstmark}%
15730     \xdef\@firstcolfirstmark{\the\toks@}%
15731     \ifx\@firstcolfirstmark\@empty
15732       \global\let\@setmarks\relax
15733     \else
15734       \gdef\@setmarks{%
15735         \let\firstmark\@firstcolfirstmark
15736         \let\topmark\@firstcoltopmark}%
15737     \fi
15738   \else
15739     \global\@firstcolumntrue
15740     \setbox\@outputbox\vbox{%
15741       \hb@xt@\textwidth{%
15742         \hb@xt@\columnwidth{%
15743           \bidi@firstcolumn@status@write%
15744           \box\@leftcolumn \hss}%
15745         \hfil
15746         \vrule \@width\columnseprule
15747         \hfil
15748         \hb@xt@\columnwidth{%
15749           \bidi@lastcolumn@status@write%
15750           \box\@outputbox \hss}}}%
15751   \@combinedblfloats
15752   \@setmarks
15753   \@outputpage
15754   \begingroup
15755     \@dblfloatplacement
15756     \@startdblcolumn
15757     \@whilesw\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
15758   \endgroup
15759 \fi}

```

91 File fleqn-xetex-bidi.def

```

15760 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]
15761 \DeclareRobustCommand\[{ \relax
15762   \ifmode\@badmath
15763   \else
15764     \begin{trivlist}%
15765       \@beginparpenalty\predisplaypenalty
15766       \@endparpenalty\postdisplaypenalty
15767       \item[]\leavevmode
15768       \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$

```



```

15769             \hskip\mathindent\bgroup
15770             \fi}
15771 \DeclareRobustCommand\{\relax
15772             \ifmmode
15773             \egroup $\hfil% $
15774             \endL\egroup
15775             \end{trivlist}%
15776             \else \@badmath
15777             \fi}
15778 \renewenvironment{equation}%
15779     {\@beginparpenalty\predisplaypenalty
15780     \@endparpenalty\postdisplaypenalty
15781     \refstepcounter{equation}%
15782     \trivlist \item[]\leavevmode
15783     \hb@xt@\linewidth\bgroup\beginL $\m@th% $
15784     \displaystyle
15785     \hskip\mathindent}%
15786     {$\hfil % $
15787     \displaywidth\linewidth\hbox{\@eqnnum}%
15788     \endL\egroup
15789     \endtrivlist}

```

92 File float-xetex-bidi.def

```

15790 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for X
15791 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
15792 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
15793 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
15794 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]}%
15795 \expandafter\edef\csname the#1\endcsname{%
15796 \expandafter\noexpand\csname
15797 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
15798 {\PackageWarning{float}{Can't redefine counter variable for #1.}}

```

93 File floatrow-xetex-bidi.def

```

15799 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package
15800 \RequirePackage{color}
15801 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
15802 \expandafter\edef\csname the\FB@captype\endcsname{%
15803 \expandafter\noexpand\csname
15804 the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}}

```

94 File flowfram-xetex-bidi.def

```

15805 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package
15806 \def\@outputdblcol{%
15807 \@nxtcol=\c@thisframe
15808 \c@curpg=\c@page
15809 \@g@tnextcol{\@nxtcol}%
15810 \if@ff@nwp % next flow frame starts on new page
15811 \global\@firstcolumntrue
15812 \@setcolbox\c@thisframe
15813 \if@specialpage

```



```

15814 \global\@specialpagefalse
15815 \@nameuse{ps@\@specialstyle}\relax
15816 \fi
15817 \if@twoside
15818 \ifodd\count\z@
15819 \let\@thehead\@oddhead
15820 \let\@thefoot\@oddfoot
15821 \else
15822 \let\@thehead\@evenhead
15823 \let\@thefoot\@evenfoot
15824 \fi
15825 \else
15826 \let\@thehead\@oddhead
15827 \let\@thefoot\@oddfoot
15828 \fi
15829 \@beginndvi
15830 \@dodynamicthehead\@dodynamicthefoot
15831 \vbadness=\@M
15832 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15833 \@combinedblfloats
15834 \@outputpage
15835 \advance\c@curpg by -\c@page\relax
15836 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
15837 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15838 \@outputpage}
15839 \beginngroup
15840 \@dblfloatplacement
15841 \@startdblcolumn
15842 \@whilesw \if@fcolmade \fi
15843 {\@outputpage \@startdblcolumn }\endgroup
15844 \@resetst@tics
15845 \@resetdyn@mics
15846 \else % still on same page, save contents of box255
15847 \global\@firstcolumnfalse
15848 \@setcolbox\c@thisframe
15849 \fi
15850 \global\c@thisframe=\@nxtcol
15851 \@setcol{\c@thisframe}\relax
15852 \global\@colht\vsiz
15853 }
15854 \def\@outputpage{%
15855 \beginngroup
15856 \let\protect\noexpand
15857 \@resetactivechars
15858 \global\let\@if@newlist@if@newlist
15859 \global\@newlistfalse\@parboxrestore
15860 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
15861 \bidi@beforeoutputpageshipouthook
15862 \shipout\vbox{\set@typeset@protect
15863 \aftergroup
15864 \endgroup
15865 \aftergroup
15866 \set@typeset@protect
15867 \reset@font\normalsize

```




```

15868 \bidi@font@@outputpage
15869 \normalsfcodes
15870 \let\label\@gobble
15871 \let\index\@gobble
15872 \let\glossary\@gobble
15873 \baselineskip\z@skip
15874 \lineskip\z@skip
15875 \lineskiplimit\z@
15876 \vskip\topmargin\moveright\@themargin
15877 \vbox{%
15878 \global\let\bidi@BeforeHeader\@firstofone
15879 \bidi@beforeheaderhook
15880 \vskip\headheight
15881 \vskip\headsep
15882 \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
15883 \bidi@beforeoutputboxoutputpagehook
15884 \box\@outputbox
15885 \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
15886 \bidi@afteroutputboxoutputpagehook
15887 }%
15888 \global\let\bidi@AfterOutputPageShipOut\@firstofone
15889 \bidi@afteroutputpageshipouthook
15890 \global\let\if@newlist\@if@newlist
15891 \stepcounter{page}%
15892 \setcounter{displayedframe}{0}%
15893 \let\firstmark\botmark
15894 \global\let\bidi@AtEndOutputPage\@firstofone
15895 \bidi@atendoutputpagehook
15896 }
15897
15898
15899 \newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{}}{%
15900 \expandafter\bidicolor\ff@txtcol}}
15901
15902 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
15903 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}}
15904
15905
15906 \renewcommand*\@docolbox}[1]{%
15907 \edef\ff@frametype{%
15908 \csname @ff@frametype@\romannumeral#1\endcsname}%
15909 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
15910 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
15911 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
15912 \@ff@setoffset{#1}%
15913 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
15914 \ifthenelse{\boolean{columnframe\romannumeral#1}}{}}{%
15915 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
15916 {\csname colheight\romannumeral#1\endcsname}{%
15917 \expandafter\box\csname column\romannumeral#1\endcsname}{%
15918 \csname\ff@frametype\endcsname}%
15919 }{}%
15920 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
15921 {\csname colheight\romannumeral#1\endcsname}{%

```



```

15922 \expandafter\box\csgname column\romannumeral#1\endcsgname}%
15923 }}}}
15924 \IfClassLoadedT{book}{%
15925 \renewcommand\theequation
15926   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15927 \renewcommand \thefigure
15928   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15929 \renewcommand \thetable
15930   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15931 \renewcommand \thechapter {\@arabic\c@chapter}
15932 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15933 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15934 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15935 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15936 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15937 \IfClassLoadedT{report}{%
15938 \renewcommand\theequation
15939   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15940 \renewcommand \thefigure
15941   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15942 \renewcommand \thetable
15943   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15944 \renewcommand \thechapter {\@arabic\c@chapter}
15945 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15946 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15947 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15948 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15949 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15950 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
15951 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}}%
15952 \else
15953 #2\relax
15954 \fi}

```

95 File footnote-xetex-bidi.def

```

15955 \ProvidesFile{footnote-xetex-bidi.def}[2024/12/14 v1.3 bidi footnote macros for XeTeX engine]
15956 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
15957 \newif\ifbidi@autofooterule
15958 \def\bidi@mpfootnoterule{\footnoterule}
15959 \newcounter{footdir@label}
15960 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
15961 \newcommand*{\footdir@write}{%
15962   \stepcounter{footdir@label}%
15963   \zref@labelbyprops{\thefootdir@label}{abspage}%
15964 }
15965 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
15966 \newtoks\footdir@toks
15967 \newcommand*{\footdir@debug}[1]{%
15968   \iffootdir@debug
15969     \typeout{[footdir] #1}%
15970   \fi
15971 }
15972 %\@ifpackagelater{zref-abspage}{2012/10/27}{%

```



```

15973 % \newcommand*{\footdir@LeftRightElse}{%
15974 %   \ltx@ifundefined{footdir@the\value{zabspage}}{%
15975 %     \footdir@debug{abspage \the\value{zabspage}: else}%
15976 %     \ltx@thirdofthree
15977 %   }{%
15978 %     \if\csname footdir@the\value{zabspage}\endcsname L%
15979 %       \footdir@debug{abspage \the\value{zabspage}: left}%
15980 %       \expandafter\ltx@firstofthree
15981 %     \else
15982 %       \footdir@debug{abspage \the\value{zabspage}: right}%
15983 %       \expandafter\ltx@secondofthree
15984 %     \fi
15985 %   }%
15986 % }%
15987 %}{%
15988 \providecommand*{\c@zabspage}{\c@abspage}%
15989 \newcommand*{\footdir@LeftRightElse}{%
15990   \footdir@write
15991   \zifrefundefined{\thefootdir@label}{%
15992     \footdir@debug{abspage ??: else}%
15993     \ltx@thirdofthree
15994   }{%
15995     \edef\footdir@abspage{%
15996       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
15997     }%
15998     \ltx@ifundefined{footdir@\footdir@abspage}{%
15999       \footdir@debug{\footdir@abspage: else}%
16000       \ltx@thirdofthree
16001     }{%
16002       \if\csname footdir@\footdir@abspage\endcsname L%
16003         \footdir@debug{\footdir@abspage: left}%
16004         \expandafter\ltx@firstofthree
16005       \else
16006         \footdir@debug{\footdir@abspage: right}%
16007         \expandafter\ltx@secondofthree
16008       \fi
16009     }%
16010   }%
16011 }%
16012 %}
16013 \newcommand*{\footdir@fntext}[1]{%
16014   \zifrefundefined{\thefootdir@label}{%
16015   }{%
16016     \edef\footdir@name{%
16017       footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
16018     }%
16019     \@ifundefined{\footdir@name}{%
16020       \expandafter\gdef\csname\footdir@name\endcsname{#1}%
16021     }{}%
16022   }%
16023 }
16024
16025 \newcommand*{\footdir@temp}[3]{%
16026   \ifdefinable{#1}{%

```



```

16027 \let#1#2%
16028 \renewcommand{#2}[1]{%
16029 \footdir@write
16030 \footdir@fntext{#3}%
16031 \stepcounter{footdir@label}%
16032 \footdir@fntext{#3}%
16033 \footdir@toks{##1}%
16034 \footdir@toks\expandafter{%
16035 \the\expandafter\footdir@toks
16036 \expandafter
16037 \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
16038 }%
16039 \expandafter#1\expandafter{\the\footdir@toks}%
16040 }%
16041 }%
16042 }
16043
16044 \def\right@footnoterule{%
16045 \kern-3\p@
16046 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16047 \kern2.6\p@}
16048 \def\left@footnoterule{\kern-3\p@
16049 \hrule \@width .4\columnwidth \kern 2.6\p@}
16050 \def\textwidth@footnoterule{\kern-3\p@
16051 \hrule \@width \columnwidth \kern 2.6\p@}
16052 \def\leftfootnoterule{%
16053 \bidi@autofootnoterulefalse%
16054 \def\footnoterule{\left@footnoterule}}
16055 \let\LRfootnoterule=\leftfootnoterule
16056 \def\rightfootnoterule{%
16057 \bidi@autofootnoterulefalse%
16058 \def\footnoterule{\right@footnoterule}}
16059 \def\textwidthfootnoterule{%
16060 \bidi@autofootnoterulefalse%
16061 \def\footnoterule{\textwidth@footnoterule}}
16062
16063
16064
16065 \def\auto@footnoterule{%
16066 \footdir@LeftRightElse%
16067 \left@footnoterule%
16068 \right@footnoterule%
16069 \left@footnoterule%
16070 }
16071
16072
16073
16074 \def\autofootnoterule{%
16075 \bidi@autofootnoteruletrue%
16076 \def\footnoterule{\auto@footnoterule}%
16077 }
16078
16079 \newcommand*{\SplitFootnoteRule}{-%
16080 \gdef\split@prev{0}

```



```

16081 \let\pagefootnoterule\footnoterule
16082 \let\mpfootnoterule\footnoterule
16083 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
16084 \def\footnoterule{\relax
16085   \ifx \@listdepth\@mplistdepth
16086     \mpfootnoterule
16087   \else
16088     \ifnum\split@prev=\z@
16089       \pagefootnoterule
16090     \else
16091       \splitfootnoterule
16092     \fi
16093   \xdef\split@prev{\the\insertpenalties}%
16094 \fi
16095 }%
16096 }
16097
16098
16099
16100
16101 \def\RTLfootnote{\@ifnextchar [\@xRTLfootnote{\stepcounter\@mpfn
16102   \protected@xdef\@thefnmark{\thempfn}%
16103   \@footnotemark\@RTLfootnotetext}}
16104 \def\@xRTLfootnote[#1]{%
16105   \begingroup
16106     \csname c@\@mpfn\endcsname #1\relax
16107     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16108   \endgroup
16109   \@footnotemark\@RTLfootnotetext}
16110 \def\LTRfootnote{\@ifnextchar [\@xLTRfootnote{\stepcounter\@mpfn
16111   \protected@xdef\@thefnmark{\thempfn}%
16112   \@footnotemark\@LTRfootnotetext}}
16113 \def\@xLTRfootnote[#1]{%
16114   \begingroup
16115     \csname c@\@mpfn\endcsname #1\relax
16116     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16117   \endgroup
16118   \@footnotemark\@LTRfootnotetext}
16119
16120
16121 \def\setfootnoteRL{\@RTL@footnotetrue}
16122 \def\unsetfootnoteRL{\@RTL@footnotefalse}
16123 \def\setfootnoteLR{\unsetfootnoteRL}
16124
16125 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
16126 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
16127 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
16128
16129 \long\def\@footnotetext#1{\insert\footins{%
16130   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
16131   \reset@font%
16132   \bidi@footnotetext@font% \reset@font\footnotesize
16133   \interlinepenalty\interfootnotelinepenalty
16134   \splittopskip\footnotesep

```



```

16135 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16136 \hsize\columnwidth \@parboxrestore
16137 \protected@edef\@currentlabel{%
16138   \csname p@footnote\endcsname\@thefnmark
16139 }%
16140 \color@begingroup
16141   \@makefntext{%
16142     \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16143 \color@endgroup}}%
16144
16145
16146 \long\def\@RTLfootnotetext#1{\insert\footins{%
16147   \@RTLtrue%
16148   \reset@font%
16149   \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16150   \interlinepenalty\interfootnotelinepenalty
16151   \splittopskip\footnotesep
16152   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16153   \hsize\columnwidth \@parboxrestore
16154   \protected@edef\@currentlabel{%
16155     \csname p@footnote\endcsname\@thefnmark
16156   }%
16157   \color@begingroup
16158     \@makefntext{%
16159       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16160   \color@endgroup}}%
16161
16162 \long\def\@LTRfootnotetext#1{\insert\footins{%
16163   \@RTLfalse%
16164   \reset@font%
16165   \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16166   \interlinepenalty\interfootnotelinepenalty
16167   \splittopskip\footnotesep
16168   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16169   \hsize\columnwidth \@parboxrestore
16170   \protected@edef\@currentlabel{%
16171     \csname p@footnote\endcsname\@thefnmark
16172   }%
16173   \color@begingroup
16174     \@makefntext{%
16175       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16176   \color@endgroup}}%
16177
16178 \AtBeginDocument{%
16179 \if@RTL@footnote
16180   \newcommand*\@bidi@footdir@footnote}{R}
16181 \else
16182   \newcommand*\@bidi@footdir@footnote}{L}
16183 \fi%
16184 }
16185
16186 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\@bidi@footdir@footnote}%
16187 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
16188 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%

```



```

16189
16190 \long\def\@mpRTLfootnotetext#1{%
16191   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\@bidi@mpfootnoterule\right@foot
16192   \global\setbox\@mpfootins\vbox{%
16193     \unvbox\@mpfootins
16194     \@RTLtrue
16195     \reset@font%
16196     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16197     \hsize\columnwidth
16198     \@parboxrestore
16199     \protected@edef\@currentlabel
16200       {\csname p@mpfootnote\endcsname\@thefnmark}%
16201     \color@begingroup
16202     \@makefntext{%
16203       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16204     \color@endgroup}}
16205 \long\def\@mpLTRfootnotetext#1{%
16206   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\@bidi@mpfootnoterule\left@footnot
16207   \global\setbox\@mpfootins\vbox{%
16208     \unvbox\@mpfootins
16209     \@RTLfalse
16210     \reset@font%
16211     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
16212     \hsize\columnwidth
16213     \@parboxrestore
16214     \protected@edef\@currentlabel
16215       {\csname p@mpfootnote\endcsname\@thefnmark}%
16216     \color@begingroup
16217     \@makefntext{%
16218       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16219     \color@endgroup}}
16220 \long\def\@mpfootnotetext#1{%
16221   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\@bidi@mpfootnoterule\right@footnot
16222   \global\setbox\@mpfootins\vbox{%
16223     \unvbox\@mpfootins
16224     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
16225     \reset@font%
16226     \bidi@footnotetext@font% \reset@font\footnotesize
16227     \hsize\columnwidth
16228     \@parboxrestore
16229     \protected@edef\@currentlabel
16230       {\csname p@mpfootnote\endcsname\@thefnmark}%
16231     \color@begingroup
16232     \@makefntext{%
16233       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16234     \color@endgroup}}
16235 \def\@iiiminipage#1#2[#3]#4{%
16236   \leavevmode
16237   \@pboxswfalse
16238   \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
16239   \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
16240   \setlength\@tempdima{#4}%
16241   \def\@mpargs{{#1}{#2}{#3}{#4}}%
16242   \setbox\@tempboxa\vbox\bgroup

```



```

16243 \color@begingroup
16244 \hsize\@tempdima
16245 \textwidth\hsize \columnwidth\hsize
16246 \@parboxrestore
16247 \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
16248 \let\@footnotetext\@mpfootnotetext
16249 \let\@LTRfootnotetext\@mpLTRfootnotetext
16250 \let\@RTLfootnotetext\@mpRTLfootnotetext
16251 \let\@listdepth\@mplistdepth \@mplistdepth\z@
16252 \@minipagerestore
16253 \@setminipage}
16254 \def\endminipage{%
16255 \par
16256 \unskip
16257 \ifvoid\@mpfootins\else
16258 \vskip\skip\@mpfootins
16259 \normalcolor
16260 \bidi@mpfootnoterule
16261 \unvbox\@mpfootins
16262 \fi
16263 \@minipagefalse %% added 24 May 89
16264 \color@endgroup
16265 \egroup
16266 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
16267 \def\LTRthanks#1{\footnotemark
16268 \protected@xdef\@thanks{\@thanks
16269 \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
16270 }
16271 \def\LTRfootnotetext{%
16272 \@ifnextchar [\@xLTRfootnotenext
16273 {\protected@xdef\@thefnmark{\thempfn}%
16274 \@LTRfootnotetext}}
16275 \def\@xLTRfootnotenext[#1]{%
16276 \begingroup
16277 \csname c@\@mpfn\endcsname #1\relax
16278 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16279 \endgroup
16280 \@LTRfootnotetext}
16281 \def\RTLthanks#1{\footnotemark
16282 \protected@xdef\@thanks{\@thanks
16283 \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
16284 }
16285 \let\@thanks\@empty
16286 \def\RTLfootnotetext{%
16287 \@ifnextchar [\@xRTLfootnotenext
16288 {\protected@xdef\@thefnmark{\thempfn}%
16289 \@RTLfootnotetext}}
16290 \def\@xRTLfootnotenext[#1]{%
16291 \begingroup
16292 \csname c@\@mpfn\endcsname #1\relax
16293 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16294 \endgroup
16295 \@RTLfootnotetext}
16296 \leftfootnoterule

```



96 File footnotebackref-xetex-bidi.def

```
16297 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnoteb
16298 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
16299 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
16300
16301 \renewcommand*\LTRfootnote{%
16302   \refstepcounter{BackrefHyperFootnoteCounter}%
16303   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16304   \label{\BackrefFootnoteTag}%
16305   \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
16306
16307 \renewcommand*\RTLfootnote{%
16308   \refstepcounter{BackrefHyperFootnoteCounter}%
16309   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16310   \label{\BackrefFootnoteTag}%
16311   \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
16312 \newcommand\Backref@HyperLTRFootnote[1]{%
16313   \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
16314
16315 \newcommand\Backref@HyperRTLFootnote[1]{%
16316   \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
16317
16318 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
16319   \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
16320
16321 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
16322   \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
16323
16324 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
16325 \ifFootnoteBackref@numberlinked
16326 \renewcommand{\footfootmark}{%
16327   \ifdim\footmarkwidth < \z@
16328     \llap{\hb@xt@ -\footmarkwidth{%
16329       \hss\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16330       \hspace*{-\footmarkwidth}}%
16331   \else
16332     \ifdim\footmarkwidth = \z@
16333       {\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16334     \else
16335       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref [\BackrefFootnoteTag]{\@thef
16336     \fi
16337   \fi}
16338 \renewcommand{\LTRfootfootmark}{%
16339   \ifdim\footmarkwidth < \z@
16340     \llap{\hb@xt@ -\footmarkwidth{%
16341       \hss\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16342       \hspace*{-\footmarkwidth}}%
16343   \else
16344     \ifdim\footmarkwidth = \z@
16345       {\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16346     \else
16347       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref [\BackrefFootnoteTag]{\@th
16348   \fi
```



```

16349 \fi}
16350 \renewcommand{\RTLfootfootmark}{%
16351 \ifdim\footmarkwidth < \z@
16352 \llap{\hb@xt@ -\footmarkwidth{%
16353 \hss\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16354 \hspace*{-\footmarkwidth}}}%
16355 \else
16356 \ifdim\footmarkwidth = \z@
16357 {\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16358 \else
16359 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref [\BackrefFootnoteTag]{\@thefnmark}}}%
16360 \fi
16361 \fi}
16362 \fi
16363 }

```

97 File framed-xetex-bidi.def

```

16364 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
16365 \renewcommand\TitleBarFrame[3] []{\begingroup
16366 \ifx\delimiter#1\delimiter
16367 \let\TF@conlab\@empty
16368 \else
16369 \def\TF@conlab{% continuation label
16370 \nointerlineskip
16371 \smash{\rlap{\kern\wd\@tempboxa\kern\fboxrule\kern\fboxsep #1}}}%
16372 \fi
16373 %\let\TF@savecolor\current@color
16374 \textcolor{TFFrameColor}{%
16375 \CustomFBox
16376 {\TF@Title{#2}}{\TF@conlab}}%
16377 \fboxrule\fboxrule\fboxrule\fboxrule
16378 %{\let\current@color\TF@savecolor\set@color #3}%
16379 {\normalcolor #3}%
16380 }\endgroup
16381 }
16382 \renewenvironment{titled-frame}[1]{%
16383 \def\FrameCommand{\fboxsep8pt\fboxrule2pt
16384 \TitleBarFrame{\textbf{#1}}}%
16385 \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
16386 \TitleBarFrame[ $\if@RTL\blacktriangleleft$ \else $\blacktriangleright$ \fi$]{\textbf{#1}}}%
16387 \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
16388 \TitleBarFrame[ $\if@RTL\blacktriangleleft$ \else $\blacktriangleright$ \fi$]{\textbf{#1} (con
16389 \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
16390 \TitleBarFrame{\textbf{#1} (cont)}}}%
16391 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
16392 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
16393 % could interfere with the width measurement.
16394 {\endMakeFramed}
16395 \chardef\FrameRestore=\catcode`\| % for debug
16396 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
16397 \def\fb@put@frame#1#2{\relax
16398 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
16399 | \message{===== Entering putframe =====^^J

```



```

16400 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal. }%
16401 \ifinner
16402 \fb@putboxa#1%
16403 \fb@afterframe
16404 \else
16405 \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
16406 \ifdim\dimen@<2\baselineskip % Too little room on page
16407 | \message{Page has only \the\dimen@\space room left; eject. }%
16408 \eject \fb@adjheight \fb@put@frame#1#2%
16409 \else % there's appreciable room left on the page
16410 \fb@sizeofframe#1%
16411 | \message{\string\pagetotal=\the\pagetotal,
16412 \string\pagegoal=\the\pagegoal,
16413 \string\pagestretch=\the\pagestretch,
16414 \string\pageshrink=\the\pageshrink,
16415 | \string\fb@frh=\the\fb@frh. \space}
16416 | \message{~JBox of size \the\ht@\tempboxa\space}%
16417 \begingroup % temporarily set \dimen@ to be...
16418 \advance\dimen@.8\pageshrink % maximum space available on page
16419 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
16420 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
16421 \expandafter\endgroup
16422 % expand \ifdim, then restore \dimen@ to real room left on page
16423 \ifdim\dimen@>\ht@\tempboxa % whole box does fit
16424 | \message{fits in \the\dimen@. }%
16425 % ToDo: Change this to use vsplit anyway to capture the marks
16426 % MERGE THIS WITH THE else CLAUSE!!!
16427 \fb@putboxa#1%
16428 \fb@afterframe
16429 \else % box must be split
16430 | \message{must be split to fit in \the\dimen@. }%
16431 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
16432 \fb@sizeofframe#2%
16433 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
16434 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
16435 \kern137sp\kern-137sp\penalty-30
16436 \unvbox\@tempboxa}%
16437 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
16438 \splittopskip\the\splittopskip}%
16439 \boxmaxdepth\z@ \splittopskip\z@
16440 | \message{~JPadded box of size \the\ht@\tempboxa\space split to \the\dimen@}%
16441 % Split box here
16442 \setbox\tw@\vsplit\@tempboxa to\dimen@
16443 | \toks99\expandafter{\splitfirstmark}%
16444 | \toks98\expandafter{\splitbotmark}%
16445 | \message{Marks are: \the\toks99, \the\toks98. }%
16446 \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
16447 | \message{Natural height of split box is \the\ht\tw@, leaving
16448 | \the\ht@\tempboxa\space remainder. }%
16449 % If the split-to size > (\vsize-\topskip), then set box to full size.
16450 \begingroup
16451 \advance\dimen@\topskip
16452 \expandafter\endgroup
16453 \ifdim\dimen@>\pagegoal

```



```

16454 |         \message{Frame is big -- Use up the full column. }%
16455 |         \dimen@ii\pagegoal
16456 |         \advance\dimen@ii -\topskip
16457 |         \advance\dimen@ii \FrameHeightAdjust\relax
16458 |     \else % suspect this is implemented incorrectly:
16459 |         % If the split-to size > feasible room_on_page, rebox it smaller.
16460 |         \advance\dimen@.8\pageshrink
16461 |         \ifdim\ht\tw@>\dimen@
16462 |             \message{Box too tall; rebox it to \the\dimen@. }%
16463 |             \dimen@ii\dimen@
16464 |         \else % use natural size
16465 |             \dimen@ii\ht\tw@
16466 |         \fi
16467 |     \fi
16468 |     % Re-box contents to desired size \dimen@ii
16469 |     \advance\dimen@ii -\fb@frh
16470 |     \setbox\tw@\vbox to\dimen@ii \bgroup
16471 |     % remove simulated frame and page flexibility:
16472 |     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
16473 |     \unvbox\tw@ \unpenalty\unpenalty
16474 |     \ifdim\lastkern=-137sp % whole box went to next page
16475 |         \message{box split at beginning! }%
16476 |         % need work here???
16477 |         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
16478 |         \fb@adjheight
16479 |         \fb@put@frame#1#2% INSERTED ???
16480 |     \else % Got material split off at the head
16481 |         \egroup \fb@resto@set
16482 |         \ifvoid\@tempboxa % it all fit after all
16483 |             \message{box split at end! }%
16484 |             \setbox\@tempboxa\box\tw@
16485 |             \fb@putboxa#1%
16486 |             \fb@afterframe
16487 |         \else % it really did split
16488 |             \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
16489 |             \ifdim\wd\tw@>\z@
16490 |                 \wd\tw@\wd\@tempboxa
16491 |                 \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
16492 |             \else
16493 |                 \message{Zero width means likely blank. Don't frame it (guess)}%
16494 |                 \box\tw@
16495 |             \fi
16496 |             \hrule \@height\z@ \@width\hsize
16497 |             \eject
16498 |             \fb@adjheight
16499 |             \fb@put@frame\LastFrameCommand\MidFrameCommand
16500 |         \fi\fi\fi\fi\fi
16501 |     }
16502 | \def\fb@putboxa#1{%
16503 |     \ifvoid\@tempboxa
16504 |         \PackageWarning{framed}{Boxa is void -- discard it. }%
16505 |     \else
16506 |         \message{Frame and place boxa. }%
16507 |         %{\showoutput\showbox\@tempboxa}%

```



```

16508   \centerline{#1{\hboxL{\box\@tempboxa}}}%
16509   \fi
16510 }
16511 \catcode\|= \FrameRestore
16512 \def\FrameRestore{%
16513   \let\if@nobreak\iffalse
16514   \let\if@noskipsec\iffalse
16515   \let\-\@dischph
16516   \let'\@acci\let'\@accii\let\=\@acciii
16517   % \message{FrameRestore:
16518   %   \@totalleftmargin=\the \@totalleftmargin,
16519   %   \rightmargin=\the\rightmargin,
16520   %   \@listdepth=\the\@listdepth. }%
16521   % Test if we are in a list (or list-like paragraph)
16522   \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
16523     \ifdim\rightmargin>\z@ 1\fi
16524     \ifnum\@listdepth>\z@ 1\fi 0>\z@
16525     %   \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftmargin,
16526     %     \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hspace=\the\hspace,
16527     %     \labelwidth=\the\labelwidth. }%
16528     \@setminipage % snug fit around the item
16529     % Now try to propagate changes of width from \hspace to list parameters.
16530     % This is deficient, but a more advanced way to indicate modification to text
16531     % dimensions is not (yet) provided; in particular, no separate left/right
16532     % adjustment.
16533     \advance\linewidth-\columnwidth \advance\linewidth\hspace
16534     \parshape\@ne \@totalleftmargin \linewidth
16535   \else % Not in list
16536     \linewidth=\hspace
16537     %\message{No list, set \string\linewidth=\the\hspace. }%
16538   \fi
16539   \sloppy
16540 }

```

98 File `ftnright-xetex-bidi.def`

```

16541 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
16542
16543 \def\prepare@bidi@copyins{%
16544   \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
16545   \global\skip\@bidi@copyins@\z@
16546   \global\count\@bidi@copyins@\z@
16547   \global\dimen\@bidi@copyins@\texttheight}
16548
16549 \newskip\bidi@rcol@copyinsskip
16550
16551 \def\LTR@outputdblcol{%
16552   \if@firstcolumn
16553     \global\@firstcolumnfalse
16554     \global\setbox\@leftcolumn\copy\@outputbox
16555     \global\count\footins\@m
16556     \global\skip\footins\rcol@footinsskip
16557     \global\count\@bidi@copyins@\@m
16558     \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip

```



```

16559 \splitmaxdepth\maxdimen
16560 \vbadness\maxdimen
16561 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16562 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16563 \toks@\expandafter{\topmark}%
16564 \xdef\@firstcoltopmark{\the\toks@}%
16565 \toks@\expandafter{\splitfirstmark}%
16566 \xdef\@firstcolfirstmark{\the\toks@}%
16567 \ifx\@firstcolfirstmark\@empty
16568 \global\let\@setmarks\relax
16569 \else
16570 \gdef\@setmarks{%
16571 \let\firstmark\@firstcolfirstmark
16572 \let\topmark\@firstcoltopmark}%
16573 \fi
16574 \else
16575 \preparefootins
16576 \prepare@bidi@copyins
16577 \global\@firstcolumntrue
16578 \setbox\@outputbox\vbox{%
16579 \hb@xt@\textwidth{%
16580 \hb@xt@\columnwidth{%
16581 \bidi@firstcolumn@status@write%
16582 \box\@leftcolumn \hss}%
16583 \hfil
16584 {normalcolor\vrule \@width\columnseprule}%
16585 \hfil
16586 \hb@xt@\columnwidth{%
16587 \bidi@lastcolumn@status@write%
16588 \box\@outputbox \hss}}}%
16589 \@combinedblfloats
16590 \@setmarks
16591 \@outputpage
16592 \begingroup
16593 \@dblfloatplacement
16594 \@startdblcolumn
16595 \@whilesw@if@colmade \fi{\@outputpage
16596 \@startdblcolumn}%
16597 \endgroup
16598 \fi}%
16599
16600 \def\RTL@outputdblcol{%
16601 \if@firstcolumn
16602 \global\@firstcolumnfalse
16603 \global\setbox\@leftcolumn\copy\@outputbox
16604 \global\count\footins\@m
16605 \global\skip\footins\rcol@footinsskip
16606 \global\count\@bidi@copyins\@m
16607 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
16608 \splitmaxdepth\maxdimen
16609 \vbadness\maxdimen
16610 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16611 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16612 \toks@\expandafter{\topmark}%

```



```

16613 \xdef\@firstcoltopmark{\the\toks@}%
16614 \toks@\expandafter{\splitfirstmark}%
16615 \xdef\@firstcolfirstmark{\the\toks@}%
16616 \ifx\@firstcolfirstmark\@empty
16617 \global\let\@setmarks\relax
16618 \else
16619 \gdef\@setmarks{%
16620 \let\firstmark\@firstcolfirstmark
16621 \let\topmark\@firstcoltopmark}%
16622 \fi
16623 \else
16624 \preparefootins
16625 \prepare@bidi@copyins
16626 \global\@firstcolumntrue
16627 \setbox\@outputbox\vbox{%
16628 \hb@xt@\textwidth{%
16629 \hskip \columnwidth
16630 \hfil
16631 {\normalcolor\vrule \@width\columnseprule}%
16632 \hfil
16633 \hb@xt@\columnwidth{%
16634 \bidi@firstcolumn@status@write%
16635 \box\@leftcolumn \hss}%
16636 \hskip -\textwidth
16637 \hb@xt@\columnwidth{%
16638 \bidi@lastcolumn@status@write%
16639 \box\@outputbox \hss}%
16640 \hskip \columnsep
16641 \hskip \columnwidth }}%
16642 \@combinedblfloats
16643 \@setmarks
16644 \@outputpage
16645 \begingroup
16646 \@dblfloatplacement
16647 \@startdblcolumn
16648 \@whilesw\if@fcolmade \fi{\@outputpage
16649 \@startdblcolumn}%
16650 \endgroup
16651 \fi}%
16652
16653 \def\@startcolumn{%
16654 \ifx\@deferlist\@empty
16655 \global\@fcolmadefalse
16656 \global\@colroom\@colht
16657 \else
16658 \ifvoid\footins\else
16659 \ftn@amount\ht\footins
16660 \advance\ftn@amount\dp\footins
16661 \advance\ftn@amount\skip\footins
16662 \fi
16663 \ifvoid\@bidi@copyins\else
16664 \bidi@copyins@amount\ht\@bidi@copyins@
16665 \advance\bidi@copyins@amount\dp\@bidi@copyins@
16666 \advance\bidi@copyins@amount\skip\@bidi@copyins@

```



```

16667 \fi
16668 \global\advance\@colht-\ftn@amount
16669 \global\advance\@colht-\bidi@copyins@amount
16670 \global\@colroom\@colht
16671 \@xstartcol
16672 \global\advance\@colht\ftn@amount
16673 \global\advance\@colroom\ftn@amount
16674 \global\advance\@colht\bidi@copyins@amount
16675 \global\advance\@colroom\bidi@copyins@amount
16676 \fi
16677 \if@fcolmade
16678 \setbox\@cclv\box\@outputbox
16679 \@makecol
16680 \else
16681 \ifvoid\footins\else
16682 \insert\footins{\unvbox\footins}\fi
16683 \ifvoid\@bidi@copyins\else
16684 \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
16685 \fi}
16686
16687 \newdimen\bidi@copyins@amount
16688
16689 \def\@makecol{\if@firstcolumn
16690 \setbox\@outputbox\box\@cclv
16691 \if@twocolumn \else
16692 \ifvoid\footins \else
16693 \@latexerr{ftnright package
16694 used in one-column mode}%
16695 {The ftnright package was designed to
16696 work with LaTeX's standard^^Jtwocolumn
16697 option. It does *not* work with the
16698 multicol package.^^JSo please specify
16699 `twocolumn' in the
16700 \noexpand\documentclass command.}%
16701 \shipout\box\footins \fi
16702 \ifvoid\@bidi@copyins@ \else
16703 \@latexerr{ftnright package
16704 used in one-column mode}%
16705 {The ftnright package was designed to
16706 work with LaTeX's standard^^Jtwocolumn
16707 option. It does *not* work with the
16708 multicol package.^^JSo please specify
16709 `twocolumn' in the
16710 \noexpand\documentclass command.}%
16711 \shipout\box\@bidi@copyins@ \fi}\fi
16712 \ifnum\insertpenalties>\z@
16713 \@latexerr{ftnright package
16714 scrambled footnotes}%
16715 {There is too much footnote material in
16716 the first column and ftnright^^Jis
16717 unable to cope with this.^^JYou need
16718 to reduce the amount to get a properly
16719 formatted page.}%
16720 \fi

```




```

16721 \else
16722 \ifvoid\footins
16723   \ifvoid\@bidi@copyins@
16724     \setbox\@outputbox\box\@cclv
16725   \else
16726     \setbox\@outputbox\vbox
16727     {\ifvoid\@cclv \else
16728       \unvbox\@cclv
16729       \vskip \skip\@bidi@copyins@
16730     \fi
16731     \color@begingroup
16732     \normalcolor
16733     \unvbox \@bidi@copyins@
16734     \color@endgroup}%
16735   \fi
16736 \else
16737   \setbox\@outputbox\vbox
16738   {\ifvoid\@cclv \else
16739     \unvbox\@cclv
16740     \vskip\skip\footins\fi
16741     \color@begingroup
16742     \normalcolor
16743     \footnoterule\unvbox\footins
16744     \color@endgroup
16745     \ifvoid\@bidi@copyins@
16746     \else
16747       \vskip \skip\@bidi@copyins@
16748       \color@begingroup
16749       \normalcolor
16750       \unvbox \@bidi@copyins@
16751       \color@endgroup
16752     \fi
16753   }%
16754 \fi
16755 \fi
16756 \xdef\@freelist{\@freelist\@midlist}%
16757 \global \let \@midlist \@empty
16758 \@combinefloats
16759 \ifvbox\@kludgeins
16760   \@makespecialcolbox
16761 \else
16762   \setbox\@outputbox\vbox to\@colht
16763   {\boxmaxdepth\maxdepth
16764     \@texttop
16765     \@tempdima\dp\@outputbox
16766     \unvbox\@outputbox
16767     \vskip-\@tempdima
16768     \@textbottom}%
16769 \fi
16770 \global\maxdepth\@maxdepth}
16771
16772 \let\leftfootnoterule\@empty
16773 \let\rightfootnoterule\@empty
16774 \let\textwidthfootnoterule\@empty

```



```

16775 \let\autofooterule\@empty
16776 \let\footnoterule\@empty
16777 \long\def\@makefntext#1{\parindent 1em
16778   \noindent\hbox to 2em{}}%
16779   \llap{\@thefnmark\hbox{.}\,\,}#1}
16780
16781 \setlength{\skip\@bidi@copyins@}
16782   {10pt plus 5pt minus 3pt}
16783 \AtBeginDocument{\prepare@bidi@copyins}

```

99 File graphicx-xetex-bidi.def

```

16784 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
16785 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
16786   \Grot@setangle{#1}%
16787   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL
16788   \Grot@x\z@
16789   \Grot@y\z@
16790   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
16791 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16792   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16793   \Grot@x\width \divide\Grot@x\tw@
16794   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
16795   \setkeys{Grot}{#1}%
16796   \setbox\z@\box\@tempboxa
16797   \Grot@setangle{#2}%
16798   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
16799   \@end@tempboxa}
16800 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16801   \leavevmode
16802   \def\Gscale@x{#1}\def\Gscale@y{#2}%
16803   \setbox\z@\hbox{#3}%
16804   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16805   \ifdim#2\p@<\z@
16806     \ht\tw@-#2\dp\z@
16807     \dp\tw@-#2\ht\z@
16808   \else
16809     \ht\tw@#2\ht\z@
16810     \dp\tw@#2\dp\z@
16811   \fi
16812   \ifdim#1\p@<\z@
16813     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16814   \else
16815     \wd\tw@#1\wd\z@
16816     \box\tw@
16817   \fi\ifmmode\else\if@RTL\endL\fi\fi}
16818 \def\Gin@iii[#1,#2][#3,#4]#5{%
16819   \begingroup
16820   \ifmmode\else\if@RTL\beginL\fi\fi
16821   \Gin@bboxtrue
16822   \Gin@defaultbp\Gin@llx{#1}%
16823   \Gin@defaultbp\Gin@lly{#2}%
16824   \Gin@defaultbp\Gin@urx{#3}%
16825   \Gin@defaultbp\Gin@ury{#4}%

```



```

16826 \Ginclud@graphics{#5}%
16827 \ifmmode\else\if@RTL\endL\fi\fi
16828 \endgroup}
16829 \def\Gin@ii[#1]#2{%
16830   \def\@tempa{[]}\def\@tempb{#2}%
16831   \ifx\@tempa\@tempb
16832     \def\@tempa{\Gin@iii[#1] []}%
16833     \expandafter\@tempa
16834   \else
16835     \begingroup
16836       \ifmmode\else\if@RTL\beginL\fi\fi
16837       \@tempswafalse
16838       \toks@{\Ginclud@graphics{#2}}%
16839       \setkeys{Gin}{#1}%
16840       \Gin@esetsize
16841       \the\toks@
16842       \ifmmode\else\if@RTL\endL\fi\fi
16843     \endgroup
16844   \fi}
16845 \def\reflectbox{\bidiGscale@box-1[1]}
16846 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16847   \leavevmode
16848   \def\Gscale@x{#1}\def\Gscale@y{#2}%
16849   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16850   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16851   \ifdim#2\p@<\z@
16852     \ht\tw@-#2\dp\z@
16853     \dp\tw@-#2\ht\z@
16854   \else
16855     \ht\tw@#2\ht\z@
16856     \dp\tw@#2\dp\z@
16857   \fi
16858   \ifdim#1\p@<\z@
16859     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16860   \else
16861     \wd\tw@#1\wd\z@
16862     \box\tw@
16863   \fi\ifmmode\else\if@RTL\endL\fi\fi}
16864 \def\scalebox#1{%
16865   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}]
16866 \def\resizebox{%
16867   \leavevmode
16868   \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
16869 \def\bidiGscale@@box#1#2#3{%
16870   \let\@tempa\Gin@exclamation
16871   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
16872   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
16873   \ifx\@tempb\@tempa
16874     \ifx\@tempc\@tempa
16875       \toks@{\mbox}%
16876     \else
16877       \toks@{\bidiGscale@@box@dd{#3}#1}%
16878     \fi
16879   \else

```



```

16880 \ifx\@tempc\@tempa
16881 \toks@\{\bidiGscale@box@dd#2}\width}%
16882 \else
16883 \toks@\{\bidiGscale@box@ddd#2}\width{#3}#1}%
16884 \fi
16885 \fi
16886 \the\toks@}
16887 \long\def\bidiGscale@box@dd#1#2#3{%
16888 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
16889 \setlength\@tempdima{#1}%
16890 \setlength\@tempdimb{#2}%
16891 \Gscale@div\@tempa\@tempdima\@tempdimb
16892 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
16893 \@end@tempboxa}
16894 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
16895 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
16896 \setlength\@tempdima{#1}%
16897 \setlength\@tempdimb{#2}%
16898 \Gscale@div\@tempa\@tempdima\@tempdimb
16899 \setlength\@tempdima{#3}%
16900 \setlength\@tempdimb{#4}%
16901 \Gscale@div\@tempb\@tempdima\@tempdimb
16902 \ifGin@iso
16903 \ifdim\@tempa\p@>\@tempb\p@
16904 \let\@tempa\@tempb
16905 \else
16906 \let\@tempb\@tempa
16907 \fi
16908 \fi
16909 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
16910 \@end@tempboxa}

```

100 File geometry-xetex-bidi.def

```

16911 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
16912 \renewcommand*\Gm@vrules@mpi}{%
16913 \if@RTLmain%
16914 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16915 \llap{\Gm@vrule}\ignorespaces
16916 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16917 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
16918 \else%
16919 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16920 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16921 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
16922 \renewcommand*\Gm@vrules@mpii}{%
16923 \if@RTLmain%
16924 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16925 \hskip \textwidth\Gm@vrule\hskip \marginparsep
16926 \llap{\Gm@vrule}\hfil\Gm@vrule}%
16927 \else%
16928 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16929 \llap{\Gm@vrule}\ignorespaces
16930 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep

```



```

16931 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
16932 \bidi@patchcmd{\Gm@pageframes}{%
16933     \ifodd\count\z@
16934         \let\@themargin\oddsidemargin
16935     \else
16936         \let\@themargin\evensidemargin
16937     \fi
16938 }{%
16939     \ifodd\count\z@
16940         \if@RTLmain
16941             \let\@themargin\evensidemargin
16942         \else
16943             \let\@themargin\oddsidemargin
16944         \fi
16945     \else
16946         \if@RTLmain
16947             \let\@themargin\oddsidemargin
16948         \else
16949             \let\@themargin\evensidemargin
16950         \fi
16951     \fi
16952 }{}{}

```

101 File hvfloat-xetex-bidi.def

```

16953 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
16954 \def\do@hvFloat[#1]#2#3{%
16955     \def\hv@shortCap{#1}
16956     \def\hv@longCap{#2}
16957     \def\hv@label{#3}
16958     %\newcommand*{\hvFloat}[5] []{%
16959     % [#1]: keyvalues
16960     % #2: type figure | table | ...
16961     % #3: float contents
16962     % [#4]: short caption
16963     % #5: caption
16964     % #6: label
16965     % \setDefault%
16966     % \def@tempa{#1}%
16967     % \ifx@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
16968     \def@tempa{90}%
16969     \ifx\hvSet@rotAngle@tempa \setlength{\hvMaxCapWidth}{\textheight}
16970     \else \setlength{\hvMaxCapWidth}{\linewidth}
16971     \fi
16972     %
16973     % First we save the object in \hvObjectBox
16974     %
16975     \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
16976         \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
16977     \else
16978         \savebox{\hvObjectBox}{%
16979             \rotatebox{\hvSet@objectAngle}{%
16980                 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
16981     \fi

```



```

16982 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
16983 %
16984 % Now we save the caption with its defined \hvCapWidth
16985 %
16986 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
16987 \else
16988   \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
16989   \else
16990     \setlength{\hvCapWidth}{\hvObjectWidth}
16991     \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
16992     \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
16993     \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
16994 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
16995     \else
16996 \setlength{\hvCapWidth}{\hvMaxCapWidth}
16997     \fi
16998   \fi
16999 \fi
17000 %
17001 % now we have the object and the caption with the right
17002 % rotated angles saved in boxes
17003 %
17004 \def\fps@figure{\hvSet@floatPos}
17005 \ifhv@nonFloat\begin{group}% Start the nonfloat part
17006 \else \begin{\hv@floatType}% Start the floating environment
17007 \fi%
17008 \saveCaptionSkip% we put this space ourselves
17009 \ifx\hvSet@capAngle\hv@Width % need rotation?
17010   \sbox{\hvCaptionBox}{%
17011     \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17012       \ifhv@nonFloat%
17013         \ifhv@onlyText#2%
17014         \else%
17015         \ifx\hv@floatType\hv@figure
17016           \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17017         \else
17018           \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17019         \fi
17020       \fi
17021 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17022 \fi%
17023 \label{#3}%
17024   \end{minipage}%
17025   }%
17026 \else%
17027   \sbox{\hvCaptionBox}{%
17028     \rotatebox{\hvSet@capAngle}{%
17029       \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17030 \ifhv@nonFloat%
17031       \ifhv@onlyText#2%
17032       \else%
17033       \ifx\hv@floatType\hv@figure
17034         \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
17035       \else

```



