



The *bidi Package*

Source documentation for *version 25.09.22*

*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.

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The *bid*i Package

Bidirectional typesetting with plain T_EX and L^AT_EX
formats in XeT_EX and LuaT_EX engines

Source documentation for [version 25.09.22](#)

Vafa Khalighi*

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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
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     \@makefntext{%
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 \@makefnintext{%
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 \@makefnintext{%
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 \if@RTL\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 \if@RTL\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\nonmath\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]
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]
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{
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 fo
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
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 \hspace\columnwidth
255     \@parboxrestore \parindent\normalparindent \sloppy
256     \protected@edef\@currentlabel{%
257       \csname p@footnote\endcsname\@thefnmark}%
258     \@makefntext{%
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\footnotesep \splitmaxdepth \dp\strutbox
268     \floatingpenalty\@MM \hsize\columnwidth
269     \@parboxrestore \parindent\normalparindent \sloppy
270     \protected@edef\@currentlabel{%
271       \csname p@footnote\endcsname\@thefnmark}%
272     \@makefntext{%
273       \rule\z@\footnotesep\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\footnotesep \splitmaxdepth \dp\strutbox
283     \floatingpenalty\@MM \hsize\columnwidth
284     \@parboxrestore \parindent\normalparindent \sloppy
285     \protected@edef\@currentlabel{%
286       \csname p@footnote\endcsname\@thefnmark}%
287     \@makefntext{%
288       \rule\z@\footnotesep\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   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@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]
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\@italiccc
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]
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}[2025/09/11 v0.7 bidi adaptations for array package for
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 \UseTaggingSocket{tbl/hmode/begin}%
390 \hbox \bgroup\if@RTLtab\beginR \fi
391 \MathCollectFalse$\MathCollectTrue
392 \col@sep\tabcolsep \let\d@llarbegin\begin\group
393 \let\d@llarend\end\group
394 \@kernel@tabular@init
395 \@tabarray}
396 \def\endtabular{\endarray\m@th $\if@RTLtab\endR\fi\egroup
397 \UseTaggingSocket{tbl/hmode/end}%
398 }
399 \expandafter\let\csname endtabular*\endcsname=\endtabular
400 \ExplSyntaxOn
401 \def\@array[#1]#2{
402 \@tempdima \ht \strutbox
403 \advance \@tempdima by\extrarowheight
404 \setbox \@arstrutbox \hbox{\vrule
405 \height \arraystretch \@tempdima
406 \depth \arraystretch \dp \strutbox
407 \width \z@}%
408 \tbl_save_outer_table_cols:
409 \begin\group

```



```

410 \@mkpream{#2}%
411 \tbl_count_table_cols:
412 \xdef\@preamble{
413   \noexpand \ar@ialign
414   \@halignto
415   \bgroup \@arstrut
416   \UseTaggingSocket{tbl/row/begin}
417   \tbl_init_cell_data_for_row:
418   \@preamble
419   \tabskip \z@ \cr}
420 \endgroup
421 \@arrayleft
422 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
423 \bgroup
424 \let \@sharp ##\let \protect \relax
425 \lineskip \z@
426 \baselineskip \z@
427 \mathsurround \z@
428 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
429 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
430 \UseTaggingSocket{tbl/init}
431 \@preamble
432 }
433 \let\@@array\@array
434 \def\endarray {
435   \tbl_crcr:n{endarray}
436   \tag_socket_use_expandable:n { math/luamml/array/save }
437   \egroup
438   \tag_socket_use:n { tbl/finalize }
439   \tbl_restore_outer_cell_data:
440   \if@RTLtab\egroup\endR\egroup\fi
441   \egroup
442   \tag_socket_use:n { math/luamml/array/finalize }
443   \@arrayright \gdef\@preamble{}%
444 }
445 \def\array{\col@sep\arraycolsep
446   \def\d@llarbegin{${\tag_socket_use:n { math/luamml/array/initcol }}
447   \def\d@llarend
448   {
449     \tag_socket_use:nn { math/luamml/save/nn }{{}}{mtd}}
450     $
451     \tag_socket_use:nn { math/luamml/array/finalizecol }{\the\@chnum}
452   }
453   \def\@halignto{}%
454   \@RTLtabfalse
455   \@tabarray}
456 \ExplSyntaxOff

```

9 File article-xetex-bidi.def

```

457 \ProvidesFile{article-xetex-bidi.def}[2025/09/08 v1.1 bidi adaptations for standard article]
458 \IfClassLoadedT{svmult}{\endinput}
459 \if@titlepage
460   \renewcommand\maketitle{\begin{titlepage}%

```



```

461 \let\footnotesize\small
462 \let\right@footnoterule\relax
463 \let\left@footnoterule\relax
464 \let\textwidth@footnoterule\relax
465 \let \footnote \thanks
466 \let \LTRfootnote \LTRthanks
467 \let \RTLfootnote \RTLthanks
468 \null\vfil
469 \vskip 60\p@
470 \begin{center}%
471   {\LARGE \@title \par}%
472   \vskip 3em%
473   {\large
474     \lineskip .75em%
475     \begin{tabular}[t]{c}%
476       \@author
477     \end{tabular}\par}%
478     \vskip 1.5em%
479     {\large \@date \par}%      % Set date in \large size.
480 \end{center}\par
481 \@thanks
482 \vfil\null
483 \end{titlepage}%
484 \setcounter{footnote}{0}%
485 \global\let\thanks\relax
486 \global\let\LTRthanks\relax
487 \global\let\RTLthanks\relax
488 \global\let\maketitle\relax
489 \global\let\@thanks\@empty
490 \global\let\@author\@empty
491 \global\let\@date\@empty
492 \global\let\@title\@empty
493 \global\let\title\relax
494 \global\let\author\relax
495 \global\let\date\relax
496 \global\let\and\relax
497 }
498 \else
499 \renewcommand\maketitle{\par
500   \begingroup
501     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
502     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
503     \long\def\@makefntext##1{\parindent 1em\noindent
504       \hb@xt@1.8em{%
505         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
506     \if@twocolumn
507       \ifnum \col@number=\@one
508         \@maketitle
509       \else
510         \twocolumn[\@maketitle]%
511       \fi
512     \else
513       \newpage
514       \global\@topnum\z@      % Prevents figures from going at top of page.

```



```

515     \@maketitle
516     \fi
517     \thispagestyle{plain}\@thanks
518 \endgroup
519 \setcounter{footnote}{0}%
520 \global\let\thanks\relax
521 \global\let\LTRthanks\relax
522 \global\let\RTLthanks\relax
523 \global\let\maketitle\relax
524 \global\let\@maketitle\relax
525 \global\let\@thanks\@empty
526 \global\let\@author\@empty
527 \global\let\@date\@empty
528 \global\let\@title\@empty
529 \global\let\title\relax
530 \global\let\author\relax
531 \global\let\date\relax
532 \global\let\and\relax
533 }
534 \def\@maketitle{%
535     \newpage
536     \null
537     \vskip 2em%
538     \begin{center}%
539         \let \footnote \thanks
540         \let \LTRfootnote \LTRthanks
541         \let \RTLfootnote \RTLthanks
542         {\LARGE \@title \par}%
543         \vskip 1.5em%
544         {\large
545             \lineskip .5em%
546             \begin{tabular}[t]{c}%
547                 \@author
548             \end{tabular}\par}%
549         \vskip 1em%
550         {\large \@date}%
551     \end{center}%
552     \par
553     \vskip 1.5em}
554 \fi
555 \renewcommand*\l@part[2]{%
556     \ifnum \c@tocdepth >-2\relax
557         \addpenalty\@secpenalty
558         \addvspace{2.25em \@plus\p@}%
559         \setlength\@tempdima{3em}%
560         \begingroup
561             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
562             \parfillskip -\@pnumwidth
563             {\leavevmode
564                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
565             \nobreak
566             \if@compatibility
567                 \global\@nobreaktrue
568                 \everypar{\global\@nobreakfalse\everypar{}}%

```




```

569     \fi
570   \endgroup
571 \fi}
572 \renewcommand*\l@section[2]{%
573   \ifnum \c@tocdepth >\z@
574     \addpenalty\@secpenalty
575     \addvspace{1.0em \@plus\p@}%
576     \setlength\@tempdima{1.5em}%
577     \begingroup
578       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
579       \parfillskip -\@pnumwidth
580       \leavevmode \bfseries
581       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
582       \hskip -\if@RTL\rightskip\else\leftskip\fi
583       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
584     \endgroup
585 \fi}
586 \renewcommand\left@footnoterule{%
587   \kern-3\p@
588   \hrule\@width.4\columnwidth
589   \kern2.6\p@}
590 \renewcommand\right@footnoterule{%
591   \kern-3\p@
592   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
593   \kern2.6\p@}
594 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
595 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
596 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
597 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
598 \ApplyPatchIfPackageLoaded{nameref}{%
599   \bidi@patchcmd\NR@part\raggedright{%
600     \if@RTL\raggedleft\else\raggedright\fi
601   }{}{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}}%
602   \bidi@patchcmd\NR@spart\raggedright{%
603     \if@RTL\raggedleft\else\raggedright\fi
604   }{}{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}}%
605 }{%
606   \bidi@patchcmd\@part\raggedright{%
607     \if@RTL\raggedleft\else\raggedright\fi
608   }{}{\bidi@warningnoline{Oops! patching `string\@part' failed}}}%
609   \bidi@patchcmd\@spart\raggedright{%
610     \if@RTL\raggedleft\else\raggedright\fi
611   }{}{\bidi@warningnoline{Oops! patching `string\@spart' failed}}}%
612 }
613 \renewenvironment{thebibliography}[1]
614   {\section*{\refname}%
615    \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
616    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
617    \bidi@thebibliography@font@hook%
618    \list{\@biblabel{\@arabic\c@enumiv}}%
619      {\settowidth\labelwidth{\@biblabel{#1}}%
620       \leftmargin\labelwidth
621       \advance\leftmargin\labelsep
622       \@openbib@code

```



```

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

```

10 File artikel1-xetex-bidi.def

```

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

```



```

674     \noindent\ignorespaces}
675     {\par\vfil\null\endtitlepage}
676 \else
677   \renewenvironment{abstract}{%
678     \if@twocolumn
679       \section*{\abstractname}%
680     \else
681       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
682       \section*{\small\SectFont\abstractname}%
683       \noindent\ignorespaces
684     \fi}
685     {\if@twocolumn\else\par\egroup\fi}
686 \fi
687 \renewcommand*{@regtocline[3]}{%
688   \ifnum #1>\c@tocdepth
689   \else
690     \vskip\z@\@plus.2\p@
691     {\hangindent\z@ \afterindenttrue \interlinepenalty\M
692     \if@RTL\rightskip\else\leftskip\fi\unitindent
693     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
694     \parfillskip\z@
695     \@tempdima\unitindent
696     \parindent\z@
697     \leavevmode
698     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
699     \hskip 1em \nobreak{\slshape #3}\par
700   }%
701   \fi}
702 \if@oldtoc
703 \renewcommand*{\l@part[2]}{%
704   \ifnum \c@tocdepth >-2\relax
705     \addpenalty\@secpenalty
706     \addvspace{2.25em \@plus\p@}%
707     \begingroup
708       \setlength\@tempdima{3em}%
709       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
710       \parfillskip -\@pnumwidth
711       {\leavevmode
712         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
713         \nobreak
714         \if@compatibility
715           \global\@nobreaktrue
716           \everypar{\global\@nobreakfalse\everypar{}}%
717         \fi
718       \endgroup
719   \fi}
720 \else
721   \renewcommand*{\l@part}{%
722     \ifnum \c@tocdepth >-2\relax
723       \addpenalty\@secpenalty
724       \addvspace{2.25em \@plus \p@}%
725       \@regtocline{0}%
726     \fi}
727 \fi

```



```

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

```



```

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

```



```

836 \futurelet\@tempa\uc@ax}
837 \def\uc@ax{%
838 \ifx\@tempa\relax
839 \else
840 \\\ \andname \\\ \expandafter\uc@authornothanks
841 \fi}
842 \def\uc@tx{\ifx\@tempa\relax
843 \else \expandafter\uc@ty \fi}
844 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
845 \else
846 \renewcommand*\maketitle{\par
847 \begin{group}
848 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
849 \def\@makefnmark{\rlap{%
850 \@textsuperscript{\normalfont\@thefnmark}}}%
851 \long\def\@makefntext{\@xmakefntext{%
852 \@textsuperscript{\normalfont\@thefnmark}}}%
853 \if@twocolumn
854 \ifnum \col@number=\@one
855 \@maketitle
856 \else
857 \twocolumn[\@maketitle]%
858 \fi
859 \else
860 \newpage
861 \global\@topnum\z@
862 \@maketitle
863 \fi
864 \thispagestyle{plain}\@thanks
865 \end{group}
866 \setcounter{footnote}{0}%
867 \global\let\thanks\relax
868 \global\let\maketitle\relax
869 \global\let\@maketitle\relax
870 \global\let\@thanks\@empty
871 \global\let\@author\@empty
872 \global\let\@title\@empty
873 \global\let\@date\@empty
874 \global\let\title\relax
875 \global\let\author\relax
876 \global\let\date\relax
877 \global\let\and\relax
878 }
879 \def\@maketitle{%
880 \newpage
881 \null
882 \vskip 2em%
883 \begin{center}%
884 \let \footnote \thanks
885 {\LARGE \TitleFont \@title \par}%
886 \vskip 1.5em%
887 {\large \TitleFont
888 \lineskip .5em%
889 \begin{tabular}[t]{c}%

```



```

890      \@author
891      \end{tabular}\par}%
892      \vskip 1em%
893      {\large \TitleFont \@date}%
894      \end{center}%
895      \par
896      \vskip 1.5em}
897 \fi

```

11 File artikel2-xetex-bidi.def

```

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

```



```

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

```




```

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

```



```

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

```



```

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

```

12 File artikel3-xetex-bidi.def

```

1150 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class]
1151 \renewenvironment{theindex}{%
1152   \if@twocolumn
1153     \@restonecolfalse

```



```

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

```



```

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

```



```

1262 {\section*{\refname}%
1263   \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1264   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1265   \bidi@thebibliography@font@hook%
1266   \list{\@biblabel{\@arabic\c@enumiv}}%
1267     {\settowidth\labelwidth{\@biblabel{#1}}%
1268     \leftmargin\labelwidth
1269     \advance\leftmargin\labelsep
1270     \@openbib@code
1271     \usecounter{enumiv}%
1272     \let\p@enumiv\@empty
1273     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1274   \sloppy\clubpenalty4000\widowpenalty4000%
1275   \sfcode\.\@m}
1276 {\def\@noitemerr
1277   {\@latex@warning{Empty `thebibliography' environment}}%
1278   \endlist}
1279 \if@titlepage
1280 \renewcommand*\TitleFont{\rmfamily}
1281 \renewcommand*\maketitle{%
1282   \begin{titlepage}%
1283     \let\footnotesize\small
1284     \let\right@footnoterule\relax
1285     \let\left@footnoterule\relax
1286     \let\textwidth@footnoterule\relax
1287     \let\footnote\thanks
1288     \long\def\@makefnmark##1{\parindent\z@
1289       \def\labelitemi{\textendash}\@revlabeltrue
1290       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1291     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1292     \if@compatibility\setcounter{page}{0}\fi
1293     \null\vfil
1294     \vskip 60\p@
1295     \begin{center}%
1296       \TitleFont
1297       {\LARGE \def\{\penalty -\@M}
1298       \if@allcaps
1299         \expandafter\uc@nothanks\@title\thanks\relax
1300       \else
1301         \@title
1302       \fi\par}%
1303     \vskip 3em%
1304     {\large
1305     \lineskip .75em \parindent\z@
1306     \begin{tabular}[t]{c}%
1307       \if@allcaps
1308         \expandafter\uc@authornothanks\@author\and\relax
1309       \else
1310         \@author
1311       \fi
1312     \end{tabular}\par}%
1313     \vskip 1.5em%
1314     {\large
1315     \if@allcaps

```



```

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

```



```

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

```

13 File arydshln-xetex-bidi.def

```

1410 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln packag
1411 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \ifRTLtab\egroup\endR\egroup\fi\egro
1412 \def\endtabular{\endarray $\ifRTLtab\endR\fi\egroup}
1413 \expandafter\let\csname endtabular*\endcsname\endtabular
1414 \let\adl@array\@array
1415 \def\@array{\adl@everyvbox\everyvbox
1416 \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1417 \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1418 \let\adl@noalign\noalign
1419 \adl@array}
1420 \ifadl@usingarypkg

```




```

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

```



```

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

```



```

1529             \if@RTL\endR\fi\egroup\egroup
1530         \begingroup
1531             \CT@setup
1532             \CT@column@color
1533             \CT@row@color
1534             \CT@cell@color
1535             \CT@do@color
1536         \endgroup
1537         \@tempdima\ht\z@
1538         \advance\@tempdima\minrowclearance
1539         \vrule\@height\@tempdima\@width\z@
1540         \unhbox\z@\if@RTL\endL\fi}%
1541     \prepnext@tok}
1542 \let\adl@act@classz\@classz
1543 \let\adl@org@classz\@classz
1544 }

```

14 File beamer-xetex-bidi.def

```

1545 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for
1546 \AtBeginDocument{%
1547     \if@RTLmain
1548         \raggedleft
1549     \else
1550         \raggedright
1551     \fi
1552 }
1553
1554 \renewcommand*{\bidi@beamer@ragged}{%
1555     \if@RTL
1556         \raggedleft
1557     \else
1558         \raggedright
1559     \fi
1560 }
1561
1562

```

15 File beamerbaseauxtemplates-xetex-bidi.def

```

1563 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for b
1564 \bidi@csundef{beamer@@tmpop@subsection in toc@sections numbered}
1565
1566 \bidi@csundef{beamer@@tmpop@subsubsection in toc@sections numbered}
1567
1568 \bidi@csundef{beamer@@tmpop@section in toc@subsections numbered}
1569
1570 \bidi@csundef{beamer@@tmpop@subsection in toc@subsections numbered}
1571
1572 \bidi@csundef{beamer@@tmpop@subsubsection in toc@subsections numbered}
1573
1574 \defbeamertemplate{subsection in toc}{sections numbered}
1575 {\leavevmode\bidi@beamer@leftskip=2.5em\inserttocsubsection\par}
1576

```



```

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

```



```

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

```



```

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

```



```

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

```



```

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

```




```

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

```

16 File beamerbaseboxes-xetex-bidi.def

```

1883 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerba
1884 \renewcommand\beamerboxesrounded[2] [] {%
1885 \global\let\beamer@firstlineitemizeunskip=\relax%
1886 \vbox\bgroup%
1887 \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1888 \setkeys{beamerboxes}{#1}%
1889 {%
1890 \usebeamercolor{\bmb@lower}%
1891 \globalcolorstrue%
1892 \colorlet{lower.bg}{bg}%
1893 }%
1894 {%
1895 \usebeamercolor{\bmb@upper}%
1896 \globalcolorstrue%
1897 \colorlet{upper.bg}{bg}%

```



```

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

```



```

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

```

17 File beamerbasecolor-xetex-bidi.def

```

1979 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerba
1980 \renewenvironment{beamercolorbox}[2][]{%
1981 \def\beamer@vmode{\leavevmode}%
1982 \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1983 leftskip=0pt,rightskip=0pt plus1fil,%
1984 sep=0pt,colsep=0pt,colsep*=0pt,%
1985 shadow=false,rounded=false,ignorebg=false}%
1986 \if@RTL
1987 \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1988 \else
1989 \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1990 \fi
1991 \setkeys{beamercolbox}{#1}%
1992 \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1993 \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1994 \def\beamer@colbox@color{#2}%
1995 \setbox\beamer@tempbox=\hbox\bgroup\color@bebegin{group}
1996 \ifbeamer@colbox@ignorebg%
1997 \colorlet{beamer@temp@color}{bg}%
1998 \usebeamercolor[fg]{#2}%
1999 \colorlet{bg}{beamer@temp@color}%
2000 \else%
2001 \usebeamercolor[fg]{#2}%
2002 \fi%

```



```

2003 \beginL
2004 \vbox\bgroup%
2005 \hsize=\beamer@colbox@wd%
2006 \@arrayparboxrestore%
2007 \leftskip=\beamer@colbox@ls%
2008 \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
2009 \rightskip=\beamer@colbox@rs%
2010 \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
2011 \if@tempswa\ifdim\beamer@colbox@colsep>\z%
2012 \advance\leftskip by\beamer@colbox@colsep%
2013 \advance\rightskip by\beamer@colbox@colsep%
2014 \vskip\beamer@colbox@colsep%
2015 \fi%
2016 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2017 \fi%
2018 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2019 \beamer@vmode\ignorespaces}{%
2020 \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
2021 \if@tempswa
2022 \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
2023 \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
2024 \fi%
2025 \egroup\endL\color@endgroup\egroup%
2026 \wd\beamer@tempbox=\beamer@colbox@wd%
2027 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2028 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2029 \ifbeamer@colbox@rounded%
2030 \if@tempswa%
2031 \begin{beamerboxesrounded}[%
2032 shadow=\beamer@colbox@shadow,%
2033 lower=\beamer@colbox@color,%
2034 upper=normal text,%
2035 width=\beamer@colbox@wd]{%
2036 \box\beamer@tempbox%
2037 \end{beamerboxesrounded}%
2038 \else%
2039 \ifdim\wd\beamer@tempbox>\textwidth%
2040 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2041 \fi%
2042 \box\beamer@tempbox%
2043 \fi%
2044 \else%
2045 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2046 \usebeamercolor{\beamer@colbox@color}%
2047 \hskip-\beamer@colbox@colseps%
2048 \fboxsep=\z@\colorbox{bg}{%
2049 \hskip\beamer@colbox@colseps%
2050 \box\beamer@tempbox%
2051 \hskip\beamer@colbox@colseps%
2052 }%
2053 \hskip-\beamer@colbox@colseps%
2054 }\fi%
2055 \ifdim\wd\beamer@tempbox>\textwidth%
2056 \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box

```



```

2057 \fi%
2058 \box\beamer@tempbox%
2059 \fi%
2060 }
2061
2062

```

18 File beamerbasecompatibility-xetex-bidi.def

```

2063 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for
2064 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\
2065
2066

```

19 File beamerbaseframecomponents-xetex-bidi.def

```

2067 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations fo
2068 \renewcommand{\setbeamersize}[1]{%
2069 \beamer@dogeometryfalse%
2070 \setkeys{beamer@margin}{#1}%
2071 \ifbeamer@dogeometry%
2072 % Reset left margin now
2073 \beamer@tempdim=\beamer@leftmargin%
2074 \advance\beamer@tempdim by\beamer@leftsidebar%
2075 \if@RTLmain
2076 \geometry{right=\the\beamer@tempdim}%
2077 \else
2078 \geometry{left=\the\beamer@tempdim}%
2079 \fi
2080 % Reset right margin now
2081 \beamer@tempdim=\beamer@rightmargin%
2082 \advance\beamer@tempdim by\beamer@rightsidebar%
2083 \if@RTLmain
2084 \geometry{left=\the\beamer@tempdim}%
2085 \else
2086 \geometry{right=\the\beamer@tempdim}%
2087 \fi
2088 \fi%
2089 }
2090
2091 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2092 \if@RTLmain
2093 \Gm@rmargin
2094 \else
2095 \Gm@lmargin
2096 \fi
2097 }
2098
2099 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2100 \if@RTLmain
2101 \Gm@lmargin
2102 \else
2103 \Gm@rmargin
2104 \fi

```



```

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

```



```

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

```



```

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

```




```

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

```



```

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

```



```

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

```



```

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

```

20 File beamerbaseframesize-xetex-bidi.def

```

2474 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beam
2475 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2476   \par\nointerlineskip%
2477   \global\beamer@slidehaszoomtrue%
2478   \advance\beamer@zoomcount by1\relax%
2479   \def\beamer@zoomborderwidth{0}%

```



```

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

```



```

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

```



```

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

```

21 File beamerbaselocalstructure-xetex-bidi.def

```

2597 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2598 \def\beamer@enum@{%
2599     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2600     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2601     \bgroup
2602     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2603     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2604     \egroup
2605     \expandafter
2606     \list
2607         {\usebeamertemplate{\beamer@enumtempl}}
2608         {\usecounter\@enumctr%
2609             \def\makelabel##1{{\hss\llap{%
2610                 \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2611                 \usebeamerfont{itemize/enumerate \beameritemnestingprefix item}##1}}}}}%
2612     \beamer@cramped%
2613     \bidi@beamer@ragged%
2614     \beamer@firstlineitemizeunskip%
2615 }
2616
2617 \renewcommand{\itemize}[1][ ]{%
2618     \ifblank{#1}{\def\beamer@defaultospec{#1}}%
2619     \ifnum \@itemdepth >2\relax\@toodeep\else
2620         \advance\@itemdepth\@ne
2621         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2622         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2623         \bgroup
2624         \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2625         \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2626         \egroup
2627         \list
2628             {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2629             {\def\makelabel##1{%
2630                 {%
2631                     \hss\llap{%
2632                         \usebeamerfont*{itemize \beameritemnestingprefix item}%
2633                         \usebeamerfont{itemize \beameritemnestingprefix item}##1}}}%
2634                 }%
2635             }%
2636         }
2637     \fi%
2638     \beamer@cramped%

```



```

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

```

22 File beamerbasemisc-xetex-bidi.def

```

2683 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbas
2684 \define@key{beamerst}{width}{%
2685 \def\beamer@ststart{%
2686 \begin{minipage}[t]{#1}%
2687 \bidi@beamer@ragged
2688 \beamer@stalign
2689 \beamer@stlinebreakrule

```




```

2690 }%
2691 \def\beamer@stend{\end{minipage}}
2692
2693

```

23 File beamerbasenavigation-xetex-bidi.def

```

2694 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for bea
2695 \def\slideentry#1#2#3#4#5#6{%
2696   %section number, subsection number, slide number, first/last frame, page number, part num
2697   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2698     \ifbeamer@compress%
2699       \advance\beamer@xpos by1\relax%
2700     \else%
2701       \ifnum#2=0%
2702         \beamer@ypos@offset=1\relax%
2703       \fi
2704       \beamer@xpos=#3\relax%
2705       \beamer@ypos=#2\relax%
2706       \advance\beamer@ypos by \beamer@ypos@offset\relax
2707     \fi%
2708     \hbox to 0pt{%
2709       \beamer@tempdim=-\beamer@vboxoffset%
2710       \advance\beamer@tempdim by-\beamer@boxsize%
2711       \multiply\beamer@tempdim by\beamer@ypos%
2712       \advance\beamer@tempdim by -.05cm%
2713       \raise\beamer@tempdim\hbox{%
2714         \beamer@tempdim=\beamer@boxsize%
2715         \multiply\beamer@tempdim by\beamer@xpos%
2716         \advance\beamer@tempdim by -\beamer@boxsize%
2717         \advance\beamer@tempdim by 1pt%
2718         \kern\beamer@tempdim
2719         \global\beamer@section@min@dim\beamer@tempdim
2720         \hbox{\beamer@link(#4){}%
2721           \usebeamerfont{mini frame}%
2722           \ifnum\c@section=#1%
2723             \ifnum\c@subsection=#2%
2724               \usebeamercolor{fg}{mini frame}%
2725               \ifnum\c@subsectionslide=#3%
2726                 \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2727               \else%
2728                 \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhi
2729             \fi%
2730           \else%
2731             \usebeamercolor{mini frame}%
2732             %\color{fg!50!bg}%
2733             \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2734           \fi%
2735         \else%
2736           \usebeamercolor{mini frame}%
2737           %\color{fg!50!bg}%
2738           \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2739         \fi%
2740       }}}} \hskip-10cm plus 1fil%

```