```

17036     \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
17037     \fi
17038     \fi
17039 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
17040     \fi%
17041     \label{#3}%
17042     \end{minipage}%
17043     }%
17044     }%
17045     \fi%
17046 %%
17047 \restoreCaptionSkip% save old values
17048 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
17049 \else%
17050     \ifx\hvSet@objectPos\hv@Center
17051     \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
17052     \fi%
17053     \fi%
17054 %
17055 % to rotate object and caption together, we save all in another box
17056 % the caption comes first, if its on the left or the top
17057 %
17058 \savebox{\@tempboxa}{%
17059 \ifx\hvSet@capPos\hv@Left % caption on left side
17060 \if@RTL%
17061 \ifx\hvSet@capVPos\hv@Center%
17062     \ifhv@fbox
17063     \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17064     \else
17065     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
17066     \fi%
17067     \hspace{\hvSet@floatCapSep pt}%
17068     \ifhv@fbox
17069     \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17070     \else
17071     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17072     \fi%
17073     \else%
17074     \ifx\hvSet@capVPos\hv@Top
17075     \ifhv@fbox
17076     \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17077     \else
17078     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17079     \fi%
17080     \hspace{\hvSet@floatCapSep pt}%
17081     \ifhv@fbox
17082     \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17083     \else
17084     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17085     \fi
17086     \else
17087     \ifhv@fbox
17088     \fbox{\usebox{\hvObjectBox}}%
17089     \else

```



```

17090         \usebox{\hvObjectBox}%
17091     \fi
17092     \hspace{\hvSet@floatCapSep pt}%
17093     \ifhv@fbox
17094         \fbox{\usebox{\hvCaptionBox}}%
17095     \else
17096         \usebox{\hvCaptionBox}%
17097     \fi%
17098 \fi%
17099 \fi%
17100 \else% not RTL
17101     \ifx\hvSet@capVPos\hv@Center%
17102         \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17103     \else         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17104     \fi%
17105     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17106     \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17107 \else         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17108 \fi%
17109 \else%
17110     \ifx\hvSet@capVPos\hv@Top % caption at top
17111         \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17112     \else         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17113     \fi
17114     \hspace{\hvSet@floatCapSep pt}% capfloatsep
17115     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17116 \else         \raisebox{-\height}{\usebox{\hvObjectBox}}%
17117 \fi%
17118 \else% caption on bottom
17119     \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17120 \else\usebox{\hvCaptionBox}
17121 \fi%
17122     \hspace{\hvSet@floatCapSep pt}%
17123     \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
17124 \else         \usebox{\hvObjectBox}
17125 \fi%
17126 \fi%
17127 \fi% end of RTL
17128 \fi%
17129 \else
17130     \ifx\hvSet@capPos\hv@Top
17131         \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17132             \begin{minipage}{\wd\hvCaptionBox}
17133         \else
17134             \begin{minipage}{\wd\hvObjectBox}
17135         \fi
17136         \centering
17137         \ifhv@fbox
17138             \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
17139             \fbox{\usebox{\hvObjectBox}}
17140         \else
17141             \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
17142             \usebox{\hvObjectBox}
17143         \fi%

```




```

17144 \end{minipage}
17145 \else
17146 \ifx\hvSet@capPos\hv@Bottom
17147 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17148 \begin{minipage}{\wd\hvCaptionBox}
17149 \else
17150 \begin{minipage}{\wd\hvObjectBox}
17151 \fi
17152 \centering
17153 \ifhv@fbox
17154 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
17155 \fbox{\usebox{\hvCaptionBox}}
17156 \else
17157 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
17158 \usebox{\hvCaptionBox}
17159 \fi%
17160 \end{minipage}
17161 \else% the last option: put the caption on the right
17162 \if@RTL%
17163 \ifx\hvSet@capVPos\hv@Center%
17164 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17165 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17166 \fi%
17167 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17168 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17169 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
17170 \fi%
17171 \else%
17172 \ifx\hvSet@capVPos\hv@Top % caption at top
17173 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17174 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17175 \fi
17176 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17177 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17178 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
17179 \fi%
17180 \else% caption on bottom
17181 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
17182 \else\usebox{\hvCaptionBox}
17183 \fi%
17184 \hspace{\hvSet@floatCapSep pt}%
17185 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
17186 \else \usebox{\hvObjectBox}
17187 \fi%
17188 \fi%
17189 \fi%
17190 \else% not RTL
17191 \ifx\hvSet@capVPos\hv@Center%
17192 \ifhv@fbox
17193 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17194 \else
17195 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17196 \fi%
17197 \hspace{\hvSet@floatCapSep pt}%

```



```

17198     \ifhv@fbox
17199     \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17200     \else
17201     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17202     \fi%
17203 \else%
17204 \ifx\hvSet@capVPos\hv@Top
17205     \ifhv@fbox
17206     \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17207     \else
17208     \raisebox{-\height}{\usebox{\hvObjectBox}}%
17209     \fi%
17210     \hspace{\hvSet@floatCapSep pt}%
17211     \ifhv@fbox
17212     \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17213     \else
17214     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17215     \fi
17216     \else
17217     \ifhv@fbox
17218     \fbox{\usebox{\hvObjectBox}}%
17219     \else
17220     \usebox{\hvObjectBox}%
17221     \fi
17222     \hspace{\hvSet@floatCapSep pt}%
17223     \ifhv@fbox
17224     \fbox{\usebox{\hvCaptionBox}}%
17225     \else
17226     \usebox{\hvCaptionBox}%
17227     \fi%
17228     \fi%
17229     \fi
17230 \fi% end of RTL
17231     \fi
17232     \fi
17233     \fi
17234 }% End savebox Object and caption
17235 %
17236 % now we rotate the object and caption, if needed
17237 %
17238 \ifx\hvSet@rotAngle\hv@Zero
17239     \usebox{\@tempboxa}
17240 \else
17241     \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
17242 \fi
17243 \ifhv@nonFloat
17244 \ifx\hvSet@objectPos\hv@Center
17245     \ifhv@nonFloat
17246     \hspace{\fill}
17247     \fi
17248 \fi
17249 \endgroup% End the nonfloat part
17250 \else
17251 \end{\hv@floatType}% End the floating environment

```



```

17252 \fi
17253 }

```

102 File hyperref-xetex-bidi.def

```

17254 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
17255 \AtBeginDocument{%
17256 \def\contentsline#1#2#3#4{%
17257 \ifx\#4\%
17258 \csname l@#1\endcsname{#2}{#3}%
17259 \else
17260 \ifcase\Hy@linktoc % none
17261 \csname l@#1\endcsname{#2}{#3}%
17262 \or % section
17263 \csname l@#1\endcsname{%
17264 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17265 }{#3}%
17266 \or % page
17267 \csname l@#1\endcsname{{#2}}{%
17268 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17269 }%
17270 \else % all
17271 \csname l@#1\endcsname{%
17272 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17273 }{%
17274 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17275 }%
17276 \fi
17277 \fi
17278 }
17279 \ifHy@hyperfootnotes
17280 \let\H@footnotetext\@footnotetext
17281 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
17282 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
17283 \def\xfootnotenext[#1]{%
17284 \begingroup
17285 \csname c@mpfn\endcsname #1\relax
17286 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17287 \endgroup
17288 \ifx\@footnotetext\@mpfootnotetext
17289 \expandafter\H@mpfootnotetext
17290 \else
17291 \expandafter\H@footnotetext
17292 \fi
17293 }%
17294 \def\xRTLfootnotenext[#1]{%
17295 \begingroup
17296 \csname c@mpfn\endcsname #1\relax
17297 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17298 \endgroup
17299 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
17300 \expandafter\HRTL@mpRTLfootnotetext
17301 \else
17302 \expandafter\HRTL@RTLfootnotetext

```



```

17303   \fi
17304 }%
17305 \def\xLTRfootnotenext[#1]{%
17306   \begingroup
17307     \csname c@\mpfn\endcsname #1\relax
17308     \unrestored@protected@xdef\thefnmark{\thempfn}%
17309   \endgroup
17310   \ifx\@LTRfootnotetext\@mpLTRfootnotetext
17311     \expandafter\HLTR@mpLTRfootnotetext
17312   \else
17313     \expandafter\HLTR@LTRfootnotetext
17314   \fi
17315 }%
17316 \def\xfootnotemark[#1]{%
17317   \begingroup
17318     \c@footnote #1\relax
17319     \unrestored@protected@xdef\thefnmark{\thefootnote}%
17320   \endgroup
17321   \H@@footnotemark
17322 }%
17323 \let\H@mpfootnotetext\@mpfootnotetext
17324 \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
17325 \let\HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
17326 \long\def\@mpfootnotetext#1{%
17327   \H@mpfootnotetext{%
17328     \ifHy@nesting
17329       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17330     \else
17331       \Hy@raisedlink{%
17332         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17333       }#1%
17334   \fi
17335 }%
17336 }%
17337 \long\def\@mpRTLfootnotetext#1{%
17338   \HRTL@mpRTLfootnotetext{%
17339     \ifHy@nesting
17340       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17341     \else
17342       \Hy@raisedlink{%
17343         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17344       }#1%
17345   \fi
17346 }%
17347 }%
17348 \long\def\@mpLTRfootnotetext#1{%
17349   \HLTR@mpLTRfootnotetext{%
17350     \ifHy@nesting
17351       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17352     \else
17353       \Hy@raisedlink{%
17354         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17355       }#1%
17356   \fi

```



```

17357 }%
17358 }%
17359 \long\def\@footnotetext#1{%
17360 \H@@footnotetext{%
17361 \ifHy@nesting
17362 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17363 \else
17364 \Hy@raisedlink{%
17365 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17366 }%
17367 \let\@currentHlabel\Hy@footnote@currentHlabel
17368 \let\@currentHref\Hy@footnote@currentHref
17369 \let\@currentlabelname\@empty
17370 #1%
17371 \fi
17372 }%
17373 }%
17374 \long\def\@RTLfootnotetext#1{%
17375 \HRTL@RTLfootnotetext{%
17376 \ifHy@nesting
17377 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17378 \else
17379 \Hy@raisedlink{%
17380 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17381 }%
17382 \let\@currentHlabel\Hy@footnote@currentHlabel
17383 \let\@currentHref\Hy@footnote@currentHref
17384 \let\@currentlabelname\@empty
17385 #1%
17386 \fi
17387 }%
17388 }%
17389 \long\def\@LTRfootnotetext#1{%
17390 \HLTR@LTRfootnotetext{%
17391 \ifHy@nesting
17392 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17393 \else
17394 \Hy@raisedlink{%
17395 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17396 }%
17397 \let\@currentHlabel\Hy@footnote@currentHlabel
17398 \let\@currentHref\Hy@footnote@currentHref
17399 \let\@currentlabelname\@empty
17400 #1%
17401 \fi
17402 }%
17403 }%
17404 \ApplyPatchCodeToPackage{tabularx}{%
17405 \let\HyOrg@TX@endtabularx\TX@endtabularx
17406 \def\Hy@tabularx@hook{%
17407 \let\@footnotetext\H@@footnotetext
17408 \let\@LTRfootnotetext\HLTR@LTRfootnotetext
17409 \let\@RTLfootnotetext\HRTL@RTLfootnotetext
17410 \let\@footnotemark\H@@footnotemark

```



```

17411     \let\@mpfootnotetext\H@mpfootnotetext
17412     \let\@mpLTRfootnotetext\HLTR@mpLTRfootnotetext
17413     \let\@mpRTLfootnotetext\HRTL@mpRTLfootnotetext
17414 }%
17415 \begingroup
17416   \toks@\expandafter{\TX@endtabularx}%
17417   \xdef\Hy@gtemp{%
17418     \noexpand\Hy@tabularx@hook
17419     \the\toks@
17420   }%
17421 \endgroup
17422 \let\TX@endtabularx\Hy@gtemp
17423 }%
17424 \ApplyPatchCodeToPackage{longtable}{%
17425 \CheckCommand{\LT@p@LTRftntext}[1]{%
17426   \edef\@tempa{%
17427     \the\LT@p@ftn
17428     \noexpand\LTRfootnotetext[\the\c@footnote]}%
17429   }%
17430   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17431 }%
17432 \long\def\LT@p@LTRftntext#1{%
17433   \edef\@tempa{%
17434     \the\LT@p@ftn
17435     \begingroup
17436       \noexpand\c@footnote=\the\c@footnote\relax
17437       \noexpand\protected@xdef\noexpand\@thefnmark{%
17438         \noexpand\thempfn
17439       }%
17440       \noexpand\Hy@LT@LTRfootnotetext{%
17441         \Hy@footnote@currentHref
17442       }%
17443     }%
17444     \global\LT@p@ftn\expandafter{%
17445       \@tempa{#1}%
17446     }%
17447   }%
17448 }%
17449 \long\def\Hy@LT@LTRfootnotetext#1#2{%
17450 \HLTR@LTRfootnotetext{%
17451   \ifHy@nesting
17452     \hyper@@anchor{#1}{#2}%
17453   \else
17454     \Hy@raisedlink{%
17455       \hyper@@anchor{#1}{\relax}%
17456     }%
17457     \def\@currentHref{#1}%
17458     \let\@currentlabelname\@empty
17459     #2%
17460   \fi
17461 }%
17462 }%
17463 \CheckCommand{\LT@p@RTLftntext}[1]{%
17464   \edef\@tempa{%

```



```

17465     \the\LT@p@ftn
17466     \noexpand\RTLfootnotetext[\the\c@footnote]%
17467   }%
17468   \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17469 }%
17470 \long\def\LT@p@RTLftntext#1{%
17471   \edef\@tempa{%
17472     \the\LT@p@ftn
17473     \begingroup
17474     \noexpand\c@footnote=\the\c@footnote\relax
17475     \noexpand\protected@xdef\noexpand\@thefnmark{%
17476       \noexpand\thempfn
17477     }%
17478     \noexpand\Hy@LT@RTLfootnotetext{%
17479       \Hy@footnote@currentHref
17480     }%
17481   }%
17482   \global\LT@p@ftn\expandafter{%
17483     \@tempa{#1}%
17484   \endgroup
17485 }%
17486 }%
17487 \long\def\Hy@LT@RTLfootnotetext#1#2{%
17488   \HRTL@RTLfootnotetext{%
17489     \ifHy@nesting
17490       \hyper@@anchor{#1}{#2}%
17491     \else
17492       \Hy@raisedlink{%
17493         \hyper@@anchor{#1}{\relax}%
17494       }%
17495       \def\@currentHref{#1}%
17496       \let\@currentlabelname\@empty
17497       #2%
17498     \fi
17499   }%
17500 }%
17501 }%
17502 \ApplyPatchCodeToPackage{bidipoem}{%
17503 \long\def\bidipoem@p@ftntext#1{%
17504   \edef\@tempx{%
17505     \the\bidipoem@p@ftn
17506     \begingroup
17507     \noexpand\c@footnote=\the\c@footnote\relax
17508     \noexpand\protected@xdef\noexpand\@thefnmark{%
17509       \noexpand\thempfn
17510     }%
17511     \noexpand\Hy@bidipoem@footnotetext{%
17512       \Hy@footnote@currentHref
17513     }%
17514   }%
17515   \global\bidipoem@p@ftn\expandafter{%
17516     \@tempx{#1}%
17517   \endgroup
17518 }%

```



```

17519 }%
17520 \long\def\Hy@bidipoem@footnotetext#1#2{%
17521   \H@footnotetext{%
17522     \ifHy@nesting
17523       \hyper@@anchor{#1}{#2}%
17524     \else
17525       \Hy@raisedlink{%
17526         \hyper@@anchor{#1}{\relax}%
17527       }%
17528     \def\@currentHref{#1}%
17529     \let\@currentlabelname\@empty
17530     #2%
17531   \fi
17532 }%
17533 }%
17534 \long\def\bidipoem@p@LTRftntext#1{%
17535 \edef\@tempxi{%
17536   \the\bidipoem@p@ftn
17537   \begingroup
17538     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17539     \noexpand\protected@xdef\noexpand\@thefnmark{%
17540       \noexpand\thempfn
17541     }%
17542     \noexpand\Hy@bidipoem@LTRfootnotetext{%
17543       \Hy@footnote@currentHref
17544     }%
17545   }%
17546   \global\bidipoem@p@ftn\expandafter{%
17547     \@tempxi{#1}%
17548   \endgroup
17549 }%
17550 }%
17551 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
17552   \HLTR@LTRfootnotetext{%
17553     \ifHy@nesting
17554       \hyper@@anchor{#1}{#2}%
17555     \else
17556       \Hy@raisedlink{%
17557         \hyper@@anchor{#1}{\relax}%
17558       }%
17559     \def\@currentHref{#1}%
17560     \let\@currentlabelname\@empty
17561     #2%
17562   \fi
17563 }%
17564 }%
17565 \long\def\bidipoem@p@RTLftntext#1{%
17566 \edef\@tempxii{%
17567   \the\bidipoem@p@ftn
17568   \begingroup
17569     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17570     \noexpand\protected@xdef\noexpand\@thefnmark{%
17571       \noexpand\thempfn
17572     }%

```




```

17573         \noexpand\Hy@bidipoem@RTLfootnotetext{%
17574             \Hy@footnote@currentHref
17575         }%
17576     }%
17577     \global\bidipoem@p@ftn\expandafter{%
17578         \@tempxi{#1}%
17579     \endgroup
17580     }%
17581 }%
17582 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
17583     \HRTL@RTLfootnotetext{%
17584         \ifHy@nesting
17585             \hyper@@anchor{#1}{#2}%
17586         \else
17587             \Hy@raisedlink{%
17588                 \hyper@@anchor{#1}{\relax}%
17589             }%
17590             \def\@currentHref{#1}%
17591             \let\@currentlabelname\@empty
17592             #2%
17593         \fi
17594     }%
17595 }%
17596 }%
17597 \let\HyOrg@maketitle\maketitle
17598 \def\maketitle{%
17599     \let\Hy@saved@footnotemark\@footnotemark
17600     \let\Hy@saved@footnotetext\@footnotetext
17601     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
17602     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
17603     \let\@footnotemark\H@@footnotemark
17604     \let\@footnotetext\H@@footnotetext
17605     \let\@RTLfootnotetext\HRTL@RTLfootnotetext
17606     \let\@LTRfootnotetext\HLTR@LTRfootnotetext
17607     \@ifnextchar [\Hy@maketitle@optarg{ % ]
17608         \HyOrg@maketitle
17609         \Hy@maketitle@end
17610     }%
17611 }%
17612 \def\Hy@maketitle@optarg[#1]{%
17613     \HyOrg@maketitle[#{#1}]%
17614     \Hy@maketitle@end
17615 }%
17616 \def\Hy@maketitle@end{%
17617     \ifx\@footnotemark\H@@footnotemark
17618         \let\@footnotemark\Hy@saved@footnotemark
17619     \fi
17620     \ifx\@footnotetext\H@@footnotetext
17621         \let\@footnotetext\Hy@saved@footnotetext
17622     \fi
17623     \ifx\@RTLfootnotetext\HRTL@RTLfootnotetext
17624         \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
17625     \fi
17626     \ifx\@LTRfootnotetext\HLTR@LTRfootnotetext

```



```

17627     \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
17628     \fi
17629   }%
17630 \def\realfootnote{%
17631   \@ifnextchar[\@xfootnote{%
17632     \stepcounter{\@mpfn}%
17633     \protected@xdef\@thefnmark{\thempfn}%
17634     \H@@footnotemark\H@@footnotetext
17635   }%
17636 }%
17637 \fi
17638 \def\Hy@BeginAnnot#1{%
17639   \ifmode\else\beginL\fi%
17640   \global\advance\c@Hy@AnnotLevel\@ne
17641   \ifnum\c@Hy@AnnotLevel=\@ne
17642     #1%
17643   \fi
17644 }
17645 \def\Hy@endAnnot{%
17646   \ifnum\c@Hy@AnnotLevel=\@ne
17647     \Hy@endcolorlink
17648     \@pdfm@mark{eann}%
17649   \fi
17650   \global\advance\c@Hy@AnnotLevel\m@ne
17651   \ifmode\else\endL\fi%
17652 }
17653 \def\hyper@link#1#2#3{%
17654   \hyper@linkstart{#1}{#2}\ifmode\else\if@RTL\beginR\fi\fi#3\ifmode\else\if@RTL\endR\fi\fi%
17655 }
17656 \def\hyper@linkfile#1#2#3{%
17657   \leavevmode
17658   \Hy@BeginAnnot{%
17659     \def\Hy@pstringF{#2}%
17660     \Hy@CleanupFile\Hy@pstringF
17661     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
17662     \Hy@pstringdef\Hy@pstringD{#3}%
17663     \Hy@MakeRemoteAction
17664     \@pdfm@mark{%
17665       bann<<%
17666         /Type/Annot%
17667         /Subtype/Link%
17668         \ifHy@pdfa /F 4\fi
17669         \Hy@setpdfborder
17670         \ifx\@filebordercolor\relax
17671         \else
17672           /C[\@filebordercolor]%
17673         \fi
17674         /A<<%
17675         /S/GoToR%
17676         /F(\Hy@pstringF)%
17677         /D%
17678         \ifx\#3\%
17679           [\Hy@href@page\@pdfremotestartview]%
17680         \else

```



```

17681         (\Hy@pstringD)%
17682         \fi
17683         \Hy@SetNewWindow
17684         \Hy@href@nextactionraw
17685         >>%
17686     >>%
17687 }%
17688 \Hy@colorlink\@filecolor
17689 }%
17690 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17691 \Hy@EndAnnot
17692 }
17693 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
17694 \leavevmode
17695 \Hy@BeginAnnot{%
17696 \Hy@pstringdef\Hy@pstringF{#1}%
17697 \Hy@pstringdef\Hy@pstringP{#3}%
17698 \@pdfm@mark{%
17699     bann<<%
17700         /Type/Annot%
17701         /Subtype/Link%
17702         \ifHy@pdfa /F 4\fi
17703         \Hy@setpdfborder
17704         \ifx\@runbordercolor\relax
17705         \else
17706             /C[\@runbordercolor]%
17707         \fi
17708         /A<<%
17709         /F(\Hy@pstringF)%
17710         /S/Launch%
17711         \Hy@SetNewWindow
17712         \ifx\#3\%
17713         \else
17714             /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
17715         \fi
17716         \Hy@href@nextactionraw
17717         >>%
17718     >>%
17719 }%
17720 \Hy@colorlink\@runcolor
17721 }%
17722 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17723 \Hy@EndAnnot
17724 }
17725 \def\hyper@linkurl#1#2{%
17726 \leavevmode
17727 \Hy@BeginAnnot{%
17728 \Hy@pstringdef\Hy@pstringURI{#2}%
17729 \@pdfm@mark{%
17730     bann<<%
17731         /Type/Annot%
17732         /Subtype/Link%
17733         \ifHy@pdfa /F 4\fi
17734         \Hy@setpdfborder

```



```

17735     \ifx\@urlbordercolor\relax
17736     \else
17737         /C[\@urlbordercolor]%
17738     \fi
17739     /A<<%
17740     /S/URI%
17741     /URI(\Hy@pstringURI)%
17742     \ifHy@href@ismap
17743         /IsMap true%
17744     \fi
17745     \Hy@href@nextactionraw
17746     >>%
17747     >>%
17748     }%
17749     \Hy@colorlink\@urlcolor
17750 }%
17751 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17752 \Hy@EndAnnot
17753 }
17754 \def\Acrobatmenu#1#2{%
17755     \Hy@Acrobatmenu{#1}{#2}{%
17756         \Hy@BeginAnnot{%
17757             \EdefEscapeName\Hy@temp@menu{#1}%
17758             \@pdfm@mark{%
17759                 bann<<%
17760                 /Type/Annot%
17761                 /Subtype/Link%
17762                 \ifHy@pdfa /F 4\fi
17763                 \Hy@setpdfborder
17764                 \ifx\@menubordercolor\relax
17765                 \else
17766                     /C[\@menubordercolor]%
17767                 \fi
17768                 /A<<%
17769                 /S/Named%
17770                 /N/\Hy@temp@menu
17771                 \Hy@href@nextactionraw
17772                 >>%
17773                 >>%
17774             }%
17775             \Hy@colorlink\@menucolor
17776         }%
17777         \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17778     \Hy@EndAnnot
17779 }%
17780 }
17781 \def\hyper@natlinkstart#1{%
17782     \Hy@backout{#1}%
17783     \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
17784     \def\hyper@nat@current{#1}%
17785 }
17786 \def\hyper@natlinkend{%
17787     \if@RTL\endR\fi\hyper@linkend
17788 }

```



```

17789 \def\hyper@natlinkbreak#1#2{%
17790   \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
17791 }%
17792 }
17793 \pdfstringdefDisableCommands{%
17794 \let\LRE\@firstofone
17795 \let\LR\@firstofone
17796 \let\RLE\@firstofone
17797 \let\RL\@firstofone
17798 \def\XeTeX{Xe\TeX}%
17799 \def\XeLaTeX{Xe\LaTeX}%
17800 }
17801 \bidi@patchcmd\@TextField{%
17802   \@pdfm@mark
17803 }{%
17804   \if@RTL
17805     \hskip\Fld@width
17806   \fi
17807   \@pdfm@mark
17808 }{}{}
17809 \bidi@patchcmd\@TextField{%
17810   \unhbox
17811 }{%
17812   \if@RTL
17813     \hskip-\Fld@width
17814   \fi
17815   \unhbox
17816 }{}{}
17817 \bidi@patchcmd\@@Radio{%
17818   \@pdfm@mark
17819 }{%
17820   \if@RTL
17821     \hskip\Fld@width
17822   \fi
17823   \@pdfm@mark
17824 }{}{}
17825 \bidi@patchcmd\@@Radio{%
17826   \unhcopy
17827 }{%
17828   \if@RTL
17829     \hskip-\Fld@width
17830   \fi
17831   \unhcopy
17832 }{}{}
17833 \bidi@patchcmd\@Submit{%
17834   \@pdfm@mark
17835 }{%
17836   \if@RTL
17837     \null
17838     \hskip\wd\pdfm@box
17839   \fi
17840   \@pdfm@mark
17841 }{}{}
17842 \bidi@patchcmd\@Submit{%

```



```

17843 \unhbox
17844 }{%
17845 \if@RTL
17846 \hskip-\wd\pdfm@box
17847 \fi
17848 \unhbox
17849 }{}{}
17850 \bidi@patchcmd\@Reset{%
17851 \@pdfm@mark
17852 }{%
17853 \if@RTL
17854 \null
17855 \hskip\wd\pdfm@box
17856 \fi
17857 \@pdfm@mark
17858 }{}{}
17859 \bidi@patchcmd\@Reset{%
17860 \unhbox
17861 }{%
17862 \if@RTL
17863 \hskip-\wd\pdfm@box
17864 \fi
17865 \unhbox
17866 }{}{}

```

103 File `imsproc-xetex-bidi.def`

```

17867 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imsproc class for
17868 \newenvironment{thebibliography}[1]{%
17869 \@bibtitlestyle
17870 \normalfont\bibliofont\labelsep .5em\relax
17871 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
17872 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17873 \bidi@thebibliography@font@hook
17874 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
17875 \leftmargin\labelwidth \advance\leftmargin\labelsep
17876 \usecounter{enumiv}}%
17877 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
17878 \sfcode`\.=\@m
17879 }{%
17880 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
17881 \endlist
17882 }
17883
17884 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
17885 \columnseprule\z@ \columnsep 35\p@
17886 \@indextitlestyle
17887 \thispagestyle{plain}%
17888 \let\item\@idxitem
17889 \parindent\z@ \parskip\z@\@plus.3\p@\relax
17890 \if@RTL\raggedleft\else\raggedright\fi
17891 \hyphenpenalty\@M
17892 \footnotesize}
17893 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}

```



```

17894 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
17895 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
17896
17897 \def\right@footnoterule{%
17898   \kern-.4\p@
17899   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
17900   \kern11\p@\kern-\footnotesep}
17901 \def\left@footnoterule{\kern-.4\p@
17902   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
17903 \def\@makefnmark{%
17904   \leavevmode
17905   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
17906 }
17907
17908 \def\part{\@startsection{part}{0}%
17909   \z@\linespacing\@plus\linespacing}{.5\linespacing}%
17910   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
17911 \def\@tocline#1#2#3#4#5#6#7{\relax
17912   \ifnum #1>\c@tocdepth % then omit
17913   \else
17914     \par \addpenalty\@secpenalty\advvspace{#2}%
17915     \begingroup \hyphenpenalty\@M
17916     \ifempty{#4}{%
17917       \@tempdima\csname r@tocindent\number#1\endcsname\relax
17918     }{%
17919       \@tempdima#4\relax
17920     }%
17921     \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi#4\relax
17922     \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
17923     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
17924     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
17925     \nobreak
17926     \endgroup
17927   \fi}
17928 \renewcommand\thesubsection   {\thesection\@SepMark\arabic{subsection}}
17929 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
17930 \renewcommand\theparagraph   {\thesubsubsection\@SepMark\arabic{paragraph}}
17931 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
17932 \def\maketitle{\par
17933   \@topnum\z@ % this prevents figures from falling at the top of page 1
17934   \@setcopyright
17935   \thispagestyle{firstpage}% this sets first page specifications
17936   \uppercasenonmath\shorttitle
17937   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
17938   \else \andify\shortauthors
17939   \fi
17940   \@maketitle@hook
17941   \begingroup
17942   \@maketitle
17943   \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
17944   \toks4{\def\\{\ignorespaces}}% defend against questionable usage
17945   \edef\@tempa{%
17946     \@nx\markboth{\the\toks4
17947       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%

```



```

17948 \@tempa
17949 \endgroup
17950 \c@footnote\z@
17951 \@cleartopmattertags
17952 }

```

104 File leqno-xetex-bidi.def

```

17953 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
17954 \renewcommand\@eqnnum{\hb@xt@.01\p@{}}%
17955 \rlap{\hskip -\displaywidth
17956 \{\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\}}

```

105 File letter-xetex-bidi.def

```

17957 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
17958 \renewcommand*\opening}[1]{\ifx\@empty\fromaddress
17959 \thispagestyle{firstpage}%
17960 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
17961 \else % home address
17962 \thispagestyle{empty}%
17963 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
17964 \fromaddress \*[2\parskip]%
17965 \@date \end{tabular}\par}%
17966 \fi
17967 \vspace{2\parskip}%
17968 {\if@RTL\raggedleft\else\raggedright\fi \toname \\\ toaddress \par}%
17969 \vspace{2\parskip}%
17970 #1\par\nobreak}
17971 \renewcommand\left@footnoterule{%
17972 \kern-\p@
17973 \hrule \@width .4\columnwidth
17974 \kern .6\p@}
17975 \renewcommand\right@footnoterule{%
17976 \kern-\p@
17977 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
17978 \kern .6\p@}

```

106 File lettrine-xetex-bidi.def

```

17979 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]
17980 \RemoveFromHook{begindocument}[lettrine]
17981 \AtBeginDocument[lettrine]{%
17982 \if\DefaultOptionsFile\relax
17983 \else
17984 \InputIfFileExists{\DefaultOptionsFile}%
17985 {}%
17986 {\PackageWarning{lettrine.sty}%
17987 {File \DefaultOptionsFile\space not found}%
17988 }%
17989 \fi
17990 \let\ifL@RTL\if@RTL
17991 }

```



107 File lineno-xetex-bidi.def

```
17992 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for
17993 \bidi@patchcmd{\MakeLineNo}{%
17994   \hb@xt@\z@\makeLineNumber}%
17995 }{%
17996   \hboxL to \z@\makeLineNumber}%
17997 }{}{}
17998
17999 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
18000   \ifRTL
18001     \hb@xt@\linenumberwidth{\LineNumber\hss}%
18002   \else
18003     \LineNumber
18004   \fi
18005 }{}{}
18006
18007 \bidi@patchcmd{\makeLineNumberRight}{%
18008   \hb@xt@\linenumberwidth{\hss\LineNumber}%
18009 }{%
18010   \ifRTL
18011     \LineNumber
18012   \else
18013     \hb@xt@\linenumberwidth{\hss\LineNumber}%
18014   \fi
18015 }{}{}
18016
18017 \bidi@AfterPreamble{%
18018   \ifRTLmain
18019     \rightlinenumbers*
18020   \else
18021     \leftlinenumbers*
18022   \fi
18023   \@ifpackagewith{lineno}{left}{%
18024     \leftlinenumbers*
18025   }{}
18026   \@ifpackagewith{lineno}{right}{%
18027     \rightlinenumbers*
18028   }{}
18029   \@ifpackagewith{lineno}{switch}{%
18030     \ifRTLmain
18031       \switchlinenumbers*%
18032     \else
18033       \switchlinenumbers
18034     \fi
18035   }{}
18036   \@ifpackagewith{lineno}{switch*}{%
18037     \ifRTLmain
18038       \switchlinenumbers
18039     \else
18040       \switchlinenumbers*%
18041     \fi
18042   }{}
18043 }
```



18044

108 File listings-xetex-bidi.def

```
18045 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
18046 \lst@Key{captiondirection}{textdirection}{%
18047   \lstKV@SwitchCases{#1}%
18048   {textdirection:\\%
18049     RTL:\chardef\bidi@lst@caption@direction@one\\%
18050     LTR:\chardef\bidi@lst@caption@direction@z@%
18051   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18052
18053 \lst@Key{captionscript}{textscript}{%
18054   \lstKV@SwitchCases{#1}%
18055   {textscript:\\%
18056     latin:\chardef\bidi@lst@caption@script@one\\%
18057     nonlatin:\chardef\bidi@lst@caption@script@z@%
18058   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18059
18060 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
18061   \@ifundefined{bidi@lst@caption@direction}{-}{%
18062     \ifnum\bidi@lst@caption@direction=\z@%
18063       #1%
18064     \else%
18065       \ifnum\bidi@lst@caption@direction=\@ne%
18066         #2%
18067       \fi%
18068     \fi%
18069   }}
18070
18071 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
18072   \@ifundefined{bidi@lst@caption@script}{-}{%
18073     \ifnum\bidi@lst@caption@script=\z@%
18074       #1%
18075     \else%
18076       \ifnum\bidi@lst@caption@script=\@ne%
18077         #2%
18078       \fi%
18079     \fi%
18080   }}
18081
18082 \long\def\@bidi@lst@makecaption#1#2{%
18083   \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18084   \vskip\abovcaptionskip
18085   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18086   \sbox\@tempboxa{%
18087     \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
18088     #1: #2%
18089     \bidi@lst@ensure@caption@direction{\endL}{\endR}%
18090   }%
18091   \ifdim \wd\@tempboxa >\hspace
18092     #1: #2\par
18093   \else
18094     \global \@minipagefalse
```



```

18095     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
18096     \fi
18097     \vskip\belowcaptionskip}%
18098 \def\lst@makecaption{\@bidi@lst@makecaption}
18099 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
18100 \bidi@AtEndPreamble{%
18101 \bidi@patchcmd{\lst@MakeCaption}{%
18102     \ifx #1t%
18103         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18104             \expandafter\refstepcounter
18105         \fi {lstlisting}%
18106 }{%
18107     \ifx #1t%
18108         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18109         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18110             \expandafter\refstepcounter
18111         \fi {lstlisting}%
18112         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
18113 }-{}-%
18114 \bidi@patchcmd{\lst@MakeCaption}{%
18115     \addcontentsline{lol}{lstlisting}%
18116     {\protect\numberline{\thelstlisting}\lst@@caption}%
18117 }{%
18118 \begingroup%
18119     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18120     \addcontentsline{lol}{lstlisting}%
18121     {\protect\numberline{\thelstlisting}\lst@@caption}%
18122 \endgroup%
18123 }-{}-%
18124 }
18125 \ApplyPatchIfPackageLoaded{caption}{%
18126 \AtBeginCaption{%
18127 \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18128 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18129 }
18130 \let\@bidi@lst@makecaption\caption@makecaption%
18131 \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
18132 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
18133 }-%
18134 \AtBeginDocument{%
18135 \@ifundefined{captionlabelfalse}{-{}-%
18136 \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
18137 \@ifundefined{caption@startrue}{-{}-%
18138 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
18139 }%
18140 }
18141 \AtBeginDocument{
18142 \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{-{}
18143 \lst@ifnumberbychapter
18144     \gdef\thelstlisting%
18145     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
18146 \else
18147     \gdef\thelstlisting{\@arabic\c@lstlisting}
18148 \fi}

```



109 File longtable-xetex-bidi.def

```
18149 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
18150 \ExplSyntaxOn
18151 \def\LT@array[#1]#2{%
18152   \UseTaggingSocket{tbl/init}
18153   \tl_if_empty:eTF { \LTcapytype }
18154   {
18155     \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
18156   }
18157   {
18158     \@kernel@refstepcounter{\LTcapytype}\stepcounter{LT@tables}
18159     \tl_gset:Ne \@currentHref {LTcapytype.\cs_if_exist_use:c {theH\LTcapytype}}
18160   }
18161   \tbl_gzero_row_count:
18162   \UseTaggingSocket{tbl/longtable/init}
18163   \if l#1%
18164     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
18165   \else\if r#1%
18166     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
18167   \else\if c#1%
18168     \LTleft\fill \LTright\fill
18169   \fi\fi\fi
18170   \let\LT@mcoll\multicolumn
18171   \let\LT@@tabarray\@tabarray
18172   \let\LT@@hl\hline
18173   \def\@tabarray{%
18174     \let\hline\LT@@hl
18175     \LT@@tabarray}%
18176   \let\@LT@tabularcr
18177   \let\@tabularnewline\@
18178   \def\newpage{\noalign{\break}}%
18179   \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
18180   \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
18181   \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
18182   \@tempdima\ht\strutbox
18183   \let\@endpbox\LT@endpbox
18184   \ifx\extrarowheight\@undefined
18185     \let\@acol\@tabacol
18186     \let\@classz\@tabclassz \let\@classiv\@tabclassiv
18187     \def\@startpbox{\vtop\LT@startpbox}%
18188     \let\@@startpbox\@startpbox
18189     \let\@@endpbox\@endpbox
18190     \let\LT@LL@FM@cr\@tabularcr
18191   \else
18192     \advance\@tempdima\extrarowheight
18193     \col@sep\@tabcolsep
18194     \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
18195   \fi
18196   \setbox\@arstrutbox\hbox{\vrule
18197     \@height \arraystretch \@tempdima
18198     \@depth \arraystretch \dp \strutbox
18199     \@width \z@}%
18200   \let\@sharp##\let\protect\relax
```



```

18201 \begingroup
18202 \mkpream{#2}%
18203 \tbl_count_table_cols:
18204 \xdef\LT@bchunk{%
18205 \tbl_inbetween_rows:
18206 \global\advance\c@LT@chunks\@ne
18207 \global\LT@rows\z@\setbox\z@\vbox\bgroup
18208 \LT@setprevdepth
18209 \tabskip\LTleft \noexpand\halign to\hsize\bgroup
18210 \tabskip\z@ \@arstrut
18211 \UseTaggingSocket{tbl/row/begin}%
18212 \tbl_init_cell_data_for_row:
18213 \@preamble \tabskip\LTright \cr}%
18214 \endgroup
18215 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
18216 \LT@make@row
18217 \m@th\let\par\@empty
18218 \everycr{%
18219 \noalign{%
18220 \tbl_trace:n {--longtable-->~chunk-row:~ \the\LT@rows \space
18221 row:~ \the\g__tbl_row_int \space
18222 column:~ \the\g__tbl_col_int
18223 }
18224 \tbl_if_row_was_started:T
18225 {
18226 \UseTaggingSocket{tbl/row/end}
18227 \tbl_inbetween_rows:
18228 }
18229 \int_compare:nNnT \LT@rows < \LTchunksize
18230 { \tbl_gincr_row_count: } % next is row about to start
18231 }%
18232 }%
18233 \lineskip\z@\baselineskip\z@
18234 \LT@bchunk}
18235 \ExplSyntaxOff
18236 \def\LT@makecaption#1#2#3{%
18237 \LT@mc@LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
18238 \reset@font
18239 \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
18240 \ifdim\wd\@tempboxa>\hsize
18241 #1{#2: }#3%
18242 \else
18243 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
18244 \fi
18245 \endgraf\vskip\baselineskip}%
18246 \hss}}}
18247 \ApplyPatchCodeToPackage{caption}{%
18248 \renewcommand\LT@makecaption[3]{%
18249 \caption\LT@make{%
18250 \caption@LT@settype\LTcaptype
18251 \caption@LT@setup
18252 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
18253 \caption@startrue#1\caption@starfalse
18254 \caption@prepare@stepcounter\LTcaptype

```



```

18255     \caption@begin\LTcaption
18256     \caption@normalsize
18257     \vskip-\ht\strutbox
18258     \caption@ifdefined\FBifcaptop{%
18259       \let\caption@belowskip\@empty}%
18260     \caption@make@above
18261     \caption@@make{#2}{#3}\endgraf
18262     \caption@make@below
18263     \caption@end}}%
18264 }
18265 \def\LT@startpbox#1{%
18266   \bgroup
18267   \color@begingroup
18268   \let\@footnotetext\LT@p@ftntext
18269   \let\@LTRfootnotetext\LT@p@LTRftntext
18270   \let\@RTLfootnotetext\LT@p@RTLftntext
18271   \setlength\hsize{#1}%
18272   \@arrayparboxrestore
18273   \everypar{%
18274     \vrule \@height \ht\@arstrutbox \@width \z@
18275     \everypar{}}%
18276   }
18277 \long\def\LT@p@LTRftntext#1{%
18278   \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
18279   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18280 \long\def\LT@p@RTLftntext#1{%
18281   \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
18282   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18283 \def\LT@output{%
18284   \ifnum\outputpenalty <-\@Mi
18285     \ifnum\outputpenalty > -\LT@end@pen
18286       \LT@err{floats and marginpars not allowed in a longtable}\@ehc
18287     \else
18288       \setbox\z@\vbox{\unvbox\@cclv}%
18289       \ifdim \ht\LT@lastfoot>\ht\LT@foot
18290         \dimen@\pagegoal
18291         \advance\dimen@\ht\LT@foot
18292         \advance\dimen@-\ht\LT@lastfoot
18293         \ifdim\dimen@<\ht\z@
18294           \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
18295           \@makecol
18296           \@outputpage
18297           \global\vsiz@\colroom
18298           \setbox\z@\vbox{\box\LT@head}%
18299         \fi
18300       \fi
18301       \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18302       \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
18303       \UseTaggingSocket{tbl/longtable/foot}
18304       \if@RTLtab\egroup\endR\egroup\fi
18305     \fi
18306   \else
18307     \setbox\@cclv\vbox{%
18308     \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi

```



```

18309         \unvbox\@cclv\copy\LT@foot\vss
18310         \if@RTLtab\egroup\endR\egroup\fi
18311     }%
18312     \UseTaggingSocket{tbl/longtable/foot}
18313     \@makecol
18314     \@outputpage
18315     \global\ysize\@colroom
18316     \copy\LT@head\nobreak
18317 \fi}

```

110 File `lscope-xetex-bidi.def`

```

18318 \ProvidesFile{lscope-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscope package for
18319 \RequirePackage{graphicx}
18320 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
18321   \if@RTL
18322     \rotatebox[origin=br]{-90}{\box\@outputbox}%
18323   \else
18324     \rotatebox{90}{\box\@outputbox}%
18325   \fi
18326 }{}{}
18327
18328 \g@addto@macro{\landscape}{%
18329   \if@bidi@csdef{bidi@columnwidth}{%
18330     \bidi@columnwidth\columnwidth
18331   }{}%
18332   \let\bidi@left@footnoterule\left@footnoterule
18333   \let\bidi@right@footnoterule\right@footnoterule
18334   \def\left@footnoterule{%
18335     \if@RTL
18336       \bidi@right@footnoterule
18337     \else
18338       \bidi@left@footnoterule
18339     \fi
18340   }%
18341   \def\right@footnoterule{%
18342     \if@RTL
18343       \bidi@left@footnoterule
18344     \else
18345       \bidi@right@footnoterule
18346     \fi
18347   }%
18348 }

```

111 File `mathtools-xetex-bidi.def`

```

18349 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
18350 \RequirePackage{graphicx}
18351 \MHInternalSyntaxOn
18352 \def\MT_define_tagform:nwnn #1[#2]#3#4{
18353   \@namedef{MT_tagform_#1:n}##1
18354   {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}
18355 }
18356 \renewtagform{default}{({})}

```



18357 \MHInternalSyntaxOff

112 File mdframed-xetex-bidi.def

```
18358 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package]
18359 \newif\if@bidi@mdf@RTL
18360 \def\mdf@lrbox#1{%
18361   \mdf@patchamsthm%patch amsthm
18362   \if@RTL\@bidi@mdf@RTLtrue\fi%
18363   \@RTLfalse%
18364   \setbox#1\vbox\bgroup%
18365   \color@begingroup%
18366   \if@bidi@mdf@RTL\@RTLtrue\fi%
18367   \mdf@horizontalmargin@equation%
18368   \columnwidth=\hsize%
18369   \textwidth=\hsize%
18370   \let\if@nobreak\iffalse%
18371   \let\if@noskipsec\iffalse%
18372   \let\par\@par%
18373   \let\-\@dischyph%
18374   \let'\@acci\let`\@accii\let=\@acciii%
18375   \parindent\z@ \parskip\z@skip%
18376   \linewidth\hsize%
18377   \@totalleftmargin\z@%
18378   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
18379   \parfillskip\@flushglue \lineskip\normallineskip%
18380   \baselineskip\normalbaselineskip%
18381 %% \sloppy%
18382 \let\\\@normalcr%
18383 \mdf@par@local%New feature to restore parskip/parindent local in save box
18384 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
18385 \@afterindentfalse%
18386 %\@afterheading%
18387 }
18388 \renewrobustcmd\mdfframedtitleenv[1]{%
18389   \mdf@lrbox{\mdf@frametitlebox}%
18390   \mdf@frametitlealignment%
18391   \leavevmode{\color{\mdf@frametitlefontcolor}%
18392     \normalfont\mdf@frametitlefont{#1}
18393     \ifbool{mdf@ignorerelastdescenders}%
18394       {%
18395         \par\strut\par
18396         \unskip\unskip\setbox0=\lastbox
18397         \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
18398       }{}%
18399     \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
18400     \endmdf@lrbox\relax%
18401   \mdf@ignorevbadness%
18402   \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
18403   \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
18404   \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
18405   \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
18406   \mdfframetitleboxtotalheight=\dimexpr
18407     \ht\mdf@frametitlebox
```




```

18408             +\dp\mdf@frametitlebox%
18409             +\mdf@frametitleaboveskip@length
18410             +\mdf@frametitlebelowskip@length
18411             \relax%
18412 }
18413
18414 \renewrobustcmd*\mdf@footnoteoutput{%
18415     \ifvoid\@mpfootins\else%
18416         \nobreak%
18417         \vskip\mdf@footnotedistance@length%
18418         \normalcolor%
18419         \bidi@mpfootnoterule%
18420         \unvbox\@mpfootins%
18421     \fi%
18422 }
18423
18424
18425 \renewrobustcmd*\mdf@footnoteinput{%
18426     \def\@mpfn{mpfootnote}%
18427     \def\thempfn{\thempfootnote}%
18428     \c@mpfootnote\z@%
18429     \let\@footnotetext\@mpfootnotetext%
18430     \let\@LTRfootnotetext\@mpLTRfootnotetext%
18431     \let\@RTLfootnotetext\@mpRTLfootnotetext%
18432 }

```

113 File media9-xetex-bidi.def