```

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

```



```

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

```

24 File beamerbaseoverlay-xetex-bidi.def

```

2811 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2812 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2813
2814

```

25 File beamerinnerthemedefault-xetex-bidi.def

```

2815 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2816 \newcommand*{\bidi@beamer@leftskip}{%
2817 \if@RTL
2818 \rightskip
2819 \else
2820 \leftskip
2821 \fi
2822 }
2823
2824 \newcommand*{\bidi@beamer@rightskip}{%
2825 \if@RTL
2826 \leftskip
2827 \else
2828 \rightskip
2829 \fi
2830 }
2831
2832 \bidi@csundef{beamer@@tmpop@subsection in toc@default}
2833
2834 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2835
2836 \defbeamertemplate*{subsection in toc}{default}
2837 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2838
2839 \defbeamertemplate*{subsubsection in toc}{default}
2840 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2841 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2842

```



```

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

```



```

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

```



```

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

```



```

3005 \if@RTL
3006 \else
3007     \hskip-\beamer@tempdim%
3008     \box\beamer@tempbox%
3009     \kern4pt%
3010 \fi
3011 }
3012
3013

```

26 File beamerinnerthemecircles-xetex-bidi.def

```

3014 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for be
3015 \setbeamertemplate{sections/subsections in toc}[circle]
3016

```

27 File beamerinnerthemefocus-xetex-bidi.def

```

3017 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for be
3018 \setbeamertemplate{section in toc}[square]
3019 \setbeamertemplate{subsection in toc}[square]
3020
3021 \setbeamertemplate{itemize items}[square]
3022 \setbeamertemplate{itemize subitem}[triangle]
3023
3024 \bidi@csundef{beamer@@tmpop@title page@focus}
3025
3026 \defbeamertemplate*{title page}{focus}{%
3027     {%
3028         \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3029         \begin{tikzpicture}[overlay, remember picture]
3030             \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.
3031         \end{tikzpicture}
3032     }
3033
3034     \vspace{-1.65\baselineskip}
3035     \begin{minipage}[b][0.35\paperheight]{\textwidth}
3036         \vspace{\baselineskip}
3037         \usebeamerfont{title}
3038         \usebeamercolor[fg]{frametitle}
3039         \inserttitle
3040     \end{minipage}
3041
3042     \begin{minipage}[t][0.1\paperheight]{\textwidth}
3043         \usebeamerfont{subtitle}
3044         \usebeamercolor[fg]{frametitle}
3045         \insertsubtitle
3046     \end{minipage}
3047
3048     % Set the title graphic in a zero-height box, so that
3049     % the position of other elements is not affected.
3050     {\vfuzz=9999pt\vbox to 0pt {
3051         \if@RTL
3052         \raggedright

```



```

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

```

28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3084 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3085 \AtBeginDocument{%
3086     \setbeamsize{sidebar width left=.25\paperwidth}%
3087 }
3088
3089 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3090
3091 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3092
3093 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3094
3095 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3096
3097 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3098
3099 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3100
3101 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3102
3103 \bidi@csundef{beamer@@tmpop@block example end@inmargin}

```




```

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

```



```

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

```

29 File beamerinnerthememetropolis-xetex-bidi.def

```

3179 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations f
3180 \setbeamertemplate{title}{
3181   \bidi@beamer@ragged%
3182   \linespread{1.0}%
3183   \inserttitle%
3184   \par%
3185   \vspace*{0.5em}
3186 }
3187
3188 \setbeamertemplate{subtitle}{
3189   \bidi@beamer@ragged%
3190   \insertsubtitle%
3191   \par%
3192   \vspace*{0.5em}
3193 }
3194
3195 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3196
3197 \defbeamertemplate{section page}{progressbar}{
3198   \centering
3199   \begin{minipage}{22em}
3200     \bidi@beamer@ragged
3201     \usebeamercolor[fg]{section title}
3202     \usebeamerfont{section title}
3203     \insertsectionhead\[-lex]
3204     \usebeamertemplate*{progress bar in section page}
3205     \par
3206     \ifx\insertsubsectionhead\@empty\else%
3207       \usebeamercolor[fg]{subsection title}%
3208       \usebeamerfont{subsection title}%

```



```

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

```



```

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

```

30 File beamerinnerthemerectangles-xetex-bidi.def

```

3304 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations f
3305 \setbeamertemplate{sections/subsections in toc}[square]
3306 \setbeamertemplate{items}[square]
3307

```

31 File beamerinnerthemrounded-xetex-bidi.def

```

3308 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for
3309 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3310 \setbeamertemplate{items}[ball]

```



```

3311 \setbeamertemplate{sections/subsections in toc}[ball]
3312

```

32 File beamerouterthemedefault-xetex-bidi.def

```

3313 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for
3314 \def\beamer@ftelleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.7cm}
3315
3316 \def\beamer@fterright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.7cm}
3317
3318 \AtBeginDocument{%
3319   \if@RTLmain
3320     \setbeamertemplate{frametitle}[default][right]
3321   \fi
3322 }
3323
3324 \bidi@csundef{beamer@@tmpop@note page@default}
3325
3326 \newcommand*{\bidi@beamer@today}{%
3327   \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3328
3329 \defbeamertemplate*{note page}{default}
3330 {%
3331   {%
3332     \scriptsize
3333     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3334     \ifbeamercolorempy[bg]{note title}{\%
3335       \insertvrule{.25\paperheight}{note title.bg}%
3336       \vskip-.25\paperheight%
3337       \nointerlineskip%
3338     }%
3339     \vbox{
3340       \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3341       \vskip-0.25\paperheight%
3342       \nointerlineskip
3343       \if@RTL
3344         \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3345           \begin{pgflowlevelscope}{\pgftransformrotate{-90}}
3346             {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3347             \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3348           \end{pgflowlevelscope}
3349         \end{pgfpicture}%
3350       \else
3351         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3352           \begin{pgflowlevelscope}{\pgftransformrotate{90}}
3353             {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3354             \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3355           \end{pgflowlevelscope}
3356         \end{pgfpicture}%
3357       \fi}
3358     \nointerlineskip
3359     \vbox to .25\paperheight{\vskip0.5em
3360     \if@RTL
3361       \moveright0.25\textwidth

```



```

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

```

33 File beamerouterthemefocus-xetex-bidi.def

```

3403 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for be
3404 \bidi@undef\beamer@@tmpop@footline@progressbar
3405
3406 \defbeamertemplate*{footline}{progressbar}{%
3407 % If not appendix.
3408 \ifnum\mainend<0% From package appendixnumberbeamer.
3409 %
3410 \settowidth{\focus@pbar@leftoffset}{1}%
3411 \addtolength{\focus@pbar@leftoffset}{1.5em}%
3412 %

```



```

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

```



```

3467             \fi%
3468         \end{tikzpicture}%
3469     \fi%
3470 \fi%
3471 \fi%
3472 }
3473
3474

```

34 File beamerouterthemeinfolines-xetex-bidi.def

```

3475 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations fo
3476 \bidi@csundef{beamer@@tmpop@footline@infolines theme}
3477
3478 \defbeamertemplate*{footline}{infolines theme}
3479 {%
3480     \leavevmode%
3481     \hbox{%
3482         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}
3483         \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\
3484         \end{beamercolorbox}%
3485         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}
3486         \usebeamerfont{title in head/foot}\insertshorttitle
3487         \end{beamercolorbox}%
3488         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,
3489         \hfill%
3490         \usebeamerfont{date in head/foot}%
3491         \insertshortdate}%
3492         \hfill%
3493         \bgroup
3494         \usebeamercolor[fg]{page number in head/foot}%
3495         \usebeamerfont{page number in head/foot}%
3496         \usebeamertemplate{page number in head/foot}%
3497         \egroup
3498         \end{beamercolorbox}}%
3499     \vskip0pt%
3500 }
3501
3502 \bidi@csundef{beamer@@tmpop@headline@infolines theme}
3503
3504 \defbeamertemplate*{headline}{infolines theme}
3505 {%
3506     \leavevmode%
3507     \hbox{%
3508         \if@RTL
3509         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3510         \else
3511         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3512         \fi
3513         \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3514         \end{beamercolorbox}%
3515         \if@RTL
3516         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}
3517         \else

```




```

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

```

35 File beamerouterthememetropolis-xetex-bidi.def

```

3529 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations f
3530 \setbeamertemplate{progress bar in head/footer}{
3531 \nointerlineskip
3532 \setlength{\metropolis@progressinheadfoot}{%
3533 \paperwidth * \ratio{\insertframenum pt}{\inserttotalframenum pt}%
3534 }%
3535 \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/footer}
3536 \begin{tikzpicture}
3537 \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3538 \if@RTLmain
3539 \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \met
3540 \else
3541 \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinhead
3542 \fi
3543 \end{tikzpicture}%
3544 \end{beamercolorbox}
3545 }
3546
3547 \AtBeginDocument{%
3548 \setbeamertemplate{frametitle}[plain]%
3549 }
3550
3551

```

36 File beamerouterthememiniframes-xetex-bidi.def

```

3552 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3553 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3554
3555 \defbeamertemplate*{headline}{miniframes theme}
3556 {%
3557 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3558 \end{beamercolorbox}
3559 \begin{beamercolorbox}{section in head/footer}
3560 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3561 \end{beamercolorbox}%
3562 \ifbeamer@theme@subsection%
3563 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3564 \end{beamercolorbox}
3565 \if@RTL

```



```

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

```

37 File beamerouterthemesidebar-xetex-bidi.def

```

3580 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for
3581 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3582
3583 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3584
3585 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3586
3587 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3588
3589 \ifdim\beamer@headheight>0pt
3590
3591 \defbeamertemplate*{frametitle}{sidebar theme}
3592 {%
3593 \nointerlineskip%
3594 \ifbeamer@plainframe%
3595 \hbox{\usebeamercolor[bg]{frametitle}%
3596 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3597 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3598 \nointerlineskip%
3599 \fi%
3600 \vskip-\beamer@headheight%
3601 \vbox to \beamer@headheight{%
3602 \vfil
3603 \bidi@beamer@leftskip=-\beamer@leftmargin%
3604 \advance\bidi@beamer@leftskip by0.3cm%
3605 \bidi@beamer@rightskip=-\beamer@rightmargin%
3606 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3607 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par
3608 \ifx\insertframesubtitle\@empty\else%
3609 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframes
3610 \fi%
3611 \vbox{}%
3612 \vskip-1em%
3613 \vfil
3614 }%
3615 }
3616

```



```

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

```



```

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

```

38 File beamerouterthemesplit-xetex-bidi.def

```

3700 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for be
3701 \bidi@csundef{beamer@@tmpop@footline@split theme}
3702
3703 \defbeamertemplate*{footline}{split theme}
3704 {%
3705 \leavevmode%
3706 \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm p
3707 \else
3708 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightsk
3709 \fi
3710 \usebeamerfont{author in head/foot}\insertshortauthor
3711 \end{beamercolorbox}%
3712 \if@RTL
3713 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3714 \else
3715 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm
3716 \fi
3717 \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor
3718 \end{beamercolorbox}}%
3719 \vskip0pt%
3720 }
3721

```



3722

39 File beamerouterthemeshadow-xetex-bidi.def

```
3723 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for b
3724 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitles
3725   color(0pt)=(frametitle right.bg);
3726   color(\paperwidth)=(frametitle.bg)
3727 }
3728
3729 \newcommand*{\bidi@beamer@frametitleshade}{%
3730   \if@RTLmain
3731     \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3732   \else
3733     \pgfuses shading{beamer@frametitleshade}%
3734   \fi
3735 }
3736
3737 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3738
3739 \defbeamertemplate*{frametitle}{shadow theme}
3740 {%
3741   \nointerlineskip%
3742   \vskip-2pt%
3743   \hbox{\leavevmode
3744     \advance\beamer@leftmargin by -12bp%
3745     \advance\beamer@rightmargin by -12bp%
3746     \beamer@tempdim=\textwidth%
3747     \advance\beamer@tempdim by \beamer@leftmargin%
3748     \advance\beamer@tempdim by \beamer@rightmargin%
3749     \hskip-\Gm@lmargin\hbox{%
3750       \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3751         \vbox{\vskip-.75ex%
3752           \bidi@beamer@leftskip0.3cm%
3753           \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3754           \bgroup\usebeamerfont[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertfram
3755           \ifx\insertframesubtitle\empty\else%
3756             {\usebeamerfont*{framesubtitle}{\usebeamerfont[fg]{framesubtitle}\insertframes
3757           \fi%
3758           \nointerlineskip
3759           \vbox{}%
3760           \end{minipage}}}%
3761       \beamer@tempdim=\ht\beamer@tempbox%
3762       \advance\beamer@tempdim by 2pt%
3763       \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3764         \begin{pgfscope}
3765           \pgfsetfillcolor{black}%
3766           \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3767           \pgfsetfading{beamer@topshadowmask}{}%
3768           \pgfusepath{fill}%
3769         \end{pgfscope}
3770         \begin{pgfscope}
3771           \usebeamerfont{frametitle right}%
3772           \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
```



```

3773         \pgfusepath{clip}%
3774         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3775         \end{pgfscope}
3776     \end{pgfpicture}
3777     \hskip-\paperwidth%
3778     \box\beamer@tempbox%
3779 }%
3780 \hskip-\Gm@rmargin%
3781 }%
3782 \vskip-2pt
3783 }
3784
3785 \AtBeginDocument{%
3786     \setbeamertemplate{frametitle}[shadow theme]%
3787 }
3788
3789

```

40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3790 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3791 \bidi@csundef{beamer@@tmpop@headline@smoothbars theme}
3792
3793 \bidi@csundef{beamer@@tmpop@frametitle@smoothbars theme}
3794
3795 \defbeamertemplate*{headline}{smoothbars theme}
3796 {%
3797     \pgfuseshading{beamer@barshade}%
3798     \vskip-0.05ex%
3799     \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3800     \begin{pgfpicture}
3801         \begin{pgfscope}%
3802             \ifbeamer@sb@subsection%
3803                 \pgfsetfillcolor{subsection in head/foot.bg}%
3804             \else%
3805                 \pgfsetfillcolor{section in head/foot.bg}%
3806             \fi%
3807             \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3808             \pgfsetfading{beamer@belowframetitlemask}{}%
3809             \pgfusepath{fill}%
3810         \end{pgfscope}%
3811     \end{pgfpicture}%
3812     \end{beamercolorbox}%
3813     \ifbeamer@sb@subsection%
3814         \vskip-9.75ex%
3815     \else%
3816         \vskip-6.85ex%
3817     \fi%
3818     \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3819         \insertnavigation{\paperwidth}
3820     \end{beamercolorbox}%
3821     \ifbeamer@sb@subsection%
3822     \ifRTL
3823         \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%

```



```

3824     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3825 \else
3826 \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3827     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3828 \fi
3829 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3830 \end{beamercolorbox}%
3831 \fi%
3832 }%
3833
3834 \defbeamertemplate*{frametitle}{smoothbars theme}
3835 {%
3836 \nointerlineskip%
3837 \vskip-0.19ex%
3838 \usebeamerfont{headline}%
3839 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3840 \pgfuses shading{beamer@aboveframetitle}%
3841 \end{beamercolorbox}%
3842 \vskip-1ex%
3843 \nointerlineskip%
3844 \if@RTL
3845 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{framet
3846 \else
3847 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{framet
3848 \fi
3849 \vskip0.5ex%
3850 \usebeamerfont*{frametitle}\strut\insertframetitle%
3851 \ifx\insertframesubtitle\@empty%
3852 \strut\par%
3853 \else
3854 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insert
3855 \fi%
3856 \usebeamerfont{headline}%
3857 \vskip0.05ex%
3858 \end{beamercolorbox}%
3859 \nointerlineskip%
3860 \vskip-0.05ex%
3861 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3862 \begin{pgfpicture}
3863 \begin{pgfscope}%
3864 \pgfsetfillcolor{frametitle.bg}%
3865 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3866 \pgfsetfading{beamer@belowframetitlemask}{}%
3867 \pgfusepath{fill}%
3868 \end{pgfscope}%
3869 \end{pgfpicture}%
3870 \end{beamercolorbox}%
3871 }
3872
3873 \AtBeginDocument{%
3874 \setbeamertemplate{frametitle}[smoothbars theme]%
3875 }
3876
3877

```



41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3878 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations f
3879 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3880
3881 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3882
3883 \defbeamertemplate*{headline}{smoothtree theme}
3884 {%
3885   \pgfuseshading{beamer@treeshade}%
3886   \vskip-0.05ex%
3887   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3888     \begin{pgfpicture}
3889       \begin{pgfscope}%
3890         \pgfsetfillcolor{subsection in head/foot.bg}%
3891         \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3892         \pgfsetfading{beamer@belowframetitlemask}{}%
3893         \pgfusepath{fill}%
3894       \end{pgfscope}%
3895     \end{pgfpicture}%
3896   \end{beamercolorbox}%
3897   \vskip-9.15ex%
3898   \if@RTL
3899     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3900       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3901   \else
3902     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3903       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3904     \fi
3905     \usebeamerfont{title in head/foot}\insertshorttitle
3906   \end{beamercolorbox}
3907   \if@RTL
3908     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3909       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3910   \else
3911     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3912       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3913     \fi
3914     \usebeamerfont{section in head/foot}%
3915     \hskip6pt\insertsectionhead
3916   \end{beamercolorbox}
3917   \if@RTL
3918     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3919       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3920   \else
3921     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3922       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3923     \fi
3924     \usebeamerfont{subsection in head/foot}%
3925     \hskip12pt\insertsubsectionhead
3926   \end{beamercolorbox}
3927   \vskip-0.4ex%
3928 }
3929

```




```

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

```

42 File beamerouterthemetree-xetex-bidi.def

```

3973 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3974 \bidi@csundef{beamer@tmpop@headline@tree theme}
3975
3976 \defbeamertemplate*{headline}{tree theme}
3977 {%
3978   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3979   \end{beamercolorbox}
3980   \if@RTL

```



```

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

```

43 File beamerthemeHannover-xetex-bidi.def



```

4032 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beam
4033 \AtBeginDocument{%
4034   \if@RTLmain
4035     \setbeamertemplate{frametitle}[default][left]%
4036   \else
4037     \setbeamertemplate{frametitle}[default][right]%
4038   \fi
4039 }
4040
4041

```

44 File beamerthemeSingapore-xetex-bidi.def

```

4042 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for bea
4043 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{ }
4044
4045 \beamertemplatedotitem
4046
4047 \AtBeginDocument{%
4048   \setbeamertemplate{frametitle}[default][center]%
4049 }
4050
4051

```

45 File bidi.sty

```

4052 \NeedsTeXFormat{LaTeX2e}
4053 \def\bidiidate{2025/09/22}
4054 \def\bidi@version{25.09.22}
4055 \def\bidi@releasename{Iran}
4056 \newcommand*{\bidi@releasename}{\bidi@releasename}
4057 \ProvidesPackage{bidi}[\bidiidate\space v\bidi@version\space (Release \bidi@releasename)\spa
4058 Bidirectional typesetting in plain TeX and LaTeX]
4059 \newif\if@bidi@banner
4060 \newif\if@bidi@pdfbanner
4061 \newif\iffootdir@debug
4062 \newif\if@extrafootnotefeatures
4063 \newif\if@nonlatin
4064 \newif\if@bidi@pdfm@mark
4065 \newif\if@bidi@perpage@footnote
4066 \ExplSyntaxOn
4067 \msg_new:nnn {bidi} {cannot-use-engine}
4068 {
4069   Oops!~can~not~use~\c_sys_engine_str.\\\
4070   The~bidi~package~requires~XeTeX.
4071 }
4072 \sys_if_engine_xetex:F
4073 {
4074   \msg_fatal:nn {bidi} {cannot-use-engine}
4075 }
4076
4077 \keys_define:nn { bidi }
4078 {
4079   banner .choice: ,

```



```

4080     banner / on .code:n = \@bidi@bannertrue ,
4081     banner / off .code:n = \@bidi@bannerfalse ,
4082     banner .default:n = on
4083 }
4084 \keys_define:nn { bidi }
4085 {
4086     PDFbanner .choice: ,
4087     PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4088     PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4089     PDFbanner .default:n = on
4090 }
4091 \keys_define:nn { bidi }
4092 {
4093     RTLdocument .choice: ,
4094     RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4095     RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4096     RTLdocument .default:n = on
4097 }
4098 \keys_define:nn { bidi }
4099 {
4100     rldocument .choice: ,
4101     rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4102     rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4103     rldocument .default:n = on
4104 }
4105 \keys_define:nn { bidi }
4106 {
4107     documentdirection .choice: ,
4108     documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4109     documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4110 }
4111 \keys_define:nn { bidi }
4112 {
4113     tabledirection .choice: ,
4114     tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4115     tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4116 }
4117 \keys_define:nn { bidi }
4118 {
4119     footnotedirection .choice: ,
4120     footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4121     footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4122 }
4123 \keys_define:nn { bidi }
4124 {
4125     debugfootnotedirection .choice: ,
4126     debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4127     debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4128     debugfootnotedirection .default:n = on
4129 }
4130 \keys_define:nn { bidi }
4131 {
4132     footnoterule .choice: ,
4133     footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,

```



```

4134     footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4135     footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4136     footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4137     footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4138   }
4139 \keys_define:nn { bidi }
4140 {
4141     extrafootnotefeatures .choice: ,
4142     extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4143     extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4144     extrafootnotefeatures .default:n = on
4145 }
4146 \keys_define:nn { bidi }
4147 {
4148     script .choice: ,
4149     script / latin .code:n = \@nonlatinfalse ,
4150     script / nonlatin .code:n = \@nonlatintrue ,
4151     script .default:n = latin
4152 }
4153 \keys_define:nn { bidi }
4154 {
4155     DetectColumn .choice: ,
4156     DetectColumn / on .code:n =
4157       \def\bidi@firstcolumn@status@write{%
4158         \protected@write\@auxout{%
4159           {\string\bidi@column@status
4160             {1}}}%
4161       \def\bidi@lastcolumn@status@write{%
4162         \protected@write\@auxout{%
4163           {\string\bidi@column@status{2}}}% ,
4164     DetectColumn / off .code:n =
4165       \let\bidi@firstcolumn@status@write\relax
4166       \let\bidi@lastcolumn@status@write\relax ,
4167     DetectColumn .default:n = on
4168 }
4169 \keys_define:nn { bidi }
4170 {
4171     logo .choice: ,
4172     logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4173     logo / off .code:n = \AtEndOfPackage{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4174     logo .default:n = on
4175 }
4176 \keys_define:nn { bidi }
4177 {
4178     pdfinfo .choice: ,
4179     pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4180     pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4181     pdfinfo .default:n = on
4182 }
4183 % The 'perpagefootnote' option is documented in UK TeX FAQ at
4184 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4185 \keys_define:nn { bidi }
4186 {
4187     perpagefootnote .choice: ,

```



```

4188     perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4189     perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4190     perpagefootnote .default:n = on
4191   }
4192 \keys_set:nn { bidi }
4193   {
4194     banner = on ,
4195     PDFbanner = on ,
4196     DetectColumn = off
4197   }
4198 }
4199 \ExplSyntaxOff
4200 \ProcessKeyOptions
4201 \edef\@bidi@info{*****^J%
4202 * ^^J%
4203 * bidi package (Bidirectional typesetting with^^J%
4204 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)^^J%
4205 * ^^J%
4206 * Description: A convenient interface for^^J%
4207 * typesetting bidirectional texts in plain TeX^^J%
4208 * and LaTeX. The package includes adaptations^^J%
4209 * for use with many other commonly-used packages.^^J%
4210 * ^^J%
4211 * Copyright (c) 2007--2025 Vafa Khalighi^^J%
4212 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4213 * ^^J%
4214 * v\bidi@version\space (Release \bidi@releasename), \bidi@date^^J%
4215 * ^^J%
4216 * License: LaTeX Project Public License, version^^J%
4217 * 1.3c or higher (your choice)^^J%
4218 * ^^J%
4219 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4220 * ^^J%
4221 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4222 * ^^J%
4223 * Primary author of bidi package: Vafa Khalighi.^^J%
4224 * ^^J%
4225 *****}
4226 \edef\bidi@everyjob{\the\everyjob}
4227 \if@bidi@banner
4228   \typeout{\@bidi@info}
4229   \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4230 \fi
4231 \newcommand*\bidiversion{\ensurerm\bidi@version}
4232 \RequirePackage{biditools}
4233 \RequirePackage{zref-abspage}
4234 \RequirePackage{auxhook}
4235 \RequirePackage{ltxcmds}
4236 \eqnewif{\if@RTLmain}{\if@rlmain}
4237 \eqnewif{\if@RTL}{\if@rl}
4238 \newcommand*\setlatin{\@nonlatinfalse}
4239 \newcommand*\setnonlatin{\@nonlatintrue}
4240 \eqnewif{\if@RTLtab}{\if@tab@rl}
4241 \newif\if@hboxRconstruct

```



```

4242 \newif\if@bidi@pdfencrypt
4243 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4244 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4245 \newif\if@RTLmarginpar
4246 \newif\if@LTRmarginpar
4247 \newif\if@LTRbibitems
4248 \newif\if@RTLbibitems
4249 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4250 \newif\if@bidi@list@minipage@parbox
4251 \newif\if@bidi@list@minipage@parbox@not@nob
4252 \newcommand*{\@bidi@pdfcreator}{%
4253   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4254 }
4255 \newcommand*{\@bidi@pdfproducer}{%
4256   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4257 }
4258 \newcommand*{\@bidi@pdfcustomproperties}{%
4259   This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4260   Released September 22, 2025.
4261 }
4262 \newcommand*{\bidi@beamer@ragged}{%}
4263 \@RTLmainfalse
4264 \AtBeginDocument{%
4265   \if@RTLmain\else
4266     \if@RTL\@RTLmaintrue%
4267     \else\@RTLmainfalse%
4268     \fi%
4269   \fi%
4270 }
4271 \let\n@xt=\
4272 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4273 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4274 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4275 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4276 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4277   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4278 \newinsert\@bidi@copyins@
4279 \skip\@bidi@copyins@=12\p@
4280 \dimen\@bidi@copyins@=40pc
4281 \count\@bidi@copyins@=1000
4282 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4283 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4284   \if@RTLmain
4285     \if@twocolumn
4286       \hboxR to \columnwidth
4287     \else
4288       \hboxR to \textwidth
4289     \fi
4290   \else
4291     \if@twocolumn
4292       \hboxL to \columnwidth
4293     \else
4294       \hboxL to \textwidth
4295     \fi

```



```

4296 \fi
4297 }
4298 \newcommand*{\@bidi@logo}[1]{%
4299 \toks@{%
4300 \setbox\z@\hbox{%
4301 \special{%
4302 pdf:image width 50pt height 50pt (#1)%
4303 }
4304 }%
4305 \dp\z@\z@
4306 \ht\z@=50pt
4307 \wd\z@=50pt
4308 \beginL
4309 \lower20pt\box\z@
4310 \endL
4311 }%
4312 \the\toks@
4313 }
4314 \newcount\bidi@typesethour
4315 \newcount\bidi@typesetminute
4316 \bidi@typesethour=\time
4317 \divide\bidi@typesethour 60
4318 \bidi@typesetminute=-\bidi@typesethour
4319 \multiply\bidi@typesetminute 60
4320 \advance\bidi@typesetminute \time
4321 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4322 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4323 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4324 \newcommand*{\@bidi@logo@}{%
4325 \@bidi@logo@hb@xt@columnwidth
4326 {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4327 package\quad\@bidi@logo{bidi-logo.pdf}}}}
4328 \ExplSyntaxOn
4329 \keys_define:nn { bidi / pdfencrypt }
4330 {
4331 userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4332 userpassword .default:n =
4333 }
4334 \keys_define:nn { bidi / pdfencrypt }
4335 {
4336 ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4337 ownerpassword .default:n =
4338 }
4339 \keys_define:nn { bidi / pdfencrypt }
4340 {
4341 keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4342 keylength .default:n = 128
4343 }
4344 \keys_define:nn { bidi / pdfencrypt }
4345 {
4346 permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4347 permissionflags .default:n = 2052
4348 }
4349 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }

```




```

4350 \ExplSyntaxOff
4351 \@onlypreamble\pdfencryptsetup
4352 \input{latex-xetex-bidi.def}
4353
4354 \pdfencryptsetup{%
4355   userpassword,%
4356   ownerpassword,%
4357   keylength,%
4358   permissionflags%
4359 }
4360
4361 \if@extrafootnotefeatures
4362 \input{extrafootnotefeatures-xetex-bidi.def}
4363 \fi
4364 \newcount\ bidi@digits
4365 \XeTeXinterchartokenstate=\@ne
4366 \newXeTeXintercharclass\ bidi@digits@charclass
4367 \newXeTeXintercharclass\ bidi@sepmark@charclass
4368 \XeTeXcharclass \. \ bidi@sepmark@charclass
4369 \XeTeXcharclass \- \ bidi@sepmark@charclass
4370 \ bidi@digits=\0 \loop \XeTeXcharclass \ bidi@digits \ bidi@digits@charclass \ifnum\ bidi@digits<10\do{\edef\ bidi@digits{\the\ bidi@digits\0}\XeTeXcharclass \the\ bidi@digits \the\ bidi@digits@charclass}\fi\loop\do{}
4371 \ bidi@digits=\ \loop \XeTeXcharclass \ bidi@digits \ bidi@digits@charclass \ifnum\ bidi@digits<256\do{\edef\ bidi@digits{\the\ bidi@digits\ }\XeTeXcharclass \the\ bidi@digits \the\ bidi@digits@charclass}\fi\loop\do{}
4372 \ bidi@digits=\ \loop \XeTeXcharclass \ bidi@digits \ bidi@digits@charclass \ifnum\ bidi@digits<65536\do{\edef\ bidi@digits{\the\ bidi@digits\ }\XeTeXcharclass \the\ bidi@digits \the\ bidi@digits@charclass}\fi\loop\do{}
4373 \XeTeXinterchartoks \ bidi@sepmark@charclass \ bidi@digits@charclass = {\DigitsDotDashInterCharToks}\fi
4374 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4375 \ bidi@AtEndPreamble{%
4376   \if@ bidi@perpage@footnote
4377     \RequirePackage{ bidi-perpage}%
4378     \ResetCounterPerPage{footnote}%
4379   \fi
4380   \ifx\ bidi@pdfencrypt@ownerpassword\ bidi@empty
4381     \ifx\ bidi@pdfencrypt@userpassword\ bidi@empty
4382       \@ bidi@pdfencryptfalse
4383     \else
4384       \@ bidi@pdfencrypttrue
4385     \fi
4386   \else
4387     \@ bidi@pdfencrypttrue
4388   \fi
4389   \if@ bidi@pdfencrypt
4390     \special{pdf:encrypt
4391       userpw (\ bidi@pdfencrypt@userpassword)
4392       ownerpw (\ bidi@pdfencrypt@ownerpassword)
4393       length \ bidi@pdfencrypt@keylength
4394       perm \ bidi@pdfencrypt@permissionflags
4395     }%
4396   \fi
4397 }
4398 \if@ bidi@pdfbanner
4399 \if@ bidi@pdfm@mark
4400 \AtEndDocument{%
4401 \special{pdf:
4402 docinfo<<%
4403 /Creator(\@ bidi@pdfcreator)%

```



```

4404         /Producer(\@bidi@pdfproducer)%
4405         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4406         \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4407             /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4408         }{}%
4409     >>%
4410 }%
4411 }
4412 \else
4413     \AtEndDocument{%
4414         \special{pdf:%
4415             docinfo<<%
4416                 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4417                 \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4418                     /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4419                 }{}%
4420             >>%
4421         }%
4422     }
4423 \fi
4424 \else
4425     \if@bidi@pdfm@mark
4426         \AtEndDocument{%
4427             \special{pdf:%
4428                 docinfo<<%
4429                     /Creator(\@bidi@pdfcreator)%
4430                     /Producer(\@bidi@pdfproducer)%
4431                 >>%
4432             }%
4433         }
4434 \fi
4435 \fi

```

46 File bidi.tex

```

4436 \def\biddate{2025/09/22}
4437 \catcode`\@=11
4438 \def\bidi@version{25.09.22}
4439 \def\bidi@releasename{Iran}
4440 \def\bidi@releasename{\bidi@releasename}
4441 \let \protect \relax
4442 \newlinechar`\^^J
4443 \edef\@bidi@info{*****~J%
4444 * ~J%
4445 * bidi package (Bidirectional typesetting with~J%
4446 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)~J%
4447 * ~J%
4448 * Description: A convenient interface for~J%
4449 * typesetting bidirectional texts in plain TeX~J%
4450 * and LaTeX. The package includes adaptations~J%
4451 * for use with many other commonly-used packages.~J%
4452 * ~J%
4453 * Copyright (c) 2007--2025 Vafa Khalighi~J%
4454 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%

```



```

4455 * ^^J%
4456 * v\bid@version\space (Release \bid@releasename), \bid@date^^J%
4457 * ^^J%
4458 * License: LaTeX Project Public License, version^^J%
4459 * 1.3c or higher (your choice)^^J%
4460 * ^^J%
4461 * Location on CTAN: /macros/unicodetex/generic/bidi^^J%
4462 * ^^J%
4463 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4464 * ^^J%
4465 * Primary author of bidi package: Vafa Khalighi.^^J%
4466 * ^^J%
4467 *****}
4468 \edef\bid@everyjob{\the\everyjob}
4469 \message{\@bid@info}
4470 \everyjob{\bid@everyjob\message{\@bid@info}}
4471 \def\bid@version{%
4472   \relax
4473   \ifmmode
4474     \bid@version
4475   \else
4476     $\bid@version$
4477   \fi
4478 }
4479 \input iftex.sty
4480 \RequireXeTeX
4481 \newif\if@bid@pdfm@mark
4482 \newif\if@RTLmain
4483 \newif\if@RTL
4484 \newif\if@hboxRconstruct
4485 \newif\if@sentdir
4486 \newif\if@RTL@footnote
4487 \@RTLmainfalse
4488 \def\setRTLmain{%
4489   \if@RTLmain\else
4490     \if@RTL\@RTLmaintrue%
4491     \else\@RTLmainfalse%
4492     \fi%
4493   \fi%
4494 }
4495 \let\n@xt=\
4496 \protected\def\LRE{\protect\pLRE}%
4497 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4498 \protected\def\RLE{\protect\pRLE}
4499 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4500 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4501   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4502 \newinsert\@bid@copyins@
4503 \skip\@bid@copyins@=12p@
4504 \dimen\@bid@copyins@=40pc
4505 \count\@bid@copyins@=1000
4506 \def\@bid@inslogo@{\insert\@bid@copyins@{\@bid@logo@}}
4507 \def\@bid@logo@hb@xt@{%
4508   \if@RTLmain

```



```

4509 \hboxR to
4510 \else
4511 \hboxL to
4512 \fi
4513 }
4514 \def\@bidi@logo#1{%
4515 \toks@{%
4516 \setbox\z@\hbox{%
4517 \special{%
4518 pdf:image width 50pt height 50pt (#1)%
4519 }
4520 }%
4521 \dp\z@\z@
4522 \ht\z@=50pt
4523 \wd\z@=50pt
4524 \beginL
4525 \lower20pt\box\z@
4526 \endL
4527 }%
4528 \the\toks@
4529 }
4530 \def\today{\ifcase\month\or
4531 January\or February\or March\or April\or May\or June\or
4532 July\or August\or September\or October\or November\or December\fi
4533 \space\number\day, \number\year}
4534 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4535 \newcount\bidi@typesethour
4536 \newcount\bidi@typesetminute
4537 \bidi@typesethour=\time
4538 \divide\bidi@typesethour 60
4539 \bidi@typesetminute=-\bidi@typesethour
4540 \multiply\bidi@typesetminute 60
4541 \advance\bidi@typesetminute \time
4542 \def\TypesetHour{\two@digits\bidi@typesethour}
4543 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4544 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4545 \def\@bidi@logo@{\@bidi@logo@hb@xt@hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} b
4546 \def\bidilogo{\@bidi@inslogo@}
4547 \def\nobidilogo{\let\@bidi@logo@\empty \let\@bidi@inslogo@\empty}
4548 \def\@bidi@pdfcreator{%
4549 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4550 }
4551 \def\@bidi@pdfproducer{%
4552 The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4553 }
4554 \def\@bidi@pdfcustomproperties{%
4555 This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4556 Released September 22, 2025.
4557 }
4558 \def\bidi@pdfm@mark{%
4559 \special{pdf:~
4560 docinfo<<%
4561 \if\@bidi@pdfm@mark
4562 /Creator(\@bidi@pdfcreator)%

```



```

4563      /Producer(\@bidi@pdfproducer)%
4564      \fi
4565      /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4566      >>%
4567      }%
4568 }
4569 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4570 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4571 \input plain-xetex-bidi.def
4572 \outer\def\bye{\bidi@pdfm@mark\par\vfill\supereject\end}
4573 \catcode`\@=12
4574 \bidipdfinfoon

```

47 File bidi2in1.sty

```

4575 \NeedsTeXFormat{LaTeX2e}
4576 \ProvidesPackage{bidi2in1}
4577 \pagestyle{plain}
4578 \newcount\evenpage
4579 \newcount\oddpager
4580 \twocolumn
4581 \def\@oddfoot{\evenpage=\thepage%
4582 \multiply\evenpage by 2%
4583 \oddpager=\thepage%
4584 \advance\oddpager by -1%
4585 \hfil\thepage\hfil\thepage\hfil}%
4586 \def\@evenfoot{\evenpage=\thepage%
4587 \multiply\evenpage by 2%
4588 \oddpager=\thepage%
4589 \advance\oddpager by -1%
4590 \hfil\thepage\hfil\thepage\hfil}%
4591 \textwidth 9.49in
4592 \textheight 6.7in
4593 \columnsep 0.9in
4594 \columnseprule 0.125pt
4595 \headheight 0cm
4596 \topmargin 0in
4597 \marginparwidth 0in
4598 \marginparsep 0in
4599 \hoffset 0.05in % Corrected
4600 \voffset -0.5in %top margin space is 1.0in by default
4601 \oddsidemargin 0in
4602 \evensidemargin 0in
4603 \headsep 0cm
4604 \topskip 0cm
4605 \parskip 0.15in %
4606 \headsep 0pt
4607 \special{papersize=11.69in,8.26in}
4608 \renewcommand\maketitle{\par
4609 \begingroup
4610 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4611 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4612 \long\def\@makefntext##1{\parindent 1em\noindent
4613 \hb@xt@1.8em{

```



```

4614 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4615 \@maketitle
4616 \@thanks
4617 \endgroup
4618 \setcounter{footnote}{0}%
4619 \global\let\thanks\relax
4620 \global\let\maketitle\relax
4621 \global\let\@maketitle\relax
4622 \global\let\@thanks\@empty
4623 \global\let\@author\@empty
4624 \global\let\@date\@empty
4625 \global\let\@title\@empty
4626 \global\let\title\relax
4627 \global\let\author\relax
4628 \global\let\date\relax
4629 \global\let\and\relax
4630 }

```

48 File `bidicode.sty`

```

4631 \NeedsTeXFormat{LaTeX2e}
4632 \ProvidesPackage{bidicode}
4633 \RequirePackage{xcolor}
4634 \RequirePackage{showexpl}
4635 \definecolor{hellgelb}{rgb}{1,1,0.85}
4636 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4637 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4638 \definecolor{colIdentifier}{rgb}{0,0,0}
4639 \definecolor{colComments}{rgb}{1,0,0}
4640 \definecolor{colString}{rgb}{0,0.5,0}
4641 \lstset{%
4642     language=[LaTeX]TeX,%
4643     float=hbp,%
4644     basicstyle=\ttfamily\small,%
4645     identifierstyle=\color{colIdentifier},%
4646     keywordstyle=\color{colKeys},%
4647     texcsstyle=\color{colCS},%
4648     stringstyle=\color{colString},%
4649     commentstyle=\color{colComments},%
4650     backgroundcolor=\color{hellgelb},%
4651     columns=flexible,%
4652     tabsize=4,%
4653     extendedchars=true,%
4654     showspace=false,%
4655     showstringspaces=false,%
4656     numbers=left,%
4657     numbersep=0.9em,%
4658     numberstyle=\tiny,%
4659     frame=single,%
4660     captionpos=b,%
4661     xleftmargin=1em,%
4662     breaklines=true,%
4663     breakautoindent=false,%
4664     breakindent=0pt,%

```



```

4665     escapeinside=**,%
4666     pos=r,%
4667     explpreset={%
4668         xleftmargin=1em,%
4669         columns=flexible,%
4670         language=[LaTeX]TeX%
4671     },%
4672     moretexcs={%
4673         bididate,%
4674         bidiversion,%
4675         deflatinfont,%
4676         defpersianfont,%
4677         ding,%
4678         endLTR,%
4679         endRTL,%
4680         false,%
4681         falsesymbol,%
4682         junicode,%
4683         lr,%
4684         LR,%
4685         LRE,%
4686         LTR,%
4687         maketitle,%
4688         Nastaliq,%
4689         newfontfamily,%
4690         Parsifont,%
4691         part,%
4692         RL,%
4693         RLE,%
4694         RTL,%
4695         RTLcases,%
4696         SepMark,%
4697         setLR,%
4698         setLTR,%
4699         setRL,%
4700         setRTL,%
4701         settextfont,%
4702         subsection,%
4703         subsubsection,%
4704         tableofcontents,%
4705         text,%
4706         theequation,%
4707         thesection,%
4708         true,%
4709         truesymbol,%
4710         XePersian,%
4711         xepersiandate,%
4712         xepersianversion%
4713     }%
4714 }
4715 \newcommand\HLON{%
4716     \gdef\lst@alloverstyle##1{%
4717         \fboxrule=0pt
4718         \fboxsep=0pt

```



```

4719 \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4720 }}
4721 \newcommand\HLOFF{%
4722 \xdef\lst@alloverstyle##1{##1}%
4723 }
4724 \newcommand\Larg [1]{\normalfont\itshape#1/}
4725 \newcommand\Larga[1]{\angle$\Larg{#1}$\rangle$}
4726 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4727 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4728 \newcommand\Largr[1]{\lr b\Larg{#1}\rrb}
4729 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}
4730 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}
4731
4732 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4733 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4734 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`\}}
4735 \DeclareRobustCommand\lsb{\normalfont\ttfamily[]}
4736 \DeclareRobustCommand\rsb{\normalfont\ttfamily[]}}
4737 \DeclareRobustCommand\lr b{\normalfont\ttfamily{}}
4738 \DeclareRobustCommand\rrb{\normalfont\ttfamily{}}
4739
4740 \def\Lcs#1{\nxLcs{#1}}
4741 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4742 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4743
4744 \def\Coordx#1{$_{#1}$}
4745 \def\Coordy#1{$_{#1}$}
4746 \def\Coordz#1{$_{#1}$}
4747 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4748 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4749 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4750 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4751 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4752 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4753 \def\coordin{(\Coordx{n},\kern 1pt\Coordy{n})}
4754 \def\coordi#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4755 \def\coordx#1{($_{#1}$)}
4756 \def\coordy#1{($_{#1}$)}
4757 \def\coordz#1{($_{#1}$)}
4758 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4759 \def\ciiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4760
4761 \newsavebox\boxdef
4762 \newenvironment{BDef}
4763 {\begin{lrbox}\boxdef
4764 \def\arraystretch{1.0}
4765 \begin{tabular}{@{}l@{}l@{}l@{}}
4766 }
4767 {\end{tabular}\end{lrbox}}
4768
4769 {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4770 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4771 }
4772

```




```

4773 \newenvironment{BDef*}
4774   {\begin{lrbox}\boxdef
4775     \def\arraystretch{1.0}
4776     \begin{tabular}{@{}l@{}l@{}l@{}}
4777   }
4778   {\end{tabular}\end{lrbox}
4779   {\begin{BCmd*}\fbox{\usebox\boxdef}\end{BCmd*}}
4780   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4781 }
4782 \newenvironment{BCmd*}{
4783   \@beginparpenalty-\@lowpenalty
4784   \topsep\BDefaboveskip
4785   \fboxsep3pt
4786   \flushleft}
4787 {\@endparpenalty\@M
4788  \topsepadd\BDefbelowskip
4789  \endflushleft}
4790
4791 \newenvironment{BCmd*}{
4792   \@beginparpenalty\@M
4793   \topsep\BDefinlineskip
4794   \fboxsep3pt
4795   \flushleft}
4796 {\@endparpenalty5000
4797  \endflushleft}
4798
4799 \newskip\BDefaboveskip
4800 \newskip\BDefbelowskip
4801 \newskip\BDefinlineskip
4802 \setlength\BDefaboveskip{10pt plus 4pt}
4803 \setlength\BDefbelowskip{6pt}
4804 \setlength\BDefinlineskip{6pt}
4805
4806 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4807 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
4808 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4809 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

49 File bidiftnxtra.sty

```

4810 \NeedsTeXFormat{LaTeX2e}
4811 \ProvidesPackage{bidiftnxtra}
4812 \newtoks\bidip@ftn
4813 \let\FN@sff@footnote\footnote
4814 \let\FN@sff@LTRfootnote\LTRfootnote
4815 \let\FN@sff@RTLfootnote\RTLfootnote
4816 \def\footnote{\ifx\protect\@typeset@protect
4817   \expandafter\FN@sff@footnote
4818   \else
4819     \expandafter\FN@sff@gobble@opt
4820   \fi
4821 }
4822 \def\LTRfootnote{\ifx\protect\@typeset@protect
4823   \expandafter\FN@sff@LTRfootnote

```



```

4824 \else
4825 \expandafter\FN@sfgobble@opt
4826 \fi
4827 }
4828 \def\RTLfootnotef{\ifx\protect\@typeset@protect
4829 \expandafter\FN@sfgobble@RTLfootnote
4830 \else
4831 \expandafter\FN@sfgobble@opt
4832 \fi
4833 }
4834 \edef\FN@sfgobble@opt{\noexpand\protect
4835 \expandafter\noexpand\csname FN@sfgobble@opt \endcsname}
4836 \expandafter\def\csname FN@sfgobble@opt \endcsname{%
4837 \@ifnextchar [%]
4838 \FN@sfgobble@twobrace
4839 \@gobble
4840 }
4841 \def\FN@sfgobble@twobrace[#1]#2{}
4842 \let\FN@sfgobble@footnotemark\footnotemark
4843 \def\footnotemark{\ifx\protect\@typeset@protect
4844 \expandafter\FN@sfgobble@footnotemark
4845 \else
4846 \expandafter\FN@sfgobble@optonly
4847 \fi
4848 }
4849 \edef\FN@sfgobble@optonly{\noexpand\protect
4850 \expandafter\noexpand\csname FN@sfgobble@optonly \endcsname}
4851 \expandafter\def\csname FN@sfgobble@optonly \endcsname{%
4852 \@ifnextchar [%]
4853 \FN@sfgobble@brace
4854 {}%
4855 }
4856 \def\FN@sfgobble@brace[#1]{}
4857 \def\@tabular{%
4858 \leavevmode \hbox \bgroup
4859 \let\@footnotetext\@bidi@p@ftntext
4860 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4861 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4862 \let\@xfootnotenext\@bidi@p@xftntext
4863 \let\@xfootnote\@bidi@p@xfootnote
4864 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4865 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4866 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4867 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4868 \if@RTLtab\beginR \fi
4869 $\let\@acol\@tabacol
4870 \let\@classz\@tabclassz
4871 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4872 \def\endtabular{\crr\egroup\if@RTLtab\endR\egroup\fi
4873 \egroup $\if@RTLtab\endR\fi\egroup
4874 \ifx\@captive\@undefined
4875 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
4876 \long\def\@bidi@p@ftntext#1{%
4877 \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%

```



```

4878 \global\bidip@ftn\expandafter{\@tempy{#1}}}%
4879 \long\def\bidip@LTRftntext#1{%
4880 \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}%
4881 \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4882 \long\def\bidip@RTLftntext#1{%
4883 \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}%
4884 \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4885
4886
4887 \long\def\bidip@xftntext[#1]#2{%
4888 \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4889
4890 \long\def\bidip@xLTRftntext[#1]#2{%
4891 \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4892
4893 \long\def\bidip@xRTLftntext[#1]#2{%
4894 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4895
4896
4897 \def\bidip@xfootnote[#1]{%
4898 \begingroup
4899 \csname c@\mpfn\endcsname #1\relax
4900 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4901 \endgroup
4902 \@footnotemark\bidip@xftntext[#1]}
4903
4904
4905 \def\bidip@xLTRfootnote[#1]{%
4906 \begingroup
4907 \csname c@\mpfn\endcsname #1\relax
4908 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4909 \endgroup
4910 \@footnotemark\bidip@xLTRftntext[#1]}
4911
4912
4913 \def\bidip@xRTLfootnote[#1]{%
4914 \begingroup
4915 \csname c@\mpfn\endcsname #1\relax
4916 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4917 \endgroup
4918 \@footnotemark\bidip@xRTLftntext[#1]}
4919
4920 \def\@xfloat #1[#2]{%
4921 \@nodocument
4922 \def \@capytype {#1}%
4923 \def \@fps {#2}%
4924 \@onelevel@sanitize \@fps
4925 \def \reserved@b {!}%
4926 \ifx \reserved@b \@fps
4927 \@fpsadddefault
4928 \else
4929 \ifx \@fps \@empty
4930 \@fpsadddefault
4931 \fi

```



```

4932 \fi
4933 \ifhmode
4934 \@bsphack
4935 \@floatpenalty -\@Mii
4936 \else
4937 \@floatpenalty-\@Miii
4938 \fi
4939 \ifinner
4940 \@parmoderr\@floatpenalty\z@
4941 \else
4942 \@next\@currbox\@freelist
4943 {%
4944 \@tempcnta \sixt@@n
4945 \expandafter \@tfor \expandafter \reserved@a
4946 \expandafter :\expandafter =\@fps
4947 \do
4948 {%
4949 \if \reserved@a h%
4950 \ifodd \@tempcnta
4951 \else
4952 \advance \@tempcnta \@ne
4953 \fi
4954 \fi
4955 \if \reserved@a t%
4956 \@setfpsbit \tw@
4957 \fi
4958 \if \reserved@a b%
4959 \@setfpsbit 4%
4960 \fi
4961 \if \reserved@a p%
4962 \@setfpsbit 8%
4963 \fi
4964 \if \reserved@a !%
4965 \ifnum \@tempcnta>15
4966 \advance\@tempcnta -\sixt@@n\relax
4967 \fi
4968 \fi
4969 }%
4970 \@tempcntb \csname ftype@\@captype \endcsname
4971 \multiply \@tempcntb \@xxxii
4972 \advance \@tempcnta \@tempcntb
4973 \global \count\@currbox \@tempcnta
4974 }%
4975 \@fltovf
4976 \fi
4977 \global \setbox\@currbox
4978 \color@vbox
4979 \normalcolor
4980 \vbox \bgroup
4981 \let\@footnotetext\@bidi@p@ftntext
4982 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4983 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4984 \let\@xfootnotenext\@bidi@p@xftntext
4985 \let\@xfootnote\@bidi@p@xfootnote

```



```

4986         \let\@xLTRfootnotenext\@xLTRftntext
4987         \let\@xLTRfootnote\@xLTRfootnote
4988         \let\@xRTLfootnotenext\@xRTLftntext
4989         \let\@xRTLfootnote\@xRTLfootnote
4990         \hsize\columnwidth
4991         \@parboxrestore
4992         \@floatboxreset
4993 }
4994 \def \endfloatbox{%
4995     \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
4996     \minipagefalse
4997     \outer@nobreak
4998     \egroup                %% end of vbox
4999     \global\@xL@ftn\expandafter{\expandafter}\the\@xL@ftn
5000     \color@endbox
5001 }

```

50 File bidimoderncv.cls

```

5002 \NeedsTeXFormat{LaTeX2e}
5003 \ProvidesClass{bidimoderncv}
5004 \newif\if@DEBUG\@DEBUGfalse
5005 \DeclareOption{a4paper}{
5006     \setlength\paperheight{297mm}
5007     \setlength\paperwidth{210mm}}
5008 \DeclareOption{a5paper}{
5009     \setlength\paperheight{210mm}
5010     \setlength\paperwidth{148mm}}
5011 \DeclareOption{b5paper}{
5012     \setlength\paperheight{250mm}
5013     \setlength\paperwidth{176mm}}
5014 \DeclareOption{letterpaper}{
5015     \setlength\paperheight{11in}
5016     \setlength\paperwidth{8.5in}}
5017 \DeclareOption{legalpaper}{
5018     \setlength\paperheight{14in}
5019     \setlength\paperwidth{8.5in}}
5020 \DeclareOption{executivepaper}{
5021     \setlength\paperheight{10.5in}
5022     \setlength\paperwidth{7.25in}}
5023 \DeclareOption{landscape}{
5024     \setlength\@tempdima{\paperheight}
5025     \setlength\paperheight{\paperwidth}
5026     \setlength\paperwidth{\@tempdima}}
5027 \newcommand\@ptsize{}
5028 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
5029 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5030 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5031 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5032 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5033 \newif\if@colour\@colourtrue
5034 \DeclareOption{nocolour}{\@colourfalse}
5035 \ExecuteOptions{a4paper,11pt,colour,final}
5036 \ProcessOptions\relax

```