```

18433 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for
18434 \RequirePackage{bidi-media9}

```

114 File bidi-media9.sty

```

18435 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
18436 {bidi fixes for media9 package for the XeTeX engine}
18437
18438 \keys_define:nn{media9/mbtn}{
18439   draft .code:n = {},
18440   final .code:n = {},
18441
18442   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
18443   tooltip .value_required:n = {true},
18444
18445   overface .code:n = {
18446     \sbox\l_mix_poster_box{
18447       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
18448       \mix_pdfxform:n{\l_mix_poster_box}
18449       \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
18450     },
18451   overface .value_required:n = {true},
18452
18453   downface .code:n = {
18454     \sbox\l_mix_poster_box{
18455       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}

```



```

18456 \mix_pdfxform:n{\l_mix_poster_box}
18457 \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
18458 },
18459 downface .value_required:n = {true},
18460
18461 3Dgotoview .code:n = {
18462 \tl_set:Nx\l_tmpa_tl{#1} %extract ref
18463 \regex_replace_once:nnN{([~:~]+)??.*}{\1}\l_tmpa_tl
18464 \tl_trim_spaces:N\l_tmpa_tl
18465 \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18466 \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18467 \tl_set:Nx\l_tmpb_tl{#1} %extract idx
18468 \regex_replace_once:nnN{[~:~]+?}{\1}\l_tmpb_tl
18469 \tl_trim_spaces:N\l_tmpb_tl
18470 \tl_if_blank:VF\l_tmpb_tl{
18471 \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
18472 \tl_set:Nx\l_mix_vidx_tl{\l_tmpb_tl}
18473 }{
18474 \regex_match:nVTF{^\d+$}\l_tmpb_tl{
18475 \tl_set:Nx\l_mix_vidx_tl{\l_tmpb_tl}
18476 }{
18477 \regex_replace_once:nnN{^\(s*\)}\l_tmpb_tl
18478 \regex_replace_once:nnN{s*\)}\l_tmpb_tl
18479 \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
18480 }
18481 }
18482 }
18483 \mix_pdfobj:nnn{}{dict}{
18484 /S/JavaScript/JS~(
18485 if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18486 if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18487 annotRM['\l_tmpa_tl']=
18488 this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18489 }
18490 annotRM['\l_tmpa_tl'].activated=true;
18491 )
18492 \tl_if_blank:VF\l_tmpb_tl{
18493 /Next~<<
18494 /S/GoTo3DView
18495 /TA~\tl_use:c{ann@\l_tmpa_tl}
18496 /V\l_mix_vidx_tl
18497 >>
18498 }
18499 }
18500 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18501 }
18502 }{
18503 \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
18504 \cs_if_exist:NF\g_mix_refundefwarned_tl{
18505 \tl_new:N\g_mix_refundefwarned_tl
18506 \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18507 }
18508 }
18509 },

```



```

18510 3Dgotoview .value_required:n = {true},
18511
18512 mediacommand .code:n = {
18513   \tl_set:Nx\l_tmpa_tl{#1}
18514   \regex_replace_once:nnN{([~:]+)??.*}{\1}\l_tmpa_tl %extract ref
18515   \tl_trim_spaces:N\l_tmpa_tl
18516   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18517     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18518       \tl_set:Nx\l_tmpb_tl{#1}
18519       \regex_replace_once:nnN{[~:]+\?:?}{\1}\l_tmpb_tl
18520       \tl_trim_spaces:N\l_tmpb_tl
18521       \regex_replace_all:nnN{^{\|}$}{\1}\l_tmpb_tl
18522       \tl_set:Nx\l_mix_cmd_tl{
18523         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
18524       \tl_trim_spaces:N\l_mix_cmd_tl
18525       \tl_set:Nx\l_mix_arg_tl{
18526         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
18527       \tl_trim_spaces:N\l_mix_arg_tl
18528       \mix_pdfobj:nnn{}{dict}{
18529         /S/JavaScript/JS~(
18530           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18531           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18532             annotRM['\l_tmpa_tl']=
18533               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18534           }
18535           annotRM['\l_tmpa_tl'].activated=true;
18536         )
18537       \tl_if_blank:VF\l_mix_cmd_tl{
18538         /Next~<<
18539         /S/RichMediaExecute
18540         /TA~\tl_use:c{ann@\l_tmpa_tl}
18541         /TI~\tl_use:c{main@\l_tmpa_tl}
18542         /CMD~<<
18543         /C~(\l_mix_cmd_tl)
18544         \tl_if_blank:VF\l_mix_arg_tl{
18545           /A~[\l_mix_arg_tl]
18546         }
18547         >>
18548         >>
18549       }
18550     }
18551     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18552   }
18553 }{
18554   \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
18555   \cs_if_exist:NF\g_mix_refundefwarned_tl{
18556     \tl_new:N\g_mix_refundefwarned_tl
18557     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
18558   }
18559 }
18560 },
18561 mediacommand .value_required:n = {true},
18562
18563 jsaction .code:n = {

```



```

18564 \tl_set:Nx\l_tmpa_tl{#1}
18565 \regex_match:nVTF{^[^:]+:.*$}\l_tmpa_tl{
18566   \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl %extract ref
18567   \tl_trim_spaces:N\l_tmpa_tl
18568 }{\tl_clear:N\l_tmpa_tl}
18569 \tl_set:Nx\l_tmpb_tl{#1}
18570 \tl_if_blank:VF\l_tmpa_tl{
18571   \tl_if_exist:cF{ann@\l_tmpa_tl}{
18572     \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18573     \cs_if_exist:NF\g_mix_refundefwarned_tl{
18574       \tl_new:N\g_mix_refundefwarned_tl
18575       \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18576     }
18577   }
18578   \regex_replace_once:nnN{[~:]+\:}{\l_tmpb_tl
18579 }
18580 \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
18581 \tl_trim_spaces:N\l_tmpb_tl
18582 \tl_if_blank:VF\l_tmpb_tl{
18583 \mix_pdfobj:nnn}{dict}{
18584   /S/JavaScript/JS~(
18585     try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
18586 \bool_lazy_and:nnT{
18587   \tl_if_exist_p:c{ann@\l_tmpa_tl}
18588 }{
18589   !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18590 }{
18591   \mix_pdfobj:nnn}{dict}{
18592     /S/JavaScript/JS~(
18593       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18594       if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18595         annotRM['\l_tmpa_tl']=
18596         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18597       }
18598       annotRM['\l_tmpa_tl'].activated=true;
18599     )
18600     \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
18601   }
18602 }
18603 \bool_if:nT{
18604   \bool_lazy_and_p:nn{
18605     \tl_if_exist_p:c{ann@\l_tmpa_tl}
18606   }{
18607     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18608   }
18609   || !\tl_if_blank_p:V\l_tmpb_tl
18610 }{
18611   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18612 }
18613 },
18614 jsaction .value_required:n = {true},
18615
18616 unknown .code:n = {
18617   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}

```



```

18618 }
18619 }
18620
18621 \RenewDocumentCommand\includemedia{0{mm}}{%#1 options, #2 text/image #3 media file
18622 \mix_uriend:
18623 \group_begin:
18624 \mix_beginLTR:
18625 \mode_leave_vertical:
18626 %empty stream as appearance dummy
18627 \cs_if_exist:NF\g_mix_appearance_tl{
18628 \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
18629 \mix_pdfxform:n{\l_mix_poster_box}
18630 \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
18631 }
18632 \mix_reset:
18633 \mix_urbegin: %treat URI characters correctly
18634 \keys_set:nn{media9/user}{#1}
18635 \mix_uriend:
18636 \tl_greplac_all:Nnn\g_mix_flashvars_tl{~&}{&}
18637 \tl_greplac_all:Nnn\g_mix_flashvars_tl{&~}{&}
18638 \tl_greplac_all:Nnn\g_mix_flashvars_tl{~=}={=}
18639 \tl_greplac_all:Nnn\g_mix_flashvars_tl{=~}{=}
18640 \tl_gtrim_spaces:N\g_mix_flashvars_tl
18641
18642 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
18643
18644 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
18645 %\hbox_set:Nn\l_mix_poster_box{#2}
18646 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18647 \mix_scale:n{\l_mix_poster_box}
18648 \bool_if:nT{
18649 \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
18650 \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
18651 }{
18652 \tl_gset:Nn\g_mix_usrpbtn_tl{none}
18653 }
18654 \bool_if:NTF\g_mix_usrdraft_bool{
18655 \tl_if_empty:NF\g_mix_usrlabel_tl{
18656 \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
18657 }
18658 \tl_if_blank:oTF{#2}{
18659 \mix_urbegin: %treat URI characters correctly
18660 \mix_draftbox:n{\tl_to_str:n{#3}}
18661 \mix_uriend:
18662 }{
18663 \hbox_to_wd:nn{\g_mix_wd_tl}{
18664 \vrule-width~\c_zero_dim-height~\g_mix_ht_tl-depth~\g_mix_dp_tl
18665 \box_use:N\l_mix_poster_box\hss
18666 }
18667 }
18668 }{
18669 \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
18670 %attach script that switches off play button overlay upon activation
18671 \mix_pdfobj:nnn{}{stream}{

```



```

18672     {}{
18673         var~ocgs=host.getOCGs(host.pageNum);
18674         for(var~i=0;i<ocgs.length;i++){
18675             if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
18676                 ocgs[i].state=false;
18677             }
18678         }
18679     }
18680 }
18681 \mix_pdfobj:nnn{}{dict}{
18682     /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
18683 }
18684 \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
18685 \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
18686 %enforce plain playbutton overlay for XeTeX
18687 \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
18688 }
18689 %embed main asset
18690 \mix_uribegin:
18691 \mix_embedasset:n{#3}
18692 \bool_if:nTF{
18693     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
18694 }{
18695     \bool_gset_true:N\g_mix_iiid_bool
18696     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
18697 }{
18698     \str_case_e:nnF{\l_mix_base_tl}{
18699         {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18700         {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18701         {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18702         {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18703         {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18704     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
18705 }
18706 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
18707 \mix_uriend:
18708 %secondary assets (added by addresource)
18709 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
18710 \seq_map_inline:Nn\g_mix_script_seq{
18711     \mix_embedasset:n{##1}
18712     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
18713 }
18714 %attach 3D calculation script
18715 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
18716     \mix_embedasset:n{3Dmenu.js}
18717     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
18718 }
18719 %create 3D views from file (option 3Dviews)
18720 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
18721     \tl_set:Nn\l_mix_level_tl{-1}
18722     \int_zero:N\l_mix_viewcnt_int
18723     \int_zero:N\l_mix_lineno_int
18724
18725     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}

```



```

18726 \ior_map_inline:Nn\l_mix_vfile_stream{
18727 \int_incr:N\l_mix_lineno_int
18728 \keys_set:nn{media9/views}{##1} %process input line
18729 }
18730 \ior_close:N\l_mix_vfile_stream
18731 }
18732 \bool_if:nT{ %create default 3D view if required
18733 \g_mix_iiid_bool &&
18734 (\g_mix_opt_iiidview_bool || \tl_if_blank:p:V\l_mix_iiidviewarray_tl)
18735 }{
18736 \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
18737 \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
18738 \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
18739 \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
18740 \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
18741 \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
18742 \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
18743
18744 \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
18745 \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
18746 \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
18747 \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
18748
18749 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
18750 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
18751 \tl_clear:N\l_mix_naarray_tl
18752
18753 \bool_if:NF\l_mix_ciiw_bool{
18754 \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
18755 \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
18756 }
18757
18758 \tl_clear:N\l_mix_naarray_tl
18759 \tl_clear:N\l_mix_saarray_tl
18760 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
18761
18762 \mix_view:n{Default}
18763 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
18764
18765 }
18766 \mix_pdfobj:nnn{}{dict}{
18767 /Type/RichMediaInstance
18768 /Subtype/\g_mix_mainassetsub_tl
18769 /Asset~\g_mix_mainasset_tl
18770 \bool_if:NF\g_mix_iiid_bool{
18771 /Params~<<
18772 /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
18773 /Foreground
18774 }{
18775 /Background
18776 }
18777 \tl_if_blank:VF\g_mix_flashvars_tl{
18778 /FlashVars~(\g_mix_flashvars_tl)
18779 }

```



```

18780     >>
18781     }
18782   }
18783   \tl_if_empty:NF\g_mix_usrlabel_tl{
18784     \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
18785   }
18786   \mix_pdfobj:nnn{}{dict}{
18787     /Type/RichMediaConfiguration
18788     /Subtype/\g_mix_mainassetsub_tl
18789     /Instances~[\mix_pdflastobj:]
18790   }
18791   \mix_pdfobj:nnn{}{dict}{
18792     /Type/RichMediaContent
18793     /Assets~<</Names~[\g_mix_assets_tl]>>
18794     /Configurations~[\mix_pdflastobj:]
18795     \bool_if:nT{
18796       \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
18797     }{
18798       /Views~[\l_mix_iiidviewarray_tl]
18799     }
18800   }
18801   \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
18802   \bool_if:nT{
18803     \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
18804   }{
18805     \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
18806   }
18807   %determine floating window size
18808   \bool_if:NT\g_mix_opt_windowed_bool{
18809     \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
18810   }
18811   \mix_pdfobj:nnn{}{dict}{
18812     /Activation~<<
18813     /Condition\g_mix_act_tl
18814     \bool_if:nT{
18815       \g_mix_iiid_bool &&
18816       !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
18817     }{%seems to work only with 3D content
18818     /Animation~<<
18819       /Subtype/\g_mix_playtpe_tl
18820       /PlayCount~\g_mix_playcnt_tl
18821       /Speed~\g_mix_playspd_tl
18822     >>
18823   }
18824   \bool_if:nT{
18825     \g_mix_iiid_bool && (
18826       \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
18827     )
18828   }{/View~\l_mix_dfltview_tl}
18829   /Presentation~<<
18830     /Transparent~\g_mix_transp_tl
18831     \bool_if:NTF\g_mix_opt_windowed_bool{
18832       /Style/Windowed
18833     }/Window~<<

```




```

18834         /Width~<</Default~\tl_mix_fltd>>
18835         /Height~<</Default~\tl_mix_flht>>
18836         /Position~<<
18837             /HOffset~0/VOffset~0
18838             \str_case_e:nnF{\g_mix_winpos_tl}{
18839                 {tl}{VAlign/Near/HAlign/Near}
18840                 {cl}{VAlign/Center/HAlign/Near}
18841                 {bl}{VAlign/Far/HAlign/Near}
18842                 {bc}{VAlign/Far/HAlign/Center}
18843                 {br}{VAlign/Far/HAlign/Far}
18844                 {cr}{VAlign/Center/HAlign/Far}
18845                 {tr}{VAlign/Near/HAlign/Far}
18846                 {tc}{VAlign/Near/HAlign/Center}
18847             }{/HAlign/Center/VAlign/Center}
18848         >>
18849     >>
18850     }{
18851         /Style/Embedded
18852     }
18853     \bool_if:NTF\g_mix_iiid_bool{
18854         /Toolbar~\g_mix_tools_tl
18855         /NavigationPane~\g_mix_nav_tl
18856     }{
18857         /PassContextClick~\g_mix_contextclick_tl
18858     }
18859     >>
18860     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
18861     >>
18862     /Deactivation~<</Condition\g_mix_deact_tl>>
18863 }
18864 \tl_set:Nx\l_mix_settings_tl{mix_pdflastobj:}
18865 \tl_if_empty:NF\g_mix_usrlabel_tl{
18866     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
18867 }
18868 % #1:width, #2:height, #3:depth, #4:content (key-value)
18869 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
18870     /Subtype/RichMedia
18871     /F~4
18872     /BS~<</W~0/S/S>>
18873     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
18874     /NM~(\g_mix_label_tl)
18875     /AP~<</N~\g_mix_appearance_tl>>
18876     /RichMediaSettings~\l_mix_settings_tl
18877     /RichMediaContent~\l_mix_content_tl
18878 }
18879 \tl_if_empty:NF\g_mix_usrlabel_tl{
18880     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
18881     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
18882         \noexpand\the\g@mix@page@int}
18883 }
18884 \mix_pdfobj:nnn{}{dict}{
18885     /S/JavaScript/JS~(
18886     try{
18887         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}

```



```

18888         if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
18889             annotRM['\g_mix_label_tl']=
18890                 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
18891         }
18892         \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
18893             if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
18894                 var~ocgs=this.getOCGs(this.pageNum);
18895                 for(var~i=0;i<ocgs.length;i++){
18896                     if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18897                         var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
18898                     }
18899                 }
18900             }
18901             if(
18902                 !annotRM['\g_mix_label_tl'].activated&&(
18903                     app.viewerType=='Reader' ||
18904                     app.viewerType=='Exchange' ||
18905                     app.viewerType=='Exchange-Pro'
18906                 )&&app.viewerVersion>=9
18907             ){
18908                 ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
18909             }
18910         }
18911     }catch(e){}
18912     this.dirty=false;
18913 )
18914 }
18915 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
18916     /Subtype/Widget
18917     /FT/Btn/Ff-65537/F-2
18918     /BS~<</W-0>>
18919     /T~(fd@\g_mix_label_tl)
18920     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
18921 }
18922 \mix_appendtofields:n{\mix_pdflastann:}
18923 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
18924 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
18925     \hbox_to_wd:nn{\g_mix_wd_tl}{
18926         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
18927     }
18928 }{%insert play button overlay
18929     \mix_insert_btnocg: %create OCG
18930     \cs_gset_eq:Nc\mix_pbbtn:NN{g@mix@pbbtn@\g_mix_usrpbtn_tl @tl}
18931     \group_begin:
18932     \cs_if_exist:NT\textdir{\textdir TLT}
18933     \sbox\l_mix_pbbtn_box{\mix_pbbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
18934     \box_move_down:nn{\g_mix_dp_tl}{
18935         \hbox_to_wd:nn{\g_mix_wd_tl}{
18936             \vbox_to_ht:nn{\g_mix_tt_tl}{
18937                 \vss
18938                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
18939                 \box_use:N\l_mix_pbbtn_box
18940                 \ocgbase_oc_emc:
18941             }

```



```

18942     }
18943   }
18944   \group_end:
18945 }
18946 \int_gincr:N\g_mix_rmcnt_int
18947 }
18948 \mix_endLTR:
18949 \group_end:
18950 }
18951 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
18952 \tl_set:Nn\includemedia{\mix_urbegin:\l_mix_includemedia_tl}
18953
18954 \RenewDocumentCommand\mediabutton{0{}m}{%#1 options, #2 normal button text
18955   \mix_uriend:
18956   \group_begin:
18957   \mix_beginLTR:
18958   \mode_leave_vertical:
18959   %reset various variables
18960   \tl_gclear:N\g_mix_overbtn_tl
18961   \tl_gclear:N\g_mix_downbtn_tl
18962   \tl_gclear:N\g_mix_btnactions_tl
18963   \tl_gclear:N\g_mix_tooltip_tl
18964   %process options
18965   \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
18966   \mix_urbegin: %treat URI characters correctly
18967   \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
18968   \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
18969   \mix_uriend:
18970   %normal button appearance
18971   %\hbox_set:Nn\l_mix_poster_box{#2}
18972   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18973   \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
18974   \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
18975   \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
18976   \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
18977     \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
18978       \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
18979     \mix_pdfxform:n{\l_mix_poster_box}
18980     \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
18981     %insert widget annotation
18982     \mix_pdfannot:nnnn{\width}{\height}{\depth}{
18983       /Subtype/Widget
18984       /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
18985       \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
18986       /FT/Btn/Ff~65536
18987       \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
18988       /AP~<<
18989       /N~\g_mix_normalbtn_tl
18990       \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
18991       \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
18992     >>
18993     /MK~<<
18994     /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
18995     /I~\g_mix_normalbtn_tl

```



```

18996     \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
18997     \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
18998     >>
18999     /A~<<
19000     /S/JavaScript/JS~(app.focusRect=false;)
19001     %sequence of actions to perform
19002     \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
19003     >>
19004     }
19005     \mix_appendtofields:n{\mix_pdflastann:}
19006     \hbox_to_wd:nn{\width}{
19007     \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
19008     }
19009     \int_gincr:N\g_mix_mbtncnt_int
19010     }
19011     \mix_endLTR:
19012     \group_end:
19013 }
19014 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
19015 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
19016

```

115 File memoir-xetex-bidi.def

```

19017 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for X
19018 \renewcommand{\keepthetitle}{%
19019   \@bsmtitleempty
19020   \global\let\thanks\relax
19021   \global\let\LTRthanks\relax
19022   \global\let\RTLthanks\relax
19023   \global\let\and\relax
19024   \global\let\andnext\relax
19025   \global\let\@thanks\@empty
19026   \global\let\@title\@empty
19027   \global\let\@author\@empty
19028   \global\let\@date\@empty}
19029 \renewcommand{\maketitle}{\par
19030   \beginingroup
19031     \@bsmarkseries
19032     \def\@makefnmark{\@textsuperscript{%
19033       \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
19034     \long\def\@makefntext##1{\makethanksmark ##1}
19035     \if@twocolumn
19036       \ifnum \col@number=\@ne
19037         \@maketitle
19038       \else
19039         \twocolumn[\@maketitle]%
19040       \fi
19041     \else
19042       \ifdim\pagetotal>\z@
19043         \newpage
19044       \fi
19045       \global\@topnum\z@
19046       \@maketitle

```



```

19047   \fi
19048   \thispagestyle{title}\@thanks
19049 \endgroup
19050 \@bscontmark % \setcounter{footnote}{0}%
19051 }
19052 \renewcommand*{\memRTLleftskip}{\if@RTL\righskip\else\leftskip\fi}
19053 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
19054 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
19055 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
19056 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
19057 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
19058 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
19059 \renewcommand*{\thesubsection}{%
19060     \thesection\@SepMark\@arabic\c@subsection}
19061 \renewcommand*{\thesubsubsection}{%
19062     \thesubsection\@SepMark\@arabic\c@subsubsection}
19063 \renewcommand*{\theparagraph}{%
19064     \thesubsubsection\@SepMark\@arabic\c@paragraph}
19065 \renewcommand*{\thesubparagraph}{%
19066     \theparagraph\@SepMark\@arabic\c@subparagraph}
19067 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
19068 \renewcommand{\theequation}{%
19069     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19070 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
19071 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
19072 \ifartopt
19073   \chapterstyle{article}
19074   \counterwithout{figure}{chapter}
19075   \counterwithout{table}{chapter}
19076   \counterwithout{footnote}{chapter}
19077   \counterwithout{equation}{chapter}
19078   \renewcommand{\chaptername}{}
19079   \renewcommand{\maketitlehookb}{%
19080     \vskip -1.5\topsep\vskip -1.5\partopsep}
19081   \renewcommand{\maketitlehookc}{%
19082     \vskip -1.5\topsep\vskip -1.5\partopsep}
19083 \fi
19084 \long\def\@makecaption#1#2{\let\@memtempa\relax
19085   \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
19086   \else \def\@memtempa{\vbox to\topskip{}}\fi
19087   \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
19088   \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
19089   \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
19090   \let\footnote\@contfnote
19091   \let\footnotemark\@contfmark
19092   \ifdim\wd\@tempboxa<\linewidth \centering \fi
19093   \if@contcw
19094     \centering
19095     \parbox{\@contcwidth}{%
19096       \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
19097     \fi
19098   \ifdim\wd\@tempboxa<\linewidth
19099     \@contpre
19100     {\@contnfont #1\@contdelim}\@memtempa

```



```

19101   {\@contcshortstyle \@conttfont #2\@contfinal\par}
19102 \else
19103   \if@conthang
19104     \sbox\@tempboxa{\@contnfont #1\@contdelim}
19105     \@contpre%
19106     {\@contcstyle\hangindent=\wd\@tempboxa
19107     \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
19108   \else
19109     \if@contindent
19110       \@contpre%
19111       {\@contnfont #1\@contdelim}\@memtempa
19112       {\@contcstyle\hangindent=\@contindw
19113       \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
19114     \else
19115       \@contpre%
19116       {\@contnfont #1\@contdelim}\@memtempa
19117       {\@contcstyle \@conttfont #2\@contfinal\par}
19118     \fi
19119   \fi
19120 \fi
19121 \@contpost
19122 \if@contcw
19123   \par
19124 } % end of the \parbox
19125 \fi
19126 \vskip\belowcaptionskip}
19127 \ApplyPatchCodeToPackage{caption}{%
19128 \AtBeginPackage{caption}{
19129 \ClassWarningNoLine{memoir}{%
19130 You are using the caption package with the memoir \MessageBreak
19131 class. This may cause unexpected or inconsistent \MessageBreak
19132 results if you use any of memoir's captioning facilities}
19133
19134 \long\def\@makecaption##1##2{%
19135 \vskip\abovecaptionskip
19136 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
19137 \ifdim \wd\@tempboxa >\hsize
19138 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
19139 \else
19140 \global \@minipagefalse
19141 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
19142 \fi
19143 \vskip\belowcaptionskip}
19144
19145 \def\caption{%
19146 \ifx\@capttype\@undefined
19147 \latex@error{\noexpand\caption outside float}\@ehd
19148 \expandafter\@gobble
19149 \else
19150 \refstepcounter\@capttype
19151 \expandafter\@firstofone
19152 \fi
19153 {\@dblarg{\@caption\@capttype}}%
19154 }

```



```

19155
19156 \long\def\@caption##1[##2]##3{%
19157   \par
19158   \addcontentsline{\csname ext@##1\endcsname}{##1}%
19159     {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
19160   \begingroup
19161     \@parboxrestore
19162     \if@minipage
19163       \setminipage
19164     \fi
19165     \normalsize
19166     \makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
19167   \endgroup}
19168 }}
19169 \renewenvironment{thebibliography}[1]{%
19170   \bibsection
19171   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19172   \bidi@thebibliography@font@hook%
19173   \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```

116 File midfloat-xetex-bidi.def

```

19174 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
19175 \def\RTL@outputdblcol{%
19176   \if@firstcolumn
19177     \global \@firstcolumnfalse
19178     \global\setbox\@leftcolumn\copy\@outputbox
19179     \splitmaxdepth\maxdimen
19180     \vbadness\maxdimen
19181     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19182     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19183     \toks@\expandafter{\topmark}%
19184     \xdef\@firstcoltopmark{\the\toks@}%
19185     \toks@\expandafter{\splitfirstmark}%
19186     \xdef\@firstcolfirstmark{\the\toks@}%
19187     \ifx\@firstcolfirstmark\empty
19188       \global\let\@setmarks\relax
19189     \else
19190       \gdef\@setmarks{%
19191         \let\firstmark\@firstcolfirstmark
19192         \let\topmark\@firstcoltopmark}%
19193     \fi
19194     \global\c@colht\@colht\global\c@advvipersep\z@
19195     \ifnum\j@sk>0
19196       \remove@strip\j@sk@sar
19197       \global\@colht\the\j@sk@pr
19198       \ifdim\right@cor>\z@
19199         \global\advance\@colht by\right@cor
19200       \fi
19201       \global\advance\@colht by\cor@height
19202       \global\cor@height=0pt
19203     \fi
19204     \global\setbox\@rightcolumn\vbox{%
19205   \else

```



```

19206 \ifdim\c@colht>\@colht
19207 \@tempdima\@colht
19208 \ifdim\@colht>\z@
19209 \global\setbox\@rightcolumn \vbox{%
19210 \unvbox\@rightcolumn
19211 \vbox to\@tempdima{%
19212 \vskip\c@addvipersep\unvbox\@outputbox}%
19213 \vskip\stripsep
19214 \vrule height\the\jua@ht width Opt depth Opt
19215 \vskip\stripsep
19216 }%
19217 \global\c@addvipersep\m@addvipersep
19218 \else
19219 \global\setbox\@rightcolumn \vbox{%
19220 \unvbox\@rightcolumn
19221 \vrule height\the\jua@ht width Opt depth Opt
19222 \vskip\stripsep
19223 }%
19224 \fi
19225 \ifnum\jua@sk>0
19226 \remove@strip\jua@sar
19227 \global\@colht\the\jua@pr
19228 \global\advance\@colht by -\ht\@rightcolumn
19229 \global\advance\@colht by\cor@height
19230 \global\cor@height=0pt
19231 \else
19232 \global\advance\c@colht by-\ht\@rightcolumn
19233 \global\@colht\c@colht
19234 \fi
19235 \else
19236 \global\@firstcolumntrue
19237 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19238 \unvbox\@rightcolumn
19239 \vskip\c@addvipersep
19240 \unvbox\@outputbox
19241 }%
19242 \setbox\@outputbox \vbox {%
19243 \hb@xt@\textwidth {%
19244 \hskip \columnwidth
19245 \hfil
19246 \vrule \@width\columnseprule
19247 \hfil
19248 \hb@xt@\columnwidth {%
19249 \bidi@firstcolumn@status@write%
19250 \box\@leftcolumn \hss}%
19251 \hskip-\textwidth
19252 \hb@xt@\columnwidth {%
19253 \bidi@lastcolumn@status@write%
19254 \box\@outputbox \hss}%
19255 \hskip\columnwidth
19256 \hskip\columnsep}%
19257 }%
19258 \@combinedblfloats
19259 \@setmarks

```




```

19260 \@outputpage
19261 \begingroup
19262 \@dblfloatplacement
19263 \@startdblcolumn
19264 \@whilesw\if@fcolmade \fi
19265 {\@outputpage
19266 \@startdblcolumn}%
19267 \endgroup
19268 \global\jua@sk=0\global\jua@sar={}%
19269 \global\cor@height\z@\global\c@advipersep\z@
19270 \fi
19271 \fi
19272 }
19273
19274
19275 \def\LTR@outputdblcol{%
19276 \if@firstcolumn
19277 \global \@firstcolumnfalse
19278 \global\setbox\@leftcolumn\copy\@outputbox
19279 \splitmaxdepth\maxdimen
19280 \vbadness\maxdimen
19281 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19282 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19283 \toks@\expandafter{\topmark}%
19284 \xdef\@firstcoltopmark{\the\toks@}%
19285 \toks@\expandafter{\splitfirstmark}%
19286 \xdef\@firstcolfirstmark{\the\toks@}%
19287 \ifx\@firstcolfirstmark\@empty
19288 \global\let\@setmarks\relax
19289 \else
19290 \gdef\@setmarks{%
19291 \let\firstmark\@firstcolfirstmark
19292 \let\topmark\@firstcoltopmark}%
19293 \fi
19294 \global\c@colht\@colht\global\c@advipersep\z@
19295 \ifnum\jua@sk>0
19296 \remove@strip\jua@sar
19297 \global\@colht\the\jua@pr
19298 \ifdim\right@cor>\z@
19299 \global\advance\@colht by\right@cor
19300 \fi
19301 \global\advance\@colht by\cor@height
19302 \global\cor@height=0pt
19303 \fi
19304 \global\setbox\@rightcolumn\vbox{%
19305 \else
19306 \ifdim\c@colht>\@colht
19307 \@tempdima\@colht
19308 \ifdim\@colht>\z@
19309 \global\setbox\@rightcolumn\vbox{%
19310 \unvbox\@rightcolumn
19311 \vbox to\@tempdima{%
19312 \vskip\c@advipersep\unvbox\@outputbox}%
19313 \vskip\stripsep

```



```

19314         \vrule height\the\jua@ht width Opt depth Opt
19315         \vskip\stripsep
19316         }%
19317     \global\c@addvipersep\m@addvipersep
19318     \else
19319     \global\setbox\@rightcolumn \vbox{%
19320         \unvbox\@rightcolumn
19321         \vrule height\the\jua@ht width Opt depth Opt
19322         \vskip\stripsep
19323         }%
19324     \fi
19325     \ifnum\jua@sk>0
19326         \remove@strip\jua@sar
19327         \global\@colht\the\jua@pr
19328         \global\advance\@colht by -\ht\@rightcolumn
19329         \global\advance\@colht by\cor@height
19330         \global\cor@height=Opt
19331     \else
19332         \global\advance\c@colht by-\ht\@rightcolumn
19333         \global\@colht\c@colht
19334     \fi
19335 \else
19336     \global\@firstcolumntrue
19337     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19338         \unvbox\@rightcolumn
19339         \vskip\c@addvipersep
19340         \unvbox\@outputbox
19341         }%
19342     \setbox\@outputbox \vbox {%
19343         \hb@xt@\textwidth {%
19344             \hb@xt@\columnwidth {%
19345                 \bidi@firstcolumn@status@write%
19346                 \box\@leftcolumn \hss}%
19347             \hfil
19348             \vrule \@width\columnseprule
19349             \hfil
19350             \hb@xt@\columnwidth {%
19351                 \bidi@lastcolumn@status@write%
19352                 \box\@outputbox \hss}%
19353             }%
19354         }%
19355     \@combinedblfloats
19356     \@setmarks
19357     \@outputpage
19358     \begingroup
19359         \@dblfloatplacement
19360         \@startdblcolumn
19361         \@whiles\if@fcolmade \fi
19362         {\@outputpage
19363         \@startdblcolumn}%
19364     \endgroup
19365     \global\jua@sk=0\global\jua@sar={}%
19366     \global\cor@height\z@\global\c@addvipersep\z@
19367     \fi

```



```

19368 \fi
19369 }
19370
19371
19372 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
19373 \global\setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
19374 \hspace\textwidth
19375 \@parboxrestore
19376 \col@number \@ne
19377 \vrule height\topskip width0pt depth0pt
19378 }
19379
19380 \def\endstrip{%
19381 \egroup\egroup
19382 \if@firstcolumn
19383 \ifdim\pagetotal>\z@
19384 \vskip\stripsep
19385 \global\ht@strip\pagegoal
19386 \global\advance\ht@strip by-\pagetotal
19387 \global\advance\ht@strip by-\stripsep
19388 \global\advance\ht@strip by-\ht\@viper
19389 \global\advance\ht@strip by-\stripsep
19390 \global\jua@ht=\ht\@viper
19391 \else
19392 \global\ht@strip\z@
19393 \fi
19394 \ifdim\ht@strip>\z@
19395 \unvbox\@viper
19396 \vskip\stripsep
19397 \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
19398 \global\advance\jua@sk by1
19399 \else
19400 \@latex@error{Strip needs more place!}\@ehc
19401 \if@vihproof
19402 \framebox[\columnwidth]{??? Strip ???}%
19403 \fi
19404 \fi
19405 \else
19406 \@latex@error{Strip is used only on left column!}\@ehc
19407 \if@vihproof
19408 \framebox[\columnwidth]{??? Strip ???}%
19409 \fi
19410 \fi
19411 }

```

117 File minitoc-xetex-bidi.def

```

19412 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
19413 \def\@undottedtocline#1#2#3#4#5{%
19414 \ifnum #1>\c@tocdepth\relax \else
19415 \vskip \z@ plus.2\p@
19416 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmarg
19417 \parindent #2\relax\@afterindenttrue
19418 \interlinepenalty\@M

```



```

19419 \leavevmode
19420 \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}}%
19421 \hskip -\if@RTL\rightskip\else\leftskip\fi
19422 #4\nobreak\hfill \nobreak
19423 \null\par}%
19424 \fi}
19425 \def\@Undottedtocline#1#2#3#4#5{%
19426 \ifnum #1>\c@tocdepth\relax \else
19427 \vskip \z@ \@plus.2\p@
19428 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocma
19429 \parindent #2\relax\@afterindenttrue
19430 \interlinepenalty\@M
19431 \leavevmode
19432 \@tempdima #3\relax
19433 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19434 {\coffeesfont #4}\nobreak \nobreak\null
19435 \par}%
19436 \fi}
19437 \def\@Undottedtoclinep#1#2#3#4#5{%
19438 \ifnum #1>\c@tocdepth\relax \else
19439 \vskip \z@ \@plus.2\p@
19440 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocma
19441 \parindent #2\relax\@afterindenttrue
19442 \interlinepenalty\@M
19443 \leavevmode
19444 \@tempdima #3\relax
19445 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19446 {#4}\nobreak \hfill \nobreak\null
19447 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
19448 \par}%
19449 \fi}

```

118 File multicol-xetex-bidi.def

```

19450 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
19451 \def\page@sofar{%
19452 \process@cols\mult@rightbox
19453 {\ifvoid\count@
19454 \setbox\count@\hbox to\hsize{}}%
19455 \else
19456 \wd\count@\hsize
19457 \fi}%
19458 \count@\col@number \advance\count@\m@ne
19459 \mult@info\z@
19460 {Column spec: \the\full@width\space = indent
19461 + columns + sep =\MessageBreak
19462 \the\multicol@leftmargin\space
19463 + \the\col@number\space
19464 x \the\hsize\space
19465 + \the\count@\space
19466 x \the\columnsep
19467 }%
19468 \ifvmode\else\errmessage{Multicol Error}\fi
19469 \nointerlineskip

```



```

19470 \setbox\z@\hbox{p}\global\dimen\tw@dp\z@
19471 \moveright\multicol@leftmargin
19472 \hbox to\full@width{%
19473     \bidi@multicol@align@columns
19474     \rlap{\phantom p}%
19475 }%
19476 \prevdepth\z@
19477 \kern-\dimen\tw@
19478 \ifdim\dimen\tw@ > \mc@gridwarn
19479 \PackageWarning{multicol}%
19480 {Very deep columns!\MessageBreak
19481 Grid alignment might be broken}%
19482 \fi
19483 }
19484 \def\LTR@column@boxes{%
19485     \process@cols\mult@firstbox{%
19486         \ifdimdp\count@>\dimen\tw@
19487             \global\dimen\tw@dp\count@ \fi
19488         \mc@col@status@write
19489         \box\count@
19490         \hss{\columnseprulecolor\vrule
19491             \@width\columnseprule}\hss}%
19492     \ifdimdp\mult@rightbox>\dimen\tw@
19493         \global\dimen\tw@dp\mult@rightbox \fi
19494     \mc@lastcol@status@write
19495     \box\mult@rightbox
19496 }
19497
19498 \def\RTL@column@boxes{%
19499     \process@cols\mult@firstbox{%
19500         \hskip\hsize
19501         \hss{\columnseprulecolor\vrule
19502             \@width\columnseprule}\hss
19503     }%
19504     \hskip\hsize
19505     \process@cols\mult@firstbox{%
19506         \ifdimdp\count@>\dimen\tw@
19507             \global\dimen\tw@dp\count@ \fi
19508         \hskip-\hsize
19509         \mc@col@status@write
19510         \box\count@
19511         \hskip-\hsize
19512         \hskip-\columnsep
19513     }%
19514     \ifdimdp\mult@rightbox>\dimen\tw@
19515         \global\dimen\tw@dp\mult@rightbox \fi
19516     \hskip-\hsize
19517     \mc@lastcol@status@write
19518     \box\mult@rightbox
19519     \hskip-\hsize
19520     \hskip\full@width
19521 }
19522
19523 \newcommand\RTLmulticolcolumns

```



```

19524   {\let\ bidi@multicol@align@columns
19525         \RTL@column@boxes}
19526 \newcommand\LTRmulticol@columns
19527   {\let\ bidi@multicol@align@columns
19528         \LTR@column@boxes}
19529 \newcommand\ bidi@multicol@align@columns
19530   {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
19531 \ bidi@AtEndPreamble{%
19532   \if@ bidi@csdef{footinsv1}{%
19533     \def\footnoterule{\kern-3\p@
19534       \hrule \@width \textwidth \kern 2.6\p@}%
19535   }{%}
19536 }
19537 \def\multicols#1{\col@number#1\relax
19538   \ifnum\col@number<\tw@
19539     \PackageWarning{multicol}%
19540       {Using ` \number\col@number '
19541         columns doesn't seem a good idea.^^J
19542         I therefore use two columns instead}%
19543     \col@number\tw@ \fi
19544   \ifnum\col@number>20
19545     \PackageError{multicol}%
19546       {Too many columns}%
19547     {Current implementation doesn't
19548       support more than 20 columns.%
19549     \MessageBreak
19550     I therefore use 20 columns instead}%
19551     \col@number20 \fi
19552   \ifx\@footnotetext\mult@footnotetext
19553     \else
19554       \let\orig@footnotetext\@footnotetext
19555       \let\@footnotetext\mult@footnotetext
19556     \fi
19557   \ifx\@LTRfootnotetext\mult@LTRfootnotetext
19558     \else
19559       \let\orig@LTRfootnotetext\@LTRfootnotetext
19560       \let\@LTRfootnotetext\mult@LTRfootnotetext
19561     \fi
19562   \ifx\@RTLfootnotetext\mult@RTLfootnotetext
19563     \else
19564       \let\orig@RTLfootnotetext\@RTLfootnotetext
19565       \let\@RTLfootnotetext\mult@RTLfootnotetext
19566     \fi
19567   \@ifnextchar[\mult@cols{\mult@cols[]}]
19568 \long\def\mult@footnotetext#1{\begingroup
19569   \hsize\textwidth
19570   \columnwidth\textwidth
19571   \orig@footnotetext{#1}\endgroup}
19572 \long\def\mult@LTRfootnotetext#1{\begingroup
19573   \hsize\textwidth
19574   \columnwidth\textwidth
19575   \orig@LTRfootnotetext{#1}\endgroup}
19576 \long\def\mult@RTLfootnotetext#1{\begingroup
19577   \hsize\textwidth

```



```

19578         \columnwidth\textwidth
19579         \orig@RTLfootnotetext{#1}\endgroup}
19580 \def\right@footnoterule{%
19581   \kern-3\p@
19582   \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
19583   \kern2.6\p@}
19584 \def\textwidth@footnoterule{\kern-3\p@
19585   \hrule \@width \textwidth \kern 2.6\p@}
19586 \def\bidileave@mult@copyins{%
19587   \advance\dimen@-\skip\@bidi@copyins@
19588   \advance\dimen@-\ht\@bidi@copyins@
19589 }
19590
19591 \bidi@AtEndPreamble{%
19592   \if@bidi@csundef{footinsv@1}{%
19593     \bidi@patchcmd{\multi@column@out}{%
19594       \ifvbox \@kludgeins
19595     }{%
19596       \ifvoid\@bidi@copyins@ \else
19597         \bidileave@mult@copyins
19598       \fi
19599       \ifvbox \@kludgeins
19600     }{}{}%
19601   }{}%
19602 }
19603
19604

```

119 File multienum-xetex-bidi.def

```

19605 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
19606 \renewcommand{\itemx}[1]{\parbox[t]%
19607 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19608 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
19609 \renewcommand{\itemxx}[2]{\parbox[t]%
19610 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19611 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19612 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19613 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
19614 \renewcommand{\itemxxx}[3]{\parbox[t]%
19615 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19616 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19617 {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
19618 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
19619 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19620 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
19621 \renewcommand{\itemxxxx}[4]{\parbox[t]%
19622 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19623 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
19624 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19625 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19626 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19627 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
19628 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

19629 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
19630 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
19631 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19632 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #1}\hfill%
19633 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19634 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #2}\hfill%
19635 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19636 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #3}\hfill%
19637 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19638 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #4}\hfill%
19639 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19640 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #5}\smallskip}
19641 \renewcommand{\itemxox}[2]{\parbox[t]{%
19642 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19643 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19644 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19645 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
19646 \renewcommand{\itemxox}[2]{\parbox[t]{%
19647 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19648 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
19649 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19650 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
19651 \renewcommand{\itemxox}[3]{\parbox[t]{%
19652 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19653 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19654 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19655 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19656 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19657 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19658 \renewcommand{\itemxox}[3]{\parbox[t]{%
19659 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19660 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19661 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19662 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
19663 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19664 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19665 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
19666 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19667 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19668 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19669 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19670 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19671 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

120 File natbib-xetex-bidi.def

```

19672 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
19673 \renewenvironment{thebibliography}[1]{%
19674 \bibsection
19675 \parindent\z@
19676 \bibpreamble
19677 \bibfont
19678 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
19679 \bidi@thebibliography@font@hook%

```




```

19680 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
19681 \ifNAT@openbib
19682   \renewcommand\newblock{\par}%
19683 \else
19684   \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
19685 \fi
19686 \sloppy\clubpenalty4000\widowpenalty4000
19687 \sfcode`\.\@m
19688 \let\NAT@bibitem@first@sw\@firstoftwo
19689   \let\citeN\cite \let\shortcite\cite
19690   \let\citeasnoun\cite
19691 }{%
19692 \bibitem@fin
19693 \bibpostamble
19694 \def\@noitemerr{%
19695   \PackageWarning{natbib}{Empty `thebibliography' environment}%
19696 }%
19697 \endlist
19698 \bibcleanup
19699 }%

```

121 File newfloat-xetex-bidi.def

```

19700 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
19701 \renewcommand*\newfloat@setwithin[2]{%
19702   \ifcsname c@chapter\endcsname
19703     \@removefromreset{#1}{chapter}%
19704   \fi
19705   \@removefromreset{#1}{section}%
19706   \edef\@tempa{#2}%
19707   \ifx\@tempa\@empty
19708     \def\@tempa{none}%
19709   \fi
19710   \def\@tempb{none}%
19711   \ifx\@tempa\@tempb
19712     \ifcsname c@chapter\endcsname
19713       \@chapterlistsgap@off{#1}%
19714     \fi
19715     \newfloat@@setwithin{#1}{\@tempa}%
19716   \else
19717     \def\@tempb{chapter}%
19718     \ifx\@tempa\@tempb
19719       \@addtoreset{#1}{chapter}%
19720       \@chapterlistsgap@on{#1}%
19721       \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@SepMark}%
19722     \else
19723       \def\@tempb{section}%
19724       \ifx\@tempa\@tempb
19725         \@addtoreset{#1}{section}%
19726         \ifcsname c@chapter\endcsname
19727           \@addtoreset{#1}{chapter}%
19728           \@chapterlistsgap@on{#1}%
19729         \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
19730       \else

```



```

19731         \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection}
19732         \fi
19733     \else
19734         \newfloat@Error{Invalid value `#2' for option `within'}%
19735     \fi
19736 \fi
19737 \fi}

```

122 File nicematrix-xetex-bidi.def

```

19738 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix package]
19739 \ExplSyntaxOn
19740 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{%
19741   \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
19742   \@tabarray
19743 }{}{}
19744 \ExplSyntaxOff
19745

```

123 File ntheorem-xetex-bidi.def

```

19746 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
19747 \gdef\@thm#1#2#3{%
19748   \if@thmmarks
19749     \stepcounter{end\InTheoType ctr}%
19750   \fi
19751   \renewcommand{\InTheoType}{#1}%
19752   \if@thmmarks
19753     \stepcounter{curr#1ctr}%
19754     \setcounter{end#1ctr}{0}%
19755   \fi
19756   \refstepcounter{#2}%
19757   \theorem@prework
19758   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19759   \ifvmode \advance\thm@topsepadd\partopsep\fi
19760   \trivlist
19761   \@topsep \theorempreskipamount
19762   \@topsepadd \thm@topsepadd % used by \@endparenv
19763   \advance\linewidth -\theorem@indent
19764   \advance\@totalleftmargin \theorem@indent
19765   \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19766   \@ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

124 File ntheorem-hyper-xetex-bidi.def

```

19767 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-hyper package]
19768 \gdef\@thm#1#2#3{%
19769   \if@thmmarks
19770     \stepcounter{end\InTheoType ctr}%
19771   \fi
19772   \renewcommand{\InTheoType}{#1}%
19773   \if@thmmarks
19774     \stepcounter{curr#1ctr}%
19775     \setcounter{end#1ctr}{0}%

```



```

19776 \fi
19777 \refstepcounter{#2}%
19778 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19779 \ifvmode \advance\thm@topsepadd\partopsep\fi
19780 \trivlist
19781 \@topsep \theorempreskipamount
19782 \@topsepadd \thm@topsepadd % used by \@endparenv
19783 \advance\linewidth -\theorem@indent
19784 \advance\@totalleftmargin \theorem@indent
19785 \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19786 \@ifnextchar [\@ythem{#1}{#2}{#3}]{\xthm{#1}{#2}{#3}}

```

125 File overpic-xetex-bidi.def

```

19787 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
19788 \renewenvironment{overpic}[2] []{%
19789 \sbox{\z@}{\includegraphics[#1]{#2}}%
19790 \settodepth{\@tempcnta}{\usebox{\z@}}%
19791 \settoheight{\@tempcntb}{\usebox{\z@}}%
19792 \advance\@tempcntb\@tempcnta%
19793 \settowidth{\@tempcnta}{\usebox{\z@}}%
19794 \setlength{\@tempdima}{\unitlength}%
19795 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
19796 %
19797 \OVP@calc%
19798 %
19799 \begin{picture}(\@tempcnta,\@tempcntb)%
19800 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
19801 \ifGin@grid%
19802 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19803 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19804 \fi\fi%
19805 % reset the graphics parameter
19806 \let\Gin@outer@scalex\relax
19807 \let\Gin@outer@scaley\relax
19808 \let\Gin@angle\relax
19809 \let\Gin@ewidth\Gin@exclamation
19810 \let\Gin@eheight\Gin@ewidth
19811 \def\Gin@scalex{1}
19812 \let\Gin@scaley\Gin@exclamation
19813 }{%
19814 \if@RTL\ifGin@grid%
19815 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19816 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19817 \fi%
19818 \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
19819 \end{picture}%
19820 }%

```

126 File pdfbase-xetex-bidi.def

```

19821 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
19822 \ExplSyntaxOn
19823 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage

```



```

19824 \cs_set_nopar:Npn\@outputpage{
19825   \int_gincr:N\g_pbs_page_int
19826   \box_if_vertical:cTF{\@outputbox}{
19827     \bool_set_true:N\l_pbs_is_vertical_bool
19828   }{
19829     \bool_set_false:N\l_pbs_is_vertical_bool
19830   }
19831   \hbox_set:Nn\@outputbox{
19832     %begin of page
19833     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
19834     \box_use_drop:N\@outputbox
19835     %end of page
19836     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
19837   }
19838   \bool_if:NT\l_pbs_is_vertical_bool{
19839     \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
19840   }
19841   \pbs_outputpage_orig:
19842 }
19843 \ExplSyntaxOff

```

127 File pdfscape-xetex-bidi.def

```

19844 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape package]
19845 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
19846   \if@RTL
19847     \PLS@Rotate{-90}%
19848   \else
19849     \PLS@Rotate{90}%
19850   \fi
19851 }{}{}

```

128 File pdfpages-xetex-bidi.def

```

19852 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package]
19853 \renewcommand*{\includepdf}[2] [] {%
19854   \begingroup
19855   \@RTLfalse
19856   \let\AM@threadname\relax
19857   \AM@split@options{pdfpages}{#1}%
19858   \edef\AM@temp{{pdfpages}{\the\@temptokena}}%
19859   \expandafter\setkeys\AM@temp
19860   \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%
19861     \let\AM@currentdocname\relax
19862     \renewcommand\includegraphics[2] [] {Survey in draft-mode}%
19863     \def\AM@pagecount{0}%
19864   }{%
19865     \AM@findfile{#2}%
19866     \if\AM@threadname\relax
19867       \def\AM@threadname{\AM@currentdocname}%
19868     \fi
19869   }%
19870   \ifAM@survey
19871     \def\AM@pagetemp{}%

```



```

19872 \@tempcnta=0
19873 \def\foo{%
19874   \ifundefined{r\AM@xrprefix pdfpages@page\the\@tempcnta}%
19875     {\let\foo\relax}
19876     {\expandafter\ifx\expandafter\\AM@pagestemp\\
19877       \edef\AM@pagestemp{%
19878         \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
19879     \else
19880       \edef\AM@pagestemp{\AM@pagestemp,%
19881         \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
19882     \fi
19883     \advance\@tempcnta 1\relax
19884   }%
19885   \foo
19886 }%
19887 \foo
19888 \expandafter\ifx\expandafter\\AM@pagestemp\\
19889   \def\AM@pagestemp{1}%
19890 \fi
19891 \fi
19892 \ifAM@output
19893   \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
19894   \AM@output{#1}%
19895 \fi
19896 \AM@CheckAtEnd
19897 \endgroup
19898 \AM@ClearShipoutPicture
19899 }

```

129 File pgfcorescopes.code-xetex-bidi.def

```

19900 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
19901 \def\pgfpicture{%
19902   \begingroup%
19903   \ifmode\else@RTLfalse\beginL\fi%
19904   \pgfpicturetrue%
19905   \global\advance\pgf@picture@serial@count by1\relax%
19906   \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
19907   \let\pgf@nodecallback=\pgfutil@gobble%
19908   \pgf@picmaxx=-16000pt\relax%
19909   \pgf@picminx=16000pt\relax%
19910   \pgf@picmaxy=-16000pt\relax%
19911   \pgf@picminy=16000pt\relax%
19912   \pgf@relevantforpicturesizetrue%
19913   \pgf@resetpathsizes%
19914   \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
19915 \def\endpgfpicture{%
19916   \ifpgfrememberpicturepositiononpage%
19917     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
19918   \fi%
19919   % ok, now let's position the box
19920   \ifdim\pgf@picmaxx=-16000pt\relax%
19921     % empty picture. make size 0.
19922     \global\pgf@picmaxx=0pt\relax%

```



```

19923         \global\pgf@picminx=0pt\relax%
19924         \global\pgf@picmaxy=0pt\relax%
19925         \global\pgf@picminy=0pt\relax%
19926     \fi%
19927     % Shift baseline outside:
19928     \pgf@relevantforpicturesizefalse%
19929     \pgf@process{\pgf@baseline}%
19930     \xdef\pgf@shift@baseline{\the\pgf@y}%
19931     %
19932     \pgf@process{\pgf@trimleft}%
19933     \global\advance\pgf@x by-\pgf@picminx
19934     % prepare \hskip\pgf@trimleft@final.
19935     % note that \pgf@trimleft@final is also queried
19936     % by the pgf image externalization.
19937     \xdef\pgf@trimleft@final{-\the\pgf@x}%
19938     %
19939     \pgf@process{\pgf@trimright}%
19940     \global\advance\pgf@x by-\pgf@picmaxx
19941     % prepare \hskip\pgf@trimright@final.
19942     % note that \pgf@trimright@final is also queried
19943     % by the pgf image externalization.
19944     \xdef\pgf@trimright@final{\the\pgf@x}%
19945     %
19946     \pgf@remember@layerlist@globally
19947     \endgroup%
19948     \hss%
19949     \egroup%
19950     \pgf@restore@layerlist@from@global
19951     \pgf@insertlayers%
19952     \endgroup%
19953     \pgfsys@discardpath%
19954     \endgroup%
19955     \pgfsys@endscope%
19956     \pgfsys@endpicture%
19957     \endgroup%
19958     \hss
19959 \egroup%
19960 \pgfsys@typesetpicturebox\pgfpic%
19961 \ifmode\else\endL\fi%
19962 \endgroup%
19963 }

```

130 File pgfsys-xetex-bidi.def

```

19964 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package for
19965 \def\pgfsys@shadingoutsidepgfpicture#1{%
19966   \beginL#1\endL%
19967 }
19968
19969

```

131 File picinpar-xetex-bidi.def

```

19970 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package

```



```

19971 \long\def\@makewincaption#1#2{%
19972   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
19973   \ifdim\wd\@tempboxa>\picwd
19974     {\footnotesize{\bf #1:\enspace}{#2\par}}
19975   \else
19976     \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
19977   \fi}
19978 \def\endwindow{%
19979   \global\tcd=\tcdsav
19980   \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
19981   \vbadness=10000
19982   \splittopskip=0pt
19983 %
19984 % Typeset the lines above the window
19985 %
19986 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
19987 \tcn=\tcd
19988 \loop\advance\tcn -1
19989 \setbox\fslice=\vsplit\holder to\baselineskip
19990 \prune\fslice\linewidth
19991 \topheight=0pt
19992 \ifnum\dp\fslice>\dp\wstrutbox
19993   \advance\topheight-\dp\fslice
19994   \advance\topheight\dp\wstrutbox
19995   \advance\topheight\ilg\fi
19996 \hbox to\linewidth{\box\fslice}
19997 \vskip-\topheight
19998 \ifdim\ht\holder>0pt\repeat
19999 \fi
20000 %
20001 % Now we build the boxes beside the window
20002 %
20003 \global\topheight=\tcl\baselineskip
20004 \ifnum\cumpartcl>0\global\tcl=\cumtcl
20005   \global\topheight=\vpic
20006 \fi
20007 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
20008 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
20009 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
20010 \tcn=\tcl \na=0 \nb=0
20011 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
20012 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
20013 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
20014 \ifnum\na=0\ifnum\nb=0
20015   \setbox\waslice=\vbox to\vpic{\vss}
20016   \setbox\wbslice=\vbox to\vpic{\vss}
20017   \bl=1\br=1
20018   \vskip\ilg
20019 \fi\fi
20020 %
20021 % both sides
20022 %
20023 \ifnum\na>0 \ifnum\nb>0
20024 \loop\advance\nb -1

```



```

20025 \advance\na -1
20026 \if@RTL%
20027 \setbox\bslice=\vsplit\holder to\baselineskip
20028 \prune\bslice\rtside
20029 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20030 to\rtside{\box\bslice\hfil}}
20031 \setbox\aslice=\vsplit\holder to\baselineskip
20032 \prune\aslice\lftside
20033 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20034 to\lftside{\box\aslice\hfil}}
20035 \else%
20036 \setbox\aslice=\vsplit\holder to\baselineskip
20037 \prune\aslice\lftside
20038 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20039 to\lftside{\box\aslice\hfil}}
20040 \setbox\bslice=\vsplit\holder to\baselineskip
20041 \prune\bslice\rtside
20042 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20043 to\rtside{\box\bslice\hfil}}
20044 \fi%
20045 \ifnum\nb>0\repeat
20046 \fi\fi
20047 %
20048 % only text on the left side
20049 %
20050 \ifnum\na>0
20051   \loop\advance\na -1
20052   \setbox\aslice=\vsplit\holder to\baselineskip
20053   \prune\aslice\lftside
20054   \setbox\waslice=\vbox{\unvbox\waslice\hbox
20055   to\lftside{\box\aslice\hfil}}
20056   \ifdim\ht\holder>0pt\repeat
20057 \fi
20058 %
20059 % only text on the right side
20060 %
20061 \ifnum\nb>0
20062   \loop\advance\nb -1
20063   \setbox\bslice=\vsplit\holder to\baselineskip
20064   \prune\bslice\rtside
20065   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20066   to\rtside{\box\bslice\hfil}}
20067   \ifdim\ht\holder>0pt\repeat
20068 \fi
20069 %
20070 % fixing the dimensions of the window part
20071 %
20072 \ifnum\bl=0\topheight=\ht\wbslice
20073 \else\ifnum\br=0\topheight=\ht\waslice
20074   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
20075     \else\topheight=\ht\wbslice\fi\fi\fi
20076 %
20077 % ship out the window material to the main vertical list
20078 %

```




```

20079 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
20080 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
20081 \fi\fi\fi
20082 \setbox>windowbox=\vbox{\hbox to\linewidth{%
20083 \ifnum\bl>0\box\waslice\hfill\fi%
20084 \vbox to\topheight{\hrule width\picwd heightOpt depthOpt\vskipOpt%
20085 \vfill\unvbox\picbox%
20086 \ifnum\picwd>0\vfill\fi%
20087 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
20088 \unvbox>windowbox%
20089 \loop
20090 \setbox\bslice=\vsplit\rawtext to\baselineskip
20091 \prune\bslice\linewidth
20092 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfill}}
20093 \unvbox\wbslice
20094 \ifdim\ht\rawtext>Opt
20095 \repeat
20096 }% FINITO

```

132 File plain-xetex-bidi.def

```

20097 \def\TeXeTOn{\TeXeTstate=1 }
20098 \def\TeXeTOff{\TeXeTstate=0 }
20099 \TeXeTOn
20100 \def\usebox#1{\leavevmode\copy #1\relax}
20101 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
20102 \let\bidi@o@everypar=\everypar
20103 \newtoks\bidi@n@everypar
20104 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
20105 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
20106 \let\everypar=\bidi@n@everypar
20107 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
20108 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
20109 \protected\def\hboxR{\hbox\bgroup
20110 \everyhbox{%
20111 \aftergroup\egroup
20112 \everyhbox{}}%
20113 \beginR
20114 \@hboxRconstructtrue
20115 \bgroup
20116 \aftergroup\endR
20117 \aftergroup\egroup
20118 }\hbox}
20119 \protected\def\hboxL{\hbox\bgroup
20120 \everyhbox{%
20121 \aftergroup\egroup
20122 \everyhbox{}}%
20123 \beginL
20124 \@hboxRconstructfalse
20125 \bgroup
20126 \aftergroup\endL
20127 \aftergroup\egroup
20128 }\hbox}
20129 \protected\def\vboxR{\vbox\bgroup

```



```

20130 \everyvbox{%
20131 \aftergroup\egroup
20132 \everyvbox{}}%
20133 \@RTLtrue
20134 \bgroup
20135 \aftergroup\egroup
20136 }\vbox}
20137 \protected\def\vboxL{\vbox\bgroup
20138 \everyvbox{%
20139 \aftergroup\egroup
20140 \everyvbox{}}%
20141 \@RTLfalse
20142 \bgroup
20143 \aftergroup\egroup
20144 }\vbox}
20145 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
20146 \def\endLTR{\par}
20147 \def\RTL{\par\@RTLtrue\@RTL@footnotettrue\hsize\linewidth\parshape\z@}
20148 \def\endRTL{\par}
20149 \def\setRTL{\@RTLtrue\@RTL@footnotettrue}
20150 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
20151 \let\unsetRTL=\setLTR
20152 \let\unsetLTR=\setRTL
20153 \let\LR=\LRE
20154 \let\RL=\RLE
20155 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
20156 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
20157 \let\@ensure@RL=\@ensure@RTL
20158 \let\@ensure@LR=\@ensure@LTR
20159 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20160 \let\@ensure@maindir=\@ensure@dir
20161 \def\@RTL{RTL}
20162 \def\@LTR{LTR}
20163 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
20164 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
20165 \let\@TeX\TeX
20166 \def\TeX{\@ensure@LTR{\@TeX}}
20167 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
20168 \dimen@=\dp\cc1v \unvbox\cc1v % open up \box255
20169 \ifvoid\footins\else % footnote info is present
20170 \vskip\skip\footins
20171 \footnoterule
20172 \unvbox\footins\fi
20173 \ifrggedbottom \kern-\dimen@ \vfil \fi
20174 \ifvoid\@bidi@copyins@
20175 \else
20176 \vskip\skip\@bidi@copyins@
20177 \unvbox\@bidi@copyins@
20178 \fi
20179 }
20180 \long\def\bidi@reflect@box#1{%
20181 \leavevmode
20182 \setbox\z@\hbox{#1}}%
20183 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:restore}

```



```

20184 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
20185 }
20186 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
20187 \hbox{\kern-.125em\ bidi@reflect@box{E}}\kern-.1667em \TeX}}}$}}
20188 \let\setRL=\setRTL
20189 \let\setLR=\setLTR
20190 \let\unsetRL=\setLTR
20191 \let\ bidi@sav@d@eqno=\eqno
20192 \let\ bidi@sav@d@leqno=\leqno
20193 \def\eqno{\ifnum\predisplaydirection<\z@ \ bidi@sav@d@leqno \else \ bidi@sav@d@eqno \fi}
20194 \def\leqno{\ifnum\predisplaydirection<\z@ \ bidi@sav@d@leqno \else \ bidi@sav@d@leqno \fi}
20195 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20196 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20197 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

133 File pstricks-xetex-bidi.def

```

20198 \ProvidesFile{pstricks-xetex-bidi.def}[2022/09/22 v0.6 bidi adaptations for pstricks package]
20199 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
20200 \def\endpspicture{%
20201 \ifshowgrid\ifnum\showgridp@s>0
20202 \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
20203 \pst@killglue
20204 % \global\pst@shift=\pst@shift% in fact of the following endgroup
20205 \endgroup
20206 \egroup
20207 \ifdim\wd\pst@hbox=\z@\else
20208 %\@pstrickserr{Extraneous space in the pspicture environment}%
20209 %\Type \space <return> \space to proceed.}%
20210 \fi
20211 \ht\pst@hbox=\pst@dimd
20212 \dp\pst@hbox=-\pst@dimb
20213 \setbox\pst@hbox=\hbox{%
20214 \kern-\pst@dima
20215 % Orig version -----
20216 %\ifx\pst@tempa\@empty\else
20217 %\advance\pst@dimd-\pst@dimb
20218 %\pst@dimd=\pst@tempa\pst@dimd
20219 %\advance\pst@dimd\pst@dimb
20220 %\lower\pst@dimd
20221 %\fi
20222 %----- end Orig
20223 \ifPst@shift@star\typeout{==pstricks== old behaviour of the shift option}% shift=*
20224 \advance\pst@dimd-\pst@dimb
20225 \pst@dimd=0.5\pst@dimd
20226 \else\pst@dimd-\pst@shift\fi
20227 \advance\pst@dimd\pst@dimb
20228 \lower\pst@dimd
20229 \box\pst@hbox
20230 \kern\pst@dimc}%
20231 \ifstar\setbox\pst@hbox=\hbox{\clipbox@{\z@}\fi
20232 \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
20233 \fboxsep=0pt
20234 \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi

```



```

20235 \ifmode\else\endL\fi
20236 \endgroup%
20237 \psset[pstricks]{shift=0}% reset value
20238 }
20239
20240 \bidi@patchcmd\@scalebox{%
20241 \special{x: bscale \pst@tempc \pst@tempd}%
20242 \hbox to \z@\box\pst@hbox\hss}%
20243 \special{x: escale}%
20244 }{%
20245 \if@RTL
20246 \special{x: escale}%
20247 \else
20248 \special{x: bscale \pst@tempc \pst@tempd}%
20249 \fi
20250 \hbox to \z@\box\pst@hbox\hss}%
20251 \if@RTL
20252 \special{x: bscale \pst@tempc \pst@tempd}%
20253 \else
20254 \special{x: escale}%
20255 \fi
20256 }{}{}
20257 \let\ps@@scalebox\@scalebox
20258

```

134 File quotchap-xetex-bidi.def

```

20259 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
20260 \renewcommand{\qauthor}[1]{%
20261 \par\smallskip
20262 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
20263 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
20264 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
20265 {\chapnumfont
20266 \ifnum \c@secnumdepth >\m@ne%
20267 \if@mainmatter\thechapter%
20268 \fi\fi
20269 \par\nobreak}%
20270 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
20271 \nobreak\chapterheadendvskip}}
20272 \renewcommand*{\@iprintcites}{%
20273 \vbox to\z@\{\leavevmode\copy\@quotebox\vss}
20274 \global\let\@printcites\relax}

```

135 File ragged2e-xetex-bidi.def

```

20275 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
20276 \renewcommand{\Centering}{%
20277 \ifx\\ \@raggedtwoe@savedcr
20278 \let\\ \@centercr
20279 \fi
20280 \let\@gnewline\@raggedtwoe@gnewline
20281 \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
20282 \@rightskip\CenteringRightskip

```



```

20283 \if@RTL\leftskip\else\rightskip\fi\@rightskip
20284 \parfillskip\CenteringParfillskip
20285 \parindent\CenteringParindent
20286 \@raggedtwo@spaceskiptrue
20287 \@raggedtwo@everyselectfont
20288 }
20289 \renewcommand{\RaggedLeft}{%
20290 \ifx\\ \@raggedtwo@savedcr
20291 \let\\ @centercr
20292 \fi
20293 \let@gnewline\@raggedtwo@gnewline
20294 \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
20295 \@rightskip\RaggedLeftRightskip
20296 \if@RTL\leftskip\else\rightskip\fi\@rightskip
20297 \parfillskip\RaggedLeftParfillskip
20298 \parindent\RaggedLeftParindent
20299 \@raggedtwo@spaceskiptrue
20300 \@raggedtwo@everyselectfont
20301 }
20302 \renewcommand{\RaggedRight}{%
20303 \ifx\\ \@raggedtwo@savedcr
20304 \let\\ @centercr
20305 \fi
20306 \let@gnewline\@raggedtwo@gnewline
20307 \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
20308 \@rightskip\RaggedRightRightskip
20309 \if@RTL\leftskip\else\rightskip\fi\@rightskip
20310 \parfillskip\RaggedRightParfillskip
20311 \parindent\RaggedRightParindent
20312 \@raggedtwo@spaceskiptrue
20313 \@raggedtwo@everyselectfont
20314 }
20315 \renewcommand{\justifying}{%
20316 \let\\ \@raggedtwo@savedcr
20317 \let@gnewline\@raggedtwo@saved@gnewline
20318 \if@RTL\rightskip\else\leftskip\fi\z@
20319 \@rightskip\z@
20320 \if@RTL\leftskip\else\rightskip\fi\@rightskip
20321 \parfillskip\JustifyingParfillskip
20322 \parindent\JustifyingParindent
20323 \@raggedtwo@spaceskipfalse
20324 \@raggedtwo@everyselectfont
20325 }
20326 \def\@raggedtwo@raggedrightboxes@opt{%
20327 \renewcommand{\@arrayparboxrestore}{%
20328 \let\if@nobreak\iffalse
20329 \let\if@noskipsec\iffalse
20330 \let\par\@@par
20331 \let\-\@dischyph
20332 \let'\@acci\let\` \@accii\let\=\@acciii
20333 \parskip\z@skip
20334 \everypar{}%
20335 \linewidth\hsize
20336 \@totalleftmargin\z@

```



```

20337 \if@RTL
20338 \RaggedLeft
20339 \else
20340 \RaggedRight
20341 \fi
20342 \lineskip\normallineskip
20343 \baselineskip\normalbaselineskip
20344 \sloppy}%
20345 \let\@raggedtwoe@raggedrightboxes@opt\relax
20346 }
20347 \def\@raggedtwoe@document@opt{%
20348 \AtBeginDocument{\@raggedtwoe@abdhook}%
20349 \@raggedtwoe@raggedrightboxes@opt
20350 \@raggedtwoe@footmisctrue
20351 \let\@raggedtwoe@document@opt\relax
20352 }
20353 \def\@raggedtwoe@abdhook{%
20354 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
20355 right to left documents and '\string\RaggedRight' for left
20356 to right documents}%
20357 \if@RTL
20358 \RaggedLeft
20359 \else
20360 \RaggedRight
20361 \fi
20362 \@ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
20363 \let\@raggedtwoe@abdhook\relax
20364 }
20365 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
20366 \@raggedtwoe@raggedrightboxes@opt
20367 }{}
20368 \@ifpackagewith{ragged2e}{document}{%
20369 \@raggedtwoe@document@opt
20370 }{}
20371 \let\origin@RaggedLeft=\RaggedLeft
20372 \let\origin@RaggedRight=\RaggedRight
20373 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
20374 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

136 File rapport1-xetex-bidi.def

```

20375 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
20376 \renewenvironment{theindex}{%
20377 \if@twocolumn
20378 \@restonecolfalse
20379 \else
20380 \@restonecoltrue
20381 \fi
20382 \columnseprule \z@
20383 \columnsep 35\p@
20384 \twocolumn[\@makeschapterhead{\indexname}]%
20385 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20386 \thispagestyle{plain}\parindent\z@
20387 \parskip\z@ \@plus .3\p@\relax

```



```

20388 \let\item\@idxitem
20389 }{%
20390 \if@restonecol\onecolumn\else\clearpage\fi}
20391 \renewcommand*{head@style}{%
20392   \interlinepenalty \@M
20393   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20394   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20395 \if@titlepage
20396 \renewenvironment{abstract}{%
20397   \titlepage
20398   \null\vfil
20399   \section*{\SectFont\abstractname}%
20400   \noindent\ignorespaces}
20401   {\par\vfil\null\endtitlepage}
20402 \else
20403 \renewenvironment{abstract}{%
20404   \if@twocolumn
20405     \section*{\abstractname}%
20406   \else
20407     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20408     \section*{\small\SectFont\abstractname}%
20409     \noindent\ignorespaces
20410     \fi}
20411   {\if@twocolumn\else\par\egroup\fi}
20412 \fi
20413 \renewcommand*\@regtocline[3]{%
20414   \ifnum #1>\c@tocdepth
20415   \else
20416     \vskip\z@\@plus.2\p@
20417     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20418     \if@RTL\rightskip\else\leftskip\fi\unitindent
20419     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20420     \parfillskip\z@
20421     \@tempdima\unitindent
20422     \parindent\z@
20423     \leavevmode
20424     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
20425     \hskip 1em \nobreak{\slshape #3}\par
20426     }%
20427   \fi}
20428 \if@oldtoc
20429 \renewcommand*\l@part[2]{%
20430   \ifnum \c@tocdepth >-2\relax
20431     \addpenalty{-\@highpenalty}%
20432     \addvspace{2.25em \@plus\p@}%
20433     \begingroup
20434       \setlength\@tempdima{3em}%
20435       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20436       \parfillskip -\@pnumwidth
20437       {\leavevmode
20438         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20439         \nobreak
20440         \global\@nobreaktrue
20441         \everypar{\global\@nobreakfalse\everypar{}}%

```



```

20442 \endgroup
20443 \fi}
20444 \else
20445 \renewcommand*\l@part{%
20446 \ifnum \c@tocdepth >-2\relax
20447 \addpenalty{-\@highpenalty}%
20448 \addvspace{2.25em \@plus \p@}%
20449 \@regtocline{0}%
20450 \fi}
20451 \fi
20452 \if@oldtoc
20453 \renewcommand*\l@chapter[2]{%
20454 \addpenalty{-\@highpenalty}%
20455 \vskip 1.0em \@plus\p@
20456 \setlength\@tempdima{1.5em}%
20457 \begingroup
20458 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20459 \parfillskip -\@pnumwidth
20460 \leavevmode \bfseries
20461 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20462 \hskip -\if@RTL\rightskip\else\leftskip\fi
20463 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20464 \penalty\@highpenalty
20465 \endgroup}
20466 \else
20467 \renewcommand*\l@chapter{\@regtocline{0}}
20468 \fi
20469 \renewcommand*\left@footnoterule{%
20470 \kern-3\p@
20471 \kern.5\baselineskip
20472 \hrule\@width\unitindent
20473 \kern.4\baselineskip
20474 }
20475 \renewcommand*\right@footnoterule{%
20476 \kern-3\p@
20477 \kern.5\baselineskip
20478 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20479 \kern.4\baselineskip}
20480 \renewenvironment{thebibliography}[1]
20481 {\chapter*\bibname}%
20482 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20483 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20484 \bidi@thebibliography@font@hook%
20485 \list{\@biblabel{\@arabic\c@enumiv}}%
20486 {\settowidth\labelwidth{\@biblabel{#1}}%
20487 \leftmargin\labelwidth
20488 \advance\leftmargin\labelsep
20489 \@openbib@code
20490 \usecounter{enumiv}%
20491 \let\p@enumiv\@empty
20492 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20493 \sloppy\clubpenalty4000\widowpenalty4000%
20494 \sfcode`. \@m}
20495 {\def\@noitemerr

```




```

20496     {\@latex@warning{Empty `thebibliography' environment}}%
20497     \endlist}
20498 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20499 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20500 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20501 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20502 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20503 \renewcommand*\theequation{%
20504   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20505 \renewcommand*\thefigure{%
20506   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
20507 \renewcommand*\thetable{%
20508   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
20509 \if@titlepage
20510 \renewcommand*\TitleFont{\rmfamily}
20511 \renewcommand*\maketitle{%
20512   \begin{titlepage}%
20513     \let\footnotesize\small
20514     \let\right@footnoterule\relax
20515     \let\left@footnoterule\relax
20516     \let\textwidth@footnoterule\relax
20517     \let \footnote \thanks
20518     \long\def\@makefnmark##1{\parindent\z@
20519       \def\labelitemi{\textendash}\@revlabeltrue
20520       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20521     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20522     \if@compatibility\setcounter{page}{0}\fi
20523     \null\vfil
20524     \vskip 60\p@
20525     \begin{center}%
20526       \TitleFont
20527       {\LARGE \def\{\{\penalty -\@M}
20528         \if@allcaps
20529           \expandafter\uc@nothanks\@title\thanks\relax
20530         \else
20531           \@title
20532         \fi\par}%
20533       \vskip 3em%
20534       {\large
20535         \lineskip .75em \parindent\z@
20536         \begin{tabular}[t]{c}%
20537           \if@allcaps
20538             \expandafter\uc@authornothanks\@author\and\relax
20539           \else
20540             \@author
20541           \fi
20542         \end{tabular}\par}%
20543       \vskip 1.5em%
20544       {\large
20545         \if@allcaps
20546           \uppercase\expandafter{\@date}%
20547         \else
20548           \@date
20549         \fi\par}%

```



```

20550     \end{center}\par
20551     \@thanks
20552     \vfil\null
20553 \end{titlepage}%
20554 \setcounter{footnote}{0}%
20555 \global\let\thanks\relax
20556 \global\let\maketitle\relax
20557 \global\let\@thanks\@empty
20558 \global\let\@author\@empty
20559 \global\let\@title\@empty
20560 \global\let\@date\@empty
20561 \global\let\title\relax
20562 \global\let\author\relax
20563 \global\let\date\relax
20564 \global\let\and\relax
20565 }
20566 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20567 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20568     \futurelet\@tempa\uc@ax}
20569 \def\uc@ax{%
20570     \ifx\@tempa\relax
20571     \else
20572         \\\andname \\\expandafter\uc@authornothanks
20573     \fi}
20574 \def\uc@tx{\ifx\@tempa\relax
20575     \else \expandafter\uc@ty \fi}
20576 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20577 \else
20578 \renewcommand*\maketitle{\par
20579     \begingroup
20580     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20581     \def\@makefnmark{\rlap{%
20582         \@textsuperscript{\normalfont\@thefnmark}}}%
20583     \long\def\@makefntext{\@xmakefntext{%
20584         \@textsuperscript{\normalfont\@thefnmark}}}%
20585     \if@twocolumn
20586         \ifnum \col@number=\@one
20587             \@maketitle
20588         \else
20589             \twocolumn[\@maketitle]%
20590         \fi
20591     \else
20592         \newpage
20593         \global\@topnum\z@
20594         \@maketitle
20595     \fi
20596     \thispagestyle{plain}\@thanks
20597 \endgroup
20598 \setcounter{footnote}{0}%
20599 \global\let\thanks\relax
20600 \global\let\maketitle\relax
20601 \global\let\@maketitle\relax
20602 \global\let\@thanks\@empty
20603 \global\let\@author\@empty

```



```

20604 \global\let\@title\@empty
20605 \global\let\@date\@empty
20606 \global\let\title\relax
20607 \global\let\author\relax
20608 \global\let\date\relax
20609 \global\let\and\relax
20610 }
20611 \def\@maketitle{%
20612 \newpage
20613 \null
20614 \vskip 2em%
20615 \begin{center}%
20616 \let \footnote \thanks
20617 {\LARGE \TitleFont \@title \par}%
20618 \vskip 1.5em%
20619 {\large \TitleFont
20620 \lineskip .5em%
20621 \begin{tabular}[t]{c}%
20622 \@author
20623 \end{tabular}\par}%
20624 \vskip 1em%
20625 {\large \TitleFont \@date}%
20626 \end{center}%
20627 \par
20628 \vskip 1.5em}
20629 \fi

```

137 File rapport3-xetex-bidi.def

```

20630 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
20631 \renewenvironment{theindex}{%
20632 \if@twocolumn
20633 \@restonecolfalse
20634 \else
20635 \@restonecoltrue
20636 \fi
20637 \columnseprule \z@
20638 \columnsep 35\p@
20639 \twocolumn[\@makeschapterhead{\indexname}]%
20640 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20641 \thispagestyle{plain}\parindent\z@
20642 \parskip\z@ \@plus .3\p@\relax
20643 \let\item\@idxitem
20644 }{%
20645 \if@restonecol\onecolumn\else\clearpage\fi}
20646 \if@titlepage
20647 \renewcommand*\TitleFont{\rmfamily}
20648 \renewcommand*\maketitle{%
20649 \begin{titlepage}%
20650 \let\footnotesize\small
20651 \let\right@footnoterule\relax
20652 \let\left@footnoterule\relax
20653 \let\textwidth@footnoterule\relax
20654 \let \footnote \thanks

```



```

20655 \let \LTRfootnote \LTRthanks
20656 \let \RTLfootnote \RTLthanks
20657 \long\def\@makefntext##1{\parindent\z@
20658 \def\labelitemi{\textendash}\@revlabeltrue
20659 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20660 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20661 \if@compatibility\setcounter{page}{0}\fi
20662 \null\vfil
20663 \vskip 60\p@
20664 \begin{center}%
20665 \TitleFont
20666 {\LARGE \def\{\penalty -\@M}
20667 \if@allcaps
20668 \expandafter\uc@nothanks\@title\thanks\relax
20669 \else
20670 \@title
20671 \fi\par}%
20672 \vskip 3em%
20673 {\large
20674 \lineskip .75em \parindent\z@
20675 \begin{tabular}[t]{c}%
20676 \if@allcaps
20677 \expandafter\uc@authornothanks\@author\and\relax
20678 \else
20679 \@author
20680 \fi
20681 \end{tabular}\par}%
20682 \vskip 1.5em%
20683 {\large
20684 \if@allcaps
20685 \uppercase\expandafter{\@date}%
20686 \else
20687 \@date
20688 \fi\par}%
20689 \end{center}\par
20690 \@thanks
20691 \vfil\null
20692 \end{titlepage}%
20693 \setcounter{footnote}{0}%
20694 \global\let\thanks\relax
20695 \global\let\LTRthanks\relax
20696 \global\let\RTLthanks\relax
20697 \global\let\maketitle\relax
20698 \global\let\@thanks\@empty
20699 \global\let\@author\@empty
20700 \global\let\@title\@empty
20701 \global\let\@date\@empty
20702 \global\let\title\relax
20703 \global\let\author\relax
20704 \global\let\date\relax
20705 \global\let\and\relax
20706 }
20707 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20708 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax

```



```

20709     \futurelet \@tempa\uc@ax}
20710 \def\uc@ax{%
20711     \ifx\@tempa\relax
20712     \else
20713     \ \andname \ \expandafter\uc@authornothanks
20714     \fi}
20715 \def\uc@tx{\ifx\@tempa\relax
20716     \else \expandafter\uc@ty \fi}
20717 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20718 \else
20719 \renewcommand*\maketitle{\par
20720 \begingroup
20721     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20722     \def\@makefnmark{\rlap{%
20723         \@textsuperscript{\normalfont\@thefnmark}}}%
20724     \long\def\@makefntext{\@xmakefntext{%
20725         \@textsuperscript{\normalfont\@thefnmark}}}%
20726     \if@twocolumn
20727     \ifnum \col@number=\@ne
20728     \ @maketitle
20729     \else
20730     \twocolumn[\@maketitle]%
20731     \fi
20732     \else
20733     \newpage
20734     \global\@topnum\z@
20735     \ @maketitle
20736     \fi
20737     \thispagestyle{plain}\@thanks
20738 \endgroup
20739 \setcounter{footnote}{0}%
20740 \global\let\thanks\relax
20741 \global\let\LTRthanks\relax
20742 \global\let\RTLthanks\relax
20743 \global\let\maketitle\relax
20744 \global\let\@maketitle\relax
20745 \global\let\@thanks\@empty
20746 \global\let\@author\@empty
20747 \global\let\@title\@empty
20748 \global\let\@date\@empty
20749 \global\let\title\relax
20750 \global\let\author\relax
20751 \global\let\date\relax
20752 \global\let\and\relax
20753 }
20754 \def\@maketitle{%
20755     \newpage
20756     \null
20757     \vskip 2em%
20758 \if@titlecentered
20759     \begin{center}%
20760         \let \footnote \thanks
20761         \let \LTRfootnote \LTRthanks
20762         \let \RTLfootnote \RTLthanks

```



```

20763     {\LARGE \TitleFont \@title \par}%
20764     \vskip 1.5em%
20765     {\large \TitleFont
20766         \lineskip .5em%
20767         \begin{tabular}[t]{c}%
20768             \@author
20769         \end{tabular}\par}%
20770     \vskip 1em%
20771     {\large \TitleFont \@date}%
20772 \end{center}%
20773 \else
20774     {\LARGE \TitleFont \headstyle \@title \par} \vskip 1.5em
20775     {\large \TitleFont \lineskip .5em \tabcolsep\z@
20776         \def\and{%% \begin{tabular} has already started
20777             \end{tabular}\hskip 1em plus .17fil
20778             \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
20779             \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
20780     \vskip 1em {\large \TitleFont \@date}
20781 \fi
20782 \par
20783 \vskip 1.5em}
20784 \fi
20785 \renewcommand*\@regtocline[3]{%
20786 \ifnum #1>\c@tocdepth
20787 \else
20788     \vskip\z@\@plus.2\p@
20789     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20790     \ifRTL\righskip\else\leftskip\fi\unitindent
20791     \ifRTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
20792     \parfillskip\z@
20793     \@tempdima\unitindent
20794     \parindent\z@
20795     \leavevmode
20796     \hbox{} \hskip -\ifRTL\righskip\else\leftskip\fi\relax#2\nobreak
20797     \hskip 1em \nobreak{\slshape #3}\par
20798     }%
20799 \fi}
20800 \if@oldtoc
20801 \renewcommand*\l@part[2]{%
20802 \ifnum \c@tocdepth >-2\relax
20803     \addpenalty{-\@highpenalty}%
20804     \addvspace{2.25em \@plus\p@}%
20805     \begingroup
20806     \setlength\@tempdima{3em}%
20807     \parindent \z@ \ifRTL\leftskip\else\righskip\fi \@pnumwidth
20808     \parfillskip -\@pnumwidth
20809     {\leavevmode
20810     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20811     \nobreak
20812     \global\@nobreaktrue
20813     \everypar{\global\@nobreakfalse\everypar{}}%
20814     \endgroup
20815 \fi}
20816 \else

```



```

20817 \renewcommand*\l@part{%
20818 \ifnum \c@tocdepth >-2\relax
20819 \addpenalty{-\@highpenalty}%
20820 \addvspace{2.25em \@plus \p@}%
20821 \@regtocoline{0}%
20822 \fi}
20823 \fi
20824 \if@oldtoc
20825 \renewcommand*\l@chapter[2]{%
20826 \addpenalty{-\@highpenalty}%
20827 \vskip 1.0em \@plus\p@
20828 \setlength\@tempdima{1.5em}%
20829 \begingroup
20830 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20831 \parfillskip -\@pnumwidth
20832 \leavevmode \bfseries
20833 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20834 \hskip -\if@RTL\rightskip\else\leftskip\fi
20835 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20836 \penalty\@highpenalty
20837 \endgroup}
20838 \else
20839 \renewcommand*\l@chapter{\@regtocoline{0}}
20840 \fi
20841 \renewcommand*\head@style{%
20842 \interlinepenalty \@M
20843 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20844 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsizel relax}
20845 \if@titlepage
20846 \renewenvironment{abstract}{%
20847 \titlepage
20848 \null\vfil
20849 \section*\SectFont\abstractname}%
20850 \noindent\ignorespaces}
20851 {\par\vfil\null\endtitlepage}
20852 \else
20853 \renewenvironment{abstract}{%
20854 \if@twocolumn
20855 \section*\abstractname}%
20856 \else
20857 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20858 \section*\small\SectFont\abstractname}%
20859 \noindent\ignorespaces
20860 \fi}
20861 {\if@twocolumn\else\par\egroup\fi}
20862 \fi
20863 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20864 \renewcommand*\thesubsection{\thesubsection\@SepMark\@arabic\csubsection}
20865 \renewcommand*\thesubsubsection{\thesubsubsection\@SepMark\@arabic\csubsubsection}
20866 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\cparagraph}
20867 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\csubparagraph}
20868 \renewcommand*\thefigure{%
20869 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\cfigure}
20870 \renewcommand*\thetable{%

```



```

20871 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20872 \renewcommand*\theequation{%
20873 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@equation}
20874 \renewenvironment{thebibliography}[1]
20875 {\chapter*{\bibname}%
20876 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20877 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20878 \bidi@thebibliography@font@hook%
20879 \list{\@biblabel{\@arabic\c@enumiv}}%
20880 {\settowidth\labelwidth{\@biblabel{#1}}%
20881 \leftmargin\labelwidth
20882 \advance\leftmargin\labelsep
20883 \@openbib@code
20884 \usecounter{enumiv}}%
20885 \let\p@enumiv\@empty
20886 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20887 \sloppy\clubpenalty4000\widowpenalty4000%
20888 \sfcode\.\@m}
20889 {\def\@noitemerr
20890 {\@latex@warning{Empty `thebibliography' environment}}}%
20891 \endlist}
20892 \renewcommand*\left@footnoterule{%
20893 \kern-3\p@
20894 \kern.5\baselineskip
20895 \hrule\@width\unitindent
20896 \kern.4\baselineskip
20897 }
20898 \renewcommand*\right@footnoterule{%
20899 \kern-3\p@
20900 \kern.5\baselineskip
20901 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20902 \kern.4\baselineskip}
20903 \renewcommand*\head@style{%
20904 \interlinepenalty \@M
20905 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20906 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

138 File refrep-xetex-bidi.def

```

20907 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
20908 \if@titlepage
20909 \renewcommand\maketitle{\begin{titlepage}%
20910 \let\footnotesize\small
20911 \let\right@footnoterule\relax
20912 \let\left@footnoterule\relax
20913 \let\textwidth@footnoterule\relax
20914 \let\footnote\thanks
20915 \let\LTRfootnote\LTRthanks
20916 \let\RTLfootnote\RTLthanks
20917 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20918 \def\@makefnmark%
20919 {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20920 \long\def\@makefntext##1{%
20921 \setpar{\@par

```




```

20922         \@tempdima = \hspace
20923         \advance\@tempdima -1em
20924         \parshape \@ne 1em \@tempdima}%
20925     \par\parindent 1em \noindent
20926     \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20927 \null\vfil
20928 \vskip 60\p@
20929 \begin{center}%
20930     {\LARGE \@title \par}%
20931     \vskip 3em%
20932     {\large
20933     \lineskip .75em%
20934     \begin{tabular}[t]{c}%
20935         \@author
20936     \end{tabular}\par}%
20937     \vskip 1.5em%
20938     {\large \@date \par}%           % Set date in \large size.
20939 \end{center}\par
20940 \@thanks
20941 \vfil\null
20942 \end{titlepage}%
20943 \setcounter{footnote}{0}%
20944 \global\let\thanks\relax
20945 \global\let\LTRthanks\relax
20946 \global\let\RTLthanks\relax
20947 \global\let\maketitle\relax
20948 \global\let\@thanks\@empty
20949 \global\let\@author\@empty
20950 \global\let\@date\@empty
20951 \global\let\@title\@empty
20952 \global\let\title\relax
20953 \global\let\author\relax
20954 \global\let\date\relax
20955 \global\let\and\relax
20956 }
20957 \else
20958 \renewcommand\maketitle{\par
20959     \begingroup
20960     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20961     \def\@makefnmark%
20962         {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20963     \long\def\@makefntext##1{%
20964         \@setpar{\@par
20965             \@tempdima = \hspace
20966             \advance\@tempdima -1em
20967             \parshape \@ne 1em \@tempdima}%
20968         \par\parindent 1em \noindent
20969         \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20970     \iftwocolumn
20971         \ifnum \col@number=\@ne
20972             \@maketitle
20973         \else
20974             \twocolumn[\@maketitle]%
20975         \fi

```



```

20976     \else
20977     \newpage
20978     \global\@topnum\z@    % Prevents figures from going at top of page.
20979     \@maketitle
20980     \fi
20981     \thispagestyle{empty}\@thanks
20982 \endgroup
20983 \setcounter{footnote}{0}%
20984 \global\let\thanks\relax
20985 \global\let\LTRthanks\relax
20986 \global\let\RTLthanks\relax
20987 \global\let\maketitle\relax
20988 \global\let\@maketitle\relax
20989 \global\let\@thanks\@empty
20990 \global\let\@author\@empty
20991 \global\let\@date\@empty
20992 \global\let\@title\@empty
20993 \global\let\title\relax
20994 \global\let\author\relax
20995 \global\let\date\relax
20996 \global\let\and\relax
20997 }
20998 \def\@maketitle{%
20999     \newpage
21000     \null
21001     \longthickrule\vskip1.5em%
21002     \let \footnote \thanks
21003     \let \LTRfootnote \LTRthanks
21004     \let \RTLfootnote \RTLthanks
21005     {\secshape \parskip\z@ \parindent\z@
21006     \Large\bfseries \@title \par}%
21007     \vskip1.5em\longthickrule\vskip1.5em%
21008     {\normalsize
21009     \lineskip .5em%
21010     \begin{flushright}%
21011     {\slshape\@author\par}
21012     \vskip 1em%
21013     {\@date}%
21014     \end{flushright}\par}%
21015     \vskip 1.5em}
21016 \fi
21017 \renewcommand*\l@part[2]{%
21018 \ifnum \c@tocdepth >-2\relax
21019 \addpenalty{-\@highpenalty}%
21020 \addvspace{2.25em \@plus\p@}%
21021 \begingroup
21022 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21023 \parfillskip -\@pnumwidth
21024 {\leavevmode
21025 \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
21026 \nobreak
21027 \global\@nobreaktrue
21028 \everypar{\global\@nobreakfalse\everypar{}}%
21029 \endgroup

```



```

21030 \fi}
21031 \renewcommand*\l@chapter[2]{%
21032 \ifnum \c@tocdepth >\m@ne
21033 \addpenalty{-\@highpenalty}%
21034 \vskip 1.0em \plus\p@
21035 \setlength\@tempdima{1.5em}%
21036 \begingroup
21037 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21038 \parfillskip -\@pnumwidth
21039 \leavevmode \bfseries
21040 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21041 \hskip -\if@RTL\rightskip\else\leftskip\fi
21042 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21043 \penalty\@highpenalty
21044 \endgroup
21045 \fi}
21046 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
21047 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
21048 \hyphenpenalty=2000}
21049 \renewcommand\left@footnoterule{%
21050 \kern-3\p@
21051 \hrule\@width.4\columnwidth
21052 \kern 2.6\p@}
21053 \renewcommand\right@footnoterule{%
21054 \kern-3\p@
21055 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21056 \kern2.6\p@}
21057 \renewcommand\theequation
21058 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21059 \renewcommand\thefigure
21060 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21061 \renewcommand\thetable%
21062 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21063 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
21064 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21065 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
21066 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21067 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21068 \renewenvironment{thebibliography}[1]
21069 {\chapter*\bibname
21070 \mkboth{\bibname}{\bibname}}%
21071 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21072 \bidi@thebibliography@font@hook%
21073 \list{\@biblabel{\@arabic\c@enumiv}}%
21074 {\settowidth\labelwidth{\@biblabel{#1}}%
21075 \leftmargin\labelwidth
21076 \advance\leftmargin\labelsep
21077 \openbib@code
21078 \usecounter{enumiv}}%
21079 \let\p@enumiv\@empty
21080 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21081 \sloppy
21082 \clubpenalty4000
21083 \clubpenalty \clubpenalty

```



```

21084         \widowpenalty4000%
21085         \sfcode`\.=\@m}
21086     {\def\@noitemerr
21087         {\@latex@warning{Empty `thebibliography' environment}}}%
21088         \endlist}

```

139 File report-xetex-bidi.def

```

21089 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report cl
21090 \renewenvironment{theindex}
21091     {\if@twocolumn
21092         \@restonecolfalse
21093         \else
21094             \@restonecoltrue
21095         \fi
21096         \columnseprule \z@
21097         \columnsep 35\p@
21098         \twocolumn[\@makeschapterhead{\indexname}]%
21099         \@mkboth{\MakeUppercase\indexname}%
21100                 {\MakeUppercase\indexname}%
21101         \thispagestyle{plain}\parindent\z@
21102         \parskip\z@ \@plus .3\p@\relax
21103         \let\item\@idxitem}
21104     {\if@restonecol\onecolumn\else\clearpage\fi}
21105 \if@titlepage
21106 \renewcommand\maketitle{\begin{titlepage}%
21107 \let\footnotesize\small
21108 \let\right@footnoterule\relax
21109 \let\left@footnoterule\relax
21110 \let\textwidth@footnoterule\relax
21111 \let \footnote \thanks
21112 \let \LTRfootnote \LTRthanks
21113 \let \RTLfootnote \RTLthanks
21114 \null\vfil
21115 \vskip 60\p@
21116 \begin{center}%
21117     {\LARGE \@title \par}%
21118     \vskip 3em%
21119     {\large
21120         \lineskip .75em%
21121         \begin{tabular}[t]{c}%
21122             \@author
21123         \end{tabular}\par}%
21124     \vskip 1.5em%
21125     {\large \@date \par}%           % Set date in \large size.
21126 \end{center}\par
21127 \@thanks
21128 \vfil\null
21129 \end{titlepage}%
21130 \setcounter{footnote}{0}%
21131 \global\let\thanks\relax
21132 \global\let\LTRthanks\relax
21133 \global\let\RTLthanks\relax
21134 \global\let\maketitle\relax

```