```

5037 \input{size1\@ptsize.clo}
5038 \RequirePackage{color}
5039 \RequirePackage{graphicx}
5040 \RequirePackage{ifthen}
5041 \RequirePackage{marvosym}
5042 \addtolength{\oddsidemargin}{-54pt}
5043 \addtolength{\textwidth}{109pt}
5044 \addtolength{\topmargin}{-70pt}
5045 \addtolength{\textheight}{122pt}
5046 \addtolength{\marginparsep}{-5pt}
5047 \addtolength{\marginparwidth}{-10pt}
5048 \RequirePackage{url}
5049 \RequirePackage{hyperref}
5050 \hypersetup{%
5051   breaklinks,
5052   baseurl      = http://,%
5053   pdfborder    = 0 0 0,%
5054   pdfpagemode  = UseNone,%
5055   pdfstartpage = 1}
5056 \AtEndOfClass{%
5057   \AtBeginDocument{%
5058     \hypersetup{%
5059       pdfauthor    = \@firstname~\@familyname,%
5060       pdftitle     = \@title,%
5061       pdfsubject   = \@firstname~\@familyname,%
5062       pdfkeywords  = \@resumename~\@firstname~\@familyname}}}
5063 \urlstyle{tt}
5064 \RequirePackage{fancyhdr}
5065 \fancypagestyle{plain}{%
5066   \renewcommand{\headrulewidth}{0pt}
5067   \renewcommand{\footrulewidth}{0pt}
5068   \fancyhf{}}
5069 \pagestyle{plain}
5070 \setlength\lineskip{1\p@}
5071 \setlength\normallineskip{1\p@}
5072 \renewcommand\baselinestretch{}
5073 \setlength{\parindent}{0pt}
5074 \setlength{\parskip}{0pt}
5075 \setlength\columnsep{10\p@}
5076 \setlength\columnseprule{0\p@}
5077 \pagestyle{empty}
5078 \pagenumbering{arabic}
5079 \raggedbottom
5080 \onecolumn
5081 \providecommand*\listitemsymbol{\textbullet}
5082 \providecommand*\addresssymbol{}
5083 \providecommand*\mobilesymbol{\Mobilefone}
5084 \providecommand*\phonesymbol{\Telefon}
5085 \providecommand*\faxsymbol{\FAX}
5086 \providecommand*\emailsymbol{\Letter}
5087 \definecolor{firstnamecolour}{rgb}{0,0,0}
5088 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5089 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
5090 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}

```



```

5091 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5092 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5093 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5094 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5095 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5096 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5097 \providecommand*\{firstnamedfont}\{}
5098 \providecommand*\{familynamedfont}\{}
5099 \providecommand*\{titlefont}\{}
5100 \providecommand*\{addressfont}\{}
5101 \providecommand*\{quoteftfont}\{}
5102 \providecommand*\{sectionfont}\{}
5103 \providecommand*\{subsectionfont}\{}
5104 \providecommand*\{hintfont}\small}
5105 \providecommand*\{firstnamedstyle}[1]{\{firstnamedfont\@firstnamedcolour#1}}
5106 \providecommand*\{familynamedstyle}[1]{\{familynamedfont\@familynamedcolour#1}}
5107 \providecommand*\{titlestyle}[1]{\{titlefont\@titlecolour#1}}
5108 \providecommand*\{addresstyle}[1]{\{addressfont\@addresscolour#1}}
5109 \providecommand*\{quotestyle}[1]{\{quoteftfont\@quotecolour#1}}
5110 \providecommand*\{sectionstyle}[1]{\{sectionfont\@sectiontitlecolour#1}}
5111 \providecommand*\{subsectionstyle}[1]{\{subsectionfont\@subsectioncolour#1}}
5112 \providecommand*\{hintstyle}[1]{\{hintfont\@hintcolour#1}}
5113 \newcommand*\{cvtheme}[2][{}]{
5114   \def\@cvtheme{#2}
5115   \def\@cvthemeoptions{#1}}
5116 \cvtheme{bidi-casual}
5117 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5118 \newcommand*\{resumename}[1]{\def\@resumename{#1}}
5119 \newcommand*\{firstname}[1]{\def\@firstname{#1}}
5120 \newcommand*\{familyname}[1]{\def\@familyname{#1}}
5121 \renewcommand*\{title}[1]{\def\@title{#1}}
5122 \newcommand*\{address}[1]{\def\@address{#1}}
5123 \newcommand*\{mobile}[1]{\def\@mobile{#1}}
5124 \newcommand*\{phone}[1]{\def\@phone{#1}}
5125 \renewcommand*\{fax}[1]{\def\@fax{#1}}
5126 \newcommand*\{email}[1]{\def\@email{#1}}
5127 \newcommand*\{extrainfo}[1]{\def\@extrainfo{#1}}
5128 \def\@photowidth{0pt}
5129 \newcommand*\{photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5130 \newcommand*\{quote}[1]{\def\@quote{#1}}
5131 \newlength{\quotewidth}
5132 \newlength{\hintscolumnwidth}
5133 \newlength{\separatorcolumnwidth}
5134 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5135 \newlength{\maincolumnwidth}
5136 \newlength{\doubleitemmaincolumnwidth}
5137 \newlength{\listitemsymbolwidth}
5138 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}
5139 \newlength{\listitemmaincolumnwidth}
5140 \newlength{\listdoubleitemmaincolumnwidth}
5141 \newcommand*\{recomputethemelengths}\{}
5142 \newcommand*\{recomputelengths}\{%
5143 \setlength{\quotewidth}{0.65\textwidth}%
5144 \setlength{\maincolumnwidth}{\textwidth}%

```



```

5145 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5146 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5147 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5148 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5149 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5150 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5151 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5152 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5153 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5154 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5155 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5156 \renewcommand{\headwidth}{\textwidth}%
5157 \recomputethemelengths}
5158 \setlength{\hintscolumnwidth}{0.15\textwidth}
5159 \recomputelengths
5160 \title{}
5161 \renewcommand*{\maketitle}{}
5162 \newcommand*{\section}[1]{%
5163 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5164 \phantomsection}%
5165 \addcontentsline{toc}{part}{#1}%
5166 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5167 \hspace{\separatorcolumnwidth}%
5168 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\[\[1ex]}
5169 \newcommand*{\subsection}[1]{%
5170 \cvline[0.45em]{\subsectionstyle{#1}}
5171 \newcommand*{\cvline}[3][.25em]{%
5172 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5173 \bidi@raggedleft\hintfont{#2} &{#3}%
5174 \end{tabular}\[\[1]}
5175 \newcommand*{\cvdoubleitem}[4]{%
5176 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5177 \hfill%
5178 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{
5179 \newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
5180 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
5181 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
5182 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5183 \hfill%
5184 \ifthenelse{\equal{#3}{}}{
5185 {}%
5186 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
5187 \newcommand*{\cventry}[6]{%
5188 \cvline{#1}{%
5189 {\bfseries#2}%
5190 \ifx#3\else{, {\slshape#3}}\fi%
5191 \ifx#4\else{, #4}\fi%
5192 \ifx#5\else{, #5}\fi%
5193 .%
5194 \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5195 }%
5196 \newcommand*{\cvlanguage}[3]{%
5197 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{
5198 \newcommand*{\cvcomputer}[4]{%

```




```

5199 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5200 \newcommand*{\link}[2] [] {%
5201 \ifthenelse{equal{#1}{}}{%
5202 {\href{#2}{#2}}%
5203 {\href{#2}{#1}}}
5204 \newcommand*{\httplink}[2] [] {%
5205 \ifthenelse{equal{#1}{}}{%
5206 {\href{http://#2}{#2}}%
5207 {\href{http://#2}{#1}}}
5208 \newcommand*{\emaillink}[2] [] {%
5209 \ifthenelse{equal{#1}{}}{%
5210 {\href{mailto:#2}{#2}}%
5211 {\href{mailto:#2}{#1}}}
5212 \newif\if@displaypagenumbers\@displaypagenumberstrue
5213 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5214 \AtBeginDocument{%
5215 \if@displaypagenumbers%
5216 \ifundefined{r@lastpage}{\fi}%
5217 \ifthenelse{pageref{lastpage} > 1}{%
5218 \fancypagestyle{plain}{%
5219 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL\endL\pa
5220 \pagestyle{plain}}}%}%
5221 \AtEndDocument{\label{lastpage}}%
5222 \fi}
5223 \newlength{\bibindent}
5224 \setlength{\bibindent}{1.5em}
5225 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5226 \newenvironment{thebibliography}[1]%
5227 {%
5228 \section{\refname}%
5229 \small%
5230 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5231 \bidi@thebibliography@font@hook%
5232 \begin{list}{\bibliographyitemlabel}%
5233 {%
5234 \setlength{\topsep}{0pt}%
5235 \setlength{\labelwidth}{\hintscolumnwidth}%
5236 \setlength{\labelsep}{\separatorcolumnwidth}%
5237 \leftmargin\labelwidth%
5238 \advance\leftmargin\labelsep%
5239 \@openbib@code%
5240 \usecounter{enumiv}%
5241 \let\p@enumiv\@empty%
5242 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5243 \sloppy\clubpenalty4000\widowpenalty4000
5244 }%
5245 {%
5246 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5247 \end{list}%
5248 }
5249 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5250 \let\@openbib@code\@empty

```



51 File bidi-perpage.sty

```
5251 \NeedsTeXFormat{LaTeX2e}
5252 \ProvidesPackage{bidi-perpage}[2025/09/15 v0.5 Reset counter(s) on every page]
5253 \newcommand*{\bidi@checkvlist}{%
5254   \ifcase
5255     \ifvmode
5256       \ifx\lastnodetype\bidi@undefined
5257         \ifdim-\@m\p@=\prevdepth
5258           \ifdim\lastskip=\z@
5259             \ifnum\lastpenalty=\z@
5260               \@ne
5261             \fi
5262           \fi
5263         \fi
5264       \else
5265         \ifnum\lastnodetype=\m@ne
5266           \@ne
5267         \fi
5268       \fi
5269     \fi
5270     \z@
5271   \or
5272     \PackageWarning{bidi-perpage}{%
5273       '\string\stepcounter' is probably at the beginning of vertical
5274       list.
5275       You may need to use '\string\leavevmode' before it to avoid
5276       vertical shifts%
5277     }%
5278   \fi
5279 }
5280 \newcount\bidi@page@count
5281 \bidi@page@count\@ne
5282 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5283   \if@bidi@csundef\bidi@stepcounterhook@#2}{%
5284     \expandafter\gdef\csname bidi@stepcounterhook@#2\endcsname{%
5285     }%
5286   \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5287     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5288   }%
5289   \if@bidi@csundef\bidi@#2@count}{%
5290     \expandafter\newcount\csname bidi@#2@count\endcsname
5291   }%
5292   \csname bidi@#2@count\endcsname\z@
5293   \if@bidi@csundef\bidi@previous@page@#2@count}{%
5294     \expandafter\newcount\csname
5295       bidi@previous@page@#2@count\endcsname
5296   }%
5297   \csname bidi@previous@page@#2@count\endcsname\z@
5298   \if@bidi@csundef\bidi@reset@#2@perpage}{%
5299     \bidi@AfterEndDocumentCheckLabelsRerun{%
5300       \csname if@bidi@reset@#2@rerun\endcsname
5301       \PackageWarningNoLine{bidi-perpage}{%
5302         Counter `#2' may not have been reset per page.
```



```

5303         Rerun to reset counter `#2' per page%
5304     }%
5305 \fi
5306 }%
5307 }{}%
5308 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5309     \global\advance\csname bidi@#2@count\endcsname\@ne
5310     \if@filesw
5311         \edef\@tempa{%
5312             \write\@auxout{%
5313                 \string\bidi@counter@page{#2}%
5314                 {\number\csname bidi@#2@count\endcsname}%
5315                 {\noexpand\number\noexpand\bidi@page@count}%
5316             }%
5317         }%
5318         \bidi@checkvlist
5319         \dimen@=\lastkern
5320         \ifdim\dimen@=\z@
5321             \else
5322                 \unkern
5323             \fi
5324             \count@=\lastpenalty
5325             \@tempa
5326             \ifdim\dimen@=\z@
5327                 \penalty
5328                 \ifnum\count@<\@M
5329                     \@M
5330                 \else
5331                     \count@
5332                 \fi
5333             \else
5334                 \kern\dimen@
5335             \fi
5336         \fi
5337     \begin@group\expandafter\expandafter\expandafter\end@group
5338     \expandafter\ifx\csname bidi@#2@@\number\csname
5339         bidi@#2@count\endcsname\endcsname\relax
5340         \global\csname @bidi@reset@#2@reruntrue\endcsname
5341     \else
5342         \global\csname @bidi@reset@#2@rerunfalse\endcsname
5343         \expandafter\@tempcnta\csname bidi@#2@@\number
5344             \csname bidi@#2@count\endcsname\endcsname\relax
5345         \ifnum\@tempcnta=\csname
5346             bidi@previous@page@@#2@count\endcsname
5347         \else
5348             \global\csname
5349                 bidi@previous@page@@#2@count\endcsname\@tempcnta
5350             \global\csname c@#2\endcsname#1\relax
5351         \fi
5352     \fi
5353 }%
5354 \expandafter\bidi@gappto\csname
5355     bidi@stepcounterhook@@#2\endcsname{%
5356     \csname bidi@reset@#2@perpage\endcsname

```



```

5357 }%
5358 }
5359 \def\ bidi@counter@page#1#2#3{\ bidi@namegdef{\ bidi@#1@@#2}{#3}}
5360 \ bidi@AtEndOutputPage{%
5361   \ global\ advance\ bidi@page@count\ @ne
5362 }

```

52 File `biditools.sty`

```

5363 \NeedsTeXFormat{LaTeX2e}
5364 \ProvidesPackage{biditools}[2025/02/02 v2.7 Programming tools for bidi package]
5365 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5366   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5367   \ifx\@tempa\@tempb \global\let#2#1%
5368   \else
5369     \edef\@tempb{\meaning#2}%
5370     \ifx\@tempa\@tempb
5371     \else
5372       \@latex@error{Unable to properly define \string#2; primitive
5373       \noexpand#1no longer primitive}\@eha
5374     \fi
5375   \fi
5376   \endgroup}
5377 \newtoks\@bidi@envbody
5378 \newtoks\@bidi@emptytoks
5379 \def\ bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5380 \def\ bidi@collect@body#1{%
5381   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}}%
5382   \edef\ bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}}%
5383   \@bidi@envbody\@bidi@emptytoks \def\ begin@bidi@stack{b}%
5384   \begingroup
5385   \expandafter\let\csname\@currentvir\endcsname\ bidi@collect@@body
5386   \edef\ bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5387   \ bidi@process@envbody
5388 }
5389 \def\ bidi@push@begins#1\begin#2{%
5390   \ifx\end#2\else b\expandafter\ bidi@push@begins\fi
5391 }
5392 \def\ bidi@collect@@body#1\end#2{%
5393   \edef\ begin@bidi@stack{\ bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5394   \ifx\@empty\begin@bidi@stack
5395     \endgroup
5396     \@checkend{#2}%
5397     \ bidi@addto@envbody{#1}%
5398   \else
5399     \ bidi@addto@envbody{#1\end{#2}}%
5400   \fi
5401   \ bidi@process@envbody % A little tricky! Note the grouping
5402 }
5403 \long\def\ bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5404 \long\def\ bidi@collect@long@body#1{%
5405   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}}%
5406   \edef\ bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}}%
5407   \@bidi@envbody\@bidi@emptytoks \def\ begin@bidi@stack{b}%

```



```

5408 \begingroup
5409 \expandafter\let\csname\@currentenv\endcsname\@currentenv\@currentenv
5410 \edef\@currentenv{\expandafter\@currentenv\csname\@currentenv\endcsname}%
5411 \@currentenv
5412 }
5413 \long\def\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5414 \ifx\end\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5415 }
5416 \long\def\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5417 \edef\@currentenv{\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5418 \ifx\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5419 \endgroup
5420 \checkend{#2}%
5421 \@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5422 \else
5423 \@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5424 \fi
5425 \@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5426 }
5427 \long\def\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5428 \let\reserved@a= #1%
5429 \def\reserved@a{#2}\def\reserved@b{#3}%
5430 \futurelet\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5431 }
5432 \def\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5433 \ifx\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5434 \reserved@a
5435 }
5436 \def\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5437 \expandafter\ifx\csname\@currentenv\endcsname\@currentenv
5438 \else\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5439 \expandafter\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5440 \fi
5441 }
5442 \def\@currentenv\@currentenv\@currentenv\@currentenv\@currentenv
5443 \PackageError{biditools}{%
5444 Old form '\string#1' should be \string\begin{\expandafter\@currentenv\string#1}%
5445 }{%
5446 '\string#1{...}' is old bidi package syntax whose use is
5447 ill-advised in the old versions of bidi package.%
5448 }%
5449 }
5450 \def\eqnewif#1#2{%
5451 \count@\escapechar \escapechar\m@ne
5452 \let#1\iffalse
5453 \let#2\iffalse
5454 \eq@if#1#2\iftrue
5455 \eq@if#1#2\iffalse
5456 \escapechar\count@}
5457 \def\eq@if#1#2#3{%
5458 \expandafter\def\csname\expandafter\@currentenv\string#1%
5459 \expandafter\@currentenv\string#3\endcsname
5460 {\let#1#3%
5461 \let#2#3}%

```



```

5462 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5463 \expandafter\@gobbletwo\string#3\endcsname
5464 {\let#2#3%
5465 \let#1#3}}
5466 \def\noteqnewif#1#2{%
5467 \count@\escapechar \escapechar\m@ne
5468 \let#1\iffalse
5469 \let#2\iffalse
5470 \not@eq@if#1#2\iftrue\iffalse
5471 \escapechar\count@}
5472 \def\not@eq@if#1#2#3#4{%
5473 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5474 \expandafter\@gobbletwo\string#3\endcsname
5475 {\let#1#3%
5476 \let#2#4}%
5477 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
5478 \expandafter\@gobbletwo\string#4\endcsname
5479 {\let#1#4%
5480 \let#2#3}%
5481 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5482 \expandafter\@gobbletwo\string#3\endcsname
5483 {\let#2#3%
5484 \let#1#4}%
5485 \expandafter\def\csname\expandafter\@gobbletwo\string#2%
5486 \expandafter\@gobbletwo\string#4\endcsname
5487 {\let#2#4%
5488 \let#1#3}}
5489 \newcommand*\SetBoolean}[2]{%
5490 \lowercase{\def\@tempa{#2}}%
5491 \@ifundefined{@tempa}{%
5492 {\PackageError{biditools}%
5493 {You can only set a boolean to `true' or `false'}\@ehc}%
5494 {\@ifundefined{#1\@tempa}%
5495 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5496 {\csname#1\@tempa\endcsname}}}%
5497 \newcommand*\GlobalSetBoolean}[2]{%
5498 \lowercase{\def\@tempa{#2}}%
5499 \@ifundefined{@tempa}{%
5500 {\PackageError{biditools}%
5501 {You can only set a boolean to `true' or `false'}\@ehc}%
5502 {\@ifundefined{#1\@tempa}%
5503 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5504 {\global\csname#1\@tempa\endcsname}}}%
5505 \newcommand*\SetatBoolean}[2]{%
5506 \lowercase{\def\@tempa{#2}}%
5507 \@ifundefined{@tempa}{%
5508 {\PackageError{biditools}%
5509 {You can only set a boolean to `true' or `false'}\@ehc}%
5510 {\@ifundefined{@#1\@tempa}%
5511 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5512 {\csname @#1\@tempa\endcsname}}}%
5513 \newcommand*\GlobalSetatBoolean}[2]{%
5514 \lowercase{\def\@tempa{#2}}%
5515 \@ifundefined{@tempa}{%

```



```

5516 {\PackageError{biditools}%
5517 {You can only set a boolean to `true' or `false'}\@ehc}%
5518 {\@ifundefined{@#1\@tempa}%
5519 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5520 {\global\csname @#1\@tempa\endcsname}}}
5521 \def\@bidi@removefromreset#1#2{%
5522 \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5523 \def\@elt##1{%
5524 \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5525 \else
5526 \noexpand\@elt{##1}%
5527 \fi}%
5528 \expandafter\xdef\csname cl@#2\endcsname{%
5529 \csname cl@#2\endcsname}}}
5530 \newcommand*\@ifRtoL{%
5531 \if@RTL
5532 \expandafter\@firstoftwo
5533 \else
5534 \expandafter\@secondoftwo
5535 \fi}
5536 \newcommand*\@ifLtoR{%
5537 \if@RTL
5538 \expandafter\@secondoftwo
5539 \else
5540 \expandafter\@firstoftwo
5541 \fi}
5542 \newcommand*\@ifRtoLtable{%
5543 \if@RTLtab
5544 \expandafter\@firstoftwo
5545 \else
5546 \expandafter\@secondoftwo
5547 \fi}
5548 \newcommand*\@ifLtoRtable{%
5549 \if@RTLtab
5550 \expandafter\@secondoftwo
5551 \else
5552 \expandafter\@firstoftwo
5553 \fi}
5554 \newcommand*\@ifRtoLhboxconstruct{%
5555 \if@hboxRconstruct
5556 \expandafter\@firstoftwo
5557 \else
5558 \expandafter\@secondoftwo
5559 \fi}
5560 \newcommand*\@ifLtoRhboxconstruct{%
5561 \if@hboxRconstruct
5562 \expandafter\@secondoftwo
5563 \else
5564 \expandafter\@firstoftwo
5565 \fi}
5566 \newcommand*\@iflatin{%
5567 \if@nonlatin
5568 \expandafter\@secondoftwo
5569 \else

```



```

5570     \expandafter\@firstoftwo
5571     \fi}
5572 \newcommand*{\ifnonlatin}{%
5573     \ifnonlatin
5574     \expandafter\@firstoftwo
5575     \else
5576     \expandafter\@secondoftwo
5577     \fi}
5578
5579 \newcommand*{\bidi@convert@dimen@t@unit}[2]{%
5580     \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5581
5582 \newcommand*{\bidi@convert@dimen@t@pt}[1]{%
5583     \dimexpr #1*65536/\dimexpr 1pt\relax}
5584
5585 \newcommand*{\IfPackageVersionAtLeastTF}[1]{%
5586     \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5587 }
5588 \newcommand*{\@if@ver@pkg@least}[2]{%
5589     \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5590     \expandafter\@secondoftwo
5591     \else
5592     \expandafter\@firstoftwo
5593     \fi
5594 }
5595 \newcommand*{\bidi@parse@ver@}[1]{\bidi@parse@ver0#1}
5596 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5597     \if\relax#2\relax\else#1\fi#2#3#4
5598 }
5599 \newcommand*{\IfPackageVersionAtMostTF}[1]{%
5600     \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5601 }
5602 \newcommand*{\@if@ver@pkg@most}[2]{%
5603     \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5604     \expandafter\@secondoftwo
5605     \else
5606     \expandafter\@firstoftwo
5607     \fi
5608 }
5609 \newcommand*{\IfPackageVersionTF}[1]{%
5610     \expandafter\@if@ver@pkg@\csname #1@version\endcsname
5611 }
5612 \newcommand*{\@if@ver@pkg@}[2]{%
5613     \ifnum\expandafter\bidi@parse@ver@#100\@nil=\expandafter\bidi@parse@ver@#200\@nil
5614     \expandafter\@firstoftwo
5615     \else
5616     \expandafter\@secondoftwo
5617     \fi
5618 }
5619
5620 \newcommand*{\if@bidi@csdef}[1]{%
5621     \ifcsname#1\endcsname
5622     \expandafter\@firstoftwo
5623     \else

```




```

5624 \expandafter\@secondoftwo
5625 \fi}
5626 \newcommand*\if@bidi@csundef}[1]{%
5627 \ifcsname#1\endcsname
5628 \expandafter\ifx\csname#1\endcsname\relax
5629 \expandafter\expandafter
5630 \expandafter\@firstoftwo
5631 \else
5632 \expandafter\expandafter
5633 \expandafter\@secondoftwo
5634 \fi
5635 \else
5636 \expandafter\@firstoftwo
5637 \fi}
5638 \newcommand\if@bidi@def}[1]{%
5639 \ifdefined#1%
5640 \expandafter\@firstoftwo
5641 \else
5642 \expandafter\@secondoftwo
5643 \fi}
5644 \newcommand\if@bidi@undef}[1]{%
5645 \ifdefined#1%
5646 \ifx#1\relax
5647 \expandafter\expandafter
5648 \expandafter\@firstoftwo
5649 \else
5650 \expandafter\expandafter
5651 \expandafter\@secondoftwo
5652 \fi
5653 \else
5654 \expandafter\@firstoftwo
5655 \fi}
5656 \newcommand\if@bidi@blank}[1]{% from url.sty
5657 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5658 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5659 \newcommand\bidi@notblank}[1]{%
5660 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5661 \newcommand\if@bidi@defmacro}{%
5662 \long\edef\if@bidi@defmacro#1{%
5663 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5664 \noexpand\meaning#1\detokenize{macro}:&}
5665 \edef\bidi@ifdefmacro{%
5666 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5667 \bidi@ifdefmacro{\bidi@notblank{#2}}
5668 \newcommand*\if@bidi@csmacro}[1]{%
5669 \if@bidi@csdef{#1}
5670 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5671 {\@secondoftwo}}
5672 \newcommand\if@bidi@defprimitive}[1]{%
5673 \ifprimitive#1%
5674 \expandafter\@firstoftwo
5675 \else
5676 \expandafter\@secondoftwo
5677 \fi}

```



```

5678 \newcommand{\if@bidi@csprimitive}[1]{%
5679 \begingroup\expandafter\expandafter\expandafter\endgroup%
5680 \expandafter\ifprimitive\csname#1\endcsname%
5681 \expandafter\@firstoftwo
5682 \else
5683 \expandafter\@secondoftwo
5684 \fi}
5685 \newcommand*{\bidi@csdefcs}[2]{%
5686 \expandafter\@ifdefinable \csname#1\endcsname{%
5687 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5688 \newcommand*{\bidi@csletcs}[2]{%
5689 \expandafter\@ifdefinable \csname#1\endcsname{%
5690 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5691 \newcommand*{\bidi@cslet}[2]{%
5692 \expandafter\@ifdefinable \csname#1\endcsname{%
5693 \expandafter\let\csname#1\endcsname#2}}
5694 \newcommand{\bidi@namelongdef}[1]{%
5695 \long\expandafter\def\csname #1\endcsname}
5696 \newcommand{\bidi@namelonggdef}[1]{%
5697 \long\expandafter\gdef\csname #1\endcsname}
5698 \newcommand{\bidi@namelongedef}[1]{%
5699 \long\expandafter\edef\csname #1\endcsname}
5700 \newcommand{\bidi@namelongxdef}[1]{%
5701 \long\expandafter\xdef\csname #1\endcsname}
5702 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5703 \def\bidi@ensure@new@command#1{%
5704 \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5705 \expandafter\if@bidi@csundef\@gtempa
5706 {\new@command#1}{\relax%
5707 \let\@ifdefinable\@rc@ifdefinable%
5708 \new@command#1}}
5709 \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5710
5711 \protected\def\bidi@error{\PackageError{bidi}}
5712 \protected\def\bidi@warning{\PackageWarning{bidi}}
5713 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5714 \protected\def\bidi@info{\PackageInfo{bidi}}
5715
5716 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@@#2@#3}{#4}
5717
5718 \newcount\bidi@poscount
5719
5720 \newcommand*{\WriteStartXPostoaux}{%
5721 \global\advance\bidi@poscount\@ne
5722 \edef\@tempa{%
5723 \write\@auxout{%
5724 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5725 }%
5726 }%
5727 \ifvmode
5728 \leavevmode
5729 \fi
5730 \if@RTL
5731 \if@files

```