```

21135 \global\let\@thanks\@empty
21136 \global\let\@author\@empty
21137 \global\let\@date\@empty
21138 \global\let\@title\@empty
21139 \global\let\title\relax
21140 \global\let\author\relax
21141 \global\let\date\relax
21142 \global\let\and\relax
21143 }
21144 \else
21145 \renewcommand\maketitle{\par
21146 \begingroup
21147 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21148 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21149 \long\def\@makefntext##1{\parindent 1em\noindent
21150 \hb@xt@1.8em{%
21151 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
21152 \if@twocolumn
21153 \ifnum \col@number=\@ne
21154 \@maketitle
21155 \else
21156 \twocolumn[\@maketitle]%
21157 \fi
21158 \else
21159 \newpage
21160 \global\@topnum\z@ % Prevents figures from going at top of page.
21161 \@maketitle
21162 \fi
21163 \thispagestyle{plain}\@thanks
21164 \endgroup
21165 \setcounter{footnote}{0}%
21166 \global\let\thanks\relax
21167 \global\let\LTRthanks\relax
21168 \global\let\RTLthanks\relax
21169 \global\let\maketitle\relax
21170 \global\let\@maketitle\relax
21171 \global\let\@thanks\@empty
21172 \global\let\@author\@empty
21173 \global\let\@date\@empty
21174 \global\let\@title\@empty
21175 \global\let\title\relax
21176 \global\let\author\relax
21177 \global\let\date\relax
21178 \global\let\and\relax
21179 }
21180 \def\@maketitle{%
21181 \newpage
21182 \null
21183 \vskip 2em%
21184 \begin{center}%
21185 \let \footnote \thanks
21186 \let \LTRfootnote \LTRthanks
21187 \let \RTLfootnote \RTLthanks
21188 {\LARGE \@title \par}%

```



```

21189 \vskip 1.5em%
21190 {\large
21191 \lineskip .5em%
21192 \begin{tabular}[t]{c}%
21193 \author
21194 \end{tabular}\par}%
21195 \vskip 1em%
21196 {\large \@date}%
21197 \end{center}%
21198 \par
21199 \vskip 1.5em}
21200 \fi
21201 \renewcommand*\l@part[2]{%
21202 \ifnum \c@tocdepth >-2\relax
21203 \addpenalty{-\@highpenalty}%
21204 \addvspace{2.25em \@plus\p@}%
21205 \setlength\@tempdima{3em}%
21206 \begingroup
21207 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21208 \parfillskip -\@pnumwidth
21209 {\leavevmode
21210 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21211 \nobreak
21212 \global\@nobreaktrue
21213 \everypar{\global\@nobreakfalse\everypar{}}%
21214 \endgroup
21215 \fi}
21216 \renewcommand*\l@chapter[2]{%
21217 \ifnum \c@tocdepth >\m@ne
21218 \addpenalty{-\@highpenalty}%
21219 \vskip 1.0em \@plus\p@
21220 \setlength\@tempdima{1.5em}%
21221 \begingroup
21222 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21223 \parfillskip -\@pnumwidth
21224 \leavevmode \bfseries
21225 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21226 \hskip -\if@RTL\rightskip\else\leftskip\fi
21227 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21228 \penalty\@highpenalty
21229 \endgroup
21230 \fi}
21231 \renewcommand\left@footnoterule{%
21232 \kern-3\p@
21233 \hrule\@width.4\columnwidth
21234 \kern2.6\p@}
21235 \renewcommand\right@footnoterule{%
21236 \kern-3\p@
21237 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21238 \kern2.6\p@}
21239 \renewcommand\theequation
21240 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21241 \renewcommand \thefigure
21242 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}

```



```

21243 \renewcommand \thetable
21244     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21245 \renewcommand \thechapter {\@arabic\c@chapter}
21246 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
21247 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21248 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
21249 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21250 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21251 \def\@makechapterhead#1{%
21252     \vspace*{50\p@}%
21253     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
21254         \ifnum \c@secnumdepth >\m@ne
21255             \huge\bfseries \@chapapp\space \thechapter
21256             \par\nobreak
21257             \vskip 20\p@
21258         \fi
21259         \interlinepenalty\@M
21260         \Huge \bfseries #1\par\nobreak
21261         \vskip 40\p@
21262     }}
21263 \def\@makeschapterhead#1{%
21264     \vspace*{50\p@}%
21265     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
21266         \normalfont
21267         \interlinepenalty\@M
21268         \Huge \bfseries #1\par\nobreak
21269         \vskip 40\p@
21270     }}
21271 \renewenvironment{thebibliography}[1]
21272     {\chapter*{\bibname}%
21273         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21274         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21275         \bidi\@thebibliography@font@hook%
21276         \list{\@biblabel{\@arabic\c@enumiv}}%
21277             {\settowidth\labelwidth{\@biblabel{#1}}%
21278             \leftmargin\labelwidth
21279             \advance\leftmargin\labelsep
21280             \@openbib@code
21281             \usecounter{enumiv}%
21282             \let\p@enumiv\@empty
21283             \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21284         \sloppy
21285         \clubpenalty4000
21286         \@clubpenalty \clubpenalty
21287         \widowpenalty4000%
21288         \sfcode\.\@m}
21289     {\def\@noitemerr
21290         {\@latex@warning{Empty `thebibliography' environment}}%
21291         \endlist}

```

140 File rotating-xetex-bidi.def

```

21292 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
21293 \def\end@rotfloat{%

```



```

21294 \end{minipage}\end{lrbox}%
21295 \stepcounter{r@tfl@t}%
21296 \rot@label{RF\ther@tfl@t}%
21297 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21298 \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
21299 \rot@mess@toks\expandafter{\@tempa}
21300 \wd\rot@float@box\z@
21301 \ht\rot@float@box\z@
21302 \dp\rot@float@box\z@
21303 \vboxL to \textheight{%
21304 \setkeys{Grot}{units=360}%
21305 \if@rot@twoside
21306 \else
21307 \let\R@@page\rot@LR
21308 \fi
21309 \ifthenelse{\isodd{\R@@page}}{%
21310 \if@rot@twoside
21311 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21312 \fi
21313 \vfill
21314 @@line{%
21315 \hskip\rotFPtop
21316 \rotatebox{90}{\box\rot@float@box}%
21317 \hskip\rotFPbot
21318 }%
21319 }{%
21320 \if@rot@twoside
21321 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21322 \fi
21323 @@line{%
21324 \hskip\rotFPbot
21325 \rotatebox{-90}{\box\rot@float@box}%
21326 \hskip\rotFPtop
21327 }%
21328 \vfill
21329 }%
21330 \rot@message{\the\rot@mess@toks}
21331 }%
21332 \end@float
21333 }
21334 \let\endsidewaysfigure\end@rotfloat
21335 \let\endsidewaystable\end@rotfloat
21336 \def\end@rotdblfloat{%
21337 \end{minipage}\end{lrbox}%
21338 \stepcounter{r@tfl@t}%
21339 \rot@label{RF\ther@tfl@t}%
21340 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21341 \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
21342 \rot@mess@toks\expandafter{\@tempa}
21343 \@tempdima\ht\rot@float@box
21344 \advance\@tempdima by \dp\rot@float@box
21345 \wd\rot@float@box\z@
21346 \ht\rot@float@box\z@
21347 \dp\rot@float@box\z@

```




```

21348 \vboxL to \textheight{%
21349   \setkeys{Grot}{units=360}%
21350   \if@rot@twoside
21351   \else
21352     \let\R@@page\rot@LR
21353   \fi
21354   \ifthenelse{\isodd{\R@@page}}{%
21355     \ifrot@messages
21356     \if@rot@twoside
21357     \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}}%
21358 \fi
21359   \fi
21360   \vfill
21361   \@@line{%
21362     \hskip\rotFPtop
21363     \rotatebox{90}{\box\rot@float@box}%
21364     \hskip\rotFPbot
21365   }%
21366 }{%
21367   \ifrot@messages
21368   \if@rot@twoside
21369   \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}}%
21370 \fi
21371   \fi%
21372   \@@line{%
21373     \hskip\rotFPbot
21374     \rotatebox{-90}{\box\rot@float@box}%
21375     \hskip\rotFPtop
21376   }%
21377   \vfill
21378 }%
21379   \rot@message{\the\rot@mess@toks}%
21380 }%
21381 \end@dblfloat
21382 }
21383 \def\turn#1{%
21384   \Grot@setangle{#1}%
21385   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21386 \def\endturn{%
21387   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21388   \unskip\color@endbox
21389   \Grot@x\z@
21390   \Grot@y\z@
21391   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21392 }
21393 \def\rotate#1{%
21394   \Grot@setangle{#1}%
21395   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21396 \def\endrotate{%
21397   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21398   \unskip\color@endbox
21399   \Grot@x\z@
21400   \Grot@y\z@
21401   \wd0\z@\dp0\z@\ht0\z@

```



```

21402 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21403 }
21404 \def\turnbox#1#2{%
21405 \Grot@setangle{#1}%
21406 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
21407 \Grot@x\z@\Grot@y\z@
21408 \wd0\z@\dp0\z@\ht0\z@
21409 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21410 }
21411 \def\sideways{%
21412 \Grot@setangle{90}%
21413 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21414 \def\endsideways{%
21415 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21416 \unskip\color@endbox
21417 \Grot@x\z@
21418 \Grot@y\z@
21419 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21420 }

```

141 File scartcl-xetex-bidi.def

```

21421 \ProvidesFile{scartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scartcl class f
21422 \newcommand{\scr@saved@LTRfootnotetext}{}
21423 \newcommand{\scr@saved@RTLfootnotetext}{}
21424 \let\scr@saved@footnotetext\@footnotetext
21425 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21426 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21427 \renewcommand{\@footnotetext}[1]{%
21428 \scr@saved@footnotetext{#1}%
21429 \csname FN@mfp@prepare\endcsname
21430 }
21431 \renewcommand{\@LTRfootnotetext}[1]{%
21432 \scr@saved@LTRfootnotetext{#1}%
21433 \csname FN@mfp@prepare\endcsname
21434 }
21435 \renewcommand{\@RTLfootnotetext}[1]{%
21436 \scr@saved@RTLfootnotetext{#1}%
21437 \csname FN@mfp@prepare\endcsname
21438 }
21439 \renewcommand\deffootnote[4][1]{%
21440 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21441 \long\def\@makefntext##1{%
21442 \ExecuteDoHook{footnote/text/begin}%
21443 \raggedfootnote
21444 \if@RTL
21445 \rightskip
21446 \else
21447 \leftskip
21448 \fi
21449 #2
21450 \l@addto@macro\@trivlist{%
21451 \ifnum\@listdepth=\@ne
21452 \if@RTL

```



```

21453         \advance\rightmargin #2\relax
21454     \else
21455         \advance\leftmargin #2\relax
21456     \fi
21457 \fi
21458 }%
21459 \parindent #3\noindent
21460 \IfArgIsEmpty{#1}{-}{%
21461     \hskip \dimexpr #1-#2\relax
21462 }%
21463 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21464 \ExecuteDoHook{footnote/text/end}%
21465 }%
21466 \else
21467 \ClassInfo{\KOMAClassName}{%
21468     Using old \string\@makefnmark\space due to compatibility
21469     level\MessageBreak
21470     less than 3.22}%
21471 \long\def\@makefnmark##1{%
21472     \setlength{\@tempdimc}{#3}%
21473     \def\@tempa{#1}\ifx\@tempa\@empty
21474         \@setpar{\@@par
21475             \@tempdima = \hspace
21476             \addtolength{\@tempdima}{-#2}%
21477             \if@RTL
21478                 \parshape \@ne \z@ \@tempdima
21479             \else
21480                 \parshape \@ne #2 \@tempdima
21481             \fi}%
21482     \else
21483         \addtolength{\@tempdimc}{#2}%
21484         \addtolength{\@tempdimc}{-#1}%
21485         \@setpar{\@@par
21486             \@tempdima = \hspace
21487             \addtolength{\@tempdima}{-#1}%
21488             \@tempdimb = \hspace
21489             \addtolength{\@tempdimb}{-#2}%
21490             \if@RTL
21491                 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21492             \else
21493                 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21494             \fi
21495         }%
21496     \fi
21497 \par
21498 \parindent\@tempdimc\noindent
21499 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21500 }%
21501 \fi
21502 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21503 }
21504 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21505 \renewcommand*\left@footnoterule{%
21506     \normalsize\ftn@rule@test@values

```



```

21507 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21508 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21509 {\usekomafont{footnoterule}{%
21510   \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21511 \kern 2.6\p@}
21512 \renewcommand*\right@footnoterule{%
21513   \normalsize\ftn@rule@test@values
21514   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21515   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21516   {\usekomafont{footnoterule}{%
21517     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21518     \kern 2.6\p@}
21519   \renewcommand*\maketitle[1][1]{%
21520     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21521     \else
21522       \def\and{%
21523         \end{tabular}%
21524         \hskip 1em \@plus.17fil%
21525         \begin{tabular}[t]{c}%
21526       }%
21527     \fi
21528     \if@titlepage
21529       \begin{titlepage}
21530         \setcounter{page}{%
21531           #1%
21532         }%
21533         \if@titlepageiscoverpage
21534           \edef\titlepage@restore{%
21535             \noexpand\endgroup
21536             \noexpand\global\noexpand\@colht\the\@colht
21537             \noexpand\global\noexpand\@colroom\the\@colroom
21538             \noexpand\global\vsizethe\vsizethe
21539             \noexpand\global\noexpand\@titlepageiscoverpagefalse
21540             \noexpand\let\noexpand\titlepage@restore\noexpand\relax
21541           }%
21542           \begingroup
21543           \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21544           \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21545           \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21546           \textwidth=\dimexpr
21547           \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21548           \textheight=\dimexpr
21549           \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21550           \headheight=0pt
21551           \headsep=0pt
21552           \footskip=\baselineskip
21553           \@colht=\textheight
21554           \@colroom=\textheight
21555           \vsizethe=\textheight
21556           \columnwidth=\textwidth
21557           \hsizethe=\columnwidth
21558           \linewidth=\hsizethe
21559         \else
21560           \let\titlepage@restore\relax

```



```

21561 \fi
21562 \let\footnotesize\small
21563 \let\right@footnoterule\relax
21564 \let\left@footnoterule\relax
21565 \let\textwidth@footnoterule\relax
21566 \let\footnote\thanks
21567 \let\LTRfootnote\LTRthanks
21568 \let\RTLfootnote\RTLthanks
21569 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21570 \let\@oldmakefnmark\@makefnmark
21571 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21572 \ifx\@extratitle\@empty
21573 \ifx\@frontispiece\@empty
21574 \else
21575 \if@twoside\mbox{}\next@tpage\fi
21576 \noindent\@frontispiece\next@tdpage
21577 \fi
21578 \else
21579 \noindent\@extratitle
21580 \ifx\@frontispiece\@empty
21581 \else
21582 \next@tpage
21583 \noindent\@frontispiece
21584 \fi
21585 \next@tdpage
21586 \fi
21587 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21588 \ifx\@titlehead\@empty \else
21589 \begin{minipage}[t]{\textwidth}%
21590 \usekomafont{titlehead}{\@titlehead\par}%
21591 \end{minipage}\par
21592 \fi
21593 \null\vfill
21594 \begin{center}
21595 \ifx\@subject\@empty \else
21596 {\usekomafont{subject}{\@subject\par}}%
21597 \vskip 3em
21598 \fi
21599 {\usekomafont{title}{\huge \@title\par}}%
21600 \vskip 1em
21601 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21602 \vskip 2em
21603 {%
21604 \usekomafont{author}{%
21605 \lineskip 0.75em
21606 \begin{tabular}[t]{c}
21607 \@author
21608 \end{tabular}\par
21609 }%
21610 }%
21611 \vskip 1.5em
21612 {\usekomafont{date}{\@date \par}}%
21613 \vskip \z@ \@plus3fill
21614 {\usekomafont{publishers}{\@publishers \par}}%

```



```

21615     \vskip 3em
21616 \end{center}\par
21617 \@thanks\global\let\@thanks\@empty
21618 \vfill\null
21619 \if@twoside
21620     \@tempwatruet
21621     \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21622     \else
21623         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21624             \@tempwafalse
21625         \fi\fi
21626     \fi
21627     \if@tempswa
21628         \next@tpage
21629         \begin{minipage}[t]{\textwidth}
21630             \@uppertitleback
21631         \end{minipage}\par
21632         \vfill
21633         \begin{minipage}[b]{\textwidth}
21634             \@lowertitleback
21635         \end{minipage}\par
21636         \@thanks\global\let\@thanks\@empty
21637     \fi
21638 \else
21639     \ifx\@uppertitleback\@empty\else
21640         \ClassWarning{\KOMAClassName}{%
21641             non empty \string\uppertitleback\space ignored
21642             by \string\maketitle\MessageBreak
21643             in `twoside=false' mode%
21644         }%
21645     \fi
21646     \ifx\@lowertitleback\@empty\else
21647         \ClassWarning{\KOMAClassName}{%
21648             non empty \string\lowertitleback\space ignored
21649             by \string\maketitle\MessageBreak
21650             in `twoside=false' mode%
21651         }%
21652     \fi
21653 \fi
21654 \ifx\@dedication\@empty
21655 \else
21656     \next@tdpage\null\vfill
21657     {\centering\usekomafont{dedication}{\@dedication \par}}%
21658     \vskip \z@ \@plus3fill
21659     \@thanks\global\let\@thanks\@empty
21660     \cleardoubleemptypage
21661 \fi
21662 \ifx\titlename\@empty\relax\else\clearpage\titlename\relax\fi
21663 \end{titlepage}
21664 \else
21665     \par
21666     \@tempcnta=%
21667     #1%
21668     \relax\ifnum\@tempcnta=1\else

```



```

21669     \ClassWarning{\KOMAClassName}{%
21670       Optional argument of \string\maketitle\space ignored\MessageBreak
21671       in `titlepage=false' mode%
21672     }%
21673   \fi
21674   \ifx\@uppertitleback\@empty\else
21675     \ClassWarning{\KOMAClassName}{%
21676       non empty \string\uppertitleback\space ignored
21677       by \string\maketitle\MessageBreak
21678       in `titlepage=false' mode%
21679     }%
21680   \fi
21681   \ifx\@lowertitleback\@empty\else
21682     \ClassWarning{\KOMAClassName}{%
21683       non empty \string\lowertitleback\space ignored
21684       by \string\maketitle\MessageBreak
21685       in `titlepage=false' mode%
21686     }%
21687   \fi
21688   \beginngroup
21689     \let\titlepage@restore\relax
21690     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21691     \let\@oldmakefnmark\@makefnmark
21692     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21693     \next@tdpage
21694     \if@twocolumn
21695       \ifnum \col@number=\@one
21696         \ifx\@extratitle\@empty
21697           \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21698         \else
21699           \@makeextratitle
21700         \fi
21701         \ifx\@frontispiece\@empty
21702           \ifx\@extratitle\@empty\else\next@tdpage\fi
21703         \else
21704           \next@tpage
21705           \@makefrontispiece
21706           \next@tdpage
21707         \fi
21708         \@maketitle
21709       \else
21710         \ifx\@extratitle\@empty
21711           \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21712         \else
21713           \twocolumn[\@makeextratitle]%
21714         \fi
21715         \ifx\@frontispiece\@empty
21716           \ifx\@extratitle\@empty\else\next@tdpage\fi
21717         \else
21718           \next@tpage
21719           \twocolumn[\@makefrontispiece]%
21720           \next@tdpage
21721         \fi
21722       \twocolumn[\@maketitle]%

```



```

21723     \fi
21724   \else
21725     \ifx\@extratitle\@empty
21726       \ifx\@frontispiece\@empty\else \mbox{}\fi
21727     \else
21728       \@makeextratitle
21729     \fi
21730     \ifx\@frontispiece\@empty
21731       \ifx\@extratitle\@empty\else\next@tdpage\fi
21732     \else
21733       \next@tpage
21734       \@makefrontispiece
21735       \next@tdpage
21736     \fi
21737     \@maketitle
21738   \fi
21739   \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21740   \@thanks\global\let\@thanks\@empty
21741 \endgroup
21742 \fi
21743 \setcounter{footnote}{0}%
21744 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21745   \let\thanks\relax
21746   \let\LTRthanks\relax
21747   \let\RTLthanks\relax
21748   \let\maketitle\relax
21749   \let\@maketitle\relax
21750   \global\let\@thanks\@empty
21751   \global\let\@author\@empty
21752   \global\let\@date\@empty
21753   \global\let\@title\@empty
21754   \global\let\@subtitle\@empty
21755   \global\let\@extratitle\@empty
21756   \global\let\@frontispiece\@empty
21757   \global\let\@titlehead\@empty
21758   \global\let\@subject\@empty
21759   \global\let\@publishers\@empty
21760   \global\let\@uppertitleback\@empty
21761   \global\let\@lowertitleback\@empty
21762   \global\let\@dedication\@empty
21763   \global\let\author\relax
21764   \global\let\title\relax
21765   \global\let\extratitle\relax
21766   \global\let\titlehead\relax
21767   \global\let\subject\relax
21768   \global\let\publishers\relax
21769   \global\let\uppertitleback\relax
21770   \global\let\lowertitleback\relax
21771   \global\let\dedication\relax
21772   \global\let\date\relax
21773 \fi
21774 \global\let\and\relax
21775 }%
21776 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}

```




```

21777 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
21778 \renewcommand*\autodot{\if@altsecnumformat@SepMark\fi}
21779 \renewcommand*\thesubsection{\thesection@SepMark@arabic@c@subsection}
21780 \renewcommand*\thesubsubsection{%
21781   \thesubsection@SepMark@arabic@c@subsubsection
21782 }
21783 \renewcommand*\theparagraph{\thesubsubsection@SepMark@arabic@c@paragraph}
21784 \renewcommand*\thesubparagraph{%
21785   \theparagraph@SepMark@arabic@c@subparagraph
21786 }
21787 \renewenvironment{thebibliography}[1]{%
21788   \if@bib@break@
21789     \bib@beginhook
21790   \else
21791     \bib@heading
21792     \ifx\bibpreamble\relax\else\ifx\bibpreamble\empty\else
21793       \noindent\bibpreamble\par\nobreak
21794     \fi\fi
21795     \bib@beginhook
21796     \bib@before@hook
21797   \fi
21798   \renewcommand{\BreakBibliography}[1]{%
21799     \@bib@break
21800     \end{thebibliography}%
21801     \begingroup ##1\endgroup
21802     \begin{thebibliography}#{1}
21803   }%
21804   \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
21805   \bidi@thebibliography@font@hook%
21806   \list{%
21807     \@biblabel{\@arabic@c@enumiv}%
21808   }{%
21809     \settowidth\labelwidth{\@biblabel{#1}}%
21810     \leftmargin\labelwidth
21811     \advance\leftmargin\labelsep
21812     \@openbib@code
21813     \if@bib@break@
21814       \edef\@tempa{%
21815         \noexpand\usecounter{enumiv}%
21816         \noexpand\setcounter{enumiv}{\the@c@enumiv}%
21817       }\@tempa
21818       \no@bib@break
21819     \else
21820       \usecounter{enumiv}%
21821     \fi
21822     \let\p@enumiv\@empty
21823     \renewcommand*\theenumiv{\@arabic@c@enumiv}%
21824   }%
21825   \sloppy\clubpenalty4000 \widowpenalty4000
21826   \sfcode`.=\@m
21827 }{%
21828   \if@bib@break@
21829     \def\@noitemerr{%
21830       \@latex@warning{%

```



```

21831     \string\BreakBibliography\space at begin of `thebibliography'
21832     environment\MessageBreak
21833     or following \string\BreakBibliography}%
21834   }%
21835 \else
21836   \def\@noitemerr{%
21837     \@latex@warning{%
21838       Empty `thebibliography' environment or
21839       \string\BreakBibliography\MessageBreak
21840       before end of `thebibliography' environment}%
21841   }%
21842 \fi
21843 \endlist
21844 \if@bib@break@
21845 \else
21846   \bib@after@hook
21847   \let\bib@before@hook\@empty
21848   \let\bib@after@hook\@empty
21849 \fi
21850 \bib@endhook
21851 }
21852 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21853 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21854 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21855 \renewcommand\marginline[1]{%
21856   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21857 }
21858 \renewcommand{\@@makecaption}[3]{%
21859   \cap@margin
21860   \begingroup
21861     \ifonelinecaptions
21862     \def\stepcounter##1{\advance\value{##1}\@one}%
21863     \let\refstepcounter\stepcounter
21864     \let\label\@gobble
21865     \let\@footnotetext=\@gobble
21866     \let\@LTRfootnotetext=\@gobble
21867     \let\@RTLfootnotetext=\@gobble
21868     \let\hypertarget\@gobbletwo
21869     \edef\@xnewline{%
21870       \unexpanded{\ClassInfo{\KOMAClassName}}{%
21871         Workaround for not recommended usage of \string\\ or\MessageBreak
21872         \string\newline in caption text
21873       }%
21874       \hspace*{\linewidth}\hspace{1sp}%
21875     }%
21876     \unexpanded\expandafter{\@xnewline}%
21877   }%
21878   \edef\@xcentercr{%
21879     \unexpanded{\ClassInfo{\KOMAClassName}}{%
21880       Workaround for not recommended usage of \string\\ or\MessageBreak
21881       \string\newline in caption text
21882     }%
21883     \hspace*{\linewidth}\hspace{1sp}%
21884   }%

```



```

21885     \unexpanded\expandafter{\@xcentercr}%
21886     }%
21887     \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21888     \ifdim\@tempdima>\cap@width
21889     \aftergroup\scr@makemultilinecaption
21890     \else
21891     \aftergroup\scr@makesinglelinecaption
21892     \fi
21893     \else
21894     \aftergroup\scr@makemultilinecaption
21895     \fi
21896     \endgroup
21897     {#1}{#2}{#3}%
21898 }
21899 \renewcommand{\scr@makesinglelinecaption}[3]{%
21900   {%
21901     \usefontofkomafont{caption}{%
21902       \hb@xt@\hsize{%
21903         \cap@left
21904         \if@RTL
21905         \beginR
21906         \fi
21907         \scr@makesinglelinecaption{#1}{#2}{#3}%
21908         \if@RTL
21909         \endR
21910         \fi
21911         \cap@right
21912       }\par\kern\dp\strutbox%
21913     }%
21914   }\kern-\dp\strutbox
21915 }
21916 \renewcommand{\@makecaption}[2]{%
21917   \if@captionabove
21918     \vskip\belowcaptionskip
21919   \else
21920     \vskip\abovecaptionskip
21921   \fi
21922   \@makecaption\@firstofone{#1}{#2}%
21923   \if@captionabove
21924     \vskip\abovecaptionskip
21925   \else
21926     \vskip\belowcaptionskip
21927   \fi
21928 }
21929
21930 \renewcommand{\scr@makesinglelinecaption}[3]{%
21931   {\usekomafont{caption}{\strut\ignorespaces
21932     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21933     \ignorespaces #3\unskip}}%
21934 }
21935
21936 \renewcommand{\scr@makemultilinecaption}[3]{%
21937   {%
21938     \usefontofkomafont{caption}{%

```



```

21939 \hb@xt@\hsize{%
21940 \cap@left
21941 \vbox{\hsize\cap@width\linewidth\hsize
21942 \scr@ifundefinedorrelax{@captype}{%
21943 \ClassWarning{\KOMAClassName}{%
21944 \string\caption' outside float.\MessageBreak
21945 Seems you are using \string\caption' outside a
21946 float.\MessageBreak
21947 Maybe you are using a package that uses
21948 \string\@makecaption'\MessageBreak
21949 without setting \string\@captype' before.\MessageBreak
21950 Because I cannot detect the caption type, I'm using\MessageBreak
21951 the empty one.%
21952 }%
21953 \let\@captype\@empty
21954 }{}%
21955 \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
21956 \@nameuse{ragged\@captype caption}%
21957 }%
21958 \ifdofullc@p
21959 \hangfrom{%
21960 \strut
21961 \scr@smashdp{%
21962 #1{%
21963 \usekomafont{caption}{%
21964 \usekomafont{captionlabel}{#2\captionformat}%
21965 }%
21966 }%
21967 }%
21968 }%
21969 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21970 \else
21971 \ifdim\cap@indent<\z@
21972 \strut
21973 #1{%
21974 {\usekomafont{caption}{%
21975 \usekomafont{captionlabel}{#2\captionformat}%
21976 }%
21977 }\par}%
21978 \noindent{{\usekomafont{caption}{%
21979 \hspace*{-\cap@indent}#3\scr@endstrut
21980 }}\par}%
21981 \else
21982 \if@capbreak
21983 \strut
21984 #1{%
21985 {\usekomafont{caption}{%
21986 \usekomafont{captionlabel}{#2\captionformat}%
21987 }%
21988 }\par}%
21989 \noindent\hangfrom{\hspace*{\cap@indent}}%
21990 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21991 \else
21992 \hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%

```



```

21993             {%
21994             \hspace{-\cap@indent}%
21995             \scr@smashdp{%
21996             #1{\usekomafont{caption}{%
21997             \usekomafont{captionlabel}{#2\captionformat}%
21998             }%
21999             }%
22000             }%
22001             {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22002             }%
22003             \fi
22004             \fi
22005             \fi
22006             }%
22007             \cap@right
22008             }\par\kern\dp\strutbox
22009             }%
22010             }\kern-\dp\strutbox
22011             }
22012
22013 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22014 \if@komalongtable
22015 \renewcommand{\LT@makecaption}[3]{%
22016 \noalign{%
22017 \if@captionabove
22018 \vskip\belowcaptionskip
22019 \else
22020 \vskip\abovecaptionskip
22021 \fi
22022 }%
22023 \LT@mcol\LT@cols c{%
22024 \hbox to\z@{\hss\parbox[t]\linewidth{%
22025 \def\@captype{table}%
22026 \@@makecaption{#1}{#2}{#3}%
22027 \endgraf
22028 \if@captionabove
22029 \vskip\abovecaptionskip
22030 \else
22031 \vskip\belowcaptionskip
22032 \fi
22033 }%
22034 \hss
22035 }%
22036 }%
22037 }%
22038 \renewcommand*{\scr@LT@array}{}%
22039 \let\scr@LT@array=\LT@array
22040 \renewcommand*{\LT@array}{%
22041 \let\scr@caption=\LT@caption
22042 \def\captionabove{\noalign{\global\@captionabovetrue}%
22043 \scr@caption}%
22044 \def\captionbelow{\noalign{\global\@captionabovetrue}%
22045 \scr@caption}%
22046 \if@tablecaptionabove

```



```

22047         \let\LT@caption=\captionabove
22048     \else
22049         \let\LT@caption=\captionbelow
22050     \fi
22051     \scr@LT@array
22052 }%
22053 \ClassInfo{\KOMAClassName}{%
22054     longtable captions redefined%
22055 }%
22056 \fi
22057 }
22058
22059 \CloneTOCEntryStyle{tocline}{part}
22060 \TOCEntryStyleStartInitCode{part}{%
22061     \expandafter\renewcommand%
22062     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22063     \expandafter\renewcommand%
22064     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22065     \expandafter\renewcommand%
22066     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22067         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22068     \expandafter\renewcommand\expandafter*%
22069     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22070 }
22071
22072 \CloneTOCEntryStyle{tocline}{section}
22073 \TOCEntryStyleStartInitCode{section}{%
22074     \expandafter\renewcommand%
22075     \csname scr@tso@#1@linefill\endcsname{%
22076         \if@sectionentrywithdots
22077             {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
22078         \else
22079             \hfill
22080         \fi
22081     }%
22082     \expandafter\renewcommand%
22083     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
22084     \expandafter\renewcommand%
22085     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
22086     \expandafter\renewcommand\expandafter*%
22087     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22088 }
22089
22090 \CloneTOCEntryStyle{tocline}{subsection}
22091 \TOCEntryStyleStartInitCode{subsection}{%
22092     \expandafter\renewcommand%
22093     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22094     \expandafter\renewcommand%
22095     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22096         {\normalfont\normalcolor ##1}}%
22097 }
22098
22099 \CloneTOCEntryStyle{subsection}{default}
22100

```



```

22101 \DeclareSectionCommand[%
22102   style=section,%
22103   level=1,%
22104   indent=\z@,%
22105   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22106   afterskip=2.3ex \@plus .2ex,%
22107   tocstyle=section,%
22108   tocindent=0pt,%
22109   tocnumwidth=1.5em%
22110 ]{section}
22111 \DeclareSectionCommand[%
22112   style=part,%
22113   level=\z@,%
22114   tocstyle=part,%
22115   toplevel=\m@ne,%
22116   tocindent=\z@,%
22117   tocnumwidth=2em%
22118 ]{part}
22119 \DeclareSectionCommand[%
22120   style=section,%
22121   level=2,%
22122   indent=\z@,%
22123   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22124   afterskip=1.5ex \@plus .2ex,%
22125   tocstyle=subsection,%
22126   tocindent=1.5em,%
22127   tocnumwidth=2.3em%
22128 ]{subsection}
22129 \DeclareSectionCommand[%
22130   style=section,%
22131   level=3,%
22132   indent=\z@,%
22133   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22134   afterskip=1.5ex \@plus .2ex,%
22135   tocstyle=subsection,%
22136   tocindent=3.8em,%
22137   tocnumwidth=3.2em%
22138 ]{subsubsection}
22139 \DeclareSectionCommand[%
22140   style=section,%
22141   level=4,%
22142   indent=\z@,%
22143   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22144   afterskip=-1em,%
22145   tocstyle=subsection,%
22146   tocindentfollows=subsubsection,%
22147   tocindent=7.0em,%
22148   tocnumwidth=4.1em%
22149 ]{paragraph}
22150 \DeclareSectionCommand[%
22151   style=section,%
22152   level=5,%
22153   indent=\scr@parindent,%
22154   beforekip=3.25ex \@plus 1ex \@minus .2ex,%

```



```

22155 afterskip=-1em,%
22156 tocstyle=subsection,%
22157 tocindent=10em,%
22158 tocnwidth=5em%
22159 ]{subparagraph}

```

142 File scrbook-xetex-bidi.def

```

22160 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
22161 \newcommand{\scr@saved@LTRfootnotetext}{}
22162 \newcommand{\scr@saved@RTLfootnotetext}{}
22163 \let\scr@saved@footnotetext\@footnotetext
22164 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22165 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22166 \renewcommand{\@footnotetext}[1]{%
22167   \scr@saved@footnotetext{#1}%
22168   \csname FN@mfb@prepare\endcsname
22169 }
22170 \renewcommand{\@LTRfootnotetext}[1]{%
22171   \scr@saved@LTRfootnotetext{#1}%
22172   \csname FN@mfb@prepare\endcsname
22173 }
22174 \renewcommand{\@RTLfootnotetext}[1]{%
22175   \scr@saved@RTLfootnotetext{#1}%
22176   \csname FN@mfb@prepare\endcsname
22177 }
22178 \renewcommand\deffootnote[4] []{%
22179   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22180     \long\def\@makefnmark##1{%
22181       \ExecuteDoHook{footnote/text/begin}%
22182       \raggedfootnote
22183       \if@RTL
22184         \rightskip
22185       \else
22186         \leftskip
22187       \fi
22188       #2
22189       \l@addto@macro\@trivlist{%
22190         \ifnum\@listdepth=\@ne\advance
22191           \if@RTL
22192             \rightmargin #2\relax
22193           \else
22194             \leftmargin #2\relax
22195           \fi
22196         \fi
22197       }%
22198       \parindent #3\noindent
22199       \IfArgIsEmpty{#1}{-}{%
22200         \hskip \dimexpr #1-#2\relax
22201       }%
22202       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22203       \ExecuteDoHook{footnote/text/end}%
22204     }%
22205   \else

```




```

22206 \ClassInfo{\KOMAClassName}{%
22207   Using old \string\@makefnmark\space due to compatibility
22208   level\MessageBreak
22209   less than 3.22}%
22210 \long\def\@makefnmark##1{%
22211   \setlength{\@tempdimc}{#3}%
22212   \def\@tempa{#1}\ifx\@tempa\@empty
22213     \setpar{\@@par
22214       \@tempdima = \hspace
22215       \addtolength{\@tempdima}{-#2}%
22216       \if@RTL
22217         \parshape \@ne \z@ \@tempdima
22218       \else
22219         \parshape \@ne #2 \@tempdima
22220       \fi
22221     }%
22222   \else
22223     \addtolength{\@tempdimc}{#2}%
22224     \addtolength{\@tempdimc}{-#1}%
22225     \setpar{\@@par
22226       \@tempdima = \hspace
22227       \addtolength{\@tempdima}{-#1}%
22228       \@tempdimb = \hspace
22229       \addtolength{\@tempdimb}{-#2}%
22230       \if@RTL
22231         \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22232       \else
22233         \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22234       \fi
22235     }%
22236   \fi
22237   \par
22238   \parindent\@tempdimc\noindent
22239   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22240 }%
22241 \fi
22242 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22243 }
22244 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22245 \renewcommand*\left@footnoterule{%
22246   \normalsize\ftn@rule@test@values
22247   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22248   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22249   {\usekomafont{footnoterule}{%
22250     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22251   \kern 2.6\p@}
22252 \renewcommand*\right@footnoterule{%
22253   \normalsize\ftn@rule@test@values
22254   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22255   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22256   {\usekomafont{footnoterule}{%
22257     \hbox to \columnwidth{\hspace \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
22258     \kern 2.6\p@}
22259   \renewcommand*\maketitle[1][1]{%

```



```

22260 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22261 \else
22262   \def\and{%
22263     \end{tabular}%
22264     \hskip 1em \@plus.17fil%
22265     \begin{tabular}[t]{c}%
22266   }%
22267 \fi
22268 \if@titlepage
22269   \begin{titlepage}
22270     \setcounter{page}{%
22271       #1%
22272     }%
22273     \if@titlepageiscoverpage
22274       \edef\tITLEPAGE@restore{%
22275         \noexpand\endgroup
22276         \noexpand\global\noexpand\@colht\the\@colht
22277         \noexpand\global\noexpand\@colroom\the\@colroom
22278         \noexpand\global\vsizethe\vsizethe
22279         \noexpand\global\noexpand\@titlepageiscoverpagefalse
22280         \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
22281       }%
22282       \begingroup
22283         \topmargin=\dimexpr \coverpagetopmargin-1in\relax
22284         \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
22285         \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
22286         \textwidth=\dimexpr
22287         \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
22288         \textheight=\dimexpr
22289         \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
22290         \headheight=0pt
22291         \headsep=0pt
22292         \footskip=\baselineskip
22293         \@colht=\textheight
22294         \@colroom=\textheight
22295         \vsizethe=\textheight
22296         \columnwidth=\textwidth
22297         \hsizethe=\columnwidth
22298         \linewidth=\hsizethe
22299       \else
22300         \let\tITLEPAGE@restore\relax
22301       \fi
22302       \let\footnotesize\small
22303       \let\right@footnoterule\relax
22304       \let\left@footnoterule\relax
22305       \let\textwidth@footnoterule\relax
22306       \let\footnote\thanks
22307       \let\LTRfootnote\LTRthanks
22308       \let\RTLfootnote\RTLthanks
22309       \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22310       \let\@oldmakefnmark\@makefnmark
22311       \renewcommand*\@makefnmark{\@rlap\@oldmakefnmark}%
22312       \ifx\@extratitle\@empty
22313         \ifx\@frontispiece\@empty

```



```

22314     \else
22315         \if@twoside\mbox{}\next@tpage\fi
22316         \noindent\@frontispiece\next@tdpage
22317     \fi
22318 \else
22319     \noindent\@extratitle
22320     \ifx\@frontispiece\@empty
22321     \else
22322         \next@tpage
22323         \noindent\@frontispiece
22324     \fi
22325     \next@tdpage
22326 \fi
22327 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
22328 \ifx\@titlehead\@empty \else
22329     \begin{minipage}[t]{\textwidth}%
22330         \usekomafont{titlehead}{\@titlehead\par}%
22331     \end{minipage}\par
22332 \fi
22333 \null\vfill
22334 \begin{center}
22335     \ifx\@subject\@empty \else
22336         {\usekomafont{subject}{\@subject\par}}%
22337         \vskip 3em
22338     \fi
22339     {\usekomafont{title}{\huge \@title\par}}%
22340     \vskip 1em
22341     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
22342     \vskip 2em
22343     {%
22344         \usekomafont{author}{%
22345             \lineskip 0.75em
22346             \begin{tabular}[t]{c}
22347                 \@author
22348             \end{tabular}\par
22349         }%
22350     }%
22351     \vskip 1.5em
22352     {\usekomafont{date}{\@date \par}}%
22353     \vskip \z@ \@plus3fill
22354     {\usekomafont{publishers}{\@publishers \par}}%
22355     \vskip 3em
22356 \end{center}\par
22357 \@thanks\global\let\@thanks\@empty
22358 \vfill\null
22359 \if@twoside
22360     \@tempswatrue
22361     \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
22362     \else
22363         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
22364             \@tempswafalse
22365         \fi\fi
22366     \fi
22367 \if@tempswa

```



```

22368     \next@tpage
22369     \begin{minipage}[t]{\textwidth}
22370         \@uppertitleback
22371     \end{minipage}\par
22372     \vfill
22373     \begin{minipage}[b]{\textwidth}
22374         \@lowertitleback
22375     \end{minipage}\par
22376     \@thanks\global\let\@thanks\@empty
22377     \fi
22378 \else
22379     \ifx\@uppertitleback\@empty\else
22380         \ClassWarning{\KOMAClassName}{%
22381             non empty \string\uppertitleback\space ignored
22382             by \string\maketitle\MessageBreak
22383             in `twoside=false' mode%
22384         }%
22385     \fi
22386     \ifx\@lowertitleback\@empty\else
22387         \ClassWarning{\KOMAClassName}{%
22388             non empty \string\lowertitleback\space ignored
22389             by \string\maketitle\MessageBreak
22390             in `twoside=false' mode%
22391         }%
22392     \fi
22393 \fi
22394 \ifx\@dedication\@empty
22395 \else
22396     \next@tdpage\null\vfill
22397     {\centering\usekomafont{dedication}{\@dedication \par}}%
22398     \vskip \z@ \@plus3fill
22399     \@thanks\global\let\@thanks\@empty
22400     \cleardoubleemptypage
22401 \fi
22402 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
22403 \end{titlepage}
22404 \else
22405     \par
22406     \@tempcnta=%
22407     #1%
22408     \relax\ifnum\@tempcnta=1\else
22409         \ClassWarning{\KOMAClassName}{%
22410             Optional argument of \string\maketitle\space ignored\MessageBreak
22411             in `titlepage=false' mode%
22412         }%
22413     \fi
22414     \ifx\@uppertitleback\@empty\else
22415         \ClassWarning{\KOMAClassName}{%
22416             non empty \string\uppertitleback\space ignored
22417             by \string\maketitle\MessageBreak
22418             in `titlepage=false' mode%
22419         }%
22420     \fi
22421     \ifx\@lowertitleback\@empty\else

```



```

22422 \ClassWarning{\KOMAClassName}{%
22423 non empty \string\lowertitleback\space ignored
22424 by \string\maketitle\MessageBreak
22425 in `titlepage=false' mode%
22426 }%
22427 \fi
22428 \beginngroup
22429 \let\titlepage@restore\relax
22430 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22431 \let\@oldmakefnmark\@makefnmark
22432 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
22433 \next@tdpage
22434 \if@twocolumn
22435 \ifnum \col@number=\@one
22436 \ifx\@extratitle\@empty
22437 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22438 \else
22439 \@makeextratitle
22440 \fi
22441 \ifx\@frontispiece\@empty
22442 \ifx\@extratitle\@empty\else\next@tdpage\fi
22443 \else
22444 \next@tpage
22445 \@makefrontispiece
22446 \next@tdpage
22447 \fi
22448 \@maketitle
22449 \else
22450 \ifx\@extratitle\@empty
22451 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22452 \else
22453 \twocolumn[\@makeextratitle]%
22454 \fi
22455 \ifx\@frontispiece\@empty
22456 \ifx\@extratitle\@empty\else\next@tdpage\fi
22457 \else
22458 \next@tpage
22459 \twocolumn[\@makefrontispiece]%
22460 \next@tdpage
22461 \fi
22462 \twocolumn[\@maketitle]%
22463 \fi
22464 \else
22465 \ifx\@extratitle\@empty
22466 \ifx\@frontispiece\@empty\else \mbox{}\fi
22467 \else
22468 \@makeextratitle
22469 \fi
22470 \ifx\@frontispiece\@empty
22471 \ifx\@extratitle\@empty\else\next@tdpage\fi
22472 \else
22473 \next@tpage
22474 \@makefrontispiece
22475 \next@tdpage

```



```

22476     \fi
22477     \@maketitle
22478     \fi
22479     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22480     \@thanks\global\let\@thanks\@empty
22481 \endgroup
22482 \fi
22483 \setcounter{footnote}{0}%
22484 \expandafter\ifnum \cscname scr@v@3.12\endcscname>\scr@compatibility\relax
22485 \let\thanks\relax
22486 \let\LTRthanks\relax
22487 \let\RTLthanks\relax
22488 \let\maketitle\relax
22489 \let\@maketitle\relax
22490 \global\let\@thanks\@empty
22491 \global\let\@author\@empty
22492 \global\let\@date\@empty
22493 \global\let\@title\@empty
22494 \global\let\@subtitle\@empty
22495 \global\let\@extratitle\@empty
22496 \global\let\@frontispiece\@empty
22497 \global\let\@titlehead\@empty
22498 \global\let\@subject\@empty
22499 \global\let\@publishers\@empty
22500 \global\let\@uppertitleback\@empty
22501 \global\let\@lowertitleback\@empty
22502 \global\let\@dedication\@empty
22503 \global\let\author\relax
22504 \global\let\title\relax
22505 \global\let\extratitle\relax
22506 \global\let\titlehead\relax
22507 \global\let\subject\relax
22508 \global\let\publishers\relax
22509 \global\let\uppertitleback\relax
22510 \global\let\lowertitleback\relax
22511 \global\let\dedication\relax
22512 \global\let\date\relax
22513 \fi
22514 \global\let\and\relax
22515 }%
22516 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
22517 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
22518 \renewcommand*\thesection{%
22519 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22520 \if@mainmatter\thechapter\@SepMark\fi
22521 \else
22522 \thechapter\@SepMark%
22523 \fi
22524 \@arabic\c@section
22525 }
22526 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
22527 \renewcommand*{\thesubsubsection}{%
22528 \thesubsection\@SepMark\@arabic\c@subsubsection
22529 }

```



```

22530 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
22531 \renewcommand*{\thesubparagraph}{\%
22532 \theparagraph\@SepMark\@arabic\c@subparagraph
22533 }
22534 \expandafter\ifnum\scr@v@is@le{2.97d}%
22535 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
22536 \fi
22537 \expandafter\ifnum\scr@v@is@le{2.97d}%
22538 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
22539 \fi
22540 \renewcommand*{\theequation}{\%
22541 \expandafter\ifnum\scr@v@is@gt{2.97d}%
22542 \if@mainmatter\thechapter\@SepMark\fi
22543 \else
22544 \thechapter\@SepMark%
22545 \fi
22546 \@arabic\c@equation
22547 }
22548 \renewenvironment{thebibliography}[1]{\%
22549 \if@bib@break@
22550 \bib@beginhook
22551 \else
22552 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22553 \setchapterpreamble{\bibpreamble}%
22554 \fi\fi
22555 \bib@heading
22556 \bib@beginhook
22557 \bib@before@hook
22558 \fi
22559 \renewcommand{\BreakBibliography}[1]{\%
22560 \@bib@break
22561 \end{thebibliography}%
22562 \begingroup ##1\endgroup
22563 \begin{thebibliography}{#1}
22564 }%
22565 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
22566 \bidi@thebibliography@font@hook%
22567 \list{\%
22568 \@biblabel{\@arabic\c@enumiv}%
22569 }{\%
22570 \settowidth\labelwidth{\@biblabel{#1}}%
22571 \leftmargin\labelwidth
22572 \advance\leftmargin\labelsep
22573 \@openbib@code
22574 \if@bib@break@
22575 \edef\@tempa{\%
22576 \noexpand\usecounter{enumiv}%
22577 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22578 }\@tempa
22579 \no@bib@break
22580 \else
22581 \usecounter{enumiv}%
22582 \fi
22583 \let\p@enumiv\@empty

```



```

22584 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22585 }%
22586 \sloppy\clubpenalty4000 \widowpenalty4000
22587 \sfcode`\.=\@m
22588 }{%
22589 \if@bib@break@
22590 \def\@noitemerr{%
22591 \latex@warning{%
22592 \string\BreakBibliography\space at begin of `thebibliography'
22593 environment\MessageBreak
22594 or following \string\BreakBibliography}%
22595 }%
22596 \else
22597 \def\@noitemerr{%
22598 \latex@warning{%
22599 Empty `thebibliography' environment or
22600 \string\BreakBibliography\MessageBreak
22601 before end of `thebibliography' environment}%
22602 }%
22603 \fi
22604 \endlist
22605 \if@bib@break@
22606 \else
22607 \bib@after@hook
22608 \let\bib@before@hook\@empty
22609 \let\bib@after@hook\@empty
22610 \fi
22611 \bib@endhook
22612 }
22613 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
22614 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
22615 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
22616 \renewcommand\marginline[1]{%
22617 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
22618 }
22619 \renewcommand{\@makecaption}[3]{%
22620 \cap@margin
22621 \begingroup
22622 \ifonelinecaptions
22623 \def\stepcounter##1{\advance\value{##1}\@ne}%
22624 \let\refstepcounter\stepcounter
22625 \let\label\@gobble
22626 \let\@footnotetext=\@gobble
22627 \let\@LTRfootnotetext=\@gobble
22628 \let\@RTLfootnotetext=\@gobble
22629 \let\hypertarget\@gobbletwo
22630 \edef\@xnewline{%
22631 \unexpanded{\ClassInfo{\KOMAClassName}}{%
22632 Workaround for not recommended usage of \string\ or\MessageBreak
22633 \string\newline in caption text
22634 }%
22635 \hspace*{\linewidth}\hspace{1sp}}%
22636 }%
22637 \unexpanded\expandafter{\@xnewline}%

```




```

22638 }%
22639 \edef\xcentercr{%
22640   \unexpanded{\ClassInfo{\KOMAClassName}{%
22641     Workaround for not recommended usage of \string\\ or\MessageBreak
22642     \string\newline in caption text
22643   }}%
22644   \hspace*{\linewidth}\hspace{1sp}%
22645 }%
22646 \unexpanded\expandafter{\xcentercr}%
22647 }%
22648 \settowidth{@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
22649 \ifdim@tempdima>\cap@width
22650   \aftergroup\scr@makemultilinecaption
22651 \else
22652   \aftergroup\scr@makesinglelinecaption
22653 \fi
22654 \else
22655   \aftergroup\scr@makemultilinecaption
22656 \fi
22657 \endgroup
22658 {#1}{#2}{#3}%
22659 }
22660 \renewcommand{\scr@makesinglelinecaption}[3]{%
22661   {%
22662     \usefontofkomafont{caption}{%
22663       \hb@xt@{\hsizel}{%
22664         \cap@left
22665         \if@RTL
22666           \beginR
22667             \fi
22668             \scr@makesinglelinecaption{#1}{#2}{#3}%
22669             \if@RTL
22670               \endR
22671             \fi
22672             \cap@right
22673           }\par\kern\dp\strutbox%
22674         }%
22675       }\kern-\dp\strutbox
22676 }
22677 \renewcommand{\@makecaption}[2]{%
22678   \if@captionabove
22679     \vskip\belowcaptionskip
22680   \else
22681     \vskip\abovecaptionskip
22682   \fi
22683   \@makecaption\@firstofone{#1}{#2}%
22684   \if@captionabove
22685     \vskip\abovecaptionskip
22686   \else
22687     \vskip\belowcaptionskip
22688   \fi
22689 }
22690
22691 \renewcommand{\scr@makesinglelinecaption}[3]{%

```



```

22692     {\usekomafont{caption}{\strut\ignorespaces
22693       #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22694       \ignorespaces #3\unskip}}%
22695 }
22696
22697 \renewcommand{\scr@makemultilinecaption}[3]{%
22698   {%
22699     \usefontofkomafont{caption}{%
22700       \hb@xt@{hsize}{%
22701         \cap@left
22702         \vbox{\hsize\cap@width\linewidth\hsize
22703           \scr@ifundefinedorrelax{@capttype}{%
22704             \ClassWarning{\KOMAClassName}{%
22705               `string\caption' outside float.\MessageBreak
22706               Seems you are using `string\caption' outside a
22707               float.\MessageBreak
22708               Maybe you are using a package that uses
22709               `string@makecaption'\MessageBreak
22710               without setting `string@capttype' before.\MessageBreak
22711               Because I cannot detect the caption type, I'm using\MessageBreak
22712               the empty one.%
22713             }%
22714             \let\@capttype\@empty
22715           }}%
22716           \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
22717             \@nameuse{ragged\@capttype caption}%
22718           }%
22719           \ifdofullc@p
22720             \@hangfrom{%
22721               \strut
22722               \scr@smashdp{%
22723                 #1{%
22724                   \usekomafont{caption}{%
22725                     \usekomafont{captionlabel}{#2\captionformat}%
22726                   }%
22727                 }%
22728               }%
22729             }%
22730             {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22731           \else
22732             \ifdim\cap@indent<\z@
22733               \strut
22734               #1{%
22735                 {\usekomafont{caption}{%
22736                   \usekomafont{captionlabel}{#2\captionformat}%
22737                 }%
22738               }\par}%
22739             \noindent{\usekomafont{caption}{%
22740               \hspace*{-\cap@indent}#3\scr@endstrut
22741             }}\par}%
22742           \else
22743             \if@capbreak
22744               \strut
22745             #1{%

```



```

22746         {\usekomafont{caption}{%
22747          \usekomafont{captionlabel}{#2\captionformat}%
22748         }
22749        }\par}%
22750        \noindent\@hangfrom{\hspace*{\cap@indent}}%
22751        {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22752    \else
22753    \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22754    {%
22755        \hspace{-\cap@indent}%
22756        \scr@smashdp{%
22757            #1{\usekomafont{caption}{%
22758                \usekomafont{captionlabel}{#2\captionformat}%
22759            }}%
22760        }%
22761    }%
22762    {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22763    }%
22764    \fi
22765    \fi
22766    \fi
22767    }%
22768    \cap@right
22769    }\par\kern\dp\strutbox
22770    }%
22771    }\kern-\dp\strutbox
22772 }
22773
22774
22775 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22776 \if@komalongtable
22777 \renewcommand{\LT@makecaption}[3]{%
22778 \noalign{%
22779 \if@captionabove
22780 \vskip\belowcaptionskip
22781 \else
22782 \vskip\abovecaptionskip
22783 \fi
22784 }%
22785 \LT@mc\LT@cols c{%
22786 \hbox to\z@{\hss\parbox[t]{\linewidth}{%
22787 \def\@c@type{table}%
22788 \@@makecaption{#1}{#2}{#3}%
22789 \endgraf
22790 \if@captionabove
22791 \vskip\abovecaptionskip
22792 \else
22793 \vskip\belowcaptionskip
22794 \fi
22795 }%
22796 \hss
22797 }%
22798 }%
22799 }%

```



```

22800 \renewcommand*{\scr@LT@array}{}%
22801 \let\scr@LT@array=\LT@array
22802 \renewcommand*{\LT@array}{%
22803 \let\scr@caption=\LT@caption
22804 \def\captionabove{\noalign{\global\@captionabovetrue}%
22805 \scr@caption}%
22806 \def\captionbelow{\noalign{\global\@captionabovefalse}%
22807 \scr@caption}%
22808 \if@tablecaptionabove
22809 \let\LT@caption=\captionabove
22810 \else
22811 \let\LT@caption=\captionbelow
22812 \fi
22813 \scr@LT@array
22814 }%
22815 \ClassInfo{\KOMAClassName}{%
22816 longtable captions redefined%
22817 }%
22818 \fi
22819 }
22820
22821 \CloneTOCEntryStyle{tocline}{part}
22822 \TOCEntryStyleStartInitCode{part}{%
22823 \expandafter\renewcommand%
22824 \csname scr@tso@#1@linefill\endcsname{\hfill}%
22825 \expandafter\renewcommand%
22826 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22827 \expandafter\renewcommand%
22828 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22829 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}}%
22830 \expandafter\renewcommand\expandafter*%
22831 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p0}%
22832 }
22833
22834 \CloneTOCEntryStyle{tocline}{chapter}
22835 \TOCEntryStyleStartInitCode{chapter}{%
22836 \expandafter\renewcommand%
22837 \csname scr@tso@#1@linefill\endcsname{%
22838 \if@chapterentrywithdots
22839 {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22840 \else
22841 \hfill
22842 \fi
22843 }%
22844 \expandafter\renewcommand%
22845 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22846 \expandafter\renewcommand%
22847 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22848 {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}}%
22849 \expandafter\renewcommand\expandafter*%
22850 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p0}%
22851 }
22852
22853 \CloneTOCEntryStyle{tocline}{section}

```



```

22854 \TOCEntryStyleStartInitCode{section}{%
22855   \expandafter\renewcommand%
22856   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22857   \expandafter\renewcommand%
22858   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22859     {\normalfont\normalcolor ##1}}%
22860 }
22861
22862 \CloneTOCEntryStyle{section}{default}
22863
22864 \DeclareSectionCommand[%
22865   style=chapter,%
22866   level=\z@,%
22867   pagestyle=plain,%
22868   tocstyle=chapter,%
22869   tocindent=\z@,%
22870   tocnumwidth=1.5em%
22871 ]{chapter}
22872 \DeclareSectionCommand[%
22873   style=section,%
22874   level=1,%
22875   indent=\z@,%
22876   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22877   afterskip=2.3ex \@plus .2ex,%
22878   tocstyle=section,%
22879   tocindentfollows=chapter,%
22880   tocindent=1.5em,%
22881   tocnumwidth=2.3em%
22882 ]{section}
22883 \DeclareSectionCommand[%
22884   style=part,%
22885   level=\m@ne,%
22886   pagestyle=plain,%
22887   tocstyle=part,%
22888   toclevel=\m@ne,%
22889   tocindent=\z@,%
22890   tocnumwidth=2em%
22891 ]{part}
22892 \DeclareSectionCommand[%
22893   style=section,%
22894   level=2,%
22895   indent=\z@,%
22896   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22897   afterskip=1.5ex \@plus .2ex,%
22898   tocstyle=section,%
22899   tocindent=3.8em,%
22900   tocnumwidth=3.2em%
22901 ]{subsection}
22902 \DeclareSectionCommand[%
22903   style=section,%
22904   level=3,%
22905   indent=\z@,%
22906   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22907   afterskip=1.5ex \@plus .2ex,%

```



```

22908 tocstyle=section,%
22909 tocindent=7.0em,%
22910 tocnumwidth=4.1em%
22911 ]{subsubsection}
22912 \DeclareSectionCommand[%
22913 style=section,%
22914 level=4,%
22915 indent=\z@,%
22916 beforekip=3.25ex \@plus1ex \@minus.2ex,%
22917 afterskip=-1em,%
22918 tocindentfollows=subsubsection,%
22919 tocstyle=section,%
22920 tocindent=10em,%
22921 tocnumwidth=5em%
22922 ]{paragraph}
22923 \DeclareSectionCommand[%
22924 style=section,%
22925 level=5,%
22926 indent=\scr@parindent,%
22927 beforekip=3.25ex \@plus1ex \@minus.2ex,%
22928 afterskip=-1em,%
22929 tocstyle=section,%
22930 tocindent=12em,%
22931 tocnumwidth=6em%
22932 ]{subparagraph}

```

143 File `scrreprt-xetex-bidi.def`

```

22933 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
22934 \newcommand{\scr@saved@LTRfootnotetext}{}
22935 \newcommand{\scr@saved@RTLfootnotetext}{}
22936 \let\scr@saved@footnotetext\@footnotetext
22937 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22938 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22939 \renewcommand{\@footnotetext}[1]{%
22940 \scr@saved@footnotetext{#1}%
22941 \csname FN@mf@prepare\endcsname
22942 }
22943 \renewcommand{\@LTRfootnotetext}[1]{%
22944 \scr@saved@LTRfootnotetext{#1}%
22945 \csname FN@mf@prepare\endcsname
22946 }
22947 \renewcommand{\@RTLfootnotetext}[1]{%
22948 \scr@saved@RTLfootnotetext{#1}%
22949 \csname FN@mf@prepare\endcsname
22950 }
22951 \renewcommand\deffootnote[4] [] {%
22952 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22953 \long\def\@makefntext##1{%
22954 \ExecuteDoHook{footnote/text/begin}%
22955 \raggedfootnote
22956 \if@RTL
22957 \rightskip
22958 \else

```



```

22959     \leftskip
22960   \fi
22961   #2
22962   \l@addto@macro\@trivlist{%
22963     \ifnum\@listdepth=\@one
22964       \if@RTL
22965         \advance\rightmargin #2\relax
22966       \else
22967         \advance\leftmargin #2\relax
22968       \fi
22969     \fi
22970   }%
22971   \parindent #3\noindent
22972   \IfArgIsEmpty{#1}{-}{%
22973     \hskip \dimexpr #1-#2\relax
22974   }%
22975   \ftn@font\hbox to \z@\hss\@makefnmark}##1%
22976   \ExecuteDoHook{footnote/text/end}%
22977 }%
22978 \else
22979   \ClassInfo{\KOMAClassName}{%
22980     Using old \string\@makefnmark\space due to compatibility
22981     level\MessageBreak
22982     less than 3.22}%
22983   \long\def\@makefnmark##1{%
22984     \setlength{\@tempdimc}{#3}%
22985     \def\@tempa{#1}\ifx\@tempa\@empty
22986       \setpar{\@par
22987         \@tempdima = \hsize
22988         \addtolength{\@tempdima}{-#2}%
22989         \if@RTL
22990           \parshape \@one \z@ \@tempdima
22991         \else
22992           \parshape \@one #2 \@tempdima
22993         \fi
22994       }%
22995     \else
22996       \addtolength{\@tempdimc}{#2}%
22997       \addtolength{\@tempdimc}{-#1}%
22998       \setpar{\@par
22999         \@tempdima = \hsize
23000         \addtolength{\@tempdima}{-#1}%
23001         \@tempdimb = \hsize
23002         \addtolength{\@tempdimb}{-#2}%
23003         \if@RTL
23004           \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
23005         \else
23006           \parshape \tw@ #1 \@tempdima #2 \@tempdimb
23007         \fi
23008       }%
23009     \fi
23010   \par
23011   \parindent\@tempdimc\noindent
23012   \ftn@font\hbox to \z@\hss\@makefnmark}##1%

```



```

23013 }%
23014 \fi
23015 \def\@makefnmark{\hbox{\ftnm@font{#4}}}%
23016 }
23017 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
23018 \renewcommand*\left@footnoterule{%
23019 \normalsize\ftn@rule@test@values
23020 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23021 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23022 {\usekomafont{footnoterule}{%
23023 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
23024 \kern 2.6\p@}
23025 \renewcommand*\right@footnoterule{%
23026 \normalsize\ftn@rule@test@values
23027 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
23028 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
23029 {\usekomafont{footnoterule}{%
23030 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
23031 \kern 2.6\p@}
23032 \renewcommand*\maketitle[1][1]{%
23033 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
23034 \else
23035 \def\and{%
23036 \end{tabular}%
23037 \hskip 1em \@plus.17fil%
23038 \begin{tabular}[t]{c}%
23039 }%
23040 \fi
23041 \if@titlepage
23042 \begin{titlepage}
23043 \setcounter{page}{%
23044 #1%
23045 }%
23046 \if@titlepageiscoverpage
23047 \edef\titlename@restore{%
23048 \noexpand\endgroup
23049 \noexpand\global\noexpand\@colht\the\@colht
23050 \noexpand\global\noexpand\@colroom\the\@colroom
23051 \noexpand\global\vsizethe\vsizethe
23052 \noexpand\global\noexpand\@titlepageiscoverpagefalse
23053 \noexpand\let\noexpand\titlename@restore\noexpand\relax
23054 }%
23055 \begingroup
23056 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
23057 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
23058 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
23059 \textwidth=\dimexpr
23060 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
23061 \textheight=\dimexpr
23062 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
23063 \headheight=0pt
23064 \headsep=0pt
23065 \footskip=\baselineskip
23066 \@colht=\textheight

```




```

23067     \@colroom=\textheight
23068     \vsize=\textheight
23069     \columnwidth=\textwidth
23070     \hsize=\columnwidth
23071     \linewidth=\hsize
23072 \else
23073     \let\titlepage@restore\relax
23074 \fi
23075 \let\footnotesize\small
23076 \let\right@footnoterule\relax
23077 \let\left@footnoterule\relax
23078 \let\textwidth@footnoterule\relax
23079 \let\footnote\thanks
23080 \let\LTRfootnote\LTRthanks
23081 \let\RTLfootnote\RTLthanks
23082 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23083 \let\@oldmakefnmark\@makefnmark
23084 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
23085 \ifx\@extratitle\@empty
23086     \ifx\@frontispiece\@empty
23087     \else
23088         \if@twoside\mbox{}\next@tpage\fi
23089         \noindent\@frontispiece\next@tdpage
23090     \fi
23091 \else
23092     \noindent\@extratitle
23093     \ifx\@frontispiece\@empty
23094     \else
23095         \next@tpage
23096         \noindent\@frontispiece
23097     \fi
23098     \next@tdpage
23099 \fi
23100 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
23101 \ifx\@titlehead\@empty \else
23102     \begin{minipage}[t]{\textwidth}%
23103         \usekomafont{titlehead}{\@titlehead\par}%
23104     \end{minipage}\par
23105 \fi
23106 \null\vfill
23107 \begin{center}
23108     \ifx\@subject\@empty \else
23109         {\usekomafont{subject}{\@subject\par}}%
23110         \vskip 3em
23111     \fi
23112     {\usekomafont{title}{\huge \@title\par}}%
23113     \vskip 1em
23114     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
23115     \vskip 2em
23116     {%
23117         \usekomafont{author}{%
23118             \lineskip 0.75em
23119             \begin{tabular}[t]{c}
23120                 \@author

```



```

23121         \end{tabular}\par
23122     }%
23123 }%
23124 \vskip 1.5em
23125 {\usekomafont{date}{\@date \par}}%
23126 \vskip \z@ \@plus3fill
23127 {\usekomafont{publishers}{\@publishers \par}}%
23128 \vskip 3em
23129 \end{center}\par
23130 \@thanks\global\let\@thanks\@empty
23131 \vfill\null
23132 \if@twoside
23133     \@tempswatrue
23134     \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
23135     \else
23136         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
23137             \@tempswafalse
23138         \fi\fi
23139     \fi
23140     \if@tempswa
23141         \next@tpage
23142         \begin{minipage}[t]{\textwidth}
23143             \@uppertitleback
23144         \end{minipage}\par
23145         \vfill
23146         \begin{minipage}[b]{\textwidth}
23147             \@lowertitleback
23148         \end{minipage}\par
23149         \@thanks\global\let\@thanks\@empty
23150     \fi
23151 \else
23152     \ifx\@uppertitleback\@empty\else
23153         \ClassWarning{\KOMAClassName}{%
23154             non empty \string\uppertitleback\space ignored
23155             by \string\maketitle\MessageBreak
23156             in `twoside=false' mode%
23157         }%
23158     \fi
23159     \ifx\@lowertitleback\@empty\else
23160         \ClassWarning{\KOMAClassName}{%
23161             non empty \string\lowertitleback\space ignored
23162             by \string\maketitle\MessageBreak
23163             in `twoside=false' mode%
23164         }%
23165     \fi
23166 \fi
23167 \ifx\@dedication\@empty
23168 \else
23169     \next@tdpage\null\vfill
23170     {\centering\usekomafont{dedication}{\@dedication \par}}%
23171     \vskip \z@ \@plus3fill
23172     \@thanks\global\let\@thanks\@empty
23173     \cleardoubleemptypage
23174 \fi

```



```

23175     \ifx\titlename@restore\relax\else\clearpage\titlename@restore\fi
23176     \end{titlename}
23177 \else
23178     \par
23179     \@tempcnta=%
23180     #1%
23181     \relax\ifnum\@tempcnta=1\else
23182     \ClassWarning{\KOMAClassName}{%
23183     Optional argument of \string\maketitle\space ignored\MessageBreak
23184     in `titlename=false' mode%
23185     }%
23186     \fi
23187     \ifx\@uppertitleback\@empty\else
23188     \ClassWarning{\KOMAClassName}{%
23189     non empty \string\uppertitleback\space ignored
23190     by \string\maketitle\MessageBreak
23191     in `titlename=false' mode%
23192     }%
23193     \fi
23194     \ifx\@lowertitleback\@empty\else
23195     \ClassWarning{\KOMAClassName}{%
23196     non empty \string\lowertitleback\space ignored
23197     by \string\maketitle\MessageBreak
23198     in `titlename=false' mode%
23199     }%
23200     \fi
23201     \begin{group}
23202     \let\titlename@restore\relax
23203     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23204     \let\@oldmakefnmark\@makefnmark
23205     \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
23206     \next@tdpage
23207     \if@twocolumn
23208     \ifnum \col@number=\@ne
23209     \ifx\@extratitle\@empty
23210     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23211     \else
23212     \@makeextratitle
23213     \fi
23214     \ifx\@frontispiece\@empty
23215     \ifx\@extratitle\@empty\else\next@tdpage\fi
23216     \else
23217     \next@tpage
23218     \@makefrontispiece
23219     \next@tdpage
23220     \fi
23221     \@maketitle
23222     \else
23223     \ifx\@extratitle\@empty
23224     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23225     \else
23226     \twocolumn[\@makeextratitle]%
23227     \fi
23228     \ifx\@frontispiece\@empty

```



```

23229         \ifx\@extratitle\@empty\else\next@tdpage\fi
23230     \else
23231         \next@tpage
23232         \twocolumn[\@makefrontispiece]%
23233         \next@tdpage
23234     \fi
23235     \twocolumn[\@maketitle]%
23236 \fi
23237 \else
23238     \ifx\@extratitle\@empty
23239     \ifx\@frontispiece\@empty\else \mbox{}\fi
23240     \else
23241         \@makeextratitle
23242     \fi
23243     \ifx\@frontispiece\@empty
23244     \ifx\@extratitle\@empty\else\next@tdpage\fi
23245     \else
23246         \next@tpage
23247         \@makefrontispiece
23248         \next@tdpage
23249     \fi
23250     \@maketitle
23251 \fi
23252     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
23253     \@thanks\global\let\@thanks\@empty
23254 \endgroup
23255 \fi
23256 \setcounter{footnote}{0}%
23257 \expandafter\ifnum \cscname scr@v@3.12\endcscname>\scr@compatibility\relax
23258     \let\thanks\relax
23259     \let\LTRthanks\relax
23260     \let\RTLthanks\relax
23261     \let\maketitle\relax
23262     \let\@maketitle\relax
23263     \global\let\@thanks\@empty
23264     \global\let\@author\@empty
23265     \global\let\@date\@empty
23266     \global\let\@title\@empty
23267     \global\let\@subtitle\@empty
23268     \global\let\@extratitle\@empty
23269     \global\let\@frontispiece\@empty
23270     \global\let\@titlehead\@empty
23271     \global\let\@subject\@empty
23272     \global\let\@publishers\@empty
23273     \global\let\@uppertitleback\@empty
23274     \global\let\@lowertitleback\@empty
23275     \global\let\@dedication\@empty
23276     \global\let\author\relax
23277     \global\let\title\relax
23278     \global\let\extratitle\relax
23279     \global\let\titlehead\relax
23280     \global\let\subject\relax
23281     \global\let\publishers\relax
23282     \global\let\uppertitleback\relax

```



```

23283 \global\let\lowertitleback\relax
23284 \global\let\dedication\relax
23285 \global\let\date\relax
23286 \fi
23287 \global\let\and\relax
23288 }%
23289 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
23290 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
23291 \renewcommand*\thesection{%
23292 \thechapter\@SepMark%
23293 \@arabic\c@section
23294 }
23295 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
23296 \renewcommand*\thesubsubsection{%
23297 \thesubsection\@SepMark\@arabic\c@subsubsection
23298 }
23299 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
23300 \renewcommand*\thesubparagraph{%
23301 \theparagraph\@SepMark\@arabic\c@subparagraph
23302 }
23303 \expandafter\ifnum\scr@v@is@le{2.97d}%
23304 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
23305 \fi
23306 \expandafter\ifnum\scr@v@is@le{2.97d}%
23307 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
23308 \fi
23309 \renewcommand*\theequation{%
23310 \thechapter\@SepMark%
23311 \@arabic\c@equation
23312 }
23313 \renewenvironment{thebibliography}[1]{%
23314 \if@bib@break@
23315 \bib@beginhook
23316 \else
23317 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
23318 \setchapterpreamble{\bibpreamble}%
23319 \fi\fi
23320 \bib@heading
23321 \bib@beginhook
23322 \bib@before@hook
23323 \fi
23324 \renewcommand{\BreakBibliography}[1]{%
23325 \@bib@break
23326 \end{thebibliography}%
23327 \begingroup ##1\endgroup
23328 \begin{thebibliography}{#1}
23329 }%
23330 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
23331 \bidi@thebibliography@font@hook%
23332 \list{%
23333 \@biblabel{\@arabic\c@enumiv}%
23334 }{%
23335 \settowidth\labelwidth{\@biblabel{#1}}%
23336 \leftmargin\labelwidth

```



```

23337 \advance\leftmargin\labelsep
23338 \@openbib@code
23339 \if@bib@break@
23340 \edef\@tempa{%
23341 \noexpand\usecounter{enumiv}}%
23342 \noexpand\setcounter{enumiv}{\the\c@enumiv}}%
23343 }\@tempa
23344 \no@bib@break
23345 \else
23346 \usecounter{enumiv}}%
23347 \fi
23348 \let\p@enumiv\@empty
23349 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
23350 }%
23351 \sloppy\clubpenalty4000 \widowpenalty4000
23352 \sfcode`\.\@m
23353 }%
23354 \if@bib@break@
23355 \def\@noitemerr{%
23356 \@latex@warning{%
23357 \string\BreakBibliography\space at begin of `thebibliography'
23358 environment\MessageBreak
23359 or following \string\BreakBibliography}}%
23360 }%
23361 \else
23362 \def\@noitemerr{%
23363 \@latex@warning{%
23364 Empty `thebibliography' environment or
23365 \string\BreakBibliography\MessageBreak
23366 before end of `thebibliography' environment}}%
23367 }%
23368 \fi
23369 \endlist
23370 \if@bib@break@
23371 \else
23372 \bib@after@hook
23373 \let\bib@before@hook\@empty
23374 \let\bib@after@hook\@empty
23375 \fi
23376 \bib@endhook
23377 }
23378 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
23379 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
23380 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
23381 \renewcommand\marginline[1]{%
23382 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
23383 }
23384 \renewcommand{\@makecaption}[3]{%
23385 \cap@margin
23386 \begingroup
23387 \ifonelinecaptions
23388 \def\stepcounter##1{\advance\value{##1}\@ne}}%
23389 \let\refstepcounter\stepcounter
23390 \let\label@gobble

```



```

23391 \let\@footnotetext=\@gobble
23392 \let\@LTRfootnotetext=\@gobble
23393 \let\@RTLfootnotetext=\@gobble
23394 \let\hypertarget\@gobbletwo
23395 \edef\@xnewline{%
23396   \unexpanded{\ClassInfo{\KOMAClassName}{%
23397     Workaround for not recommended usage of \string\ or\MessageBreak
23398     \string\newline in caption text
23399   }}%
23400   \hspace*{\linewidth}\hspace{1sp}%
23401 }%
23402 \unexpanded\expandafter{\@xnewline}%
23403 }%
23404 \edef\@xcentercr{%
23405   \unexpanded{\ClassInfo{\KOMAClassName}{%
23406     Workaround for not recommended usage of \string\ or\MessageBreak
23407     \string\newline in caption text
23408   }}%
23409   \hspace*{\linewidth}\hspace{1sp}%
23410 }%
23411 \unexpanded\expandafter{\@xcentercr}%
23412 }%
23413 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
23414 \ifdim\@tempdima>\cap@width
23415   \aftergroup\scr@makemultilinecaption
23416 \else
23417   \aftergroup\scr@makesinglelinecaption
23418 \fi
23419 \else
23420   \aftergroup\scr@makemultilinecaption
23421 \fi
23422 \endgroup
23423 {#1}{#2}{#3}%
23424 }
23425 \renewcommand{\scr@makesinglelinecaption}[3]{%
23426   {%
23427     \usefontofkomafont{caption}{%
23428       \hb@xt@\hsize{%
23429         \cap@left
23430         \if@RTL
23431           \beginR
23432         \fi
23433         \scr@makesinglelinecaption{#1}{#2}{#3}%
23434         \if@RTL
23435           \endR
23436         \fi
23437         \cap@right
23438       }\par\kern\dp\strutbox%
23439     }}%
23440   }\kern-\dp\strutbox
23441 }
23442 \renewcommand{\@makecaption}[2]{%
23443   \if@captionabove
23444     \vskip\belowcaptionskip

```



```

23445 \else
23446   \vskip\abovecaptionskip
23447 \fi
23448 \@makecaption\@firstofone{#1}{#2}%
23449 \if@captionabove
23450   \vskip\abovecaptionskip
23451 \else
23452   \vskip\belowcaptionskip
23453 \fi
23454 }
23455
23456 \renewcommand{\scr@makesinglelinecaption}[3]{%
23457   {\usekomafont{caption}{\strut\ignorespaces
23458     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
23459     \ignorespaces #3\unskip}}%
23460 }
23461
23462 \renewcommand{\scr@makemultilinecaption}[3]{%
23463   {%
23464     \usefontofkomafont{caption}{%
23465       \hb@xt@\hsize{%
23466         \cap@left
23467         \vbox{\hsize\cap@width\linewidth\hsize
23468           \scr@ifundefinedorrelax{@capttype}{%
23469             \ClassWarning{\KOMAClassName}{%
23470               `string\caption' outside float.\MessageBreak
23471               Seems you are using `string\caption' outside a
23472               float.\MessageBreak
23473               Maybe you are using a package that uses
23474               `string\@makecaption'\MessageBreak
23475               without setting `string\@capttype' before.\MessageBreak
23476               Because I cannot detect the caption type, I'm using\MessageBreak
23477               the empty one.%
23478             }}%
23479             \let\@capttype\@empty
23480           }}}%
23481     \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
23482       \@nameuse{ragged\@capttype caption}}%
23483     }%
23484     \ifdofullc@p
23485       \@hangfrom{%
23486         \strut
23487         \scr@smashdp{%
23488           #1{%
23489             \usekomafont{caption}{%
23490               \usekomafont{captionlabel}{#2\captionformat}}%
23491           }}%
23492       }%
23493     }%
23494   }%
23495   {\usekomafont{caption}{#3\scr@endstrut}}\par}%
23496 \else
23497   \ifdim\cap@indent<\z@
23498     \strut

```




```

23499         #1{%
23500             {\usekomafont{caption}{%
23501                 \usekomafont{captionlabel}{#2\captionformat}%
23502             }%
23503         }\par}%
23504         \noindent{{\usekomafont{caption}{%
23505             \hspace*{-\cap@indent}#3\scr@endstrut
23506         }}\par}%
23507     \else
23508         \if@capbreak
23509             \strut
23510             #1{%
23511                 {\usekomafont{caption}{%
23512                     \usekomafont{captionlabel}{#2\captionformat}%
23513                 }%
23514             }\par}%
23515             \noindent\@hangfrom{\hspace*{\cap@indent}}%
23516             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23517     \else
23518         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
23519         {%
23520             \hspace{-\cap@indent}%
23521             \scr@smashdp{%
23522                 #1{\usekomafont{caption}{%
23523                     \usekomafont{captionlabel}{#2\captionformat}%
23524                 }%
23525             }%
23526             }%
23527             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23528         }%
23529         \fi
23530     \fi
23531 \fi
23532 }%
23533 \cap@right
23534 }\par\kern\dp\strutbox
23535 }%
23536 }\kern-\dp\strutbox
23537 }
23538
23539
23540 \bidi@AfterFile{longtable-xetex-bidi.def}{%
23541     \if@komalongtable
23542         \renewcommand{\LT@makecaption}[3]{%
23543             \noalign{%
23544                 \if@captionabove
23545                     \vskip\belowcaptionskip
23546                 \else
23547                     \vskip\abovecaptionskip
23548                 \fi
23549             }%
23550             \LT@mcol\LT@cols c{%
23551                 \hbox to\z@{\hss\parbox[t]\linewidth{%
23552                     \def\capttype{table}%

```



```

23553         \@@makecaption{#1}{#2}{#3}%
23554         \endgraf
23555         \if@captionabove
23556             \vskip\abovecaptionskip
23557         \else
23558             \vskip\belowcaptionskip
23559         \fi
23560     }%
23561     \hss
23562 }%
23563 }%
23564 }%
23565 \renewcommand*{\scr@LT@array}{}%
23566 \let\scr@LT@array=\LT@array
23567 \renewcommand*{\LT@array}{%
23568     \let\scr@caption=\LT@caption
23569     \def\captionabove{\noalign{\global\@captionabovetrue}%
23570         \scr@caption}%
23571     \def\captionbelow{\noalign{\global\@captionabovetrue}%
23572         \scr@caption}%
23573     \if@tablecaptionabove
23574         \let\LT@caption=\captionabove
23575     \else
23576         \let\LT@caption=\captionbelow
23577     \fi
23578     \scr@LT@array
23579 }%
23580 \ClassInfo{\KOMAClassName}{%
23581     longtable captions redefined%
23582 }%
23583 \fi
23584 }
23585
23586 \CloneTOCEntryStyle{tocline}{part}
23587 \TOCEntryStyleStartInitCode{part}{%
23588     \expandafter\renewcommand%
23589     \csname scr@tso@#1@linefill\endcsname{\hfill}%
23590     \expandafter\renewcommand%
23591     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
23592     \expandafter\renewcommand%
23593     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23594         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
23595     \expandafter\renewcommand\expandafter*%
23596     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
23597 }
23598
23599 \CloneTOCEntryStyle{tocline}{chapter}
23600 \TOCEntryStyleStartInitCode{chapter}{%
23601     \expandafter\renewcommand%
23602     \csname scr@tso@#1@linefill\endcsname{%
23603         \if@chapterentrywithdots
23604             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23605         \else
23606             \hfill

```



```

23607     \fi
23608   }%
23609   \expandafter\renewcommand%
23610   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
23611   \expandafter\renewcommand%
23612   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23613     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
23614   \expandafter\renewcommand\expandafter*%
23615   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p0}%
23616 }
23617
23618 \CloneTOCEntryStyle{tocline}{section}
23619 \TOCEntryStyleStartInitCode{section}{%
23620   \expandafter\renewcommand%
23621   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23622     \expandafter\renewcommand%
23623     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23624       {\normalfont\normalcolor ##1}}%
23625 }
23626
23627 \CloneTOCEntryStyle{section}{default}
23628
23629 \DeclareSectionCommand[%
23630   style=chapter,%
23631   level=\z@,%
23632   pagestyle=plain,%
23633   tocstyle=chapter,%
23634   tocindent=\z@,%
23635   tocnumwidth=1.5em%
23636 ]{chapter}
23637 \DeclareSectionCommand[%
23638   style=section,%
23639   level=1,%
23640   indent=\z@,%
23641   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
23642   afterskip=2.3ex \@plus.2ex,%
23643   tocstyle=section,%
23644   tocindentfollows=chapter,%
23645   tocindent=1.5em,%
23646   tocnumwidth=2.3em%
23647 ]{section}
23648 \DeclareSectionCommand[%
23649   style=part,%
23650   level=\m@ne,%
23651   pagestyle=plain,%
23652   tocstyle=part,%
23653   toclevel=\m@ne,%
23654   tocindent=\z@,%
23655   tocnumwidth=2em%
23656 ]{part}
23657 \DeclareSectionCommand[%
23658   style=section,%
23659   level=2,%
23660   indent=\z@,%

```



```

23661 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
23662 afterskip=1.5ex \@plus .2ex,%
23663 tocstyle=section,%
23664 tocindent=3.8em,%
23665 tocnumwidth=3.2em%
23666 ]{subsection}
23667 \DeclareSectionCommand[%
23668 style=section,%
23669 level=3,%
23670 indent=\z@,%
23671 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
23672 afterskip=1.5ex \@plus .2ex,%
23673 tocstyle=section,%
23674 tocindent=7.0em,%
23675 tocnumwidth=4.1em%
23676 ]{subsubsection}
23677 \DeclareSectionCommand[%
23678 style=section,%
23679 level=4,%
23680 indent=\z@,%
23681 beforekip=3.25ex \@plus1ex \@minus .2ex,%
23682 afterskip=-1em,%
23683 tocindentfollows=subsubsection,%
23684 tocstyle=section,%
23685 tocindent=10em,%
23686 tocnumwidth=5em%
23687 ]{paragraph}
23688 \DeclareSectionCommand[%
23689 style=section,%
23690 level=5,%
23691 indent=\scr@parindent,%
23692 beforekip=3.25ex \@plus1ex \@minus .2ex,%
23693 afterskip=-1em,%
23694 tocstyle=section,%
23695 tocindent=12em,%
23696 tocnumwidth=6em%
23697 ]{subparagraph}

```

144 File sidecap-xetex-bidi.def

```

23698 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
23699 \RequirePackage{ragged2e}
23700 \renewcommand*\SC@FLOAT[2]{\if@RTL%
23701   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {#2}\hspace{\sidecaptionsep}{#1}\else%
23702   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {#1}\hspace{\sidecaptionsep}{#2}\fi}
23703 \renewcommand*\SC@justify@caption{\if@RTL%
23704 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
23705   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
23706
23707 \ifpackagewith{sidecap}{innercaption}{%
23708 \if@RTL \renewcommand*\SC@FLOAT[2]{%
23709   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {#1}\hspace{\sidecaptionsep}{#2}}
23710 \renewcommand*\SC@justify@caption{%
23711   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else

```



```

23712 \renewcommand*{\SC@FLOAT}[2]{%
23713   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {#2}\hspace{\sidecaptionsep}{#1}}
23714 \renewcommand*{\SC@justify@caption{%
23715   \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
23716 }{}
23717
23718 \@ifpackagewith{sidecap}{rightcaption}{%
23719   \if@RTL\renewcommand*{\SC@FLOAT}[2]{#1}\hspace{\sidecaptionsep}{#2}}
23720   \def\SC@justify@caption{\RaggedLeft}\else%
23721   \renewcommand*{\SC@FLOAT}[2]{#2}\hspace{\sidecaptionsep}{#1}}
23722   \def\SC@justify@caption{\RaggedRight}\fi%
23723 }{}
23724
23725 \@ifpackagewith{sidecap}{leftcaption}{%
23726   \if@RTL \renewcommand*{\SC@FLOAT}[2]{#2}\hspace{\sidecaptionsep}{#1}}
23727   \def\SC@justify@caption{\RaggedRight}\else%
23728   \renewcommand*{\SC@FLOAT}[2]{#1}\hspace{\sidecaptionsep}{#2}}
23729   \def\SC@justify@caption{\RaggedLeft}\fi%
23730 }{}

```

145 File soul-xetex-bidi.def

```

23731 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
23732 \long\def\SOUL@start#1{%
23733   \let\bidi@RTL@everypar\@empty
23734   \let\<\SOUL@lowerthan
23735   \let\>\empty
23736   \def\soulomit{\noexpand\soulomit}%
23737   \gdef\SOUL@eventuallyexhyphen##1{%
23738     \let\SOUL@soeventuallyskip\relax
23739     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@\font
23740       \@minus\fontdimen4\font
23741     \SOUL@ignorespacesfalse
23742     \leavevmode
23743     \SOUL@preamble
23744     \SOUL@lasttoken={}%
23745     \SOUL@word={}%
23746     \SOUL@minus\z@
23747     \SOUL@comma\z@
23748     \SOUL@apo\z@
23749     \SOUL@grave\z@
23750     \SOUL@do{#1}%
23751     \SOUL@postamble
23752 }}
23753 \def\SOUL@ulunderline#1{%
23754   \setbox\z@\hbox{#1}%
23755   \dimen@=\wd\z@
23756   \dimen@i=\SOUL@uloverlap
23757   \advance\dimen@2\dimen@i
23758   \if@RTL
23759     \unhcopy\z@
23760     \llap{%
23761       \null
23762       \kern-\dimen@i

```



```

23763     \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23764   }%
23765   \else
23766   \rlap{%
23767     \null
23768     \kern-\dimen@
23769     \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23770   }%
23771   \unhcopy\z@
23772   \fi
23773 }}
23774 \def\bidi@SOUL@ulleaders{%
23775   \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule@depth\SOUL@uldp@height\SOUL@ulht}\hss}\vrule@depth\SOUL@uldp@height\SOUL@ulht}%
23776 }
23777 \def\SOUL@uleveryspace#1{%
23778   \if@RTL
23779   #1%
23780   \bidi@SOUL@ulleaders
23781   \hskip\spaceskip
23782   \else
23783   \SOUL@ulcolor{%
23784     #1%
23785     \SOUL@ulleaders
23786     \hskip\spaceskip
23787   }%
23788   \fi
23789   \null
23790 }

```

146 File stabular-xetex-bidi.def

```

23791 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
23792 \def\@stabular{%
23793   \leavevmode \bgroup \if@RTLtab\beginR \fi
23794   \let\@acol\@tabacol
23795   \let\@classz\@tabclassz
23796   \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
23797 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
23798   \egroup \if@RTLtab\endR\fi\egroup}
23799 \expandafter \let \csname endstabular*\endcsname = \endstabular
23800 \def\@sarray[#1]#2{%
23801   \bgroup
23802   \setbox\@arstrutbox\hbox{%
23803     \vrule \@height\arraystretch\ht\strutbox
23804     \@depth\arraystretch \dp\strutbox
23805     \@width\z@}%
23806   \@mkpream{#2}%
23807   \edef\@preamble{%
23808     \ialign \noexpand\@halignto
23809     \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23810   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23811   \let\@tabularnewline\%
23812   \let\@sharp##%
23813   \set@typeset@protect

```



```

23814 \lineskip\z@skip\baselineskip\z@skip
23815 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
23816 \@preamble}

```

147 File subfigure-xetex-bidi.def

```

23817 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
23818 \AtBeginDocument{%
23819 \let\p@subfigure=\thefigure
23820 \let\p@subtable=\thetable%
23821 }

```

148 File tabs-xetex-bidi.def

```

23822 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for X
23823 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
23824
23825 \expandafter\let\csname endtabular*\endcsname=\endtabular
23826
23827 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
23828 \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
23829 \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
23830
23831 \def\@array[#1]#2{% remember global variables to allow recursion:
23832 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
23833 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
23834 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
23835 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
23836 \else \let\@tarlinesep\tablinese \fi
23837 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
23838 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
23839 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
23840 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
23841 \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@size
23842 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
23843 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
23844 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
23845 \let\protect\noexpand
23846 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
23847 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
23848 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23849 \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
23850 \bgroup \let\par\@empty
23851 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
23852 \advance\extrarulesep.5\arrayrulewidth
23853 \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
23854 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\vtop \else \vbox \fi\bgroup\fi
23855 \@preamble}

```

149 File tabularx-xetex-bidi.def

```

23856 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package
23857 \def\TX@endtabularx{%
23858 \expandafter\expandafter\expandafter

```



```

23859     \TX@find@endtabularxa\csname end\TX@\endcsname
23860     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
23861 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
23862 \let\verb\TX@verb
23863 \def@elt##1{\global\value{##1}\the\value{##1}\relax}%
23864 \edef\TX@ckpt{\cl@ckpt}%
23865 \let@elt\relax
23866 \TX@old@table\maxdimen
23867 \TX@col@width\TX@target
23868 \global\TX@cols\@ne
23869 \TX@typeout@
23870   {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
23871 \TX@trial{\def\NC@rewriteX{%
23872   \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
23873 \loop
23874   \TX@arith
23875   \ifTX@
23876   \TX@trial{%
23877 \repeat
23878 {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
23879 \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
23880 \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
23881 \csname tabular*\expandafter\endcsname\expandafter\TX@target
23882 \the\toks@
23883 \csname endtabular*\endcsname}%
23884 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
23885 \ifnum0=\fi}%
23886 \expandafter\expandafter\expandafter
23887 \TX@find@endtabularxbb
23888 \expandafter\end\expandafter{\TX@}%
23889 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
23890 }
23891
23892 \def\TX@trial#1{%
23893   \setbox\@tempboxa\hbox{%
23894     #1\relax
23895   \let\@footnotetext\TX@trial@ftn
23896   \let\@LTRfootnotetext\TX@trial@ftn
23897   \let\@RTLfootnotetext\TX@trial@ftn
23898   \let\TX@vwarn\@empty
23899   \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
23900   \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
23901   \def\write{\begingroup
23902     \def\let{\afterassignment\endgroup\toks@}%
23903     \afterassignment\let\count@}%
23904     \hbadness\@M
23905     \hfuzz\maxdimen
23906     \let\hbadness\@tempcnta
23907     \let\hfuzz\@tempdima
23908     \expandafter\tabular\the\toks@
23909     \endtabular}%
23910 \TX@ckpt
23911 \TX@typeout@{\@spaces
23912   \expandafter\TX@align

```




```

23913         \the\wd\@tempboxa\space\space\space\space\space\@@
23914     \expandafter\TX@align
23915         \the\TX@col@width\space\space\space\space\space\@@
23916     \@spaces\the\TX@cols}}
23917
23918 \long\def\TX@LTRftntext#1{%
23919     \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
23920         [\the\csname c@\@mpfn\endcsname]}%
23921     \global\TX@ftn\expandafter{\@tempa{#1}}}%
23922 \long\def\TX@xLTRftntext[#1]#2{%
23923     \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
23924
23925 \long\def\TX@RTLftntext#1{%
23926     \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
23927         [\the\csname c@\@mpfn\endcsname]}%
23928     \global\TX@ftn\expandafter{\@tempa{#1}}}%
23929 \long\def\TX@xRTLftntext[#1]#2{%
23930     \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

150 File tabulary-xetex-bidi.def

```

23931 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
23932 \def\@testpach{\@chclass
23933     \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
23934     \ifnum \@lastchclass=7 5 \else
23935     \ifnum \@lastchclass=8 \tw@ \else
23936     \ifnum \@lastchclass=9 \thr@@
23937     \else \z@
23938     \ifnum \@lastchclass = 10 \else
23939     \edef\@nextchar{\expandafter\string\@nextchar}%
23940     \@chnum
23941     \if \@nextchar c\z@ \else
23942     \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
23943     \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
23944     \if \@nextchar C7 \else
23945     \if \@nextchar L8 \else
23946     \if \@nextchar R9 \else
23947     \if \@nextchar J10 \else
23948     \z@ \@chclass
23949     \if \@nextchar |\@ne \else
23950     \if \@nextchar !6 \else
23951     \if \@nextchar @7 \else
23952     \if \@nextchar <8 \else
23953     \if \@nextchar >9 \else
23954     10
23955     \@chnum
23956     \if \@nextchar m\thr@@\else
23957     \if \@nextchar p4 \else
23958     \if \@nextchar b5 \else
23959     \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi
23960     \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

151 File tc-xetex-xetex-bidi.def