```

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

```



```

5786 \@tempa
5787 \fi
5788 \pdfsavepos
5789 \else
5790 \pdfsavepos
5791 \if@filesw
5792 \@tempa
5793 \fi
5794 \fi
5795 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5796 \PackageWarningNoLine{biditools}{%
5797 The start y position '\number\bidi@poscount' is not known yet.
5798 Rerun to get this y position%
5799 }%
5800 }{}%
5801 }
5802
5803 \newcommand*{\WriteEndYPostoaux}{%
5804 \edef\@tempa{%
5805 \write\@auxout{%
5806 \string\bidi@pos{y}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5807 }%
5808 }%
5809 \if@RTL
5810 \if@filesw
5811 \@tempa
5812 \fi
5813 \pdfsavepos
5814 \else
5815 \pdfsavepos
5816 \if@filesw
5817 \@tempa
5818 \fi
5819 \fi
5820 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5821 \PackageWarningNoLine{biditools}{%
5822 The end y position '\number\bidi@poscount' is not known yet.
5823 Rerun to get this y position%
5824 }%
5825 }{}%
5826 }
5827
5828 \newcommand*{\WriteStartXYPostoaux}{%
5829 \global\advance\bidi@poscount\@ne
5830 \edef\@tempa{%
5831 \write\@auxout{%
5832 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5833 }%
5834 \write\@auxout{%
5835 \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflast
5836 }%
5837 }%
5838 \ifvmode
5839 \leavevmode

```



```

5840 \fi
5841 \if@RTL
5842 \if@filesw
5843 \@tempa
5844 \fi
5845 \pdfsavepos
5846 \else
5847 \pdfsavepos
5848 \if@filesw
5849 \@tempa
5850 \fi
5851 \fi
5852 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5853 \PackageWarningNoLine{biditools}{%
5854 The start x position `\'number\bidi@poscount' is not known yet.
5855 Rerun to get this x position%
5856 }%
5857 }{}%
5858 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5859 \PackageWarningNoLine{biditools}{%
5860 The start y position `\'number\bidi@poscount' is not known yet.
5861 Rerun to get this y position%
5862 }%
5863 }{}%
5864 }
5865
5866 \newcommand*{\WriteEndXYPostoaux}{%
5867 \edef\@tempa{%
5868 \write\@auxout{%
5869 \string\bidi@pos{x}{end}{\'number\bidi@poscount}{\'noexpand\number\noexpand\pdflast
5870 }%
5871 \write\@auxout{%
5872 \string\bidi@pos{y}{end}{\'number\bidi@poscount}{\'noexpand\number\noexpand\pdflast
5873 }%
5874 }%
5875 \if@RTL
5876 \if@filesw
5877 \@tempa
5878 \fi
5879 \pdfsavepos
5880 \else
5881 \pdfsavepos
5882 \if@filesw
5883 \@tempa
5884 \fi
5885 \fi
5886 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5887 \PackageWarningNoLine{biditools}{%
5888 The end x position `\'number\bidi@poscount' is not known yet.
5889 Rerun to get this x position%
5890 }%
5891 }{}%
5892 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5893 \PackageWarningNoLine{biditools}{%

```



```

5894         The end y position '\number\bidiposcount' is not known yet.
5895         Rerun to get this y position%
5896     }%
5897 }{}%
5898 }
5899
5900 \newcommand*{\currentposxwidth}{%
5901     \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{\z@}
5902     {%
5903         \ifnum\csname bidi@xpos@@start@\number\bidiposcount
5904         \endcsname < \csname bidi@xpos@@end@\number\bidiposcount
5905         \endcsname
5906         \dimexpr \csname bidi@xpos@@end@\number\bidiposcount
5907         \endcsname sp - \csname bidi@xpos@@start@\number\bidiposcount
5908         \endcsname sp\relax
5909     \else
5910         \dimexpr \csname bidi@xpos@@start@\number\bidiposcount
5911         \endcsname sp - \csname bidi@xpos@@end@\number\bidiposcount
5912         \endcsname sp\relax
5913     \fi
5914     }%
5915 }
5916
5917 \newcommand*{\currentposyheight}{%
5918     \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{\z@}
5919     {%
5920         \dimexpr \csname bidi@ypos@@start@\number\bidiposcount
5921         \endcsname sp - \csname bidi@ypos@@end@\number\bidiposcount
5922         \endcsname sp\relax
5923     }%
5924 }
5925
5926
5927
5928 \newcommand*{\setbaselineskip}[1]{%
5929     \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5930     \selectfont
5931 }
5932
5933
5934 \newcommand*{\bidi@newrobustcmd}{}
5935 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5936
5937 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5938
5939 \def\bidi@newcommand#1[#2]{%
5940     \@ifnextchar[%]
5941     {\bidi@xargdef#1[#2]}
5942     {\ifx\l@ngrel@x\relax
5943         \let\l@ngrel@x\protected
5944     \else
5945         \protected\def\l@ngrel@x{\protected\long}%
5946     \fi
5947     \@argdef#1[#2]}}

```



```

5948
5949 \long\def\bidixargdef#1[#2][#3]#4{%
5950   \@ifdefinable#1{%
5951     \expandafter\protected
5952     \expandafter\def
5953     \expandafter#1%
5954     \expandafter{%
5955       \expandafter\@testopt
5956       \csname\string#1\endcsname{#3}}}%
5957   \expandafter\@yargdef\csname\string#1\endcsname\tw{#2}{#4}}
5958
5959 \bidixnewrobustcmd*{\bidixrenewrobustcmd}{\@star@or@long\bidixrenew@command}
5960
5961 \def\bidixrenew@command#1{%
5962   \if@bidixundef{#1}
5963     {\bidixerror{\string#1 undefined}\@ehc}
5964     {}%
5965   \let\@ifdefinable\@rc@ifdefinable
5966   \bidixnew@command#1}
5967
5968
5969
5970 \bidixnewrobustcmd*{\bidixproviderobustcmd}{\@star@or@long\bidixprovide@command}
5971
5972 \def\bidixprovide@command#1{%
5973   \if@bidixundef{#1}
5974     {\def\reserved@a{\bidixnew@command#1}}
5975     {\def\reserved@a{\bidixrenew@command\reserved@a}}%
5976   \reserved@a}
5977
5978 \newcommand*{\bidixcsuse}[1]{%
5979   \ifcsname#1\endcsname
5980     \csname#1\expandafter\endcsname
5981     \fi}
5982
5983 \newcommand{\bidixexpandonce}[1]{%
5984   \unexpanded\expandafter{#1}}
5985
5986 \def\bidixprotected{%
5987   \let\@protect\protect
5988   \let\protect\@unexpandable@protect
5989   \afterassignment\restore@protect}
5990
5991 \bidixnewrobustcmd{\bidixappto}[2]{%
5992   \if@bidixundef{#1}
5993     {\edef#1{\unexpanded{#2}}}
5994     {\edef#1{\bidixexpandonce#1\unexpanded{#2}}}}
5995 \bidixnewrobustcmd{\bidixeappto}[2]{%
5996   \if@bidixundef{#1}
5997     {\edef#1{#2}}
5998     {\edef#1{\bidixexpandonce#1#2}}}
5999 \bidixnewrobustcmd{\bidixgappto}[2]{%
6000   \if@bidixundef{#1}
6001     {\xdef#1{\unexpanded{#2}}}

```



```

6002     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
6003 \bidi@newrobustcmd{\bidi@xappto}[2]{%
6004     \if@bidi@undef{#1}
6005         {\xdef#1{#2}}
6006         {\xdef#1{\bidi@expandonce#1#2}}}}
6007
6008 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
6009 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
6010
6011
6012
6013 \bidi@newrobustcmd{\bidi@preto}[2]{%
6014     \if@bidi@undef{#1}
6015         {\edef#1{\unexpanded{#2}}}
6016         {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}}
6017 \bidi@newrobustcmd{\bidi@epreto}[2]{%
6018     \if@bidi@undef{#1}
6019         {\edef#1{#2}}
6020         {\edef#1{#2\bidi@expandonce#1}}}}
6021 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
6022     \if@bidi@undef{#1}
6023         {\xdef#1{\unexpanded{#2}}}
6024         {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}}
6025 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
6026     \if@bidi@undef{#1}
6027         {\xdef#1{#2}}
6028         {\xdef#1{#2\bidi@expandonce#1}}}}
6029
6030 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
6031 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
6032
6033
6034
6035 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
6036 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
6037 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
6038 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
6039 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
6040 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
6041
6042
6043
6044 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6045 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
6046 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
6047 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6048 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6049 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6050
6051
6052
6053 \bidi@newrobustcmd{\if@bidi@patchable}{%
6054     \bidi@dbg@trce\if@bidi@patchable
6055     \begingroup

```




```

6056 \@makeother\#%
6057 \ifstar\bid@ifpatchable@i\bid@ifpatchable}
6058
6059 \long\def\bid@ifpatchable#1#2{%
6060 \endgroup
6061 \bid@dbg@init#1%
6062 \if@bid@undef{#1}
6063 {\bid@dbg@fail{def}\@secondoftwo}
6064 {\bid@dbg@info{def}%
6065 \if@bid@defmacro{#1}
6066 {\bid@dbg@info{mac}%
6067 \bid@ifscanable{#1}
6068 {\bid@ifhashcheck{#2}
6069 {\bid@dbg@info{tok}%
6070 \bid@ifpattern#1{#2}
6071 {\bid@dbg@info{pat}%
6072 \bid@dbg@info{pos}\@firstoftwo}
6073 {\bid@dbg@fail{pat}\@secondoftwo}}
6074 {\bid@dbg@fail{hsh}\@secondoftwo}}
6075 {\bid@dbg@fail{tok}\@secondoftwo}}
6076 {\bid@dbg@fail{mac}\@secondoftwo}}}
6077
6078 \long\def\bid@ifpatchable@i#1{%
6079 \endgroup
6080 \bid@dbg@init#1%
6081 \if@bid@undef{#1}
6082 {\bid@dbg@fail{def}\@secondoftwo}
6083 {\bid@dbg@info{def}%
6084 \if@bid@defmacro{#1}
6085 {\bid@dbg@info{mac}%
6086 \if@bid@defparam{#1}
6087 {\bid@dbg@info{prm}%
6088 \bid@ifscanable{#1}
6089 {\bid@dbg@info{tok}%
6090 \bid@dbg@info{pos}\@firstoftwo}
6091 {\bid@dbg@fail{tok}\@secondoftwo}}
6092 {\bid@dbg@info{prl}%
6093 \if@bid@defprotected{#1}
6094 {\bid@dbg@info{pro}}
6095 {}%
6096 \bid@dbg@info{pos}\@firstoftwo}}
6097 {\bid@dbg@fail{mac}\@secondoftwo}}}
6098
6099 \bid@newrobustcmd*{\bid@patchcmd}{%
6100 \bid@dbg@trce\bid@patchcmd
6101 \begingroup
6102 \@makeother\#%
6103 \bid@@@patchcmd}
6104
6105 \newcommand{\bid@@@patchcmd}[4][#####1]{%
6106 \bid@ifpatchable#2{#3}
6107 {\bid@dbg@succ{ret}%
6108 \begingroup
6109 \edef\bid@resrvda{%

```



```

6110 \def\noexpand\bidiresrvda####1\detokenize{macro:}####2->####3&{%
6111 #1\def\string\bidiresrvda\space####2{\noexpand\bidiresrvdb####3&}}%
6112 \def\noexpand\bidiresrvdb####1\detokenize{#3}####2&{%
6113 ####1\detokenize{#4}####2}%
6114 \edef\noexpand\bidiresrvda{%
6115 \noexpand\bidiresrvda\meaning#2&}}%
6116 \bidiresrvda
6117 \bidipatchcmd@scantoks\bidiresrvda
6118 \let#2\bidiresrvda
6119 \bidiundef\bidiresrvda
6120 \@firstoftwo}
6121 {\@secondoftwo}}
6122
6123 \def\bidipatchcmd@scantoks#1{%
6124 \edef\bidiresrvda{\endgroup
6125 \unexpanded{\makeatletter\scantokens}{#1}%
6126 \catcode\number`\@=\the\catcode`\@relax}%
6127 \bidiresrvda}
6128
6129 \protected\def\bidifscanable#1{%
6130 \begingroup
6131 \edef\bidiresrvda{%
6132 \def\noexpand\bidiresrvda####1\detokenize{macro:}####2->####3&{%
6133 ####1\def\string\bidiresrvda####2{####3}}}%
6134 \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda\meaning#1&}}%
6135 \bidiresrvda
6136 \makeatletter
6137 \scantokens\expandafter{\bidiresrvda}%
6138 \expandafter\endgroup\ifx#1\bidiresrvda
6139 \expandafter\@firstoftwo
6140 \else
6141 \expandafter\@secondoftwo
6142 \fi}
6143
6144
6145 \protected\long\def\bidifhashcheck#1{%
6146 \begingroup
6147 \edef\bidiresrvda{\detokenize{#1}}%
6148 \expandafter\endgroup
6149 \expandafter\bidifhashcheck@i\meaning\bidiresrvda&}
6150
6151 \edef\bidifhashcheck@i#1&{%
6152 \noexpand\expandafter
6153 \noexpand\bidifhashcheck@ii
6154 \noexpand\strip@prefix#1\string#\string#&}
6155
6156 \edef\bidifhashcheck@ii{%
6157 \def\noexpand\bidifhashcheck@ii##1\string#\string##2&}
6158 \bidifhashcheck@ii{\if@bidi@blank{#2}}
6159
6160
6161 \protected\long\def\bidifpattern#1#2{%
6162 \begingroup
6163 \edef\bidiresrvda{%

```



```

6164 \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
6165 \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
6166 \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
6167 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6168 \noexpand\bidi@resrvda}
6169 \bidi@resrvda\@secondoftwo\@firstoftwo}
6170
6171
6172 \newcommand{\if@bidi@defparam}{%
6173 \long\edef\if@bidi@defparam#1{%
6174 \noexpand\expandafter\noexpand\bidi@ifdefparam
6175 \noexpand\meaning#1\detokenize{macro}:->&}
6176 \edef\bidi@ifdefparam{%
6177 \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
6178 \bidi@ifdefparam{\bidi@notblank{#2}}
6179
6180
6181 \newcommand{\if@bidi@defprotected}{%
6182 \long\edef\if@bidi@defprotected#1{%
6183 \noexpand\expandafter\noexpand\bidi@ifdefprotected
6184 \noexpand\meaning#1\string\protected&}
6185 \edef\bidi@ifdefprotected{%
6186 \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
6187 \bidi@ifdefprotected{\bidi@notblank{#2}}
6188
6189
6190 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6191 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6192 \expandafter\let\csname #1\endcsname\bidi@undefined
6193 }
6194
6195 \let\bidi@dbg@trce\@gobble
6196 \let\bidi@dbg@init\@gobble
6197 \let\bidi@dbg@info\@gobble
6198 \let\bidi@dbg@succ\@gobble
6199 \let\bidi@dbg@fail\@gobble
6200
6201
6202
6203 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6204 \bidi@dbg@trce\bidi@apptocmd
6205 \begingroup
6206 \@makeoother\#%
6207 \bidi@hooktocmd\bidi@append}
6208
6209
6210
6211 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6212 \bidi@dbg@trce\bidi@pretocmd
6213 \begingroup
6214 \@makeoother\#%
6215 \bidi@hooktocmd\bidi@prepend}
6216
6217 \long\def\bidi@hooktocmd#1#2#3{%

```



```

6218 \endgroup
6219 \bidi@dbg@init#2%
6220 \if@bidi@undef{#2}
6221   {\bidi@dbg@fail{def}\@secondoftwo}
6222   {\bidi@dbg@info{def}%
6223     \if@bidi@defmacro{#2}
6224       {\bidi@dbg@info{mac}%
6225         \if@bidi@defparam{#2}
6226           {\bidi@dbg@info{prm}%
6227             \bidi@ifscanable{#2}
6228               {\bidi@ifhashcheck{#3}
6229                 {\bidi@dbg@info{tok}%
6230                   \bidi@dbg@succ{ret}%
6231                   \bidi@hooktocmd@i#1#2{#3}%
6232                   \@firstoftwo}
6233                 {\bidi@dbg@fail{hsh}\@secondoftwo}}
6234               {\bidi@dbg@fail{tok}\@secondoftwo}}
6235             {\bidi@dbg@info{prl}%
6236               \if@bidi@defprotected{#2}
6237                 {\bidi@dbg@info{pro}%
6238                   \bidi@dbg@succ{red}%
6239                   \protected}
6240                 {\bidi@dbg@succ{red}}}%
6241             \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6242             \@firstoftwo}}
6243     {\bidi@dbg@fail{mac}\@secondoftwo}}
6244
6245 \long\def\bidi@hooktocmd@i#1#2#3{%
6246   \begingroup
6247   \edef\bidi@resrvda{%
6248     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6249       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}%
6250     \edef\noexpand\bidi@resrvda{%
6251       \noexpand\bidi@resrvda\meaning#2&}}%
6252   \bidi@resrvda
6253   \bidi@patchcmd@scantoks\bidi@resrvda
6254   \let#2\bidi@resrvda
6255   \bidi@undef\bidi@resrvda}
6256
6257 \long\def\bidi@append#1#2{#1#2}
6258 \long\def\bidi@prepend#1#2{#2#1}
6259
6260 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6261 %\newcommand*{\bidi@endpreamblehook}{ }
6262
6263 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6264
6265 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipou
6266 \newcommand*{\bidi@beforeoutputpageshipouthook}{ }
6267
6268 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6269 \newcommand*{\bidi@beforeheaderhook}{ }
6270
6271 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutpu

```



```

6272 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{\}
6273
6274 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputp
6275 \newcommand*{\bidi@afteroutputboxoutputpagehook}{\}
6276
6277 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6278 \newcommand*{\bidi@beforefooterhook}{\}
6279
6280 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6281 \newcommand*{\bidi@afterfooterhook}{\}
6282
6283
6284 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouth
6285 \newcommand*{\bidi@afteroutputpageshipouthook}{\}
6286
6287 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6288 \newcommand*{\bidi@atendoutputpagehook}{\}
6289
6290 %\bidi@preto\document{%
6291 % \endgroup
6292 % \let\bidi@AtEndPreamble\@firstofone
6293 % \bidi@endpreamblehook
6294 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6295 % \bidi@undef\bidi@endpreamblehook
6296 % \begingroup}
6297
6298 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6299 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6300
6301 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6302 %\newcommand*{\bidi@afterendpreamblehook}{\}
6303
6304 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}}%
6305
6306 %\bidi@appto\document{%
6307 % \let\bidi@AfterEndPreamble\@firstofone
6308 % \bidi@afterendpreamblehook
6309 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6310 % \bidi@undef\bidi@afterendpreamblehook
6311 % \ignorespaces}
6312
6313 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocum
6314 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{\}
6315
6316 \bidi@patchcmd\enddocument
6317 {\fi}
6318 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6319 \bidi@afterenddocumentchecklabelsrerunhook
6320 \fi}
6321 {}
6322 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6323
6324 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6325

```



```

6326 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6327 \newcommand*{\bidi@afterlastshipouthook}{}
6328
6329 \bidi@patchcmd\enddocument
6330 {\clearpage}
6331 {\clearpage
6332 \let\bidi@AfterLastShipout\@firstofone
6333 \bidi@afterlastshipouthook}
6334 {}
6335 {\let\bidi@clearpage\clearpage
6336 \def\clearpage{%
6337 \bidi@clearpage
6338 \let\bidi@AfterLastShipout\@firstofone
6339 \bidi@afterlastshipouthook}}
6340
6341 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
6342 %\newcommand*{\bidi@afterenddocumenthook}{}
6343
6344 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{enddocument/end}}%
6345
6346 %\bidi@patchcmd\enddocument
6347 % {\deadcycles}
6348 % {\let\bidi@AfterEndDocument\@firstofone
6349 % \bidi@afterenddocumenthook
6350 % \deadcycles}
6351 % {}
6352 % {\let\bidi@@end@@end
6353 % \def@@end{%
6354 % \let\bidi@AfterEndDocument\@firstofone
6355 % \bidi@afterenddocumenthook
6356 % \bidi@@end}}
6357
6358 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6359 \bidi@csgappto{@bidi@begin@#1@hook}}
6360
6361 % Patch \begin<space> and \end<space> in newer LaTeX releases
6362 % \begin and \end in older ones.
6363 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6364 {\csname #1\endcsname}
6365 {\bidi@csuse{@bidi@begin@#1@hook}}%
6366 \csname #1\endcsname}
6367 {}
6368 {\bidi@warning{%
6369 Patching '\string\begin' failed!\MessageBreak
6370 '\string\bidi@AtBeginEnvironment' will not work@gobble}}
6371
6372
6373
6374 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6375 \bidi@csgappto{@bidi@end@#1@hook}}
6376
6377 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6378 {\csname end#1\endcsname}
6379 {\bidi@csuse{@bidi@end@#1@hook}}%

```



```

6380 \csname end#1\endcsname}
6381 {}
6382 {\bidi@warning{%
6383   Patching '\string\end' failed!\MessageBreak
6384   '\string\bidi@AtEndEnvironment' will not work\@gobble}}
6385
6386
6387
6388 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6389   \bidi@csgappto{\bidi@beforebegin@#1@hook}}
6390
6391 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6392 {\bidi@csuse{\bidi@beforebegin@#1@hook}}
6393 {}
6394 {\bidi@warning{%
6395   Patching '\string\begin' failed!\MessageBreak
6396   '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}
6397
6398 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6399   \bidi@csgappto{\bidi@afterend@#1@hook}}
6400
6401 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6402 {\if@ignore}
6403 {\bidi@csuse{\bidi@afterend@#1@hook}}%
6404 \if@ignore}
6405 {}
6406 {\bidi@warning{%
6407   Patching '\string\end' failed!\MessageBreak
6408   '\string\bidi@AfterEndEnvironment' will not work\@gobble}}
6409
6410 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6411 \def\bidi@namedef#1{\expandafter\gdef\csname #1\endcsname}
6412 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6413 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6414
6415 % From David Carlisle:
6416 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6417 % See also https://github.com/ho-tex/oberdiek/issues/26
6418
6419 \let\@bidi@stepcounter\stepcounter
6420 \let\@bidi@@stpelt\@stpelt
6421
6422 \def\@stpelt#1{%
6423   \ifcsname bidi@reset@#1@perpage\endcsname
6424     \begingroup
6425       \let\stepcounter\@bidi@stepcounter
6426       \@bidi@@stpelt{#1}%
6427     \endgroup
6428     \expandafter\@gobbletwo
6429   \fi
6430   \@bidi@@stpelt{#1}%
6431 }
6432
6433 \bidi@pretocmd\stepcounter

```



```

6434 {%
6435   \if@bidi@csundef{bidi@stepcounterhook@@#1}{}%
6436   \csname bidi@stepcounterhook@@#1\endcsname
6437   }%
6438 }{}%
6439 {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6440
6441 \chardef\bidi@backslash`\\
6442 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6443
6444 % anonymous control sequences
6445 \newcount\bidi@tempcountb
6446 \newtoks\bidi@temptoksa
6447 \newtoks\bidi@temptoksb
6448
6449 % Catcode (re)storing
6450 %
6451 \def\bidi@storecatcode#1%
6452   {\escapechar\m@ne
6453   \bidi@csarg\edef\bidi@restorecatcode\string#1}%
6454   {\catcode`\string#1=
6455   \the\catcode\expandafter`\string#1}%
6456   \catcode\expandafter`\string#1=12\relax
6457   \escapechar`\\ \relax}
6458 \def\bidi@restorecatcode#1%
6459   {\escapechar\m@ne
6460   \csname bidi@restorecatcode\string#1\endcsname
6461   \escapechar`\\ \relax}
6462
6463 % Construct a control sequence inside \edef
6464 %
6465 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6466
6467 % Construct a control sequence out of #2, and give it to #1
6468 %
6469 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6470
6471 % Pick an escapecharacter
6472 % this presumes that its argument is a character.
6473 %
6474 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6475
6476 % Equality of strings.
6477 % the fast approach: does not work in expansion-only environment.
6478 %
6479 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
6480   \ifx\bidi@eqs@a\bidi@eqs@b}
6481
6482 % Test by expansion only
6483 %
6484 \def\bidi@EqualStringX#1#2{00\fi
6485   \csname if\@bidi@EqualStringX#1&#2&\endcsname}
6486 \def\@bidi@EqualStringX#1#2$#3#4${\ifx#1#3%
6487   \ifx#1&true\else\bidi@hop@ES\@bidi@EqualStringX#2$#4$\fi

```