```

23961 \ProvidesFile{tc-xetex-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver
23962 \def\@cliptoboxdim#1{%
23963   \setbox#1=\hbox{%
23964     \Gin@defaultbp\WIDTH{\wd#1}%
23965     \Gin@defaultbp\DEPTH{\dp#1}%
23966     \@tempdima\ht#1%
23967     \advance\@tempdima\dp#1%
23968     \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
23969     \beginL\special{pdf:bcontent }%
23970     \special{%
23971       pdf:literal direct
23972         0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
23973     }%
23974     \special{pdf:literal direct W }%
23975     \special{pdf:literal direct n }%
23976     \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
23977     \special{pdf:econtent }\endL%
23978   }%
23979 }

```

152 File tcolorbox-xetex-bidi.def

```

23980 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
23981 \let\endtcblrbox=\endminipage
23982 \let\endtcbsavebox=\endtcblrbox
23983
23984 \bidi@patchcmd{\tcb@vbox}{%
23985   \let\@footnotetext\@mpfootnotetext%
23986 }{%
23987   \let\@footnotetext\@mpfootnotetext%
23988   \let\@LTRfootnotetext\@mpLTRfootnotetext%
23989   \let\@RTLfootnotetext\@mpRTLfootnotetext%
23990 }{}{}
23991
23992 \bidi@patchcmd{\endtcbsavebox}{%
23993   \footnoterule%
23994 }{%
23995   \bidi@mpfootnoterule%
23996 }{}{}
23997 \bidi@apptocmd\tcb@icolorbox{%
23998   \@bidi@list@minipage@parboxfalse
23999 }{}{}

```

153 File titlesec-xetex-bidi.def

```

24000 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
24001 \renewcommand\filright{%
24002   \gdef\ttl@filleft##1{\hskip##1}%
24003   \gdef\ttl@filright##1{\hfill}%
24004   \let\@centercr
24005   \advance\rightskip\z@ \@plus 1fil
24006   \parfillskip\z@}
24007 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
24008   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%

```



```

24009 \setlength\leftskip{#6}%
24010 \setlength\rightskip{#7}%
24011 \interlinepenalty\@M
24012 \ttl@changecentercr
24013 \ttl@beginlongest
24014 #1{\ifhmode\ttl@hmode@error\fi
24015 \ttl@glcmds
24016 \parindent\z@
24017 \leavevmode
24018 \begingroup
24019 \ifttl@label
24020 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
24021 \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
24022 \llap{\box\z@}%
24023 \fi
24024 #4{#8}%
24025 \kern\z@\strut\@par
24026 \endgroup
24027 \nobreak\ttl@midlongest#5\@par}%
24028 \ttl@endlongest}

```

154 File `titletoc-xetex-bidi.def`

```

24029 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
24030 \renewcommand\filright{%
24031 \gdef\ttl@filleft##1{\hskip##1}%
24032 \gdef\ttl@filright##1{\hfill}%
24033 \let\\\@centercr
24034 \advance\rightskip\z@ \@plus 1fil
24035 \parfillskip\z@}
24036 \renewcommand\contentspush[1]{%
24037 \sbox\z@{#1}%
24038 \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
24039 \aftergroup\ttl@b
24040 \leavevmode\llap{\box\z@}}
24041 \def\ttl@outnoblock#1#2#3{%
24042 \begingroup
24043 \ifnum\ttl@b>\ttl@a
24044 \nobreak
24045 \else\ifnum\ttl@b<\ttl@a
24046 \addpenalty{\@secpenalty}%
24047 \else
24048 \addpenalty{\z@}%
24049 \fi\fi
24050 \ttl@contentsstretch
24051 \nobreak
24052 \ifcase#1\relax\else\interlinepenalty\@M\fi
24053 \parindent\z@
24054 \ifx\@nil#2%
24055 \PackageError{titletoc}{Unimplemented}%
24056 {The optional argument is currently mandatory}%
24057 \else
24058 \if@RTL\setlength\rightskip{#2}\else
24059 \setlength\leftskip{#2}\fi%

```



```

24060 \fi
24061 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
24062 \let\contentsmargin\ttl@margin
24063 \def\ttl@makeline##1{##1}%
24064 #3%
24065 \addtolength{\parfillskip}{-\ttl@corr}%
24066 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
24067 \let\ttl@leaders\leaders}
24068 \renewcommand\ttl@margin[2][\z@]{%
24069 \def\ttl@corr{#1}%
24070 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
24071 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
24072 \def\@pnumwidth{#2}}
24073 \let\ttl@savel@part\l@part
24074 \def\l@part{\ttl@lselect{part}}
24075
24076 \let\ttl@savel@chapter\l@chapter
24077 \def\l@chapter{\ttl@lselect{chapter}}

```

155 File tocbibind-xetex-bidi.def

```

24078 \ProvidesFile{tocbibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind packa
24079 \IfClassLoadedT{memoir}{\endinput}
24080 \if@dotocbib
24081 \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
24082 \renewcommand{\bibsection}{\tcb@bchapsec}
24083 \renewenvironment{thebibliography}[1]{%
24084 \bibsection
24085 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
24086 \renewenvironment{thebibitemlist}[1]{
24087 \if@RTL\if@LTRbibitems@RTLfalse\else\fi\else\if@RTLbibitems@RTLtrue\else\fi\fi
24088 \bidi@@thebibliography@font@hook%
24089 \list{\@biblabel{\@arabic\c@enumiv}}%
24090 {\settowidth\labelwidth{\@biblabel{#1}}%
24091 \leftmargin\labelwidth
24092 \advance\leftmargin\labelsep
24093 \@openbib@code
24094 \usecounter{enumiv}%
24095 \let\p@enumiv\@empty
24096 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
24097 \sloppy
24098 \clubpenalty4000
24099 \@clubpenalty \clubpenalty
24100 \widowpenalty4000%
24101 \sfcode`\.\@m}
24102 {\def\@noitemerr
24103 {\@latex@warning{Empty `thebibliography' environment}}%
24104 \endlist}
24105
24106 \ApplyPatchCodeToPackage{chapterbib}{%
24107 \ifpackagewith{chapterbib}{sectionbib}%
24108 {\renewcommand{\sectionbib}[2]{}%
24109 {}%
24110 }

```



```

24111
24112 \fi
24113 \if@inltxdoc\else
24114   \renewenvironment{theindex}%
24115     {\if@twocolumn
24116       \@restonecolfalse
24117     \else
24118       \@restonecoltrue
24119     \fi
24120   \if@bibchapter
24121     \if@donumindex
24122       \refstepcounter{chapter}
24123       \twocolumn[\vspace*{2\topskip}%
24124         \@makechapterhead{\indexname}]%
24125       \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
24126       \chaptermark{\indexname}
24127     \else
24128       \if@dotocind
24129         \twocolumn[\vspace*{2\topskip}%
24130           \@makeschapterhead{\indexname}]%
24131         \prw@mkboth{\indexname}
24132         \addcontentsline{toc}{chapter}{\indexname}
24133       \else
24134         \twocolumn[\vspace*{2\topskip}%
24135           \@makeschapterhead{\indexname}]%
24136         \prw@mkboth{\indexname}
24137       \fi
24138     \fi
24139   \else
24140     \if@donumindex
24141       \twocolumn[\vspace*{-1.5\topskip}%
24142         \@nameuse{\@tocextra}{\indexname}]%
24143       \csname \@tocextra mark\endcsname{\indexname}
24144     \else
24145       \if@dotocind
24146         \twocolumn[\vspace*{-1.5\topskip}%
24147           \toc@headstar{\@tocextra}{\indexname}]%
24148         \prw@mkboth{\indexname}
24149         \addcontentsline{toc}{\@tocextra}{\indexname}
24150       \else
24151         \twocolumn[\vspace*{-1.5\topskip}%
24152           \toc@headstar{\@tocextra}{\indexname}]%
24153         \prw@mkboth{\indexname}
24154       \fi
24155     \fi
24156   \fi
24157   \thispagestyle{plain}\parindent\z@
24158   \parskip\z@ \@plus .3\p@\relax
24159   \let\item\@idxitem}
24160   {\if@restonecol\onecolumn\else\clearpage\fi}
24161 \fi

```

156 File tocloft-xetex-bidi.def



```

24162 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
24163 \IfClassLoadedT{memoir}{\endinput}
24164 \renewcommand{\cftpnalign}{\ifRTL l\else r\fi}
24165 \let\cftdot\@SepMark
24166 \if@cfthaspart
24167 \renewcommand*{\l@part}[2]{
24168   \@cftdopartfalse
24169   \ifnum \c@tocdepth >-2\relax
24170     \if@cfthaschapter
24171       \cftdoparttrue
24172     \fi
24173     \ifnum \c@tocdepth >\m@ne
24174       \if@cfthaschapter\else
24175         \cftdoparttrue
24176       \fi
24177     \fi
24178   \fi
24179   \if@cftdopart
24180     \if@cfthaschapter
24181       \addpenalty{-\@highpenalty}
24182     \else
24183       \addpenalty\@secpenalty
24184     \fi
24185     \addvspace{\cftbeforepartskip}
24186     \begingroup
24187     {\ifRTL\rightskip\else\leftskip\fi \cftpartindent\relax
24188     \ifRTL\leftskip\else\rightskip\fi \@tocmarg
24189     \parfillskip -\ifRTL\leftskip\else\rightskip\fi
24190     \parindent \cftpartindent\relax\@afterindenttrue
24191     \interlinepenalty\@M
24192     \leavevmode
24193     \@tempdima \cftpartnumwidth\relax
24194     \let\@cftbsnum \cftpartpresnum
24195     \let\@cftasnum \cftpartaftersnum
24196     \let\@cftasnumb \cftpartaftersnumb
24197     \advance\ifRTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\ifRTL\ri
24198     {\cftpartfont \cftpartpresnum #1}
24199     \cftpartfillnum{#2}}
24200     \nobreak
24201     \if@cfthaschapter
24202       \global\@nobreaktrue
24203       \everypar{\global\@nobreakfalse\everypar{}}
24204     \else
24205       \if@compatibility
24206         \global\@nobreaktrue
24207         \everypar{\global\@nobreakfalse\everypar{}}
24208       \fi
24209     \fi
24210     \endgroup
24211   \fi}
24212 \fi
24213 \if@cfthaschapter
24214 \renewcommand*{\l@chapter}[2]{
24215   \ifnum \c@tocdepth >\m@ne

```



```

24216 \addpenalty{-\@highpenalty}
24217 \vskip \cftbeforechapskip
24218 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
24219 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24220 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24221 \parindent \cftchapindent\relax\@afterindenttrue
24222 \interlinepenalty\@M
24223 \leavevmode
24224 \@tempdima \cftchapnumwidth\relax
24225 \let\@cftbsnum \cftchappresnum
24226 \let\@cftasnum \cftchapaftersnum
24227 \let\@cftasnumb \cftchapaftersnumb
24228 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24229 {\cftchapfont #1}\nobreak
24230 \cftchapfillnum{#2}}
24231 \fi}
24232 \fi
24233 \renewcommand*\l@section}[2]{%
24234 \ifnum \c@tocdepth >\z@
24235 \if@cfthaschapter
24236 \vskip \cftbeforesecskip
24237 \else
24238 \addpenalty\@secpenalty
24239 \addvspace{\cftbeforesecskip}
24240 \fi
24241 {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
24242 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24243 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24244 \parindent \cftsecindent\relax\@afterindenttrue
24245 \interlinepenalty\@M
24246 \leavevmode
24247 \@tempdima \cftsecnumwidth\relax
24248 \let\@cftbsnum \cftsecpresnum
24249 \let\@cftasnum \cftsecaftersnum
24250 \let\@cftasnumb \cftsecaftersnumb
24251 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24252 {\cftsecfont #1}\nobreak
24253 \cftsecfillnum{#2}}
24254 \fi}
24255 \renewcommand*\l@subsection}[2]{%
24256 \ifnum \c@tocdepth >\@ne
24257 \vskip \cftbeforesubsecskip
24258 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
24259 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24260 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24261 \parindent \cftsubsecindent\relax\@afterindenttrue
24262 \interlinepenalty\@M
24263 \leavevmode
24264 \@tempdima \cftsubsecnumwidth\relax
24265 \let\@cftbsnum \cftsubsecpresnum
24266 \let\@cftasnum \cftsubsecaftersnum
24267 \let\@cftasnumb \cftsubsecaftersnumb
24268 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24269 {\cftsubsecfont #1}\nobreak

```



```

24270     \cftsubsecfillnum{#2}}
24271 \fi}
24272 \renewcommand*\l@subsubsection}[2]{%
24273   \ifnum \c@tocdepth >\tw@
24274     \vskip \cftbeforesubsubsecskip
24275     {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
24276     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24277     \parfillskip -\if@RTL\leftskip\else\righskip\fi
24278     \parindent \cftsubsubsecindent\relax\@afterindenttrue
24279     \interlinepenalty\@M
24280     \leavevmode
24281     \@tempdima \cftsubsubsecnumwidth\relax
24282     \let\@cftbsnum \cftsubsubsecpresnum
24283     \let\@cftasnum \cftsubsubsecaftersnum
24284     \let\@cftasnumb \cftsubsubsecaftersnumb
24285     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24286     {\cftsubsubsecfont #1}\nobreak
24287     \cftsubsubsecfillnum{#2}}
24288 \fi}
24289 \renewcommand*\l@paragraph}[2]{%
24290   \ifnum \c@tocdepth >3\relax
24291     \vskip \cftbeforeparaskip
24292     {\if@RTL\righskip\else\leftskip\fi \cftparindent\relax
24293     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24294     \parfillskip -\if@RTL\leftskip\else\righskip\fi
24295     \parindent \cftparindent\relax\@afterindenttrue
24296     \interlinepenalty\@M
24297     \leavevmode
24298     \@tempdima \cftparanumwidth\relax
24299     \let\@cftbsnum \cftparapresnum
24300     \let\@cftasnum \cftparaaftersnum
24301     \let\@cftasnumb \cftparaaftersnumb
24302     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24303     {\cftparafont #1}\nobreak
24304     \cftparafillnum{#2}}
24305 \fi}
24306 \renewcommand*\l@subparagraph}[2]{%
24307   \ifnum \c@tocdepth >4\relax
24308     \vskip \cftbeforesubparaskip
24309     {\if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
24310     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24311     \parfillskip -\if@RTL\leftskip\else\righskip\fi
24312     \parindent \cftsubparaindent\relax\@afterindenttrue
24313     \interlinepenalty\@M
24314     \leavevmode
24315     \@tempdima \cftsubparanumwidth\relax
24316     \let\@cftbsnum \cftsubparapresnum
24317     \let\@cftasnum \cftsubparaaftersnum
24318     \let\@cftasnumb \cftsubparaaftersnumb
24319     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24320     {\cftsubparafont #1}\nobreak
24321     \cftsubparafillnum{#2}}
24322 \fi}
24323 \renewcommand*\l@figure}[2]{%

```




```

24324 \ifnum \c@lofdepth >\z@
24325   \vskip \cftbeforefigskip
24326   {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
24327   \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24328   \parfillskip -\if@RTL\leftskip\else\righskip\fi
24329   \parindent \cftfigindent\relax\@afterindenttrue
24330   \interlinepenalty\@M
24331   \leavevmode
24332   \@tempdima \cftfignumwidth\relax
24333   \let\@cftbsnum \cftfigpresnum
24334   \let\@cftasnum \cftfigaftersnum
24335   \let\@cftasnumb \cftfigaftersnumb
24336   \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24337   {\cftfigfont #1}\nobreak
24338   \cftfigfillnum{#2}}
24339   \fi
24340 }
24341 \renewcommand*\l@table}[2]{%
24342   \ifnum\c@lotdepth >\z@
24343     \vskip \cftbeforetabskip
24344     {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
24345     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24346     \parfillskip -\if@RTL\leftskip\else\righskip\fi
24347     \parindent \cfttabindent\relax\@afterindenttrue
24348     \interlinepenalty\@M
24349     \leavevmode
24350     \@tempdima \cfttabnumwidth\relax
24351     \let\@cftbsnum \cfttabpresnum
24352     \let\@cftasnum \cfttabaftersnum
24353     \let\@cftasnumb \cfttabaftersnumb
24354     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24355     {\cfttabfont #1}\nobreak
24356     \cfttabfillnum{#2}}
24357     \fi
24358   }
24359 \renewcommand{\@cftl@subfig}{
24360 \renewcommand*\l@subfigure}[2]{%
24361   \ifnum \c@lofdepth > \toclevel@subfigure
24362     \vskip \cftbeforesubfigskip
24363     {\if@RTL\righskip\else\leftskip\fi \cftsubfigindent\relax
24364     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24365     \parfillskip -\if@RTL\leftskip\else\righskip\fi
24366     \parindent \cftsubfigindent\relax\@afterindenttrue
24367     \interlinepenalty\@M
24368     \leavevmode
24369     \@tempdima \cftsubfignumwidth\relax
24370     \let\@cftbsnum \cftsubfigpresnum
24371     \let\@cftasnum \cftsubfigaftersnum
24372     \let\@cftasnumb \cftsubfigaftersnumb
24373     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24374     {\cftsubfigfont ##1}\nobreak
24375     \cftsubfigfillnum{##2}}
24376     \fi
24377   }

```



```

24378 }
24379 \renewcommand{\@cftl@subtab}{
24380 \renewcommand*\l@subtable}[2]{%
24381 \ifnum \c@lotdepth > \toclevel@subtable
24382 \vskip \cftbeforesubtabskip
24383 {\if@RTL\righskip\else\leftskip\fi \cftsubtabindent\relax
24384 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24385 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24386 \parindent \cftsubtabindent\relax\@afterindenttrue
24387 \interlinepenalty\@M
24388 \leavevmode
24389 \@tempdima \cftsubtabnumwidth\relax
24390 \let\@cftbsnum \cftsubtabpresnum
24391 \let\@cftasnum \cftsubtabaftersnum
24392 \let\@cftasnumb \cftsubtabaftersnumb
24393 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24394 {\cftsubtabfont ##1}\nobreak
24395 \cftsubtabfillnum{##2}}
24396 \fi
24397 }
24398 }
24399 \renewcommand{\newlistentry}[4][\@empty]{%
24400 \@ifundefined{c@#2}{% check & set the counter
24401 \ifx \@empty#1\relax
24402 \newcounter{#2}
24403 \else
24404 \@ifundefined{c@#1}{\PackageWarning{tocloft}%
24405 #1 has no counter for use as a `within'}
24406 \newcounter{#2}}%
24407 {\newcounter{#2}[#1}%
24408 \expandafter\edef\csname the#2\endcsname{%
24409 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}
24410 \fi
24411 \setcounter{#2}{0}
24412 }
24413 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
24414
24415 \@namedef{l@#2}##1##2{%
24416 \ifnum \@nameuse{c@#3depth} > #4\relax
24417 \vskip \@nameuse{cftbefore#2skip}
24418 {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
24419 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
24420 \parfillskip -\if@RTL\leftskip\else\righskip\fi
24421 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
24422 \interlinepenalty\@M
24423 \leavevmode
24424 \@tempdima \@nameuse{cft#2numwidth}\relax
24425 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
24426 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
24427 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
24428 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24429 {\@nameuse{cft#2font}##1}\nobreak
24430 \@nameuse{cft#2fillnum}{##2}}
24431 \fi

```



```

24432 } % end of \l@#2
24433
24434 \expandafter\newlength\csname cftbefore#2skip\endcsname
24435 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
24436 \expandafter\newlength\csname cft#2indent\endcsname
24437 \expandafter\newlength\csname cft#2numwidth\endcsname
24438 \ifcase #4\relax % 0
24439 \setlength{\@nameuse{cft#2indent}}{0em}
24440 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
24441 \or % 1
24442 \setlength{\@nameuse{cft#2indent}}{1.5em}
24443 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
24444 \or % 2
24445 \setlength{\@nameuse{cft#2indent}}{3.8em}
24446 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
24447 \or % 3
24448 \setlength{\@nameuse{cft#2indent}}{7.0em}
24449 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
24450 \else % anything else
24451 \setlength{\@nameuse{cft#2indent}}{10.0em}
24452 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
24453 \fi
24454 \@namedef{cft#2font}{\normalfont}
24455 \@namedef{cft#2presnum}{}
24456 \@namedef{cft#2aftersnum}{}
24457 \@namedef{cft#2aftersnumb}{}
24458 \@namedef{cft#2dotsep}{\cftdotsep}
24459 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
24460 \@namedef{cft#2pagefont}{\normalfont}
24461 \@namedef{cft#2afterpnum}{}
24462 \@namedef{toclevel@#2}{#4}
24463 \@namedef{cft#2fillnum}##1{%
24464 {\@nameuse{cft#2leader}}\nobreak
24465 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
24466 } % end \newlistentry
24467 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
24468 {\ifRTL\rightskip\else\leftskip\fi \cftchapindent\relax
24469 \advance\ifRTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
24470 \ifRTL\leftskip\else\rightskip\fi \@tocmarg\relax
24471 \textit{#1}\protect\par}}}

```

157 File tocbasic-xetex-bidi.def

```

24472 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
24473 \bidi@undef\scr@dte@def@1@undottedtocline
24474 \bidi@undef\scr@dte@undottedtocline@init
24475 \DeclareTOCEntryStyle{undottedtocline}{%
24476 \DefineTOCEntryLengthOption{indent}%
24477 {\scr@tso@}{@indent}{entry indent}%
24478 \DefineTOCEntryLengthOption{numwidth}%
24479 {\scr@tso@}{@numwidth}{entry number width}%
24480 \@ifundefined{#1tocdepth}{%
24481 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24482 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%

```



```

24483 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24484 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24485 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24486 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24487 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24488 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24489 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24490 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24491 \csname #1numdepth\endcsname
24492 }%
24493 }%
24494 }%
24495 }%
24496 }%
24497 }%
24498 }%
24499 }%
24500 }%
24501 }{}%
24502 \@ifundefined{scr@tso@#1@indent}{%
24503 \ifundefined{scr@#1@tocindent}{%
24504 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24505 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24506 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24507 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24508 \scr@ifundefinedorrelax{1@chapter}{%
24509 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{Opt}}{%
24510 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24511 \Ifstr{#1}{subsubsection}{%
24512 \@namedef{scr@tso@#1@indent}{3.8em}}%
24513 }{}%
24514 \Ifstr{#1}{paragraph}{%
24515 \@namedef{scr@tso@#1@indent}{7em}}%
24516 }{}%
24517 \Ifstr{#1}{subparagraph}{%
24518 \@namedef{scr@tso@#1@indent}{10em}}%
24519 }{}%
24520 }%
24521 }%
24522 }%
24523 }%
24524 }%
24525 }{}%
24526 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24527 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24528 \Ifstr{#1}{subsubsection}{%
24529 \@namedef{scr@tso@#1@indent}{7.0em}}%
24530 }{}%
24531 \Ifstr{#1}{paragraph}{%
24532 \@namedef{scr@tso@#1@indent}{10em}}%
24533 }{}%
24534 \Ifstr{#1}{subparagraph}{%
24535 \@namedef{scr@tso@#1@indent}{12em}}%
24536 }{}%

```



```

24537         }%
24538     }%
24539 }%
24540     }%
24541 }%
24542     }%
24543 }%
24544     }%
24545 }%
24546     }%
24547 }{-%
24548     \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24549 }%
24550 }{-}%
24551 \@ifundefined{scr@tso@#1@numwidth}{%
24552     \@ifundefined{scr@#1@tocnumwidth}{%
24553         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24554             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24555                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24556                     \scr@ifundefinedorrelax{chapter}{%
24557                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24558                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24559                                 \Ifstr{#1}{subsubsection}{%
24560                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
24561                                 }{-%
24562                                     \Ifstr{#1}{paragraph}{%
24563                                         \@namedef{scr@tso@#1@numwidth}{4.1em}%
24564                                     }{-%
24565                                         \Ifstr{#1}{subparagraph}{%
24566                                             \@namedef{scr@tso@#1@numwidth}{5em}%
24567                                         }{-%
24568                                             }%
24569                                         }%
24570                                     }%
24571                                 }%
24572                             }%
24573                         }{-%
24574                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24575                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
24576                                     \Ifstr{#1}{subsubsection}{%
24577                                         \@namedef{scr@tso@#1@numwidth}{3.1em}%
24578                                     }{-%
24579                                         \Ifstr{#1}{paragraph}{%
24580                                             \@namedef{scr@tso@#1@numwidth}{5em}%
24581                                         }{-%
24582                                             \Ifstr{#1}{subparagraph}{%
24583                                                 \@namedef{scr@tso@#1@numwidth}{6em}%
24584                                             }{-%
24585                                                 }%
24586                                             }%
24587                                         }%
24588                                     }%
24589                                 }%
24590                             }%

```



```

24591     }%
24592   }%
24593 }%
24594 }{%
24595   \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
24596 }%
24597 }{%
24598 }]{%
24599 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24600   \ifnum \@nameuse{#1tocdepth}<\@ne
24601     \scr@ifundefinedorrelax{chapter}{%
24602       \addpenalty\@secpenalty
24603       \addvspace{1.0em \@plus\p@}%
24604     }{%
24605       \addpenalty{-\@highpenalty}%
24606       \vskip 1.0em \@plus\p@
24607     }%
24608   \else
24609     \addpenalty\@secpenalty
24610     \addvspace{1.0em \@plus\p@}%
24611   \fi
24612   \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
24613   \begingroup
24614     \parindent \z@ \bidi@rightskip \@pnumwidth
24615     \parfillskip -\@pnumwidth
24616     \leavevmode
24617     \bfseries
24618     \advance\bidi@leftskip\@tempdima
24619     \IfTOCfeature{\@current}{noindent}{%
24620       \hskip -\bidi@leftskip
24621     }{%
24622       \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24623       \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
24624     }%
24625     ##1%
24626     \nobreak
24627     \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24628     \par
24629     \penalty\@highpenalty
24630   \endgroup
24631 \fi
24632 }
24633
24634 \bidi@undef\scr@dte@def@l@targetocline
24635 \bidi@undef\scr@dte@targetocline@init
24636 \DeclareTOCEntryStyle{largetocline}[{%
24637   \DefineTOCEntryLengthOption{indent}%
24638   {scr@tso@}{@indent}{entry indent}%
24639   \@ifundefined{#1tocdepth}{%
24640     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24641       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24642         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24643           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24644             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%

```



```

24645 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24646 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24647 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24648 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24649 \expandafter\let\csname #1tocdepth\expandafter\endcsname
24650 \csname #1numdepth\endcsname
24651 }%
24652 }%
24653 }%
24654 }%
24655 }%
24656 }%
24657 }%
24658 }%
24659 }%
24660 }{}%
24661 \@ifundefined{scr@tso@#1@indent}{%
24662 \ifundefined{scr@#1@tocindent}{%
24663 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24664 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24665 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24666 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24667 \scr@ifundefinedorrelax{1@chapter}{%
24668 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24669 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24670 \Ifstr{#1}{subsubsection}{%
24671 \@namedef{scr@tso@#1@indent}{3.8em}}%
24672 }{%
24673 \Ifstr{#1}{paragraph}{%
24674 \@namedef{scr@tso@#1@indent}{7em}}%
24675 }{%
24676 \Ifstr{#1}{subparagraph}{%
24677 \@namedef{scr@tso@#1@indent}{10em}}%
24678 }{%
24679 }%
24680 }%
24681 }%
24682 }%
24683 }%
24684 }{}%
24685 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24686 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24687 \Ifstr{#1}{subsubsection}{%
24688 \@namedef{scr@tso@#1@indent}{7.0em}}%
24689 }{%
24690 \Ifstr{#1}{paragraph}{%
24691 \@namedef{scr@tso@#1@indent}{10em}}%
24692 }{%
24693 \Ifstr{#1}{subparagraph}{%
24694 \@namedef{scr@tso@#1@indent}{12em}}%
24695 }{%
24696 }%
24697 }%
24698 }%

```



```

24699         }%
24700     }%
24701     }%
24702     }%
24703     }%
24704     }%
24705     }%
24706     }{%
24707     \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24708     }%
24709     }{%
24710 }}{%
24711 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24712     \ifnum \@nameuse{#1tocdepth}<\@ne
24713         \scr@ifundefinedorrelax{chapter}{%
24714             \addpenalty\@secpenalty
24715             \addvspace{2.25em \@plus\p@}%
24716         }{%
24717             \addpenalty{-\@highpenalty}%
24718             \addvspace{2.25em \@plus\p@}%
24719         }%
24720     \else
24721         \addpenalty\@secpenalty
24722         \addvspace{2.25em \@plus\p@}%
24723     \fi
24724     \setlength\@tempdima{3em}%
24725     \begingroup
24726         \parindent \z@ \bidi@rightskip \@pnumwidth
24727         \parfillskip -\@pnumwidth
24728         \leavevmode
24729         \large
24730         \bfseries
24731         \IfTocFeature{\@current}{noindent}{%
24732         }{%
24733             \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24734         }%
24735         ##1%
24736         \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24737         \par
24738         \nobreak
24739         \ifnum 0=
24740             \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
24741             \global\@nobreaktrue
24742             \everypar{\global\@nobreakfalse\everypar{}}%
24743         \fi
24744     \endgroup
24745 \fi
24746 }
24747
24748 \renewcommand*{\scr@dte@tocline}[3]{%
24749     \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
24750     \else
24751         \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
24752         \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax

```




```

24753 \@nameuse{Ifscr@tso@#1@dynindent}{%
24754 \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
24755 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
24756 \else
24757 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
24758 \@for \reserved@a:=\reserved@a\do {%
24759 \scr@trim@spaces\reserved@a
24760 \ifx\reserved@a\@empty\else
24761 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
24762 }{%
24763 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
24764 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
24765 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
24766 \scr@ifundefinedorrelax
24767 {scr@dte@\reserved@a @lastmaxnumwidth}{%
24768 \advance\@tempdima
24769 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24770 }{%
24771 \advance\@tempdima
24772 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
24773 }%
24774 }{%
24775 \advance\@tempdima
24776 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
24777 }%
24778 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
24779 \expandafter\edef\csname scr@tso@#1@indent\endcsname
24780 {\the\@tempdima}%
24781 \fi
24782 \fi
24783 }%
24784 \fi
24785 }%
24786 \fi
24787 }{%
24788 {%
24789 \Iftocfeature{\@currentt}{noindent}{%
24790 \bidi@leftskip \z@
24791 }{%
24792 \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
24793 }%
24794 \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
24795 \parfillskip -\bidi@rightskip
24796 \@nameuse{Ifscr@tso@#1@raggedpage}{%
24797 \addtolength{\parfillskip}{\z@ \@plus 1fil}%
24798 }{%
24799 \Iftocfeature{\@currentt}{noindent}{%
24800 \parindent \z@
24801 }{%
24802 \parindent \@nameuse{scr@tso@#1@indent}\relax
24803 }%
24804 \@afterindenttrue
24805 \interlinepenalty\M
24806 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright

```



```

24807     \addtolength\ bidi@rightskip \@flushglue
24808 \else
24809     \def\reserved@a{\raggedright}%
24810     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24811     \addtolength\ bidi@rightskip \@flushglue
24812 \else
24813     \renewcommand\reserved@a{\raggedright}%
24814     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24815     \addtolength\ bidi@rightskip \@flushglue
24816 \fi
24817 \fi
24818 \fi
24819 \leavevmode
24820 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
24821 \@nameuse{Ifscr@tso@#1@dynnumwidth}{-%
24822     \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}{-%
24823     \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
24824     \@tempdima \@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
24825     \fi
24826     }%
24827 }{-%
24828 \advance\ bidi@leftskip \@tempdima
24829 \null\nobreak\hskip -\ bidi@leftskip
24830 }%
24831 \usetocbasicnumberline
24832 \let\scr@dte@numberline@box\ numberline@box
24833 \def\ numberline@box##1{%
24834     \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24835     \global\scr@dte@tocline@numberwidth
24836     \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
24837     \relax
24838     \ifdim \scr@dte@tocline@numberwidth
24839     >\@nameuse{scr@dte@#1@maxnumwidth}\relax
24840     \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
24841 \fi
24842 \@nameuse{Ifscr@tso@#1@dynnumwidth}{}{-%
24843     \ifdim \scr@dte@tocline@numberwidth
24844     >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
24845     +\@nameuse{scr@tso@#1@numsep}\relax\relax
24846     \PackageWarning{tocbasic}{%
24847     number width of #1 toc entries should be
24848     increased!\MessageBreak
24849     Currently used number width =
24850     \the\wd\scr@dte@tocline@numbox,\MessageBreak
24851     Wanted number separation
24852     \space\space\space =
24853     \the\dimexpr \@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
24854     Reserved number width \space\space\space\space\space =
24855     \the\dimexpr \@nameuse{scr@tso@#1@numwidth}\relax%
24856     }%
24857     \fi
24858     }%
24859     \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24860     \@nameuse{Ifscr@tso@#1@breakafternumber}{-%

```



```

24861         {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
24862     }{}%
24863 }%
24864 {\@nameuse{scr@tso@#1@entryformat}}{%
24865     #2%
24866     \nobreak
24867     {%
24868         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
24869     \nobreak
24870     \expandafter\let\expandafter\scr@dte@pagenumberwidth
24871     \csname scr@tso@#1@pagenumberwidth\endcsname
24872     \@nameuse{scr@tso@#1@pagenumberbox}}{%
24873         \@nameuse{scr@tso@#1@pagenumberformat}}{#3}%
24874     }%
24875 }%
24876 }}\@par
24877 }%
24878 }%
24879 \tocbasic@SetPenaltyByTOCLevel{#1}%
24880 \fi
24881 }
24882
24883
24884 \bidi@undef\scr@dte@def@1@tocline
24885 \bidi@undef\scr@dte@tocline@init
24886 \DeclareTOCEntryStyle{tocline}[%
24887 \DefineTOCEntryLengthOption{beforeskip}%
24888     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
24889 \DefineTOCEntryIfOption{breakafternumber}%
24890     {scr@tso@}{@breakafternumber}{line break after number flag}%
24891 \DefineTOCEntryIfOption{dynnumwidth}%
24892     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
24893 \DefineTOCEntryListOption{indentfollows}%
24894     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
24895 \DefineTOCEntryIfOption{dynindent}%
24896     {scr@tso@}{@dynindent}{dynamic indent width flag}%
24897 \DefineTOCEntryCommandOption{entryformat}%
24898     {scr@tso@}{@entryformat}[1]{entry format}%
24899 \DefineTOCEntryCommandOption{entrynumberformat}%
24900     {scr@tso@}{@numberformat}[1]{entry number format}%
24901 \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
24902     {scr@tso@}{@linefill}{filling between text and page number}%
24903 \DefineTOCEntryLengthOption{numsep}%
24904     {scr@tso@}{@numsep}{entry number separation}%
24905 \DefineTOCEntryCommandOption{onstarthigherlevel}%
24906     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
24907 \DefineTOCEntryCommandOption{onstartlowerlevel}%
24908     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
24909 \DefineTOCEntryCommandOption{onstartsamelevel}%
24910     {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
24911 \DefineTOCEntryCommandOption{pagenumberbox}%
24912     {scr@tso@}{@pagenumberbox}[1]{page number box}%
24913 \DefineTOCEntryCommandOption{pagenumberformat}%
24914     {scr@tso@}{@pagenumberformat}[1]{page number format}%

```



```

24915 \DefineTOCEntryLengthOption{pagenumberwidth}%
24916   {scr@tso@}{@pagenumberwidth}{width of page number box}%
24917 \DefineTOCEntryLengthOption{rightindent}%
24918   {scr@tso@}{@rightindent}{entry's text right indent}%
24919 \DefineTOCEntryOption{raggedentrytext}[true]{%
24920   \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
24921   \ifx\FamilyKeyState\FamilyKeyStateProcessed
24922     \if@tempswa
24923       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24924         \raggedright
24925     \else
24926       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24927         \relax
24928     \fi
24929   \fi
24930 }%
24931 \DefineTOCEntryIfOption{raggedpagenumber}%
24932   {scr@tso@}{@raggedpage}{page number ragged flag}%
24933 \DefineTOCEntryLengthOption{indent}%
24934   {scr@tso@}{@indent}{entry indent}%
24935 \DefineTOCEntryLengthOption{numwidth}%
24936   {scr@tso@}{@numwidth}{entry number width}%
24937 \scr@ifundefinedorrelax{#1tocdepth}{%
24938   \Ifstrstart{#1}{sub}{%
24939     \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
24940       \expandafter\edef\csname #1tocdepth\endcsname{%
24941         \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
24942       }%
24943     }%
24944   }{}%
24945 }{}%
24946 \@ifundefined{#1tocdepth}{%
24947   \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24948     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24949       \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24950         \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24951           \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24952             \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24953               \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24954                 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24955                   \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24956                     \expandafter\let\csname #1tocdepth\expandafter\endcsname
24957                       \csname #1numdepth\endcsname
24958                   }%
24959                 }%
24960               }%
24961             }%
24962           }%
24963         }%
24964       }%
24965     }%
24966   }{}%
24967 }{}%
24968 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%

```



```

24969 \ifundefined{scr@#1@tocindent}{%
24970 \Ifstrstart{#1}{sub}{%
24971 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
24972 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}{%
24973 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24974 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24975 \relax
24976 }%
24977 }%
24978 }{%
24979 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
24980 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24981 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24982 \relax
24983 }%
24984 }{%
24985 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24986 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24987 +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24988 \relax
24989 }%
24990 }%
24991 }%
24992 }{}%
24993 }{%
24994 \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24995 }%
24996 }{}%
24997 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
24998 \Ifstrstart{#1}{sub}{%
24999 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
25000 \namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
25001 }{%
25002 \expandafter\let
25003 \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
25004 \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
25005 }%
25006 }{%
25007 \namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}}%
25008 }%
25009 }{}%
25010 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
25011 \Ifstrstart{#1}{sub}{%
25012 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
25013 \namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
25014 }{%
25015 \expandafter\let
25016 \csname scr@tso@#1@rightindent\expandafter\endcsname
25017 \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
25018 }%
25019 }{%
25020 \namedef{scr@tso@#1@rightindent}{\@tocrmarg}}%
25021 }%
25022 }{}%

```



```

25023 \@ifundefined{scr@tso@#1@indent}{%
25024   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25025     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25026       \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
25027         \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
25028           \scr@ifundefinedorrelax{1@chapter}{%
25029             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
25030               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25031                 \Ifstr{#1}{subsubsection}{%
25032                   \@namedef{scr@tso@#1@indent}{3.8em}%
25033                 }{%
25034                   \Ifstr{#1}{paragraph}{%
25035                     \@namedef{scr@tso@#1@indent}{7em}%
25036                   }{%
25037                     \Ifstr{#1}{subparagraph}{%
25038                       \@namedef{scr@tso@#1@indent}{10em}%
25039                     }{%
25040                       }%
25041                     }%
25042                   }%
25043                 }%
25044               }%
25045             }{%
25046               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25047                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
25048                   \Ifstr{#1}{subsubsection}{%
25049                     \@namedef{scr@tso@#1@indent}{7.0em}%
25050                   }{%
25051                     \Ifstr{#1}{paragraph}{%
25052                       \@namedef{scr@tso@#1@indent}{10em}%
25053                     }{%
25054                       \Ifstr{#1}{subparagraph}{%
25055                         \@namedef{scr@tso@#1@indent}{12em}%
25056                       }{%
25057                         }%
25058                       }%
25059                     }%
25060                   }%
25061                 }%
25062               }%
25063             }%
25064           }%
25065         }%
25066       }%
25067     }{%
25068   \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
25069     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
25070       \Ifstrstart{#1}{sub}{%
25071         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{-}{%
25072           \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
25073             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25074               +.9em%
25075           }
25076         \relax
25077       }%

```



```

25077     }%
25078   }{}%
25079   }{}%
25080     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
25081   }%
25082 }{}%
25083 \@ifundefined{scr@tso@#1@numwidth}{%
25084   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25085     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25086       \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25087         \scr@ifundefinedorrelax{chapter}{%
25088           \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25089             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25090               \Ifstr{#1}{subsubsection}{%
25091                 \@namedef{scr@tso@#1@numwidth}{3.2em}%
25092               }{}%
25093             \Ifstr{#1}{paragraph}{%
25094               \@namedef{scr@tso@#1@numwidth}{4.1em}%
25095             }{}%
25096           \Ifstr{#1}{subparagraph}{%
25097             \@namedef{scr@tso@#1@numwidth}{5em}%
25098           }{}%
25099         }{}%
25100       }{}%
25101     }{}%
25102   }{}%
25103 }{}%
25104 }{}%
25105   \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25106     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
25107       \Ifstr{#1}{subsubsection}{%
25108         \@namedef{scr@tso@#1@numwidth}{3.1em}%
25109       }{}%
25110     \Ifstr{#1}{paragraph}{%
25111       \@namedef{scr@tso@#1@numwidth}{5em}%
25112     }{}%
25113     \Ifstr{#1}{subparagraph}{%
25114       \@namedef{scr@tso@#1@numwidth}{6em}%
25115     }{}%
25116   }{}%
25117 }{}%
25118 }{}%
25119 }{}%
25120 }{}%
25121 }{}%
25122 }{}%
25123 }{}%
25124 }{}%
25125 }{}%
25126 \expandafter\renewcommand%
25127 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
25128 \expandafter\renewcommand%
25129 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
25130 \expandafter\renewcommand%

```



```

25131 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
25132 \@ifundefined{scr@tso@#1@beforeskip}{%
25133   \Ifstr{#1}{part}{%
25134     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
25135   }{%
25136     \Ifstr{#1}{chapter}{%
25137       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25138     }{%
25139       \Ifstr{#1}{section}{%
25140         \scr@ifundefinedorrelax{1@chapter}{%
25141           \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25142         }{}%
25143       }{}%
25144     }%
25145   }%
25146   \expandafter\renewcommand\expandafter*%
25147   \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
25148 }{}%
25149 \@ifundefined{scr@dte@#1@maxnumwidth}{%
25150   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
25151   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z0}%
25152 }{}%
25153 \renewcommand*{\scr@dte@donumwidth}{%
25154   \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
25155 \expandafter\renewcommand\expandafter*%
25156 \csname scr@tso@#1@numsep\endcsname{.4em}%
25157 \expandafter\renewcommand%
25158 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
25159 \Ifstr{#1}{part}{%
25160   \expandafter\providecommand%
25161   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
25162 }{%
25163   \Ifstr{#1}{chapter}{%
25164     \expandafter\providecommand%
25165     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25166   }{%
25167     \scr@ifundefinedorrelax{1@chapter}{%
25168       \Ifstr{#1}{section}{%
25169         \expandafter\providecommand%
25170         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25171       }{}%
25172     }{}%
25173     \expandafter\providecommand%
25174     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
25175   }%
25176 }%
25177 \expandafter\renewcommand
25178 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
25179 \@ifundefined{scr@tso@#1@linefill}{%
25180   \Ifstr{#1}{part}{%
25181     \@namedef{scr@tso@#1@linefill}{\hfill}%
25182   }{%
25183     \Ifstr{#1}{chapter}{%
25184       \@namedef{scr@tso@#1@linefill}{\hfill}%

```




```

25185 }{%
25186 \scr@ifundefinedorrelax{1@chapter}{%
25187 \Ifstr{#1}{section}{%
25188 \@namedef{scr@tso@#1@linefill}{\hfill}%
25189 }{}%
25190 }{}%
25191 \expandafter\renewcommand%
25192 \csname scr@tso@#1@linefill\endcsname{\TOCLLineLeaderFill\relax}%
25193 }%
25194 }%
25195 }{}%
25196 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
25197 \Ifstr{#1}{part}{%
25198 \expandafter\providecommand%
25199 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
25200 }{%
25201 \Ifstr{#1}{chapter}{%
25202 \expandafter\providecommand%
25203 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25204 }{%
25205 \scr@ifundefinedorrelax{1@chapter}{%
25206 \Ifstr{#1}{section}{%
25207 \expandafter\providecommand%
25208 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25209 }{}%
25210 }{}%
25211 \expandafter\providecommand%
25212 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
25213 {\normalfont\normalcolor ##1}}%
25214 }%
25215 }%
25216 \expandafter\renewcommand%
25217 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
25218 \hb@xt@\@nameuse{scr@dte@pagenumberwidth}{\hfil ##1}}%
25219 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
25220 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
25221 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
25222 \Ifstrstart{#1}{sub}{%
25223 \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
25224 \scr@dte@nosub{#1}}%
25225 }%
25226 }{}%
25227 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
25228 }%
25229 }{}%
25230 }]}%
25231 \scr@dte@tocline{#1}{##1}{##2}%
25232 }
25233
25234 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
25235 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
25236 {\normalfont\normalcolor #1}}%
25237 }%
25238 }{}

```



```

25239
25240 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
25241   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
25242     {\normalfont\normalcolor #1}%
25243   }%
25244 }{}
25245

```

158 File tocstyle-xetex-bidi.def

```

25246 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
25247 \renewcommand*{\tocstyle@dottedtocline}[5]{%
25248   \let\numberline\tocstyle@numberline
25249   \ifnum #1>\c@tocdepth \else
25250     \if@tocstyle@penalties
25251       \beginingroup
25252         \@tempcnta 20010
25253         \advance \@tempcnta by -#1
25254         \ifnum \@tempcnta>\lastpenalty
25255           \aftergroup\penalty\aftergroup\@lowpenalty
25256         \fi
25257       \endgroup
25258     \fi
25259     \edef\tocstyledepth{#1}%
25260     \tocstyle@activate@features
25261     \ifx\tocstyle@feature@entryvskip\relax
25262       \vskip \z@ \@plus.2\p@
25263     \else
25264       \addvspace{\tocstyle@feature@entryvskip}%
25265     \fi
25266     {%
25267       \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
25268       \tocstyle@feature@raggedhook
25269       \@tempdima #3\relax
25270       \@tempdimb #2\relax
25271       \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25272       \ifnum #1>\z@\relax
25273         \@tempcnta #1\relax \advance\@tempcnta \m@ne
25274         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25275           \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25276             \@tempdimb
25277             \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25278             \advance\@tempdimb
25279             \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25280           \fi
25281         \fi
25282       \fi
25283       \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25284       \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
25285         \ifdim \@tempdimb>
25286           \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
25287           \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25288             @#1\endcsname{\the\@tempdimb}%
25289         \fi

```



```

25290 \else
25291 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25292 @#1\endcsname{\the\@tempdimb}%
25293 \fi
25294 \iftocstyle@autolength
25295 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25296 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25297 \relax
25298 \fi
25299 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25300 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25301 \relax
25302 \fi
25303 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25304 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25305 \else
25306 \@tempdimb #2\relax
25307 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25308 \fi
25309 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
25310 \ifdim \@tempdima>
25311 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
25312 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25313 @\endcsname{\the\@tempdima}%
25314 \fi
25315 \else
25316 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25317 @\endcsname{\the\@tempdima}%
25318 \fi
25319 \ifcase\tocstyle@indentstyle\relax\else
25320 \@tempdimb \z@
25321 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25322 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25323 \relax
25324 \fi
25325 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25326 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25327 \fi
25328 \advance\parindent \@tempdimb\@afterindenttrue
25329 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
25330 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
25331 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
25332 \ifx\tocstyle@feature@parfillskip\relax\else
25333 \advance\parfillskip \tocstyle@feature@parfillskip\relax
25334 \fi
25335 \interlinepenalty\@M
25336 \leavevmode
25337 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
25338 \null\nobreak
25339 \iftocstyle@indentnotnumbered\else
25340 \hskip -\if@RTL\rightskip\else\leftskip\fi
25341 \fi
25342 \tocstyle@feature@entryhook
25343 {#4}\nobreak

```



```

25344 \ifx\tocstyle@feature@leaders\relax
25345 \leaders\hbox{$\m@th
25346 \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
25347 \mkern \@dotsep mu$}\hfill
25348 \else
25349 \tocstyle@feature@leaders
25350 \fi
25351 \nobreak
25352 \ifx\tocstyle@feature@pagenumberbox\relax
25353 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
25354 \else
25355 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
25356 \fi
25357 \par
25358 }%
25359 \if\tocstyle@penalties
25360 \bgroup
25361 \@tempcnta 20009
25362 \advance\@tempcnta by -#1
25363 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
25364 \reserved@a
25365 \fi
25366 \fi}
25367 \renewcommand*{\tocstyle@numberline}[1]{%
25368 \begingroup
25369 \ifx\tocstyle@feature@spaceafternumber\relax
25370 \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
25371 \else
25372 \settowidth\@tempdima{\tocstyle@numberline{#1}}%
25373 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
25374 \fi
25375 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
25376 \ifdim \@tempdima >
25377 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
25378 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25379 @\tocstyledepth\endcsname{\the\@tempdima}%
25380 \fi
25381 \else
25382 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25383 @\tocstyledepth\endcsname{\the\@tempdima}%
25384 \fi
25385 \endgroup
25386 \iftocstyle@indentnotnumbered
25387 \hskip -\if@RTL\rightskip\else\leftskip\fi
25388 \fi
25389 \ifcase \tocstyle@indentstyle
25390 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
25391 \or
25392 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
25393 \else
25394 \ifx\tocstyle@feature@spaceafternumber\relax
25395 \hbox{\tocstyle@numberline{#1}\enskip}%
25396 \else
25397 \hbox{\tocstyle@numberline{#1}\hskip

```



```

25398     \tocstyle@feature@spaceafternumber\relax}%
25399     \fi
25400 \fi
25401 }
25402 \AtBeginDocument{%
25403   \ifcsname l@part\endcsname
25404     \ifcsname l@chapter\endcsname
25405       \setbox\@tempboxa\vbox{\hsize\maxdimen
25406         \l@part{\tocstyle@l@define{part}{-1}}{}}%
25407     \else
25408       \setbox\@tempboxa\vbox{\hsize\maxdimen
25409         \l@part{\tocstyle@l@define{part}{0}}{}}%
25410     \fi
25411 \fi
25412 \ifcsname l@chapter\endcsname
25413   \setbox\@tempboxa\vbox{\hsize\maxdimen
25414     \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
25415 \fi
25416 \ifcsname l@section\endcsname
25417   \setbox\@tempboxa\vbox{\hsize\maxdimen
25418     \l@section{\tocstyle@l@define{section}{1}}{}}%
25419 \fi
25420 \ifcsname l@subsection\endcsname
25421   \setbox\@tempboxa\vbox{\hsize\maxdimen
25422     \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
25423 \fi
25424 \ifcsname l@subsubsection\endcsname
25425   \setbox\@tempboxa\vbox{\hsize\maxdimen
25426     \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
25427 \fi
25428 \ifcsname l@paragraph\endcsname
25429   \setbox\@tempboxa\vbox{\hsize\maxdimen
25430     \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
25431 \fi
25432 \ifcsname l@subparagraph\endcsname
25433   \setbox\@tempboxa\vbox{\hsize\maxdimen
25434     \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
25435 \fi
25436 \ifcsname l@table\endcsname
25437   \setbox\@tempboxa\vbox{\hsize\maxdimen
25438     \l@table{\tocstyle@l@define{table}{1}}{}}%
25439 \fi
25440 \ifcsname l@figure\endcsname
25441   \setbox\@tempboxa\vbox{\hsize\maxdimen
25442     \l@figure{\tocstyle@l@define{figure}{1}}{}}%
25443 \fi
25444 \def\@tempa#1#2#3#4#5{%
25445   \ifnum #1>\c@tocdepth \else
25446     \vskip \z@ \@plus.2\p@
25447     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@toccr
25448     \parindent #2\relax\@afterindenttrue
25449     \interlinepenalty\@M
25450     \leavevmode
25451     \@tempdima #3\relax

```



```

25452     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
25453     {#4}\nobreak
25454     \leaders\hbox{$\m@th
25455         \mkern \dotsep mu\hbox{.}\mkern \dotsep
25456         mu$}\hfill
25457     \nobreak
25458     \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
25459     \par}%
25460     \fi}%
25461 \ifx@dottedtocline\@tempa\else
25462     \tocstyle@macrochangewarning@dottedtocline
25463 \fi
25464 \let\tocstyle@saved@dottedtocline@dottedtocline
25465 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
25466 \ifx\numberline\@tempa\else
25467     \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
25468     \ifx\numberline\@tempa\else
25469         \tocstyle@macrochangewarning\numberline
25470     \fi
25471 \fi
25472 \let\tocstyle@saved@numberline\numberline
25473 }
25474 \renewcommand*\@tocstyle@l@define}[2]{%
25475     \advance\if@RTL\righskip\else\leftskip\fi-\@tempdima
25476     \edef\@tempa{%
25477         \noexpand\global\noexpand\let
25478         \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
25479         \expandafter\noexpand\csname l@#1\endcsname
25480         \noexpand\gdef
25481         \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
25482             \noexpand\@dottedtocline{#2}{\the\if@RTL\righskip\else\leftskip\fi}{\the\@tempdima}}%
25483         \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l@#1{%
25484             \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
25485             \expandafter\noexpand\csname tocstyle@l@#1\endcsname
25486         }%
25487     }%
25488     \PackageInfo{tocstyle}{prepare \expandafter\string
25489         \csname l@#1\endcsname\space for redefinition}%
25490     \@tempa
25491 }

```

159 File todonotes-xetex-bidi.def

```

25492 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
25493 \newif\if@bidi@todonotes@textdirection@RTL
25494 \newif\if@bidi@todonotes@figposition@right
25495 \newcommand{\@bidi@todonotes@align}{}%
25496 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
25497 \newcommand{\@bidi@todonotes@textdirection}{}%
25498 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right
25499     \ifcase\@bidi@todonotes@tempb\relax
25500         \@bidi@todonotes@textdirection@RTLtrue
25501         \let\@bidi@todonotes@textdirection\RLE
25502     \or

```



```

25503 \@bidi@todonotes@textdirection@RTLfalse
25504 \let\@bidi@todonotes@textdirection\LRE
25505 \fi}
25506 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
25507 \ifcase\@bidi@todonotes@tempb\relax
25508 \@bidi@todonotes@figposition@righttrue
25509 \or
25510 \@bidi@todonotes@figposition@rightfalse
25511 \fi}
25512 \if@todonotes@disabled%
25513 \else % \if@todonotes@disabled
25514 \renewcommand{\@todonotes@drawInlineNote}{%
25515 \if@todonotes@dviStyle%
25516 {\par\noindent\begin{tikzpicture}[remember picture]%
25517 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25518 \if@todonotes@authorgiven%
25519 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
25520 \else%
25521 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25522 \fi
25523 {\par\noindent\begin{tikzpicture}[remember picture]%
25524 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25525 \else%
25526 {\par\noindent\begin{tikzpicture}[remember picture]%
25527 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25528 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@a
25529 \if@todonotes@authorgiven%
25530 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}
25531 \else%
25532 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25533 \fi};%
25534 \end{tikzpicture}\par}%
25535 \fi}%
25536 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
25537 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
25538 \node [coordinate] (inText) {};%
25539 \end{tikzpicture}%
25540 \marginpar[{\% Draw note in left margin
25541 \@todonotes@drawMarginNote%
25542 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
25543 }]{\% Draw note in right margin
25544 \@todonotes@drawMarginNote%
25545 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
25546 }%
25547 }%
25548 \renewcommand{\@todonotes@drawMarginNote}{%
25549 \if@todonotes@dviStyle%
25550 \begin{tikzpicture}[remember picture]%
25551 \draw node[notestyle] {};%
25552 \end{tikzpicture}\%
25553 \begin{minipage}{\@todonotes@textwidth}%
25554 \if@todonotes@authorgiven%
25555 \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
25556 \else%

```



```

25557     \@todonotes@sizecommand \@todonotes@text%
25558     \fi%
25559     \end{minipage}\%
25560     \begin{tikzpicture}[remember picture]%
25561         \draw node[notestyle] (inNote) {};%
25562     \end{tikzpicture}%
25563 \else%
25564     \let\originalHbadness\hbadness%
25565     \hbadness 100000%
25566     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
25567         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25568         \node(X){\vphantom{X}};%
25569         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25570             {\@todonotes@text};%
25571         \if@todonotes@authorgiven%
25572             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25573                 {\@todonotes@sizecommand\@todonotes@author};%
25574             \node(Y)[below=of X]{};%
25575             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25576                 {\@todonotes@text};%
25577         \else%
25578             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]
25579                 {\@todonotes@text};%
25580         \fi%
25581     \end{tikzpicture}%
25582     \hbadness \originalHbadness%
25583 \fi}%
25584 \renewcommand{\missingfigure}[2] [] {%
25585 \setkeys{todonotes}{#1}%
25586 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
25587 \par
25588 \noindent
25589 \begin{tikzpicture}
25590 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
25591     (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
25592 \if@bidi@todonotes@figposition@right%
25593 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25594 \fi%
25595 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
25596     (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
25597 \if@bidi@todonotes@figposition@right%
25598 \end{scope}
25599 \begin{scope}[xshift=-3.8cm]
26000 \fi%
26001 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
26002 \draw (2, -0.3) node[right, text
26003     width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
26004 \if@bidi@todonotes@figposition@right%
26005 \end{scope}
26006 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
26007 \fi%
26008 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
26009 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
26010 \if@bidi@todonotes@figposition@right%

```




```

25611 \end{scope}
25612 \fi%
25613 \end{tikzpicture}\hfill
25614 }% Ending \missingfigure command
25615 \fi % Ending \@todonotes@ifdisabled
25616 \presetkeys%
25617     {todonotes}%
25618     {align=left,%
25619     textdirection=lefttoright,%
25620     figposition=left}{}%

```

160 File wrapfig-xetex-bidi.def

```

25621 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
25622 \let\WF@everypar\ bidi@n@everypar
25623 \def\WF@putfigmaybe{%
25624 \ifinner
25625 \vskip-\parskip \global\WF@floatfalse
25626 \let\pagetotal\maxdimen % kludge flag for "not top of page"
25627 \else % outer page
25628 \@tempdima\pagedepth % save page depth
25629 {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
25630 \penalty\interlinepenalty % update pg. parameters
25631 \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
25632 \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
25633 \global\WF@floatfalse
25634 \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
25635 \else
25636 \ifdim\WF@size>\@tempdimb
25637 \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
25638 \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
25639 \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
25640 \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
25641 \advance\dimen@.5\baselineskip
25642 \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
25643 \global\WF@floatfalse \pagebreak
25644 \fi
25645 \else % \WF@info{Fits in \the\@tempdimb;}%
25646 \global\WF@floatfalse
25647 \fi\fi
25648 \vskip\@tempdima\relax % (return erased page depth)
25649 \fi
25650 \noindent
25651 \ifWF@float
25652 \WF@fltmes
25653 \else % putting here;
25654 \WF@info{Put \WF@wfname here;}%
25655 {\ifodd\if@twoside\c@page\else\one\fi % assign l/r to i/o placement
25656 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
25657 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
25658 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
25659 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
25660 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
25661 \@tempdimb\hsize \advance\@tempdimb-\@tempdima

```



```

25662 \xdef\WF@adjlw{\the\@tempdima}%
25663 \ifnum `l=\WF@place % fig on left
25664 \if@RTL%
25665 \kern\@tempdimb \kern\columnsep
25666 \def\@tempa{\hss}% position to left of the gap
25667 \else%
25668 \hss % figure overlaps space to the left
25669 \def\@tempa{\kern\columnsep}% position to left of the gap
25670 \fi%
25671 \else % fig on right
25672 \if@RTL%
25673 \hss
25674 \@tempdima\z@
25675 \def\@tempa{\kern\columnsep}
25676 \else%
25677 \@tempdima\z@ % no left indentation
25678 \kern\@tempdimb \kern\columnsep
25679 \def\@tempa{\hss}% figure overlaps space to the right
25680 \fi%
25681 \fi
25682 \ifdim\@tempdimb<\hsize
25683 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
25684 \xdef\WF@adjtllm{\the\@tempdima}%
25685 \else
25686 \xdef\WF@wrapil{\z@ \the\hsize}%
25687 \xdef\WF@adjlw{\z@}\xdef\WF@adjtllm{\z@}%
25688 \fi
25689 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
25690 \global\advance\WF@size-\intextsep
25691 \else % \WF@info{Putting \WF@wfname in middle of page}%
25692 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
25693 \fi \dp\WF@box\z@ \box\WF@box \@tempa
25694 }% end \hbox to Opt
25695 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
25696 \fi}

```

161 File xcolor-xetex-bidi.def

```

25697 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
25698 \long\def\color@b@x#1#2#3%
25699 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
25700 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
25701 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
25702 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
25703 {#1#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}\ifmmode\else\if@RTL\endL\fi\fi}
25704 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
25705 \DeclareRobustCommand\color
25706 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}
25707 \def\@undeclaredcolor[#1]#2%
25708 {\begingroup
25709 \let\@@cls\@empty
25710 \XC@getmodclr12{#1}{#2}{}%
25711 {\ifblendcolors
25712 \ifx\colorblend\@empty\else

```



```

25713         \edef\@mix{\expandafter@gobble\colorblend}\@tempwafalse
25714         \XC@coremodel\@mod\@clr\xcolor@{}{}\@mod\@clr
25715     \fi
25716 \fi
25717 \ifconvertcolorsU
25718     \edef\@tmp{\XC@tgt@mod{\@mod}}%
25719     \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25720 \fi
25721 \ifmaskcolors
25722     \convertcolorspec\@mod\@clr\XC@mmod\@clr
25723     \let\@mod\XC@mmod
25724     \XC@inflate\@mod\XC@mclr\@clr\@tmp
25725     \expandafter\XC@mul\@tmp,\@clr
25726 \fi
25727 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
25728 \expandafter\endgroup\@tmp}
25729 \def\@declaredcolor#1%
25730 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25731 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25732     \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25733     \ifconvertcolorsU\XC@tsttrue\fi
25734 \fi
25735 \if\XC@tst
25736     \expandafter\XC@declaredcolor\else
25737     \expandafter\XC@declaredcolor\fi}
25738 \def\XC@undeclaredcolor#1#2%
25739 {\@ifundefinedmodel{#1}%
25740     {\color@error{model `#1'}}%
25741     {\nameuse{color@#1}\current@color{#2}}%
25742     \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
25743     \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25744 \def\XC@declaredcolor
25745 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
25746 \edef\current@color{\XC@current@color}%
25747 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25748 \DeclareRobustCommand\bidicolor
25749 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
25750 \def\@bidiundeclaredcolor[#1]#2%
25751 {\begingroup
25752 \let\@cls\@empty
25753 \XC@getmodclr12{#1}{#2}{}%
25754 {\ifblendcolors
25755     \ifx\colorblend\@empty\else
25756     \edef\@mix{\expandafter@gobble\colorblend}\@tempwafalse
25757     \XC@coremodel\@mod\@clr\xcolor@{}{}\@mod\@clr
25758 \fi
25759 \fi
25760 \ifconvertcolorsU
25761     \edef\@tmp{\XC@tgt@mod{\@mod}}%
25762     \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25763 \fi
25764 \ifmaskcolors
25765     \convertcolorspec\@mod\@clr\XC@mmod\@clr
25766     \let\@mod\XC@mmod

```



```

25767 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25768 \expandafter\XC@mul\@tmp,\@clr
25769 \fi
25770 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
25771 \expandafter\endgroup\@tmp}}
25772 \def\XC@bidiundeclaredcolor#1#2%
25773 {\@ifundefinedmodel{#1}%
25774 {\c@lor@error{model `#1'}%
25775 {\@nameuse{color@#1}\current@color{#2}}%
25776 \edef\XC@current@color{\noexpand\xcolor@}{\current@color}{#1}{#2}}%
25777 \XC@display}}
25778 \def\@bidideclaredcolor#1%
25779 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25780 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25781 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25782 \ifconvertcolorsU\XC@tsttrue\fi
25783 \fi
25784 \ifXC@tst
25785 \expandafter\XC@bidideclaredcolor\else
25786 \expandafter\XC@bidideclaredc@lor\fi}
25787 \def\XC@bidideclaredcolor
25788 {\XC@split\XC@tmp
25789 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
25790 \expandafter\endgroup\@tmp}
25791 \def\XC@bidideclaredc@lor
25792 {\XC@let@Nc\XC@current@color{\string\color@\XC@tmp}%
25793 \edef\current@color{\XC@current@color}%
25794 \XC@display}
25795 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
25796 \def\color@fbox#1#2#3#\protect\color@fb@x{#1}{#2}{#3}}
25797 \def\color@fb@x#1#2#3#4%
25798 {\color@b@x{\fboxsep\z@\bidicolor#1{#2}\XC@fbox}%
25799 {\@ifempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
25800 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

162 File latex-xetex-bidi.def

```

25801 \ProvidesFile{latex-xetex-bidi.def}[2025/01/03 v1.5.2 bidi adaptations for `latex.ltx' for
25802 \newcommand{\TeXeTOn}{\TeXeTstate\@ne}
25803 \newcommand{\TeXeTOff}{\TeXeTstate\@z}
25804 \TeXeTOn
25805 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
25806 \let\bidi@o@everypar=\everypar
25807 \newtoks\bidi@n@everypar
25808 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
25809 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
25810 \let\everypar=\bidi@n@everypar
25811 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
25812 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
25813 \protected\def\hboxR{\hbox\group
25814 \everyhbox{%
25815 \aftergroup\egroup
25816 \everyhbox{}}%
25817 \beginR

```



```

25818 \@hboxRconstructtrue
25819 \bgroup
25820 \aftergroup\endR
25821 \aftergroup\egroup
25822 }\hbox}
25823 \protected\def\hboxL{\hbox\bgroup
25824 \everyhbox{%
25825 \aftergroup\egroup
25826 \everyhbox{}}%
25827 \beginL
25828 \@hboxRconstructfalse
25829 \bgroup
25830 \aftergroup\endL
25831 \aftergroup\egroup
25832 }\hbox}
25833 \protected\def\vboxR{\vbox\bgroup
25834 \everyvbox{%
25835 \aftergroup\egroup
25836 \everyvbox{}}%
25837 \@RTLtrue
25838 \@RTLtabtrue
25839 \bgroup
25840 \aftergroup\egroup
25841 }\vbox}
25842 \protected\def\vboxL{\vbox\bgroup
25843 \everyvbox{%
25844 \aftergroup\egroup
25845 \everyvbox{}}%
25846 \@RTLfalse
25847 \@RTLtabfalse
25848 \bgroup
25849 \aftergroup\egroup
25850 }\vbox}
25851 \newcommand*{\bidi@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
25852 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
25853 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
25854 \def\endLTR{\par}
25855 \newenvironment{LTR*}{\LTR
25856 \everypar{%
25857   {\setbox\z@\lastbox
25858     \ifvoid\z@
25859       \kern-\parindent
25860     \fi}}%
25861 }%
25862 }\endLTR\@endpetrue}
25863 \def\RTL{\par\@RTLtrue\@RTL@footnotettrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
25864 \def\endRTL{\par}
25865 \newenvironment{RTL*}{\RTL
25866 \everypar{%
25867   {\setbox\z@\lastbox
25868     \ifvoid\z@
25869       \kern-\parindent
25870     \fi}}%
25871 }%

```



```

25872 }{\endRTL\@endpetrue}
25873 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\@RTL@beamer@ragged}
25874 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTL@tabfalse\@RTL@beamer@ragged}
25875 \let\unsetRTL=\setRTL
25876 \let\unsetLTR=\setRTL
25877 \let\LR=\LRE
25878 \let\RL=\RLE
25879 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
25880 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
25881 \let\@ensure@RL=\@ensure@RTL
25882 \let\@ensure@LR=\@ensure@LTR
25883 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
25884 \let\@ensure@maindir=\@ensure@dir
25885 \def\@@RTL{RTL}
25886 \def\@@LTR{LTR}
25887 \def\save@dir{\if@RTL\gdef\save@@@dir{RTL}\else\gdef\save@@@dir{LTR}\fi}
25888 \def\reset@dir{\ifx\save@@@dir\@@RTL\setRTL\else\ifx\save@@@dir\@@LTR\setLTR\else\relax\fi}
25889 \let\@TeX\TeX
25890 \def\TeX{\@ensure@LTR{\@TeX}}
25891 \let\@LaTeX\LaTeX
25892 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
25893 \let\@LaTeXe\LaTeXe
25894 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
25895 \long\def\@bidi@reflect@box#1{%
25896   \leavevmode
25897   \setbox\z@\hbox{#1}}%
25898   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}%
25899   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}}%
25900 }
25901 \if@bidi@csundef{XeTeX}{%
25902 \bidi@newrobustcmd*{XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25903   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}}$}%
25904 }%
25905 \let\@bidi@orig@XeTeX\XeTeX
25906 \bidi@renewrobustcmd*{XeTeX}{\LR{\@bidi@orig@XeTeX}}%
25907 }
25908 \if@bidi@csundef{XeLaTeX}{%
25909 \bidi@newrobustcmd*{XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25910   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \LaTeX}}}$}%
25911 }%
25912 \let\@bidi@orig@XeLaTeX\XeLaTeX
25913 \bidi@renewrobustcmd*{XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
25914 }
25915 \let\setRL=\setRTL
25916 \let\setLR=\setLTR
25917 \let\unsetRL=\setLTR
25918 \def\@bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
25919 \ApplyPatchIfPackageLoaded{array}{%
25920 \def\@bidi@tabular@RTLcases{\@RTL@tabtrue%
25921   \leavevmode
25922   \hbox \bgroup $\left.\col@sep\tabcolsep \let\d@llarbegin\begin\group
25923     \let\d@llarend\end\group
25924   \@tabarray}
25925 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}

```



```

25926 }{%
25927 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
25928   \leavevmode \hbox \bgroup
25929   $\left.\let\@acol\@tabacol
25930   \let\@classz\@tabclassz
25931   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
25932
25933 \def\endbidi@tabular@RTLcases{\crr\egroup\ifRTLtab\egroup\endR\egroup\fi
25934   \egroup\right\rbrace $\egroup}}
25935 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
25936   \ialign{##\hfil$&\quad{##}\hfil\crr#1\crr}}\,\right\}}
25937 \renewenvironment{RTLcases}{%
25938   \bidi@matrix@check\RTLcases\env@RTLcases
25939 }{%
25940   \endbidi@tabular@RTLcases%
25941 }
25942 \def\env@RTLcases{%
25943   \let\@ifnextchar\bidi@new@ifnextchar
25944   \def\arraystretch{1.2}%
25945   \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
25946 }
25947 \def\SepMark#1{\gdef\@SepMark{#1}}
25948 \SepMark{.}
25949 \def\@thmcountersep{\@SepMark}
25950 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
25951 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
25952 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
25953 \newcommand*\bidi@thebibliography@font@hook{}
25954 \def\list#1#2{%
25955   \ifnum \@listdepth >5\relax
25956     \@toodeep
25957   \else
25958     \global\advance\@listdepth\@ne
25959   \fi
25960   \rightmargin\z@
25961   \listparindent\z@
25962   \itemindent\z@
25963   \csname @list\romannumeral\the\@listdepth\endcsname
25964   \def\@itemlabel{#1}%
25965   \let\makelabel\@mklab
25966   \@nbrlistfalse
25967   #2\relax
25968   \@trivlist
25969   \parskip\parsep
25970   \parindent\listparindent
25971   \advance\linewidth -\rightmargin
25972   \advance\linewidth -\leftmargin
25973   \if@bidi@list@minipage@parbox
25974     \if@RTL
25975       \advance\@totalleftmargin \leftmargin
25976     \else
25977       \advance\@totalleftmargin \rightmargin
25978     \fi
25979   \else

```



```

25980 \if@hboxRconstruct
25981 \if@bidi@list@minipage@parbox@not@nob
25982 \if@RTL
25983   \advance\@totalleftmargin \rightmargin
25984 \else
25985   \advance\@totalleftmargin \leftmargin
25986 \fi
25987 \else
25988 \if@RTL
25989 \advance\@totalleftmargin \leftmargin
25990 \else
25991 \advance\@totalleftmargin \rightmargin
25992 \fi\fi
25993 \else
25994 \if@RTL
25995   \advance\@totalleftmargin \rightmargin
25996 \else
25997   \advance\@totalleftmargin \leftmargin
25998 \fi\fi\fi
25999 \parshape \@ne \@totalleftmargin \linewidth
26000 \ignorespaces}
26001 \long\def\@iiiparbox#1#2[#3]#4#5{%
26002 \leavevmode
26003 \@pboxswfalse
26004 \if@hboxRconstruct
26005   \@bidi@list@minipage@parbox@not@nobtrue
26006 \fi
26007 \if@RTL
26008   \ifx#1t%
26009     \@bidi@list@minipage@parboxtrue
26010   \else
26011     \ifx#1b%
26012       \@bidi@list@minipage@parboxtrue
26013     \fi
26014   \fi
26015 \fi
26016 \setlength\@tempdima{#4}%
26017 \@begin@tempboxa\vbox{\hspace\@tempdima\@parboxrestore#5\@par}%
26018   \ifx\relax#2\else
26019     \setlength\@tempdimb{#2}%
26020     \edef\@parboxto{to\the\@tempdimb}%
26021   \fi
26022   \if#1b\vbox
26023   \else\if #1t\vtop
26024   \else\ifmmode\vcenter
26025   \else\@pboxswtrue $\vcenter
26026   \fi\fi\fi
26027   \@parboxto{\let\hss\vss\let\unhbox\unvbox
26028     \csname bm@#3\endcsname}%
26029   \if@pboxsw \m@th$\fi
26030 \end@tempboxa}
26031 \newenvironment{LTRitems}
26032   {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
26033   \if@bidi@list@minipage@parbox

```




```

26034         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26035         \else \ifhboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26036         \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26037         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26038         \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26039         \ignorespaces}{\vskip\z@}
26040 \newenvironment{RTLitems}
26041     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26042     \if@bidi@list@minipage@parbox
26043     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26044     \else \ifhboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26045     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26046     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26047     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26048     \ignorespaces}{\vskip\z@}
26049 \newenvironment{LTRbibitems}
26050     {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26051     \if@bidi@list@minipage@parbox
26052     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26053     \else \ifhboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26054     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26055     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26056     \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26057     \ignorespaces}{\vskip\z@}
26058 \newenvironment{RTLbibitems}
26059     {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26060     \if@bidi@list@minipage@parbox
26061     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26062     \else \ifhboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26063     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26064     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26065     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26066     \ignorespaces}{\vskip\z@}
26067 \def\raggedright{%
26068     \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
26069     \leftskip\z@skip
26070     \parindent\z@\parfillskip\z@skip}
26071 \let\@bidi@orig@raggedleft\raggedleft
26072 \let\@bidi@orig@raggedright\raggedright
26073 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\ifhboxRco
26074 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\ifhboxRco
26075 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
26076 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
26077 \DeclareRobustCommand\centerline[1]{%
26078 \if@RTL\@@line{\hss\beginR#1\endR\hss}
26079 \else\@@line{\hss#1\hss}\fi}
26080 \def\@bidi@orig@leftline#1{%
26081 \if@RTL\@@line{\beginR#1\endR\hss}
26082 \else\@@line{#1\hss}\fi}
26083 \def\@bidi@orig@rightline#1{%
26084 \if@RTL\@@line{\hss\beginR#1\endR}
26085 \else\@@line{\hss#1}\fi}
26086 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\@bidi@orig@rightline{#1}\else\@bidi@orig@lef
26087 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\@bidi@orig@leftline{#1}\else\@bidi@orig@rig

```



```

26088 \DeclareRobustCommand\bidirlap[1]{\hb@xt@z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
26089 \DeclareRobustCommand\bidillap[1]{\hb@xt@z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
26090 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#{#1}}%
26091     \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
26092 \def\narrower{%
26093     \advance\if@RTL\rightskip\else\leftskip\fi\parindent
26094     \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
26095 \DeclareRobustCommand\underline[1]{%
26096     \relax
26097     \ifmode\@underline{#1}%
26098     \else
26099 \if@RTL $\@underline{\hbox{\beginR#1\endR}}\m@th$\relax
26100 \else
26101 $\@underline{\hbox{#1}}\m@th$\relax\fi\fi}
26102 \ifcompatibility
26103     \let\underline=\underline
26104 \fi
26105 \def\@tabular{%
26106     \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
26107     $\let\@acol\@tabacol
26108     \let\@classz\@tabclassz
26109     \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
26110 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
26111     \egroup $\if@RTLtab\endR\fi\egroup}
26112 \expandafter \let \csname endtabular*\endcsname = \endtabular
26113 \def\@array[#1]#2{%
26114     \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
26115     \bgroup
26116     \setbox\@arstrutbox\hbox{%
26117         \vrule \@height\arraystretch\ht\strutbox
26118         \@depth\arraystretch \dp\strutbox
26119         \@widthz@}%
26120     \@mkpream{#2}%
26121     \edef\@preamble{%
26122         \ialign \noexpand\@halignto
26123         \bgroup \@arstrut \@preamble \tabskipz@skip \cr}%
26124     \let\@startpbox\@startpbox \let\@endpbox\@endpbox
26125     \let\@tabularnewline\%
26126     \let\par\@empty
26127     \let\sharp##%
26128     \set@typeset@protect
26129     \lineskipz@skip\baselineskipz@skip
26130     \ifhmode \@preamerrz@ \@@par\fi
26131     \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
26132     \@preamble}
26133 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
26134     \let\@classiv\@arrayclassiv
26135     \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
26136 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
26137     \ifnum \@lastchclass=3 5 \else
26138     \z@ \if #1c\@chnum \z@ \else
26139         \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
26140         \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
26141     \@chclass \if #1|\@ne \else

```



```

26142             \if #1@tw@ \else
26143             \if #1p3 \else \z@ \@preamerr 0\fi
26144 \fi \fi \fi \fi \fi \fi
26145 \fi}
26146 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
26147 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
26148 \def\bm@t{\unhbox\@tempboxa\hss}
26149 \def\bm@b{\hss\unhbox\@tempboxa}
26150 \def\@dottedtocline#1#2#3#4#5{%
26151 \ifnum #1>\c@tocdepth \else
26152 \vskip \z@ \@plus.2\p@
26153 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@ocrma
26154 \parindent #2\relax\@afterindenttrue
26155 \interlinepenalty\@M
26156 \leavevmode
26157 \@tempdima #3\relax
26158 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
26159 {#4}\nobreak
26160 \leaders\hbox{$\m@th
26161 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
26162 mu$}\hfill
26163 \nobreak
26164 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
26165 \par}%
26166 \fi}
26167
26168 \newcount\@bidi@column@check@number
26169
26170 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}
26171
26172 \def\@bidi@set@column@status#1#2{%
26173 \global\expandafter\let\csname #1\endcsname\@bidi@current@column@status}
26174
26175 \if@twocolumn
26176 \newcommand\DetectColumn[3][1]{%
26177 \ifx\@bidi@firstcolumn@status\write\relax
26178 \PackageError{bidi}%
26179 {Option 'DetectColumn' not selected}%
26180 {\string\DetectColumn\space
26181 requires the use of the 'DetectColumn'
26182 option on the package}%
26183 \fi
26184 \global\advance\@bidi@column@check@number\@ne
26185 \edef\@bidi@column@type{\expandafter\ifx
26186 \csname bidi@column-\the\@bidi@column@check@number\endcsname\relax
26187 0\else
26188 \csname bidi@column-\the\@bidi@column@check@number\endcsname
26189 \fi}%
26190 \ifcase \@bidi@column@type\relax
26191 \ifcase #1\or #2\or#3\fi % 0 not known use first column as default
26192 \or
26193 #2% % 1 First column
26194 \or
26195 #3% % 2 Second (Last column)

```



```

26196 \else
26197 \ERROR
26198 \fi
26199 \edef\next{\write\@auxout
26200   {\string\bidiset@column@status{bidi@column-\the\bidicolumn@check@number}%
26201   {\bidi@column@type}}}%
26202 \next
26203 }
26204
26205 \AtEndDocument{\def\bidi@set@column@status#1#2{%
26206   \ifnum #2=\bidicurrent@column@status\else
26207     \@tempwtrue
26208     \fi}%
26209 }
26210 \fi
26211
26212 \def\RTL@outputdblcol{%
26213   \if@firstcolumn
26214     \global\@firstcolumnfalse
26215     \global\setbox\@leftcolumn\copy\@outputbox
26216     \splitmaxdepth\maxdimen
26217     \vbadness\maxdimen
26218     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26219     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26220     \toks@\expandafter{\topmark}%
26221     \xdef\@firstcoltopmark{\the\toks@}%
26222     \toks@\expandafter{\splitfirstmark}%
26223     \xdef\@firstcolfirstmark{\the\toks@}%
26224     \ifx\@firstcolfirstmark\empty
26225       \global\let\@setmarks\relax
26226     \else
26227       \gdef\@setmarks{%
26228         \let\firstmark\@firstcolfirstmark
26229         \let\topmark\@firstcoltopmark}%
26230     \fi
26231   \else
26232     \global\@firstcolumntrue
26233     \setbox\@outputbox\vbox{%
26234       \hb@xt@\textwidth{%
26235         \hskip \columnwidth
26236         \hfil
26237         {\normalcolor\vrule \@width\columnseprule}%
26238         \hfil
26239         \hb@xt@\columnwidth{%
26240           \bidi@firstcolumn@status@write%
26241           \box\@leftcolumn \hss}%
26242         \hskip -\textwidth
26243         \hb@xt@\columnwidth{%
26244           \bidi@lastcolumn@status@write%
26245           \box\@outputbox \hss}%
26246         \hskip \columnsep
26247         \hskip \columnwidth }}%
26248   \@combinedblfloats
26249   \@setmarks

```



```

26250 \@outputpage
26251 \begingroup
26252 \@dblfloatplacement
26253 \@startdblcolumn
26254 \@whilesw@if@fcolmade \fi{\@outputpage
26255 \@startdblcolumn}%
26256 \endgroup
26257 \fi}%
26258
26259 \def\LTR@outputdblcol{%
26260 \if@firstcolumn
26261 \global\@firstcolumnfalse
26262 \global\setbox\@leftcolumn\copy\@outputbox
26263 \splitmaxdepth\maxdimen
26264 \vbadness\maxdimen
26265 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26266 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26267 \toks@\expandafter{\topmark}%
26268 \xdef\@firstcoltopmark{\the\toks@}%
26269 \toks@\expandafter{\splitfirstmark}%
26270 \xdef\@firstcolfirstmark{\the\toks@}%
26271 \ifx\@firstcolfirstmark\@empty
26272 \global\let\@setmarks\relax
26273 \else
26274 \gdef\@setmarks{%
26275 \let\firstmark\@firstcolfirstmark
26276 \let\topmark\@firstcoltopmark}%
26277 \fi
26278 \else
26279 \global\@firstcolumntrue
26280 \setbox\@outputbox\vbox{%
26281 \hb@xt@\textwidth{%
26282 \hb@xt@\columnwidth{%
26283 \bidi@firstcolumn@status@write%
26284 \box\@leftcolumn \hss}%
26285 \hfil
26286 {normalcolor\vrule \@width\columnseprule}%
26287 \hfil
26288 \hb@xt@\columnwidth{%
26289 \bidi@lastcolumn@status@write%
26290 \box\@outputbox \hss}}}%
26291 \@combinedblfloats
26292 \@setmarks
26293 \@outputpage
26294 \begingroup
26295 \@dblfloatplacement
26296 \@startdblcolumn
26297 \@whilesw@if@fcolmade \fi{\@outputpage
26298 \@startdblcolumn}%
26299 \endgroup
26300 \fi}%
26301
26302
26303 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}

```



```

26304 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
26305 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
26306
26307 \bidi@patchcmd\@makecol{%
26308   \ifvoid\footins
26309     \setbox\@outputbox \box\@cclv
26310   \else
26311     \setbox\@outputbox \vbox {%
26312       \boxmaxdepth \@maxdepth
26313       \unvbox \@cclv
26314       \vskip \skip\footins
26315       \color@begingroup
26316         \normalcolor
26317         \footnoterule
26318         \unvbox \footins
26319       \color@endgroup
26320     }%
26321   \fi
26322 }{%
26323   \ifvoid\footins
26324     \ifvoid\@bidi@copyins@
26325       \setbox\@outputbox \box\@cclv
26326     \else
26327       \setbox\@outputbox \vbox {%
26328         \boxmaxdepth \@maxdepth
26329         \unvbox \@cclv
26330         \vskip \skip\@bidi@copyins@
26331         \color@begingroup
26332           \normalcolor
26333           \unvbox \@bidi@copyins@
26334         \color@endgroup
26335       }%
26336     \fi
26337   \else
26338     \setbox\@outputbox \vbox {%
26339       \boxmaxdepth \@maxdepth
26340       \unvbox \@cclv
26341       \vskip \skip\footins
26342       \color@begingroup
26343         \normalcolor
26344         \footnoterule
26345         \unvbox \footins
26346       \color@endgroup
26347     \ifvoid\@bidi@copyins@
26348     \else
26349       \vskip \skip\@bidi@copyins@
26350       \color@begingroup
26351         \normalcolor
26352         \unvbox \@bidi@copyins@
26353       \color@endgroup
26354     \fi
26355   }%
26356   \fi
26357 }{}{}

```



```

26358
26359 \def\LTRmarginpar{%
26360   \ifhmode
26361     \@bsphack
26362     \@floatpenalty -\@Mii
26363   \else
26364     \@floatpenalty-\@Miii
26365   \fi
26366   \ifinner
26367     \@parmoderr
26368     \@floatpenalty\z@
26369   \else
26370     \@next\@currbox\@freelist{}{}%
26371     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26372     {\@floatpenalty\z@
26373       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26374   \fi
26375   \@ifnextchar [\@LTRxmpar\@LTRympar}
26376 \long\def\@LTRxmpar[#1]#2{%
26377   \@LTRsavemarbox\@marbox{#1}%
26378   \@LTRsavemarbox\@currbox{#2}%
26379   \@xympar}
26380 \long\def\@LTRympar#1{%
26381   \@LTRsavemarbox\@marbox{#1}%
26382   \global\setbox\@currbox\copy\@marbox
26383   \@xympar}
26384 \long\def \@LTRsavemarbox #1#2{%
26385   \global\setbox #1%
26386     \color@vbox
26387     \vtop{%
26388       \hsize\marginparwidth
26389       \@parboxrestore
26390       \@LTRmarginparreset
26391       #2%
26392       \@minipagefalse
26393       \outer@nobreak
26394     }%
26395   \color@endbox
26396 }
26397 \def \@LTRmarginparreset {%
26398   \reset@font
26399   \normalsize
26400   \@minipagetrue
26401   \everypar{\@minipagefalse\everypar{}\beginL}%
26402 }
26403 \def\RTLmarginpar{%
26404   \ifhmode
26405     \@bsphack
26406     \@floatpenalty -\@Mii
26407   \else
26408     \@floatpenalty-\@Miii
26409   \fi
26410   \ifinner
26411     \@parmoderr

```



```

26412 \floatpenalty\z@
26413 \else
26414 \@next\@currbox\@freelist{}{}%
26415 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26416 {\floatpenalty\z@
26417 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26418 \fi
26419 \ifnextchar [\@RTLxmpar\@RTLympar]
26420 \long\def\@RTLxmpar[#1]#2{%
26421 \@RTLSavemarbox\@marbox{#1}%
26422 \@RTLSavemarbox\@currbox{#2}%
26423 \@xympar}
26424 \long\def\@RTLympar#1{%
26425 \@RTLSavemarbox\@marbox{#1}%
26426 \global\setbox\@currbox\copy\@marbox
26427 \@xympar}
26428 \long\def \@RTLSavemarbox #1#2{%
26429 \global\setbox #1%
26430 \color@vbox
26431 \vtop{%
26432 \hsize\marginparwidth
26433 \@parboxrestore
26434 \@RTLMarginparreset
26435 #2%
26436 \@minipagefalse
26437 \outer@nobreak
26438 }%
26439 \color@endbox
26440 }
26441 \def \@RTLMarginparreset {%
26442 \reset@font
26443 \normalsize
26444 \@minipagetrue
26445 \everypar{\@minipagefalse\everypar{}\beginR}%
26446 }
26447 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
26448 \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
26449 \if@twocolumn
26450 \if@firstcolumn \@tempcnta\m@ne \fi
26451 \else
26452 \if@mparswitch
26453 \ifodd\c@page \else\@tempcnta\m@ne \fi
26454 \fi
26455 \if@reversemargin \@tempcnta -\@tempcnta \fi
26456 \fi
26457 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
26458 \@tempdima\mparbottom
26459 \advance\@tempdima -\@pageht
26460 \advance\@tempdima\ht\@marbox
26461 \ifdim\@tempdima >\z@
26462 \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
26463 \else
26464 \@tempdima\z@
26465 \fi

```




```

26466 \global\@mparbottom\@pageht
26467 \global\advance\@mparbottom\@tempdima
26468 \global\advance\@mparbottom\dp\@marbox
26469 \global\advance\@mparbottom\marginparpush
26470 \advance\@tempdima -\ht\@marbox
26471 \global\setbox \@marbox
26472         \vbox {\vskip \@tempdima
26473                 \box \@marbox}%
26474 \global \ht\@marbox \z@
26475 \global \dp\@marbox \z@
26476 \kern -\@pagedp
26477 \nointerlineskip
26478 \hb@xt@\columnwidth
26479     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
26480         \hskip\columnwidth \hskip\marginparsep
26481         \else
26482         \hskip -\marginparsep \hskip -\marginparwidth
26483         \fi
26484         \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
26485         \nointerlineskip
26486         \hbox{\vrule \height\z@ \@width\z@ \@depth\@pagedp}}
26487 \long\def\@ympar#1{%
26488     \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
26489     \global\setbox\@currbox\copy\@marbox
26490     \@xympar}
26491 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
26492 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
26493 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
26494 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
26495     \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
26496 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
26497     \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
26498     \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
26499     \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}}
26500 \fi}
26501
26502 \newcommand*{\bidi@font@@outputpage}{-}
26503
26504 \def\@outputpage{%
26505 \begingroup           % the \endgroup is put in by \aftergroup
26506 \let \protect \noexpand
26507 \@resetactivechars
26508 \global\let\@if@newlist\if@newlist
26509 \global\@newlistfalse
26510 \@parboxrestore
26511 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
26512 \bidi@beforeoutputpageshipouthook
26513 \shipout \vbox{%
26514     \set@typeset@protect
26515     \aftergroup \endgroup
26516     \aftergroup \set@typeset@protect
26517             % correct? or just restore by ending
26518             % the group?
26519 \if@specialpage

```



```

26520   \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
26521   \fi
26522   \if@twoside
26523     \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
26524     \if@RTLmain
26525       \let\@themargin\evensidemargin
26526     \else
26527       \let\@themargin\oddsidemargin
26528     \fi
26529   \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
26530     \if@RTLmain
26531       \let\@themargin\oddsidemargin
26532     \else
26533       \let\@themargin\evensidemargin
26534     \fi
26535   \fi
26536   \ifx\@thehead\@empty \let\@thehead\hfil \fi
26537   \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
26538   \else %% not @twoside
26539     \ifx\@oddhead\@empty \let\@thehead\hfil \fi
26540     \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
26541   \fi
26542   \reset@font
26543   \normalsize
26544   \bidi@font@@@outputpage
26545   \normalsfcodes
26546   \let\label\@gobble
26547   \let\index\@gobble
26548   \let\glossary\@gobble
26549   \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
26550   \@begindvi
26551   \vskip \topmargin
26552   \moveright\@themargin \vbox {%
26553     \global\let\@bidi@BeforeHeader\@firstofone
26554     \bidi@beforeheaderhook
26555     \setbox\@tempboxa \vbox to\headheight{%
26556       \vfil
26557       \color@hbox
26558       \normalcolor
26559       \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if
26560       \color@endbox
26561       }%
26562     \dp\@tempboxa \z@
26563     \box\@tempboxa
26564     \vskip \headsep
26565     \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
26566     \bidi@beforeoutputboxoutputpagehook
26567     \box\@outputbox
26568     \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
26569     \bidi@afteroutputboxoutputpagehook
26570     \global\let\@bidi@BeforeFooter\@firstofone
26571     \bidi@beforefooterhook
26572     \baselineskip \footskip
26573     \color@hbox

```



```

26574         \normalcolor
26575         \hb@xt@textwidth{\if@RTLmain@RTLtrue\beginR\else@RTLfalse\beginL\fi\@thefoot\if@R
26576         \color@endbox
26577         \global\let\@bidi@AfterFooter\@firstofone
26578         \bidi@afterfooterhook
26579     }%
26580 }%
26581 \global\let\@bidi@AfterOutputPageShipOut\@firstofone
26582 \bidi@afteroutputpageshipouthook
26583 \global\let\if@newlist\@if@newlist
26584 \global \colht \textheight
26585 \stepcounter{page}%
26586 \let\firstmark\botmark
26587 \global\let\@bidi@AtEndOutputPage\@firstofone
26588 \bidi@atendoutputpagehook
26589 }
26590 \long\def\@makecaption#1#2{%
26591   \vskip\abovecaptionskip
26592   \sbox\@tempboxa{#1: #2}%
26593   \ifdim \wd\@tempboxa >\hsize
26594     \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
26595   \else
26596     \global \@minipagefalse
26597     \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
26598   \fi
26599   \vskip\belowcaptionskip}
26600 \let\@bidi@saved@eqno=\eqno
26601 \let\@bidi@saved@leqno=\leqno
26602 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@eqno \fi}
26603 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
26604 \ApplyPatchIfPackageLoadedF{amsmath}{
26605 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
26606 }
26607 \input{footnote-xetex-bidi.def}
26608 \if@twocolumn
26609   \let\autofooterule\relax
26610   \let\leftfootnoterule\relax
26611   \let\rightfootnoterule\relax
26612   \textwidthfootnoterule
26613 \fi
26614 \if@bidi@csundef{\@idxitem}{-}{%
26615 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}}%
26616 }
26617
26618 \ApplyPatchToClassesIfPackageLoadedF{%
26619   book, %
26620   report %
26621 }{flowfram}
26622
26623 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
26624
26625 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
26626   fleqn, %
26627   leqno%

```



```

26628 }[clo]
26629
26630 \ApplyPatchToClasses{%
26631  amsart, %
26632  amsbook, %
26633  article, %
26634  artikel1, %
26635  artikel2, %
26636  artikel3, %
26637  beamer, %
26638  boek, %
26639  boek3, %
26640  bookest, %
26641  combine, %
26642  extbook, %
26643  extletter, %
26644  extarticle, %
26645  extreport, %
26646  imsproc, %
26647  letter, %
26648  memoir, %
26649  rapport1, %
26650  rapport3, %
26651  refrep, %
26652  scrartcl, %
26653  scrbook, %
26654  screprt %
26655 }
26656
26657 \ApplyPatchToPackages{%
26658  adjmulticol, %
26659  algorithm2e, %
26660  amsmath, %
26661  amstext, %
26662  amsthm, %
26663  arydshln, %
26664  array, %
26665  beamerbaseauxtemplates, %
26666  beamerbaseboxes, %
26667  beamerbasecolor, %
26668  beamerbasecompatibility, %
26669  beamerbaseframecomponents, %
26670  beamerbaseframesize, %
26671  beamerbaselocalstructure, %
26672  beamerbasemisc, %
26673  beamerbasenavigation, %
26674  beamerbaseoverlay, %
26675  beamerinnerthemecircles, %
26676  beamerinnerthemedefault, %
26677  beamerinnerthemefocus, %
26678  beamerinnerthemeinmargin, %
26679  beamerinnerthememetropolis, %
26680  beamerinnerthemerectangles, %
26681  beamerinnerthemrounded, %

```



26682 beamerouterthemedefault, %
 26683 beamerouterthemefocus, %
 26684 beamerouterthemeinfolines, %
 26685 beamerouterthememetropolis, %
 26686 beamerouterthememiniframes, %
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26769   pgfcorescopes.code, %
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26772
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163 File `xltextra-xetex-bidi.def`

```

26774 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
26775 \let\@XeTeX\XeTeX
26776 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
26777 \let\@XeLaTeX\XeLaTeX
26778 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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