```

6488     \else false\fi}
6489 \def\bidihop@ES#1\fi#2\fi{\fi\fi#1}
6490
6491 % Lexicographic ordering
6492 % note the use of \def
6493 % also note the characters 0,127,255 that are used,
6494 % these are not supposed to appear in the strings
6495 %
6496 {\catcode0=12 \catcode255=12 \catcode127=12
6497 \gdef\bidistringbeforeNC#1#2{00\fi
6498   \bidicharsbefore#1^^@^^?#2^^ff^^?}
6499 \gdef\bidicharsbeforeNC#1#2^^?#3#4^^?{%
6500   \ifcat#1\relax\def\bidinext{\bidicharsbefore#2^^@^^?#3#4^^ff^^?}%
6501   \else\ifcat#3\relax\def\bidinext{\bidicharsbefore#1#2^^@^^?#4^^ff^^?}%
6502     \else\ifnum\lccode`#1<\lccode`#3
6503       \def\bidinext{\csname iftrue\endcsname}%
6504     \else\ifnum\lccode`#1>\lccode`#3
6505       \def\bidinext{\csname iffalse\endcsname}%
6506     \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6507   \fi \fi \fi \fi
6508   \bidinext}
6509 \gdef\bidistringbefore#1#2{00\fi
6510   \bidicharsbefore#1^^@^^?#2^^ff^^?}
6511 \gdef\bidicharsbefore#1#2^^?#3#4^^?{%
6512   \ifnum`#1<`#3
6513     \def\bidinext{\csname iftrue\endcsname}%
6514   \else\ifnum`#1>`#3
6515     \def\bidinext{\csname iffalse\endcsname}%
6516   \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6517   \fi\fi
6518   \bidinext}
6519 }
6520
6521 % Null argument test
6522 %
6523 \def\bidiepty{}
6524 \def\bidiepty#1{00\fi\expandafter\ifx\csname bidi@#1\endcsname\bidiepty\fi}
6525 \def\bidieptyX#1{\expandafter\ifx\csname bidi@#1\endcsname\bidiepty\fi}
6526 %\def\bidiepty#1{\def\bidiepty{\ifx\csname bidi@#1\endcsname\bidiepty}
6527 \def\bidieptylist#1{00\fi\def\bidiepty{\ifx\csname bidi@#1\endcsname\bidiepty}
6528
6529 % Next character test
6530 %
6531 \def\bidinextchar#1#2#3{00\fi
6532   \let\bidinxt@ch#1\def\bidinxt@a{#2}\def\bidinxt@b{#3}%
6533   \futurelet\bidinxt@c\@bidieptynxtc}
6534 \def\bidieptylist#1#2#3{%
6535   \let\bidinxt@ch#1\def\bidinxt@a{#2}\def\bidinxt@b{#3}%
6536   \futurelet\bidinxt@c\@bidieptynxtc}
6537 \def\@bidieptynxtc{\ifx\bidinxt@ch\bidinxt@c \expandafter\bidinxt@a
6538   \else \expandafter\bidinxt@b \fi}
6539
6540 % Test for defined-ness of string as control sequence.
6541 % works inside \edef

```



```

6542 %
6543 \def\bid@undefinedcs#1{00\fi\bid@csarg\ifx{#1}\relax}
6544
6545 % Define uniquely defined dummy macros,
6546 % usually to serve as bumper blocks at the end of a list
6547 %
6548 \newcount\bid@dummies
6549 \def\DefNewDummy#1{
6550     \if\bid@undefinedcs{#1}\bid@csarg\edef{#1}{\bid@dum\the\bid@dummies}
6551     \advance\bid@dummies\@ne
6552     \else
6553     \bid@error{Attempt at second definition of `#1'}
6554     \fi}
6555
6556 % string case statement
6557 % use: \bid@switch \iftest{...} in:
6558 %     item1 action1
6559 %     ...
6560 %     itemn actionn
6561 %     default defaultaction [optional]
6562 %     \endbid@switch
6563 % inspired by Jonathan Fine: Some Basic Control Macros
6564 % Tugboat 12 #4
6565 %
6566 \let\@bid@fi\fi \let\endbid@switch\relax \DefNewDummy{\bid@default}
6567 \def\bid@switch@exit #1 \@bid@fi #2 \endbid@switch {\fi #1}
6568 \def\bid@switch #1#2#3{\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6569 #1{#2}\bid@switch@exit #3 \@bid@fi
6570 \bid@switch {#1}
6571 }
6572 % this version puts the test object in {}
6573 \def\bid@oswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6574 #1{#2}\bid@switch@exit #3 \@bid@fi
6575 \bid@switch #1 in:
6576 }
6577 % this version assumes that the test object is just one character
6578 \def\bid@cswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6579 #1#2\bid@switch@exit #3 \@bid@fi
6580 \bid@cswitch #1 in:
6581 }
6582 % this version assumes that the test object can have an optional space
6583 \def\bid@bswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6584 #1#2 \bid@switch@exit #3 \@bid@fi
6585 \bid@bswitch #1 in:
6586 }
6587 % this version can cope with significant spaces at the start of #3;
6588 % #2 is macro argument
6589 \def\bid@mswitch #1 in: #2:#3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6590 #1{#2}\bid@switch@exit #3 \@bid@fi
6591 \bid@mswitch #1 in:
6592 }
6593 % idem; #2 does not have to be enclosed in braces
6594 \def\bid@fswitch #1 in: #2:#3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6595 #1#2 \bid@switch@exit #3 \@bid@fi

```



```

6596 \bidi@fswitch #1 in:
6597 }
6598
6599 % Routines for taking the value of a string:
6600 % if the string is defined as control sequence
6601 % take the value of that, otherwise take the string itself
6602
6603 % String or value of control sequence
6604 %
6605 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6606
6607 % String or control sequence
6608 %
6609 \def@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6610
6611 % String or \noexpand-ed control sequence;
6612 % for use in \edef
6613 %
6614 \newif\ifbidi@in@label
6615 \def@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6616 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6617 \newtoks\bidi@are@these@correct
6618 \def\bidi@t@w@w#1{%
6619 \if\bidi@undefinedcs{#1}#1%
6620 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1}\fi
6621 \else
6622 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6623
6624 % List Manipulation .....
6625 % this assumes that #1 is a list of tokens, #2 is the name of a list
6626 %
6627 % Names of lists (and of items to pop into) are given as strings;
6628 % not as control sequences.
6629 %
6630 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6631 % basic append/prepend macro
6632 \long\def\bidi@append@to@clist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6633 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@listb}
6634 \long\def\bidi@prepend@to@clist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6635 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@listb}
6636 \def@bidi@append@to@list{\bidi@csarg\bidi@append@to@clist}
6637 \def@bidi@prepend@to@list{\bidi@csarg\bidi@prepend@to@clist}
6638 % variations:
6639 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
6640 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
6641 \def\bidi@append@list@to@list#1#2{%
6642 \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
6643 \def\bidi@prepend@list@to@list#1#2{%
6644 \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
6645 \def\bidi@append@clist@to@clist#1#2{%
6646 \@bidi@append@to@clist{#1}\expandafter{\the#2}}
6647 \def\bidi@prepend@clist@to@clist#1#2{%
6648 \@bidi@prepend@to@clist{#1}\expandafter{\the#2}}
6649 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}

```



```

6650 \def\bidiprepend@toks@cs@to@list#1#2{\@bidiprepend@to@list{#1}\expandafter{\the#2}}
6651
6652 \let\bidibwillbeunhskip\unhskip
6653
6654 % A few list macros for the user
6655 \def\NewTokenList:#1 {\@bidicsarg\newtoks{#1}\global\csname#1\endcsname{}}
6656 \def\EmptyTokenList:#1 {\@global\csname#1\endcsname{}}
6657 \long\def\AppendToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6658 \long\def\PrependToTokenList:#1=#2 {\@bidiprepend@to@list{#1}{#2}}
6659 \def\TheTokenList:#1 {\let\bidiboldwbuskip\bidibwillbeunhskip \let\bidibwillbeunhskip\@empty
6660     \if\bidibundefinedcs{#1}\bidiberror{Token List <#1> undefined}
6661     \else\bidibcsarg\the{#1}\fi
6662     \let\bidibwillbeunhskip\bidiboldwbuskip}
6663
6664 \def\bidibdel@tok@from@list#1#2{\begingroup
6665     \long\def\bidibcs@list#1#2#3\bidibtok@SM
6666         {\bidibtoks@list#1\bidibtoks@listb{#2}}%
6667         \edef\bidibcs@listb{\global\bidibcsname{#1}=
6668             {\the\bidibtoks@list\the\bidibtoks@listb}}%
6669         \bidibcs@listb}%
6670     \edef\bidibcs@list{\noexpand\bidibcs@list#1}\expandafter\the\csname#1\endcsname\noexpand
6671     \bidibcs@list \endgroup}
6672 \def\bidibin@front@of@list#1{\bidibcsarg{\let\expandafter\bidibcs@list#1}\bidibcs@list#1}%
6673 \bidibin@front@of@cslist\bidibcs@list#1}%
6674 \long\def\bidibin@front@of@cslist#1#2{\begingroup\bidibtoks@list#1#2}%
6675 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidibtoks@list#1}%
6676 \endgroup}
6677 \long\def\bidiblocal@in@front@of@list#1#2{\bidibtoks@list#1#2}%
6678 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6679     {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6680     \expandafter\the\csname#1\endcsname}%
6681 }
6682 \def\bidibset@list#1{\bidibcsarg{\let\expandafter\bidibcs@list#1}\bidibcs@list#1}%
6683 \bidibset@cslist\bidibcs@list#1}%
6684 \long\def\bidibset@cslist#1#2{\begingroup\bidibtoks@list#1#2}%
6685 \global#1=\expandafter{\the\bidibtoks@list#1}\endgroup}
6686
6687 %%%%%%%%%%%%%%% Stack macros
6688 %
6689 % push in terms of prepending of lists
6690 \def\bidibpush@cs@onto@cs#1#2{\@bidiprepend@to@cslist#1\expandafter{\expandafter\\expandafter
6691 \def\bidibpush@onto#1{\bidibcsarg\bidibpush@onto@cs{#1}}
6692 \def\bidibpush@onto@cs#1#2{\@bidiprepend@to@cslist#1}{\{#2}}
6693 \def\bidiblocal@push@onto#1#2{\let\relax
6694     \bidiblocal@in@front@of@list{#1}{\{#2}}
6695 % pop via auxiliary macro: #1 is result, #2 is stack
6696 % two cs arguments
6697 \def\bidibpop@cs@into#1#2{\edef\bidibcs@e
6698     {\noexpand\@bidibpopinto\noexpand#1\noexpand#2\the#2\noexpand\@bidibpop}\bidibcs@e}
6699 % two string arguments
6700 \def\bidibpop@into#1#2{\edef\bidibcs@e
6701     {\noexpand\@bidibpopinto\bidibcsname{#1}\bidibcsname{#2}\bidibcsarg\the{#2}\noexpand\@
6702 \long\def\@bidibpopinto#1#2\#3#4\@bidibpop{#1{#3}#2{#4}}
6703 \def\bidibcopy@stacktop#1#2{%

```



```

6704 \edef\bidics@e{\noexpand\@bidi@copy@stacktop
6705 {#1}\bidi@csarg\the{#2}\noexpand\@bidi@pop}%
6706 \bidi@cs@e}
6707 \def\@bidi@copy@stacktop#1\\#2#3\@bidi@pop{\csname#1\endcsname#2\relax}
6708 \newcount\bidi@stack@length \newtoks\bidi@empty@stack \bidi@empty@stack{\{\}}
6709 \def\bidi@length@of@stack#1{\bidi@csarg\bidi@length@of@csstack{#1}}
6710 \def\bidi@length@of@csstack#1{\def\\##1{\advance\bidi@stack@length\@ne}%
6711 \bidi@stack@length\m@ne \the#1}
6712 % turn a stack upside down
6713 \def\bidi@invert@csstack#1{\bidi@length@of@csstack{#1}%
6714 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@stack
6715 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6716 \bidi@pop@cs@into\bidi@temptoksb#1\advance\bidi@stack@length\m@ne
6717 \bidi@push@cs@onto@cs\bidi@temptoksa\bidi@temptoksb
6718 % \bidi@append@cslst@to@cslst\bidi@temptoksb\bidi@temptoksa% append a to b
6719 % \bidi@temptoksa\bidi@temptoksb
6720 \repeat% copy b to a
6721 #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6722 % invert a stack into a list
6723 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6724 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6725 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6726 \bidi@pop@into{\bidi@temptoksb}{#1}\advance\bidi@stack@length\m@ne
6727 \bidi@append@list@to@list{\bidi@temptoksb}{\bidi@temptoksa}\repeat
6728 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6729
6730
6731 % General loop macro:
6732 \looprepeat
6733 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6734 % \untilcondition{<cond>} \whilecondition{<cond>}
6735 % \doloopbody { <loop body> }
6736 % where all control sequences in between \looprepeat and \doloopbody are optional.
6737 %
6738 % var: characters to form a control sequence;
6739 % after \forvariable{index} you can access the loop counter as \index.
6740 % This is a count register; to print it use \number\index.
6741 % start,step,end: integers with obvious relations to the loop counter;
6742 % start and step have a default value of 1
6743 % cond: (sequence of commands ending in) any TeX \if... test.
6744 %
6745 % Count down instead of up with \downtovalue; the increment given in \bystep
6746 % is always positive, and is added or subtracted accordingly.
6747 %
6748 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6749 % at the beginning of the loop body.
6750 %
6751 % Exit from middle of loop: \breaklooprepeat
6752 % use this at any place in the loop; in case of a conditional use
6753 % \ifsomething ... \expandafter \breaklooprepeat \fi
6754 %
6755 % Note that the line ends do not cause spaces in the output.
6756 %
6757 % Technical details:

```



```

6758 % The loop body is not executed in a group: the braces are those
6759 % of a token list.
6760 % The 'forvariable' variable is \let to a \count register.
6761
6762
6763
6764 % Auxiliary stuff
6765 \def\bidi@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6766 \def\bidi@looprepeat@csromannumeral#1{\csname #1\romannumeral\bidi@looprepeat@depth\endcsname}
6767 \def\bidi@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidi@looprepeat@depth\endcsname}
6768
6769 \newcount\bidi@looprepeat@depth
6770 \let\endlooprepeat\relax \def\bidi@csprotect{}
6771 % Trace switches may later be defined by PAC_utils
6772 \let\bidi@looprepeat@traceinit\relax \let\bidi@looprepeat@traceexit\relax
6773
6774 % Main repeatloop macro
6775 % - go to next level and allocate unique counter/toks if this is the
6776 %   first time we visit this level
6777 % - setup: gather bounds and termination conditions
6778 % - scoop up body in token list; after the assignment define and
6779 %   execute body
6780 \def\looprepeat#1\doloopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop
6781   \advance\bidi@looprepeat@depth\@ne\relax
6782   \bidi@looprepeat@csargromannumeral\ifx\bidi@looprepeat@count}\relax
6783     \bidi@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}\bidi@looprepeat@count}
6784     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}\bidi@looprepeat@toks}
6785     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}\bidi@looprepeat@toks}
6786     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}\bidi@looprepeat@toks}
6787 \fi \bidi@looprepeat@zero \def\bidi@looprepeat@sign{}\def\bidi@looprepeat@comp{>}\bidi@looprepeat@comp{>}
6788 \edef\bidi@looprepeat@tmp
6789   {\def\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@looprepeat}\bidi@looprepeat@looprepeat}
6790 \afterassignment\bidi@looprepeat@dxbody\bidi@looprepeat@csromannumeral\bidi@looprepeat@body}
6791
6792 % Define and execute loop body
6793 % This is done with an \edef to construct the actual sequence
6794 \def\bidi@looprepeat@dxbody{\bidi@looprepeat@csargromannumeral\edef\bidi@looprepeat@body{\%
6795   \bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@wtest}%
6796   \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@toks}%
6797   \bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@utest}%
6798   \global\bidi@looprepeat@csargromannumeral\advance\bidi@looprepeat@count by \bidi@looprepeat@depth}
6799 \noexpand\endlooprepeat
6800 \bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@looprepeat}%
6801 \bidi@looprepeat@csromannumeral\bidi@looprepeat@body}\ignorespaces}
6802
6803 % Stop test
6804 %% In order to stop, issue a
6805 %% \breaklooprepeat which scoops up the rest of the body and exits
6806 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral\noexpand\endlooprepeat}
6807 \advance\bidi@looprepeat@depth\@m\@ne \bidi@looprepeat@traceexit
6808 }
6809
6810
6811 % Setup

```



```

6812 % gather bounds and termination conditions
6813 \def\bidilooprepeat@setup#1{%
6814   \beginingroup
6815   \def\forvariable##1{%
6816     \edef\bidilooprepeat@tmp{%
6817       \global\let\bidilooprepeat@csarg\noexpand{##1}\bidilooprepeat@csromannumeral{\bidilooprepeat@tmp}%
6818       \bidilooprepeat@tmp}%
6819     \def\fromvalue##1{\bidilooprepeat@csargromannumeral\global{\bidilooprepeat@count}##1\i
6820     \def\tovalue##1{%
6821       \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6822       {\bidilooprepeat@csargromannumeral\the{\bidilooprepeat@wtest}}%
6823       \noexpand\ifnum\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@count}>\bidilooprepeat@wtest%
6824       \noexpand\expandafter\noexpand\breaklooprepeat
6825       \noexpand\fi}\ignorespaces}%
6826     \bidilooprepeat@tmp}%
6827   \def\downtovalue##1{%
6828     \gdef\bidilooprepeat@sign{-}\gdef\bidilooprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6829   \def\bystep##1{\ifnum##1<0\bidioerror{LOOPREPEAT: increment has to be a positive value}\fi}%
6830     \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{-##1}\else
6831     \bidilooprepeat@csargromannumeral\gdef{\bidilooprepeat@inc}{##1}\fi\ignorespaces}%
6832   \def\untilcondition##1{%
6833     \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6834     {\noexpand##1\relax
6835     \noexpand\expandafter\noexpand\breaklooprepeat\noexpand\fi}\ignorespaces}%
6836     \bidilooprepeat@tmp}%
6837   \def}whilecondition##1{%
6838     \edef\bidilooprepeat@tmp{\global\bidilooprepeat@csargromannumeral\noexpand{\bidilooprepeat@tmp}%
6839     {\noexpand##1\relax\noexpand\else
6840     \noexpand\expandafter\noexpand\breaklooprepeat\noexpand\fi}\ignorespaces}%
6841     \bidilooprepeat@tmp}%
6842     \fromvalue{\@ne}\bystep{\@ne}#1%
6843   \endgroup}
6844 \def\bidilooprepeat@zero
6845   {\bidilooprepeat@csromannumeral{\bidilooprepeat@toks}{}}\bidilooprepeat@csromannumeral{\bidilooprepeat@body}{}}
6846   \bidilooprepeat@csargromannumeral\def{\bidilooprepeat@body}{}}
6847
6848 %\tracingmacros2
6849 %\newcount\tmpcount % used in some examples below
6850
6851 %\looprepeat \forvariable{i}
6852 %   \bystep{2}
6853 % \doloopbody {%
6854 %   \ifnum i=13 \expandafter\breaklooprepeat \fi
6855 %   \number i}%
6856 %}%
6857
6858 %\looprepeat \forvariable{iii}
6859 %   \tovalue{8}
6860 % \doloopbody {}
6861 %After loop: \number iii%
6862
6863 %\looprepeat \forvariable{i}
6864 %   \fromvalue{10}
6865 %   \bystep{2}

```



```

6866 %           \downtovalue{0}
6867 %   \doloopbody {\number\i{ } }
6868
6869 %\looprepeat \forvariable{x} \whilecondition{\ifnum\x<7}
6870 %   \doloopbody {\number\x{ } }
6871
6872 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6873
6874 %\looprepeat \forvariable{j}
6875 %           \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6876 %   \doloopbody {\number\j{ } }
6877
6878 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6879 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6880 %   \doloopbody {(\number\i.\number\j) }
6881 % }
6882
6883 % infinite loop
6884 %\looprepeat \doloopbody {}
6885
6886 \ExplSyntaxOn
6887 \NewDocumentCommand \bidi@AfterClass { s m o +m }
6888 {
6889   \IfBooleanTF { #1 }
6890   {
6891     \@ifclassloaded{ #2 }
6892     { #4 }
6893     {
6894       \hook_gput_code:nnn
6895       { file / #2.\@clsextension / after }
6896       { #3 }
6897       { #4 }
6898     }
6899   }
6900   {
6901     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6902   }
6903 }
6904
6905 \seq_new:N \g__biditools_input_file_seq
6906
6907 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6908 {
6909   \str_set:Nx \l_tmpa_str { #1 }
6910   \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }
6911   { \prg_return_true: }
6912   { \prg_return_false: }
6913 }
6914
6915 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6916 {
6917   \@ifclassloaded { #1 }
6918   {
6919     \__bidi_if_loading:nTF { #1.\@clsextension }

```




```

6920         { \prg_return_false: }
6921         { \prg_return_true: }
6922     }
6923     {
6924         \prg_return_false:
6925     }
6926 }
6927
6928 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6929 {
6930     \@ifpackageloaded { #1 }
6931     {
6932         \_bidi_if_loading:nTF { #1.\@pkgextension }
6933         { \prg_return_false: }
6934         { \prg_return_true: }
6935     }
6936     {
6937         \prg_return_false:
6938     }
6939 }
6940
6941 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6942 {
6943     \IfBooleanTF { #1 }
6944     {
6945         \bidi_if_class_loaded:nTF { #2 }
6946         { #4 }
6947         { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6948     }
6949     {
6950         \bidi_if_class_loaded:nF
6951         { #2 }
6952         { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6953     }
6954 }
6955
6956 \NewDocumentCommand \bidi@AfterPackage { s m o +m }
6957 {
6958     \IfBooleanTF { #1 }
6959     {
6960         \@ifpackageloaded{ #2 }
6961         { #4 }
6962         {
6963             \hook_gput_code:nnn
6964             { file / #2.\@pkgextension / after }
6965             { #3 }
6966             { #4 }
6967         }
6968     }
6969     {
6970         \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6971     }
6972 }
6973

```



```

6974 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6975 {
6976   \IfBooleanTF { #1 }
6977   {
6978     \bidi_if_package_loaded:nTF { #2 }
6979     { #4 }
6980     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6981   }
6982   {
6983     \bidi_if_package_loaded:nF
6984     { #2 }
6985     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6986   }
6987 }
6988
6989 \clist_new:N \l__biditools_package_clist
6990 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6991 {
6992   Can-not-prevent-package-`#1'-from-being-loaded,~
6993   since-it-has-been-loaded-already-before-line~\msg_line_number:
6994 }
6995 \clist_new:N \g__biditools_prevent_clist
6996
6997 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6998 {
6999   \clist_set:Nx \l__biditools_package_clist { #3 }
7000   \clist_map_inline:Nn \l__biditools_package_clist
7001   {
7002     \@ifpackageloaded { ##1 }
7003     {
7004       \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
7005       { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
7006     }
7007     {
7008       \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
7009       { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
7010       \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }
7011       {
7012         \tl_new:c { g__biditools_exclude_package_##1_tl }
7013       }
7014       \IfValueT { #2 }
7015       {
7016         \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
7017       }
7018       \disable@package@load { ##1 }
7019       { \tl_use:c { g__biditools_exclude_package_##1_tl } }
7020     }
7021   }
7022   \clist_clear:N \l__biditools_package_clist
7023 }
7024
7025 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
7026 {
7027   \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load

```



```

7028 \clist_gclear:N \g__biditools_prevent_clist
7029 }
7030
7031 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
7032 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
7033
7034 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
7035 {
7036 \clist_set:Nx \l__biditools_package_clist { #2 }
7037 \clist_map_inline:Nn \l__biditools_package_clist
7038 {
7039 \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
7040 {
7041 \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7042 \reenable@package@load { ##1 }
7043 \IfBooleanT { #1 }
7044 { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7045 }
7046 }
7047 }
7048
7049 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7050 {
7051 \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7052 {
7053 \debug_suspend:
7054 \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7055 \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7056 \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7057 #2
7058 \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7059 \debug_resume:
7060 }
7061 }
7062
7063 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7064 {
7065 \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7066 {
7067 \debug_suspend:
7068 \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7069 \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7070 \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7071 #2
7072 \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7073 \debug_resume:
7074 }
7075 }
7076
7077 \clist_new:N \l__biditools_file_patch_clist
7078
7079 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7080 {
7081 \clist_set:Nx \l__biditools_file_patch_clist { #1 }

```



```

7082 \clist_map_inline:Nn \l__biditools_file_patch_clist
7083 {
7084   \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7085 }
7086 \clist_clear:N \l__biditools_file_patch_clist
7087 }
7088
7089 \clist_new:N \l__biditools_package_patch_clist
7090
7091 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7092 {
7093   \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7094   \clist_map_inline:Nn \l__biditools_package_patch_clist
7095   {
7096     \ApplyPatchToPackage { ##1 } [ #2 ]
7097   }
7098   \clist_clear:N \l__biditools_package_patch_clist
7099 }
7100
7101 \clist_new:N \l__biditools_class_patch_clist
7102
7103 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7104 {
7105   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7106   \clist_map_inline:Nn \l__biditools_class_patch_clist
7107   {
7108     \ApplyPatchToClass { ##1 } [ #2 ]
7109   }
7110   \clist_clear:N \l__biditools_class_patch_clist
7111 }
7112
7113 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7114 {
7115   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7116   \clist_map_inline:Nn \l__biditools_class_patch_clist
7117   {
7118     \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]
7119   }
7120   \clist_clear:N \l__biditools_class_patch_clist
7121 }
7122 \ExplSyntaxOff
7123
7124 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7125 \newcommand*{\bidi@UnReplaceInput}
7126 {\undeclare@file@substitution}
7127 \newcommand*{\bidi@ReplacePackage}[2]{%
7128   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7129 }
7130 \newcommand*{\bidi@UnReplacePackage}[1]{%
7131   \undeclare@file@substitution{#1.\@pkgextension}%
7132 }
7133 \newcommand*{\bidi@ReplaceClass}[2]{%
7134   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7135 }

```



```

7136 \newcommand*{\bidi@UnReplaceClass}[1]{%
7137   \undecore@file@substitution{#1.\@clsextension}%
7138 }
7139 \newcommand*{\bidi@BeforeFile}[1]{%
7140   \AddToHook{file/#1/before}%
7141 }
7142 \newcommand*{\bidi@AfterFile}[1]{%
7143   \AddToHook{file/#1/after}%
7144 }
7145 \newcommand*{\bidi@BeforeClass}[1]{%
7146   \bidi@BeforeFile{#1.\@clsextension}%
7147 }
7148 \newcommand*{\bidi@BeforePackage}[1]{%
7149   \bidi@BeforeFile{#1.\@pkgextension}%
7150 }
7151
7152 \long\def\bidi@protected@immediate@write#1#2#3{%
7153   \begingroup
7154     #2%
7155     \let\protect\@unexpandable@protect
7156     \edef\reserved@a{\immediate\write#1{#3}}%
7157     \reserved@a
7158   \endgroup
7159   \if@nobreak\ifvmode\nobreak\fi\fi
7160 }
7161
7162 \def\bidi@patch@AfterPackage#1{%
7163   \@ifpackageloaded{#1}{%
7164     \@firstofone
7165   }{%
7166     \AddToHook{package/#1/after}%
7167   }%
7168 }
7169
7170 \def\bidi@patch@AfterFile#1{%
7171   \IfFileLoadedTF{#1}{%
7172     \@firstofone
7173   }{%
7174     \AddToHook{file/#1/after}%
7175   }%
7176 }
7177
7178 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7179 {
7180   \bidi@patch@AfterFile{#1.#2}{%
7181     \ifnum\catcode`\@=11
7182       \input{#1-xetex-#3.def}%
7183     \else
7184       \bidi@storecatcode\@
7185       \makeatletter
7186       \input{#1-xetex-#3.def}%
7187       \bidi@restorecatcode\@
7188     \fi
7189   }%

```



```

7190 }
7191
7192 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7193 {
7194   \bidi@patch@AfterFile{#1.#3}{#2}%
7195 }
7196
7197 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7198 {
7199   \AddToHook{begindocument/before}{%
7200     \IfPackageLoadedF{#1}{%
7201       \ApplyPatchToFiles{#2}[#3][#4]%
7202     }%
7203   }
7204 }
7205
7206 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7207 {
7208   \AddToHook{begindocument/before}{%
7209     \IfPackageLoadedF{#2}{%
7210       \ifnum\catcode`\@=11
7211         \@ifclassloaded{#1}{%
7212           \input{#1-xetex-#3.def}%
7213         }{%
7214           \else
7215             \bidi@storecatcode\@
7216             \makeatletter
7217             \@ifclassloaded{#1}{%
7218               \input{#1-xetex-#3.def}%
7219             }{%
7220               \bidi@restorecatcode\@
7221             }%
7222           \fi
7223         }%
7224       }
7225     }
7226 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }
7227 {
7228   \AddToHook{begindocument/before}{%
7229     \IfPackageLoadedF{#2}{%
7230       \IfPackageLoadedT{#1}{%
7231         \ifnum\catcode`\@=11
7232           \input{#1-xetex-#3.def}%
7233         \else
7234           \bidi@storecatcode\@
7235           \makeatletter
7236           \input{#1-xetex-#3.def}%
7237           \bidi@restorecatcode\@
7238         \fi
7239       }%
7240     }%
7241   }
7242 }
7243

```



```

7244 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7245 {
7246   \AddToHook{begindocument/before}{%
7247     \ifnum\catcode`\@=11
7248       \@ifpackageloaded{#1}{#2}{#3}%
7249     \else
7250       \bidi@storecatcode\@
7251       \makeatletter
7252       \@ifpackageloaded{#1}{#2}{#3}%
7253       \bidi@restorecatcode\@
7254     \fi
7255   }
7256 }
7257
7258 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7259 {
7260   \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7261 }
7262
7263 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7264 {
7265   \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7266 }
7267
7268 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7269 {
7270   \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7271 }
7272
7273 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7274 {
7275   \bidi@patch@AfterPackage{#1}{#2}%
7276 }
7277
7278 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7279 {
7280   \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%
7281 }

```

53 File `bidituftefloat.sty`

```

7282 \NeedsTeXFormat{LaTeX2e}
7283 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7284 bidi implementation of tufte float]
7285 \RequirePackage{xifthen}
7286 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7287 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7288 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@bidituftefloat@debug}}{\bi
7289 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
7290 \newboolean{\@bidituftefloat@reversegeometry}
7291 \setboolean{\@bidituftefloat@reversegeometry}{false}
7292 \DeclareOption{reversegeometry}{\setboolean{\@bidituftefloat@reversegeometry}{true}}
7293 \newboolean{\@bidituftefloat@a4paper}
7294 \DeclareOption{a4paper}{\setboolean{\@bidituftefloat@a4paper}{true}}

```



```

7295 \newboolean{@biditytfloat@bfivepaper}
7296 \DeclareOption{b5paper}{\setboolean{@biditytfloat@bfivepaper}{true}}
7297 \newboolean{@biditytfloat@symmetric}
7298 \newboolean{@biditytfloat@twoside}
7299 \DeclareOption{twoside}{%
7300 \@twosidettrue \@mparswitchtrue%
7301 \setboolean{@biditytfloat@twoside}{true}%
7302 \setboolean{@biditytfloat@symmetric}{true}%
7303 }
7304 \DeclareOption{oneside}{%
7305 \@twosidefalse \@mparswitchfalse%
7306 \setboolean{@biditytfloat@twoside}{false}%
7307 \setboolean{@biditytfloat@symmetric}{false}%
7308 }
7309 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7310 \newboolean{@biditytfloat@debug}
7311 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodet
7312 \ProcessOptions
7313 %% Globally sets the length
7314 \newcommand*{\gsetlength}[2]{%
7315 \setlength{#1}{#2}%
7316 \global#1=#1\relax%
7317 }
7318
7319 %% Set the font sizes and baselines to match biditytfloat's books
7320 \renewcommand\normalsize{%
7321 \@setfontsize\normalsize\@xpt{14}%
7322 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7323 \abovedisplayshortskip \z@ \@plus3\p@
7324 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7325 \belowdisplayskip \abovedisplayskip
7326 \let\@listi\@listI}
7327 \normalbaselineskip=14pt
7328 \normalsize
7329 \renewcommand\footnotesize{%
7330 \@setfontsize\footnotesize\@viipt{10}%
7331 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7332 \abovedisplayshortskip \z@ \@plus\p@
7333 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7334 \def\@listi{\leftmargin\leftmargini
7335 \topsep 3\p@ \@plus\p@ \@minus\p@
7336 \parsep 2\p@ \@plus\p@ \@minus\p@
7337 \itemsep \parsep}%
7338 \belowdisplayskip \abovedisplayskip
7339 }
7340 %% Paragraph indentation and separation for marginal text
7341 \newcommand{\@biditytfloat@margin@par}{%
7342 \setlength{\RaggedRightParindent}{0.5pc}%
7343 \setlength{\JustifyingParindent}{0.5pc}%
7344 \setlength{\parindent}{0.5pc}%
7345 \setlength{\parskip}{0pt}%
7346 }
7347 \RequirePackage{ragged2e}
7348 \ifthenelse{boolean{@biditytfloat@reversegeometry}}{%

```




```

7349 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginp
7350 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7351   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginp
7352   {}
7353 \ifthenelse{\boolean{@biditytfloat@b5paper}}
7354   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7355   {}}%
7356 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginp
7357 \ifthenelse{\boolean{@biditytfloat@a4paper}}
7358   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginp
7359   {}
7360 \ifthenelse{\boolean{@biditytfloat@b5paper}}
7361   {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm
7362   {}%
7363 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7364   {}
7365   {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7366 \setlength\marginparpush{10pt}
7367 %% Font for margin items
7368 \newcommand{@biditytfloat@marginfont}{\normalfont\footnotesize}
7369 \newcommand*{@biditytfloat@caption@font}{@biditytfloat@marginfont}
7370 \newcommand*{\setcaptionfont}[1]{\renewcommand*{@biditytfloat@caption@font}{#1}}
7371 \newcommand{@biditytfloat@justification}{\justifying}%
7372 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7373 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7374 \newboolean{@biditytfloat@changepage}
7375 \IfFileExists{changepage.sty}{%
7376   \biditytfloatDebugInfoNL{Found changepage.sty}
7377   \RequirePackage[strict]{changepage}
7378   \setboolean{@biditytfloat@changepage}{true}
7379 }{%
7380   \biditytfloatDebugInfoNL{Found chngpage.sty}
7381   \RequirePackage[strict]{chngpage}
7382   \setboolean{@biditytfloat@changepage}{false}
7383 }
7384 \newboolean{@biditytfloat@odd@page}
7385 \setboolean{@biditytfloat@odd@page}{true}
7386 \newcommand*{@biditytfloat@checkoddpag}{%
7387   \checkoddpag%
7388   \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7389     \ifoddpag%
7390       \setboolean{@biditytfloat@odd@page}{true}%
7391     \else%
7392       \setboolean{@biditytfloat@odd@page}{false}%
7393     \fi%
7394   }{%
7395     \ifcpoddpag%
7396       \setboolean{@biditytfloat@odd@page}{true}%
7397     \else%
7398       \setboolean{@biditytfloat@odd@page}{false}%
7399     \fi%
7400   }%
7401 }
7402 \newlength{@biditytfloat@overhang}% used by the fullwidth environment and the running he

```



```

7403 \newlength{\@biditytfloat@fullwidth}
7404 \newlength{\@biditytfloat@caption@fill}
7405 \newcommand{\biditytfloatRecalculate}{%
7406   \setlength{\@biditytfloat@overhang}{\marginparwidth}
7407   \addtolength{\@biditytfloat@overhang}{\marginparsep}
7408
7409   \setlength{\@biditytfloat@fullwidth}{\textwidth}
7410   \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7411   \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7412
7413   \setlength{\@biditytfloat@caption@fill}{\textwidth}
7414   \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7415 }
7416 \AtBeginDocument{\biditytfloatRecalculate}
7417 \RequirePackage{optparams}% provides multiple optional arguments for commands
7418 \RequirePackage{placeins}
7419 \newsavebox{\@biditytfloat@margin@floatbox}
7420 \newenvironment{\@biditytfloat@margin@float}[2][1.2ex]{%
7421   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in
7422   \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7423   \begin{minipage}{\marginparwidth}%
7424     \@biditytfloat@caption@font%
7425     \def\@capttype{#1}%
7426     \hbox{} \vspace*{#1}%
7427     \@biditytfloat@caption@justification%
7428     \@biditytfloat@margin@par%
7429     \noindent%
7430   }
7431   {\end{minipage}%
7432   \end{lrbox}%
7433   \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7434 }
7435 \newenvironment{marginfigure}[1][1.2ex]{%
7436   {\begin{\@biditytfloat@margin@float}[#1]{figure}}
7437   {\end{\@biditytfloat@margin@float}}
7438 \newenvironment{marginfigure}[1][1.2ex]{%
7439   {\begin{\@biditytfloat@margin@float}[#1]{table}}
7440   {\end{\@biditytfloat@margin@float}}
7441 \newcommand*{\@biditytfloat@justification@autodetect}{\justifying}%
7442
7443 \newcommand{\@biditytfloat@float@debug@info}{% contains debug info generated as the float
7444 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7445   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}{
7446     {\def\@biditytfloat@float@debug@info{#1}}%
7447     {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7448 }
7449 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7450 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@deb
7451 \newboolean{\@biditytfloat@float@recto}
7452 \newcommand{\forcerectofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@bidityt
7453 \newcommand{\forceversofloat}{\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@bidityt
7454 \newsavebox{\@biditytfloat@figure@box}
7455 \newsavebox{\@biditytfloat@caption@box}
7456 \let\@biditytfloat@orig@float\float

```



```

7457 \let\@biditytfloat@orig@endfloat\endfloat
7458 \newlength{\@biditytfloat@caption@vertical@offset}
7459 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
7460 \newcommand{\@biditytfloat@stored@shortcaption}{ }
7461 \newcommand{\@biditytfloat@stored@caption}{ }
7462 \newcommand{\@biditytfloat@stored@label}{ }
7463 \long\def\@biditytfloat@caption[#1][#2]#3{%
7464   \ifthenelse{\isempty{#1}}%
7465     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
7466     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
7467   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to
7468   \gdef\@biditytfloat@stored@caption{#3}%
7469 }
7470 \newcommand{\@biditytfloat@label}[1]{%
7471   \gdef\@biditytfloat@stored@label{#1}%
7472 }
7473 \newcommand{\@biditytfloat@fps}{ }
7474 \newboolean{\@biditytfloat@float@star}
7475 \newlength{\@biditytfloat@float@contents@width}
7476 \newenvironment{\@biditytfloat@float}[3][htbp]%
7477 {% begin \@biditytfloat@float
7478   % Should this float be full-width or just text-width?
7479   \ifthenelse{\equal{#3}{star}}%
7480     {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
7481     {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
7482   % Check page side (recto/verso) and store detected value -- can be overridden in environ
7483   \@biditytfloat@checkoddpage%
7484   \ifthenelse{\boolean{\@biditytfloat@odd@page}}%
7485     {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug{Det
7486     {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug{De
7487   % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-page
7488   \renewcommand{\@biditytfloat@fps}{#1}%
7489   \@biditytfloat@float@debug{Allowed positions: [ #1 ]}%
7490   \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7491     {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bo
7492     {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [to
7493   % Capture the contents of the \caption and \label commands to use later
7494   \global\let\@biditytfloat@orig@caption\caption%
7495   \global\let\@biditytfloat@orig@label\label%
7496   \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[ ] [Opt]}}%
7497   \renewcommand{\label}[1]{\@biditytfloat@label{#1}}%
7498   % Handle subfigure package compatibility
7499   \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7500     \bidi@patchcmd{\subfigure}{%
7501       \let\subfig@oldlabel=\label
7502     }{%
7503       \let\subfig@oldlabel=\@biditytfloat@orig@label
7504     }
7505   }
7506   {}
7507   \let\subtable=\subfigure
7508 }{}% subfigure package is not loaded
7509 \@biditytfloat@orig@float{#2}[#1]%
7510 \ifthenelse{\boolean{\@biditytfloat@float@star}}%

```



```

7511     {\setlength{\@bituftefloat@float@contents@width}{\@bituftefloat@fullwidth}}%
7512     {\setlength{\@bituftefloat@float@contents@width}{\textwidth}}%
7513     \begin{lrbox}{\@bituftefloat@figure@box}%
7514     \begin{minipage}[\floatalignment]{\@bituftefloat@float@contents@width}\hbox{%
7515 }{% end @bituftefloat@float
7516     \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}%
7517     \end{minipage}%
7518     \end{lrbox}%
7519     % build the caption box
7520     \begin{lrbox}{\@bituftefloat@caption@box}%
7521     \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7522     \ifthenelse{\NOT\equal{\@bituftefloat@stored@caption}}{\@bituftefloat@orig@ca
7523     \ifthenelse{\NOT\equal{\@bituftefloat@stored@label}}{\@bituftefloat@orig@labe
7524     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7525     \end{minipage}%
7526     \end{lrbox}%
7527     % now typeset the stored boxes
7528     \begin{fullwidth}%
7529     \begin{minipage}[\floatalignment]{\linewidth}%
7530     \ifthenelse{\boolean{\@bituftefloat@float@star}}%
7531     {\@bituftefloat@float@fullwidth[\@bituftefloat@caption@vertical@offset]{\@bid
7532     {\@bituftefloat@float@textwidth[\@bituftefloat@caption@vertical@offset]{\@bid
7533     \end{minipage}%
7534     \end{fullwidth}%
7535     \@bituftefloat@orig@endfloat% end original LaTeX float environment
7536     % output debug info
7537     \ifthenelse{\boolean{\@bituftefloat@debug}}{%
7538     \typeout{^^J^^J----- bituftefloat package float information -----}%
7539     \ifthenelse{\equal{\@bituftefloat@stored@label}}{%
7540     {\typeout{Warning: Float unlabeled!}}%
7541     {\typeout{Float label: [\@bituftefloat@stored@label]}}%
7542     \typeout{Page number: [\thepage]}%
7543     \def\MessageBreak{^^J}%
7544     \typeout{\@bituftefloat@float@debug@info}%
7545     \ifthenelse{\boolean{\@bituftefloat@symmetric}}%
7546     {\typeout{Symmetric: [true]}}%
7547     {\typeout{Symmetric: [false]}}%
7548     \typeout{-----^^J^^J}%
7549     }{%
7550     % reset commands and temp boxes and captions
7551     \gdef\@bituftefloat@float@debug@info{}%
7552     \let\caption\@bituftefloat@orig@caption%
7553     \let\label\@bituftefloat@orig@label%
7554     \begin{lrbox}{\@bituftefloat@figure@box}\hbox{}\end{lrbox}%
7555     \begin{lrbox}{\@bituftefloat@caption@box}\hbox{}\end{lrbox}%
7556     \gdef\@bituftefloat@stored@shortcaption{}%
7557     \gdef\@bituftefloat@stored@caption{}%
7558     \gdef\@bituftefloat@stored@label{}%
7559     \gsetlength{\@bituftefloat@caption@vertical@offset}{0pt}% reset caption offset
7560     }
7561     \newcommand{\@bituftefloat@float@textwidth}[3][0pt]{%
7562     \ifthenelse{\NOT\boolean{\@bituftefloat@symmetric}}\OR\boolean{\@bituftefloat@float@rect
7563     % asymmetric or page is odd, so caption is on the right
7564     \hbox{%

```



```

7565     \usebox{#2}%
7566     \hspace{\marginparsep}%
7567     \smash{\raisebox{#1}{\usebox{#3}}}%
7568   }
7569   \@bituftefloat@float@debug{Caption position: [right]]%
7570 }{% symmetric pages and page is even, so caption is on the left
7571   \hbox{%
7572     \smash{\raisebox{#1}{\usebox{#3}}}%
7573     \hspace{\marginparsep}%
7574     \usebox{#2}%
7575   }
7576   \@bituftefloat@float@debug{Caption position: [left]]%
7577 }%
7578 }
7579 \newcommand{\@bituftefloat@float@fullwidth}[3][Opt]{%
7580   \ifthenelse{\equal{\floatalignment}{b}}{%
7581     {% place caption above figure
7582       \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@
7583         {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@bituftefloat@float@debu
7584         {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@bituftefloat@float@debu
7585     }{% place caption below figure
7586       \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@
7587         {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@bituftefloat@float@debu
7588         {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@bituftefloat@float@debu
7589     }%
7590   }
7591 \renewenvironment{figure}[1][htbp]{%
7592   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{}}
7593   {\end{@bituftefloat@float}}
7594 \renewenvironment{table}[1][htbp]{%
7595   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{}}
7596   {\end{@bituftefloat@float}}
7597 \renewenvironment{figure*}[1][htbp]{%
7598   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{star}}
7599   {\end{@bituftefloat@float}}
7600 \renewenvironment{table*}[1][htbp]{%
7601   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{star}}
7602   {\end{@bituftefloat@float}}
7603 \newenvironment{fullwidth}{%
7604   {\ifthenelse{\boolean{@bituftefloat@symmetric}}{%
7605     {\ifthenelse{\boolean{@bituftefloat@changepage}}{\begin{adjustwidth*}}{-\@bituftef
7606     {\begin{adjustwidth}}{-\@bituftefloat@overhang}}%
7607   }%
7608   {\ifthenelse{\boolean{@bituftefloat@symmetric}}{%
7609     {\ifthenelse{\boolean{@bituftefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth
7610     {\end{adjustwidth}}}%
7611   }
7612 \long\def\@caption#1[#2]#3{%
7613   \par%
7614   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7615     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7616   \begingroup%
7617     \@parboxrestore%
7618     \if@minipage%

```



```

7619     \@setminipage%
7620     \fi%
7621     \@bituftefloat@caption@font\@bituftefloat@caption@justification%
7622     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7623     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7624     \endgroup}
7625 %%
7626 % Turns newlines into spaces. Based on code from the `titlesec' package.
7627 \DeclareRobustCommand{\@bitufteheading@newlinetospace}{%
7628   \@ifstar{\@bitufteheading@newlinetospace@i}{\@bitufteheading@newlinetospace@i}%
7629 }
7630 \def\@bitufteheading@newlinetospace@i{%
7631   \ifdim\lastskip>\z@\else\space\fi
7632   \ignorespaces%
7633 }
7634 \DeclareRobustCommand{\newlinetospace}[1]{%
7635   \let\@bitufteheading@orig@cr\\% save the original meaning of \\
7636   \def\\{\@bitufteheading@newlinetospace}% turn \\ and \\* into \space
7637   \let\newline\\% turn \newline into \space
7638   #1%
7639   \let\\\\@bitufteheading@orig@cr% revert to original meaning of \\
7640 }
7641 \RequirePackage{fancyhdr}
7642 \pagestyle{fancy}
7643 \AtBeginDocument{%
7644   \ifthenelse{\boolean{@bituftefloat@symmetric}}{
7645     {\fancyhfoffset[LE,RO]{\@bituftefloat@overhang}}{
7646     {\fancyhfoffset[RE,RO]{\@bituftefloat@overhang}}
7647 }
7648 % The running heads/feet don't have rules
7649 \renewcommand{\headrulewidth}{0pt}
7650 \renewcommand{\footrulewidth}{0pt}
7651 % The 'fancy' page style is the default style for all pages.
7652 \fancyhf{} % clear header and footer fields
7653   \ifthenelse{\boolean{@bituftefloat@symmetric}}{
7654     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7655     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7656     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7657 % The `plain' page style is used on chapter opening pages.
7658 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7659 % bottom of pages -- the folios are unexpressed.
7660 \fancypagestyle{plain}{
7661   \fancyhf{} % clear header and footer fields
7662   % Uncomment the following five lines of code if you want the opening page
7663   % of the chapter to express the folio in the lower outside corner.
7664   % \ifthenelse{\boolean{@bituftefloat@symmetric}}{
7665   %   {\fancyfoot[LE,RO]{\thepage}}{
7666   %   {\fancyfoot[RE,RO]{\thepage}}
7667 }
7668 % The `empty' page style suppresses all headers and footers.
7669 % It's used on title pages and `intentionally blank' pages.
7670 \fancypagestyle{empty}{
7671   \fancyhf{} % clear header and footer fields
7672 }

```



```

7673 \def\morefloats{% provides a total of 52 floats
7674 \ifthenelse{\isundefined{\bx@S}}{%
7675 \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7676 \newinsert\bx@S
7677 \newinsert\bx@T
7678 \newinsert\bx@U
7679 \newinsert\bx@V
7680 \newinsert\bx@W
7681 \newinsert\bx@X
7682 \newinsert\bx@Y
7683 \newinsert\bx@Z
7684 \newinsert\bx@a
7685 \newinsert\bx@b
7686 \newinsert\bx@c
7687 \newinsert\bx@d
7688 \newinsert\bx@e
7689 \newinsert\bx@f
7690 \newinsert\bx@g
7691 \newinsert\bx@h
7692 \newinsert\bx@i
7693 \newinsert\bx@j
7694 \newinsert\bx@k
7695 \newinsert\bx@l
7696 \newinsert\bx@m
7697 \newinsert\bx@n
7698 \newinsert\bx@o
7699 \newinsert\bx@p
7700 \newinsert\bx@q
7701 \newinsert\bx@r
7702 \newinsert\bx@s
7703 \newinsert\bx@t
7704 \newinsert\bx@u
7705 \newinsert\bx@v
7706 \newinsert\bx@w
7707 \newinsert\bx@x
7708 \newinsert\bx@y
7709 \newinsert\bx@z
7710 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7711 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7712 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7713 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7714 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7715 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7716 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7717 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7718 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7719 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7720 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7721 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7722 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7723 \ifthenelse{\isundefined{\bx@AA}}{%
7724 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7725 \newinsert\bx@AA
7726 \newinsert\bx@BB

```




```

7727 \newinsert\bx@CC
7728 \newinsert\bx@DD
7729 \newinsert\bx@EE
7730 \newinsert\bx@FF
7731 \newinsert\bx@GG
7732 \newinsert\bx@HH
7733 \newinsert\bx@II
7734 \newinsert\bx@JJ
7735 \newinsert\bx@KK
7736 \newinsert\bx@LL
7737 \newinsert\bx@MM
7738 \newinsert\bx@NN
7739 \newinsert\bx@OO
7740 \newinsert\bx@PP
7741 \newinsert\bx@QQ
7742 \newinsert\bx@RR
7743 \newinsert\bx@SS
7744 \newinsert\bx@TT
7745 \newinsert\bx@UU
7746 \newinsert\bx@VV
7747 \newinsert\bx@WW
7748 \newinsert\bx@XX
7749 \newinsert\bx@YY
7750 \newinsert\bx@ZZ
7751 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7752 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7753 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7754 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7755 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7756 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7757 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7758 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7759 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7760 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7761 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7762 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7763 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7764 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7765 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7766 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7767 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7768 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7769 }{%
7770 \bidituftefloatError{You may only call \string\morefloats\space twice. See the\Messag
7771 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space o
7772 }%
7773 }%
7774 }
7775 \newboolean{@bidituftefloat@packages@subfigure}
7776 \setboolean{@bidituftefloat@packages@subfigure}{false}
7777 \AtBeginDocument{%
7778 \@ifpackageloaded{subfigure}
7779 {\GlobalSetBoolean{@bidituftefloat@packages@subfigure}{true}}
7780 {\GlobalSetBoolean{@bidituftefloat@packages@subfigure}{false}}}%

```




```

7781 }
7782 \AtBeginDocument{%
7783   \@ifpackageloaded{float}{%
7784     % Save the redefined float environment (instead of the LaTeX float environment)
7785     \let\@bittuftefloat@orig@float\@float
7786     \let\@bittuftefloat@orig@endfloat\end@float
7787
7788     % Define Tuftian float styles (with the caption in the margin)
7789     \newcommand{\floatc@bittuftefloatplain}[2]{%
7790       \begin{lrbox}{\@bittuftefloat@caption@box}%
7791         \begin{minipage}[floatalignment]{\marginparwidth}\hbox{%
7792           \@bittuftefloat@caption@font{\@fs@cfont #1:} #2\par%
7793         }\end{minipage}%
7794       \end{lrbox}%
7795       \smash{\hspace{\@bittuftefloat@caption@fill}}\usebox{\@bittuftefloat@caption@box}}%
7796   }
7797   \newcommand{\fs@bittuftefloatplain}{%
7798     \def\@fs@cfont{\@bittuftefloat@caption@font}%
7799     \let\@fs@capt\floatc@bittuftefloatplain%
7800     \def\@fs@pre{}%
7801     \def\@fs@post{}%
7802     \def\@fs@mid{}%
7803     \let\@fs@iftopcapt\iftrue%
7804   }
7805   \let\fs@bittuftefloatplaintop=\fs@bittuftefloatplain
7806   \let\floatc@bittuftefloatplaintop=\floatc@bittuftefloatplain
7807   \newcommand\floatc@bittuftefloatruled[2]{%
7808     {\@fs@cfont #1} #2\par%
7809   }
7810   \newcommand\fs@bittuftefloatruled{%
7811     \def\@fs@cfont{\@bittuftefloat@caption@font}%
7812     \let\@fs@capt\floatc@bittuftefloatplain%
7813     \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7814     \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7815     \def\@fs@mid{}%
7816     \let\@fs@iftopcapt\iftrue%
7817   }
7818   \newcommand\fs@bittuftefloatboxed{%
7819     \def\@fs@cfont{}%
7820     \let\@fs@capt\floatc@bittuftefloatplain%
7821     \def\@fs@pre{%
7822       \setbox\@currbox\vbox{\hbadness10000
7823         \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7824           \hrule \hbox to\hsize{\vrule\kern3pt
7825             \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7826     }%
7827     \def\@fs@mid{\kern2pt}%
7828     \def\@fs@post{}%
7829     \let\@fs@iftopcapt\iftrue%
7830   }
7831 }{%
7832   % Nothing to do
7833 }
7834 }

```



```

7835 \AtBeginDocument{%
7836   \@ifpackageloaded{algorithm}{%
7837     % Set the float style to the Tufte version
7838     \ifthenelse{equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG@floatstyle}{list}}{}{
7839       \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to \TufteFloatStyle}%
7840       \floatstyle{\TufteFloatStyle}%
7841       \restylefloat{algorithm}%
7842     }{}%
7843   }{%
7844     % Nothing to do
7845   }
7846 }
7847 \PassOptionsToPackage{caption=false}{subfig}

```

54 File bidituftesidenote.sty

```

7848 \NeedsTeXFormat{LaTeX2e}
7849 \ProvidesPackage{bidiuftesidenote}[2017/08/09 v0.4
7850 bidi implementation of tufte sidenote]
7851 \RequirePackage{xifthen}
7852 \RequirePackage{ragged2e}
7853 \RequirePackage{setspace}
7854 \RequirePackage{bidiutols}
7855 \def\bidiuftesidenotemarginpar{%
7856   \ifhmode
7857     \@bsphack
7858     \@floatpenalty -\@Mii
7859   \else
7860     \@floatpenalty-\@Miii
7861   \fi
7862   \ifinner
7863     \@parmoderr
7864     \@floatpenalty\z@
7865   \else
7866     \@next\@currbox\@freelist{}{}%
7867     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7868     {\@floatpenalty\z@
7869       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7870   \fi
7871   \@ifnextchar [\@bidiuftesidenotexmpar\@bidiuftesidenoteympar}
7872 \long\def\@bidiuftesidenotexmpar[#1]#2{%
7873   \@bidiuftesidenotesavemarbox\@marbox{#1}%
7874   \@bidiuftesidenotesavemarbox\@currbox{#2}%
7875   \@xympar}
7876 \long\def\@bidiuftesidenoteympar#1{%
7877   \@bidiuftesidenotesavemarbox\@marbox{#1}%
7878   \global\setbox\@currbox\copy\@marbox
7879   \@xympar}
7880 \long\def \@bidiuftesidenotesavemarbox #1#2{%
7881   \global\setbox #1%
7882     \color@vbox
7883     \vtop{%
7884       \hsize\marginparwidth
7885       \@parboxrestore

```



```

7886         \@bidityftesidenotemarginparreset
7887         #2%
7888         \@minipagefalse
7889         \outer@nobreak
7890         }%
7891     \color@endbox
7892 }
7893 \def \@bidityftesidenotemarginparreset {%
7894     \reset@font
7895     \normalsize
7896     \@minipagetrue
7897     \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7898 }
7899 \def\LTRbidityftesidenotemarginpar{%
7900     \ifhmode
7901         \@bsphack
7902         \@floatpenalty -\@Mii
7903     \else
7904         \@floatpenalty-\@Miii
7905     \fi
7906     \ifinner
7907         \@parmoderr
7908         \@floatpenalty\z@
7909     \else
7910         \@next\@currbox\@freelist{}{}%
7911         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7912         {\@floatpenalty\z@
7913             \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7914     \fi
7915     \@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7916 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7917     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7918     \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7919     \@xympar}
7920 \long\def\@LTRbidityftesidenoteympar#1{%
7921     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7922     \global\setbox\@currbox\copy\@marbox
7923     \@xympar}
7924 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7925     \global\setbox #1%
7926         \color@vbox
7927         \vtop{%
7928             \hsize\marginparwidth
7929             \@parboxrestore
7930             \@LTRbidityftesidenotemarginparreset
7931             #2%
7932             \@minipagefalse
7933             \outer@nobreak
7934             }%
7935     \color@endbox
7936 }
7937 \def \@LTRbidityftesidenotemarginparreset {%
7938     \reset@font
7939     \normalsize

```



```

7940         \@minipagetrue
7941         \everypar{\@minipagefalse\everypar{}\beginL}%
7942 }
7943 \def\RTLbidityftesidenotemarginpar{%
7944   \ifhmode
7945     \@bsphack
7946     \@floatpenalty -\@Mii
7947   \else
7948     \@floatpenalty-\@Miii
7949   \fi
7950   \ifinner
7951     \@parmoderr
7952     \@floatpenalty\z@
7953   \else
7954     \@next\@currbox\@freelist{}\{}%
7955     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7956     {\@floatpenalty\z@
7957       \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7958   \fi
7959   \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteypar}
7960 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7961   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7962   \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7963   \@xympar}
7964 \long\def\@RTLbidityftesidenoteypar#1{%
7965   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7966   \global\setbox\@currbox\copy\@marbox
7967   \@xympar}
7968 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7969   \global\setbox #1%
7970     \color@vbox
7971     \vtop{%
7972       \hsize\marginparwidth
7973       \@parboxrestore
7974       \@RTLbidityftesidenotemarginparreset
7975       #2%
7976       \@minipagefalse
7977       \outer@nobreak
7978     }%
7979   \color@endbox
7980 }
7981 \def \@RTLbidityftesidenotemarginparreset {%
7982   \reset@font
7983   \normalsize
7984   \@minipagetrue
7985   \everypar{\@minipagefalse\everypar{}\beginR}%
7986 }
7987 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7988 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7989 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7990 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}
7991 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7992 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7993 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}

```



```

7994 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7995 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}
7996 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7997 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7998 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
7999 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
8000 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
8001 \newcommand*{\setRTLsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLsidenote@font}{#1}}
8002 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
8003 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
8004 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
8005 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
8006 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
8007 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{#1}}
8008 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@normal}
8009 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@normal}
8010 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@normal}
8011 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
8012 \newcommand{\@bidityftesidenote@margin@par}{%
8013   \setlength{\RaggedRightParindent}{0.5pc}%
8014   \setlength{\JustifyingParindent}{0.5pc}%
8015   \setlength{\parindent}{0.5pc}%
8016   \setlength{\parskip}{0pt}%
8017 }
8018 %%
8019 % Globally sets the length
8020 \ifundefined{gsetlength}{%
8021 \newcommand*{gsetlength}[2]{%
8022   \setlength{#1}{#2}%
8023   \global#1=#1\relax%
8024 }%
8025 }{}
8026
8027 %%
8028 % A function that removes leading and trailing spaces from the supplied macro.
8029 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
8030 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
8031 % being trimmed of leading and trailing white space.
8032 \catcode`\Q=3
8033 \def\@bidityftesidenote@trim@spaces#1{%
8034   % Use grouping to emulate a multi-token afterassignment queue
8035   \begingroup%
8036   % Put ``\toks 0 {' into the afterassignment queue
8037   \aftergroup\toks\aftergroup0\aftergroup{%
8038     % Apply \trimb to the replacement text of #1, adding a leading
8039     % \noexpand to prevent brace stripping and to serve another purpose
8040     % later.
8041     \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8042   % Transfer the trimmed text back into #1.
8043   \edef#1{\the\toks0}%
8044 }
8045 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8046 % clean up any leftover bizarre Qs, and trim a leading space. In
8047 % order for \trimc to work properly we need to put back a Q first.

```



```

8048 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8049 % Execute \vfuzz assignment to remove leading space; the \noexpand
8050 % will now prevent unwanted expansion of a macro or other expandable
8051 % token at the beginning of the trimmed text. The \endgroup will feed
8052 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8053 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8054 \catcode`\Q=11
8055 %%
8056 % Citations should go in the margin as sidenotes
8057
8058 \RequirePackage{natbib}
8059 \RequirePackage{bibentry} % allows bibitems to be typeset outside the bibliography en
8060 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8061 \renewcommand\BR@b@bibitem[2] []{%
8062   \ifthenelse{\isempty{#1}}{%
8063     {\BR@bibitem{#2}}%
8064     {\BR@bibitem{#1}{#2}}%
8065   \BR@c@bibitem{#2}%
8066 }
8067 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8068 %%
8069 % Normal \cite behavior
8070 \newcounter{@bidityftesidenote@num@bibkeys}%
8071 \newcommand{\@bidityftesidenote@normal@cite}[2] [Opt]{%
8072   % Snag the last bibentry in the list for later comparison
8073   \let\@temp@last@bibkey\@empty%
8074   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8075   \sidenote[] [1]{%
8076     % Loop through all the bibentries, separating them with semicolons and spaces
8077     \normalsize\normalfont\@bidityftesidenote@citation@font%
8078     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8079     \@for\@temp@bibkeyx:=#2\do{%
8080       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8081       {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8082       \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8083       \bibentry{\@temp@bibkeyx}}%
8084       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8085       \bibentry{\@temp@bibkeyx};\ }%
8086     \stepcounter{@bidityftesidenote@num@bibkeys}%
8087   }%
8088 }%
8089 }
8090 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2] [Opt]{%
8091   % Snag the last bibentry in the list for later comparison
8092   \let\@temp@last@bibkey\@empty%
8093   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8094   \LTRsidenote[] [1]{%
8095     % Loop through all the bibentries, separating them with semicolons and spaces
8096     \normalsize\normalfont\@bidityftesidenote@LTRcitation@font%
8097     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8098     \@for\@temp@bibkeyx:=#2\do{%
8099       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8100       {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8101       \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey

```



```

8102         \bibentry{\@temp@bibkeyx}}%
8103         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8104         \bibentry{\@temp@bibkeyx};\ }%
8105         \stepcounter{\@bidityftesidenote@num@bibkeys}%
8106     }%
8107 }%
8108 }
8109 \newcommand{\@bidityfteRTLsidenote@normal@cite}[2][Opt]{%
8110     % Snag the last bibentry in the list for later comparison
8111     \let\@temp@last@bibkey\@empty%
8112     \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8113     \RTLsidenote[] [#1]{%
8114         % Loop through all the bibentries, separating them with semicolons and spaces
8115         \normalsize\normalfont\@bidityftesidenote@citation@font%
8116         \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8117         \@for\@temp@bibkeyx:=#2\do{%
8118             \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8119             {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8120             \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8121             \bibentry{\@temp@bibkeyx}}%
8122             {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8123             \bibentry{\@temp@bibkeyx};\ }%
8124             \stepcounter{\@bidityftesidenote@num@bibkeys}%
8125         }%
8126     }%
8127 }
8128 %%
8129 % Macros for holding the list of cite keys until after the \sidenote
8130 \gdef\@bidityftesidenote@citations{}% list of cite keys
8131 \newcommand{\@bidityftesidenote@add@citation}[1]{\relax% adds a new bibkey to the list of cit
8132     \ifx\@bidityftesidenote@citations\@empty\else
8133         \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
8134     \fi
8135     \g@addto@macro\@bidityftesidenote@citations{#1}
8136 }
8137 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin n
8138     % Snag the last bibentry in the list for later comparison
8139     \let\@temp@last@bibkey\@empty%
8140     \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}
8141     \marginpar{%
8142         \hbox{\vspace*{#1}}%
8143         \@bidityftesidenote@citation@font%
8144         \@bidityftesidenote@citation@justification%
8145         \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8146         \vspace*{-1\baselineskip}%
8147         % Loop through all the bibentries, separating them with semicolons and spaces
8148         \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8149         \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8150             \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
8151             {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8152             \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8153             \bibentry{\@temp@bibkeyx}}%
8154             {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8155             \bibentry{\@temp@bibkeyx};\ }%

```



```

8156     \stepcounter{@biditytesidenote@num@bibkeys}%
8157   }%
8158 }%
8159 }
8160 %%
8161 % \cite behavior when executed within a sidenote
8162 \newcommand{@biditytesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8163 \newcommand{@biditytesidenote@infootnote@cite}[1]{%
8164   \@biditytesidenote@add@citation{#1}
8165 }
8166 %%
8167 % Set the default \cite style. This is set and reset by the \sidenote command.
8168 \let\cite\@biditytesidenote@normal@cite
8169 \let\LTRcite\@bidityteLTRsidenote@normal@cite
8170 \let\RTLcite\@bidityteRTLsidenote@normal@cite
8171 %%
8172 % Transform existing \footnotes into \sidenotes
8173 % Sidenote: ``Where God meant footnotes to go.''' ---biditytesidenote
8174 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arg
8175 \providecommand{\footnotelayout}{@biditytesidenote@sidenote@font\@biditytesidenote@sidenote}
8176 \renewcommand{\footnotelayout}{@biditytesidenote@sidenote@font\@biditytesidenote@sidenote}
8177 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8178 % sidenote's text block.
8179 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@biditytesidenote}
8180 % Set the in-text footnote mark in the same typeface as the body text itself.
8181 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnot
8182 \providecommand*\multiplefootnotemarker}{3sp}
8183 \providecommand*\multfootsep}{,}
8184 \bidi@patch@AfterPackage{bidi}{%
8185 \renewcommand{\@footnotemark}{%
8186   \leavevmode%
8187   \ifhmode%
8188     \edef\@x@sf{\the\spacefactor}%
8189     \@biditytesidenote@check@multiple@sidenotes%
8190     \nobreak%
8191     \fi%
8192     \@makefnmark%
8193     \ifhmode\spacefactor\@x@sf\fi%
8194     \relax%
8195 }%
8196 }
8197 \newcommand{@biditytesidenote@check@multiple@sidenotes}{%
8198   \ifdim\lastkern=\multiplefootnotemarker\relax%
8199     \edef\@x@sf{\the\spacefactor}%
8200     \unkern%
8201     \textsuperscript{\multfootsep}%
8202     \spacefactor\@x@sf\relax%
8203     \fi
8204 }
8205 \bidi@patch@AfterPackage{bidi}{%
8206 \renewcommand\@footnotetext[2][Opt]{%
8207   \biditytesidenotemarginpar{%
8208     \hbox{} \vspace*{#1}%
8209     \def\baselinestretch {\setspace@singlespace}%

```




```

8210 \reset@font%
8211 \bidi@@footnotetext@font% \reset@font\footnotesize%
8212 \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8213 \vspace*{-1\baselineskip}\noindent%
8214 \protected@edef\@currentlabel{%
8215     \csname p@footnote\endcsname\@thefnmark%
8216 }%
8217 \color@begingroup%
8218     \@makefntext{%
8219         \ignorespaces#2%
8220     }%
8221 \color@endgroup%
8222 }%
8223 }%
8224 \renewcommand\LTRfootnotetext[2][Opt]{%
8225     \LTRbidiuftesidenotemarginpar{%
8226         \hbox{}\vspace*{#1}%
8227         \def\baselinestretch {\setspace@singlespace}%
8228         \reset@font%
8229         \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
8230         \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8231         \vspace*{-1\baselineskip}\noindent%
8232         \protected@edef\@currentlabel{%
8233             \csname p@footnote\endcsname\@thefnmark%
8234         }%
8235         \color@begingroup%
8236             \@makefntext{%
8237                 \ignorespaces#2%
8238             }%
8239         \color@endgroup%
8240     }%
8241 }%
8242 \renewcommand\RTLfootnotetext[2][Opt]{%
8243     \RTLbidiuftesidenotemarginpar{%
8244         \hbox{}\vspace*{#1}%
8245         \def\baselinestretch {\setspace@singlespace}%
8246         \reset@font%
8247         \bidi@@RTLfootnotetext@font% \reset@font\footnotesize%
8248         \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
8249         \vspace*{-1\baselineskip}\noindent%
8250         \protected@edef\@currentlabel{%
8251             \csname p@footnote\endcsname\@thefnmark%
8252         }%
8253         \color@begingroup%
8254             \@makefntext{%
8255                 \ignorespaces#2%
8256             }%
8257         \color@endgroup%
8258     }%
8259 }%
8260 }
8261 %
8262 % Define \sidenote command. Can handle \cite.
8263 \newlength{\@bidiuftesidenote@sidenote@vertical@offset}

```



```

8264 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8265 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8266 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8267   \let\cite\@bidityftesidenote@infootnote@cite%    use the in-sidenote \cite command
8268   \gdef\@bidityftesidenote@citations{}%            clear out any old citations
8269   \ifthenelse{\NOT\isempty{#2}}{%
8270     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8271   }{%
8272     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8273   }%
8274   \ifthenelse{\isempty{#1}}{%
8275     % no specific footnote number provided
8276     \stepcounter\@mpfn%
8277     \protected@xdef\@thefnmark{\thempfn}%
8278     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8279   }{%
8280     % specific footnote number provided
8281     \begingroup%
8282       \csname c@\@mpfn\endcsname #1\relax%
8283       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8284     \endgroup%
8285     \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8286   }%
8287   \@bidityftesidenote@print@citations%              print any citations
8288   \let\cite\@bidityftesidenote@normal@cite%         go back to using normal in-text \cite com
8289   \let\LTRcite\@bidityftelTRSidenote@normal@cite%   go back to using normal in-text \LT
8290   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%   go back to using normal in-text \RT
8291   \unskip\ignorespaces%                             remove extra white space
8292   \kern-\multiplefootnotemarker%                    remove \kern left behind by sidenote
8293   \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8294 }
8295 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8296   \let\cite\@bidityftesidenote@infootnote@cite%    use the in-sidenote \cite command
8297   \gdef\@bidityftesidenote@citations{}%            clear out any old citations
8298   \ifthenelse{\NOT\isempty{#2}}{%
8299     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8300   }{%
8301     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8302   }%
8303   \ifthenelse{\isempty{#1}}{%
8304     % no specific footnote number provided
8305     \stepcounter\@mpfn%
8306     \protected@xdef\@thefnmark{\thempfn}%
8307     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8308   }{%
8309     % specific footnote number provided
8310     \begingroup%
8311       \csname c@\@mpfn\endcsname #1\relax%
8312       \unrestored@protected@xdef\@thefnmark{\thempfn}%
8313     \endgroup%
8314     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8315   }%
8316   \@bidityftesidenote@print@citations%              print any citations
8317   \let\cite\@bidityftesidenote@normal@cite%         go back to using normal in-text \cite com

```



```

8318 \let\LTRcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \LT
8319 \let\RTLcite\@bidityftesidenote@normal@cite%      go back to using normal in-text \RT
8320 \unskip\ignorespaces%                               remove extra white space
8321 \kern-\multiplefootnotemarker%                     remove \kern left behind by sidenote
8322 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8323 }
8324 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8325 \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8326 \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8327 \ifthenelse{\NOT\isempty{#2}}{%
8328 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8329 }{%
8330 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8331 }%
8332 \ifthenelse{\isempty{#1}}{%
8333 % no specific footnote number provided
8334 \stepcounter\@mpfn%
8335 \protected@xdef\@thefnmark{\thempfn}%
8336 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8337 }{%
8338 % specific footnote number provided
8339 \begingroup%
8340 \csname c@\@mpfn\endcsname #1\relax%
8341 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8342 \endgroup%
8343 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8344 }%
8345 \@bidityftesidenote@print@citations%                print any citations
8346 \let\cite\@bidityftesidenote@normal@cite%          go back to using normal in-text \cite com
8347 \let\LTRcite\@bidityftesidenote@normal@cite%       go back to using normal in-text \LT
8348 \let\RTLcite\@bidityftesidenote@normal@cite%       go back to using normal in-text \RT
8349 \unskip\ignorespaces%                               remove extra white space
8350 \kern-\multiplefootnotemarker%                     remove \kern left behind by sidenote
8351 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8352 }
8353 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8354 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
8355 \newcommand{\RTLSidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8356 \bidi@patch@AfterPackage{bidi}{%
8357 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8358 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8359 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8360 }
8361 %%
8362 % Sidenote without the footnote mark
8363 \newcommand\marginnote[2][Opt]{%
8364 \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
8365 \gdef\@bidityftesidenote@citations{}%              clear out any old citations
8366 \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidity
8367 \@bidityftesidenote@print@citations%                print any citations
8368 \let\cite\@bidityftesidenote@normal@cite%          go back to using normal in-text \cite com
8369 \let\LTRcite\@bidityftesidenote@normal@cite%       go back to using normal in-text \LT
8370 \let\RTLcite\@bidityftesidenote@normal@cite%       go back to using normal in-text \RT
8371 }

```



```

8372 \newcommand\LTRmarginnote[2][Opt]{%
8373   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8374   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8375   \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\
8376   \@bidityftesidenote@print@citations%            print any citations
8377   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite com
8378   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8379   \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8380 }
8381 \newcommand\RTLmarginnote[2][Opt]{%
8382   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8383   \gdef\@bidityftesidenote@citations{}%          clear out any old citations
8384   \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\
8385   \@bidityftesidenote@print@citations%            print any citations
8386   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite com
8387   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LT
8388   \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RT
8389 }

```

55 File bidityftetoc.sty

```

8390 \NeedsTeXFormat{LaTeX2e}
8391 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8392 bidi implementation of tufte toc]
8393 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8394 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8395 \newcommand{\bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8396 %%
8397 % Turn off section numbering
8398 \setcounter{secnumdepth}{-1}
8399 \newboolean{\@bidityftetoc@toc}
8400 \setboolean{\@bidityftetoc@toc}{true}
8401 \DeclareOption{notoc}{\setboolean{\@bidityftetoc@toc}{false}}
8402 \DeclareOption{toc}{\setboolean{\@bidityftetoc@toc}{true}}
8403 \ProcessOptions
8404 %%
8405 % Make Tuftean-style section headings and TOC formatting
8406 \bidi@patch@AfterPackage{bidi}{%
8407   \titleformat{\chapter}%
8408     [display]% shape
8409     {\relax\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8410     {\itshape\huge\thechapter}% label
8411     {0pt}% horizontal separation between label and title body
8412     {\huge\rmfamily\itshape}% before the title body
8413     [\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the titl
8414   \titleformat{\section}%
8415     [hang]% shape
8416     {\normalfont\Large\itshape}% format applied to label+text
8417     {\thesection}% label
8418     {1em}% horizontal separation between label and title body
8419     {}% before the title body
8420     []% after the title body
8421   \titleformat{\subsection}%
8422     [hang]% shape

```



```

8423 {\normalfont\large\itshape}% format applied to label+text
8424 {\thesubsection}% label
8425 {1em}% horizontal separation between label and title body
8426 {}% before the title body
8427 []% after the title body
8428 \titleformat{\paragraph}%
8429 [runin]% shape
8430 {\normalfont\itshape}% format applied to label+text
8431 {\theparagraph}% label
8432 {1em}% horizontal separation between label and title body
8433 {}% before the title body
8434 []% after the title body
8435 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8436 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8437 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8438 }
8439 % Subsubsection and following section headings shouldn't be used.
8440 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8441 \renewcommand\subsubsection{%
8442   \bidityftetocError{\noexpand\subsubsection is undefined by this class.%
8443     \MessageBreak See Robert Bringhurst's _The Elements of
8444     \MessageBreak Typographic Style_, section 4.2.2.
8445     \MessageBreak \noexpand\subsubsection was used}
8446   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8447     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the
8448     \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8449 }
8450 \renewcommand\subparagraph{%
8451   \bidityftetocError{\noexpand\subparagraph is undefined by this class.%
8452     \MessageBreak See Robert Bringhurst's _The Elements of
8453     \MessageBreak Typographic Style_, section 4.2.2.
8454     \MessageBreak \noexpand\subparagraph was used}
8455   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8456     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the
8457     \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8458 }
8459 % Formatting for main TOC (printed in front matter)
8460 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8461 \ifthenelse{\boolean{@bidityftetoc@toc}}{%
8462   \bidi@patch@AfterPackage{bidi}{%
8463     \titlecontents{part}% FIXME
8464     [0em] % distance from left margin
8465     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global for
8466     {\contentslabel{2em}} % before w/label (label = ``II'')
8467     {} % before w/o label
8468     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8469     [\end{fullwidth}] % after
8470     \titlecontents{chapter}%
8471     [0em] % distance from left margin
8472     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global for
8473     {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8474     {\hspace*{0em}} % before w/o label
8475     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8476     [\end{fullwidth}] % after

```



```

8477 \titlecontents{section}% FIXME
8478 [0em] % distance from left margin
8479 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global forma
8480 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8481 {\hspace*{2em}} % before w/o label
8482 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8483 [\end{fullwidth}] % after
8484 \titlecontents{subsection}% FIXME
8485 [0em] % distance from left margin
8486 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global forma
8487 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8488 {\hspace*{4em}} % before w/o label
8489 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8490 [\end{fullwidth}] % after
8491 \titlecontents{paragraph}% FIXME
8492 [0em] % distance from left margin
8493 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global
8494 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8495 {\hspace*{6em}} % before w/o label
8496 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8497 [\end{fullwidth}] % after
8498 }%
8499 }{}
8500 %%
8501 % Format lists of figures/tables
8502 \renewcommand\listoffigures{%
8503 \ifundefined{chapter}%
8504 {\section*{\listfigurename}}%
8505 {\chapter*{\listfigurename}}%
8506 % \begin{fullwidth}%
8507 % \@starttoc{lof}%
8508 % \end{fullwidth}%
8509 }
8510 \renewcommand\listoftables{%
8511 \ifundefined{chapter}%
8512 {\section*{\listtablename}}%
8513 {\chapter*{\listtablename}}%
8514 % \begin{fullwidth}%
8515 % \@starttoc{lot}%
8516 % \end{fullwidth}%
8517 }
8518 \newcommand{\@biditytetoc@lof@line}[2]{%
8519 % #1 is the figure/table number and its caption text
8520 % #2 is the page number on which the figure/table appears
8521 \leftskip 0.0em
8522 \rightskip 0em
8523 \parfillskip 0em plus 1fil
8524 \parindent 0.0em
8525 \@afterindenttrue
8526 \interlinepenalty \@M
8527 \leavevmode
8528 \@tempdima 2.0em
8529 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8530 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi

```



```

8531 {#1}\nobreak\qqquad\nobreak#2%
8532 \par%
8533 }
8534 \renewcommand*\l@figure{\@bidityfttoc@lof@line}
8535 \let\l@table\l@figure

```

56 File bidityftgeneralstructure.sty

```

8536 \NeedsTeXFormat{LaTeX2e}
8537 \ProvidesPackage{bidityftgeneralstructure}[2011/06/18 v0.1
8538 bidi implementation of tufte general structure]
8539 \renewcommand\small{%
8540   \@setfontsize\small\@ixpt{12}%
8541   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8542   \abovedisplayskip \z@ \@plus2\p@
8543   \belowdisplayskip 4\p@ \@plus2\p@ \@minus2\p@
8544   \def\@listi{\leftmargin\leftmargini
8545             \topsep 4\p@ \@plus2\p@ \@minus2\p@
8546             \parsep 2\p@ \@plus\p@ \@minus\p@
8547             \itemsep \parsep}%
8548   \belowdisplayskip \abovedisplayskip
8549 }
8550 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
8551 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8552 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8553 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8554 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8555 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8556 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8557 \setlength\leftmargini {1pc}
8558 \setlength\leftmarginii {1pc}
8559 \setlength\leftmarginiii {1pc}
8560 \setlength\leftmarginiv {1pc}
8561 \setlength\leftmarginv {1pc}
8562 \setlength\leftmarginvi {1pc}
8563 \setlength\labelsep {.5pc}
8564 \setlength\labelwidth {\leftmargini}
8565 \addtolength\labelwidth{-\labelsep}
8566 \setlength{\parindent}{1.0pc}%
8567 \setlength{\parskip}{0pt}%
8568 \RequirePackage{ragged2e}
8569 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8570 % Paragraph indentation and separation for normal text
8571 \newcommand{\@bidityftgeneralstructure@reset@par}{%
8572   \setlength{\RaggedRightParindent}{1.0pc}%
8573   \setlength{\JustifyingParindent}{1.0pc}%
8574   \setlength{\parindent}{1pc}%
8575   \setlength{\parskip}{0pt}%
8576 }
8577 \@bidityftgeneralstructure@reset@par
8578 % Require paralist package for tighter lists
8579 \RequirePackage{paralist}
8580 % Add rightmargin to compactenum
8581 \def\@compactenum{%

```




```

8582 \expandafter\list\csname label\@enumctr\endcsname{%
8583 \usecounter{\@enumctr}%
8584 \rightmargin=2em% added this
8585 \parsep\plparsep
8586 \itemsep\plitemsep
8587 \topsep\pltopsep
8588 \partopsep\plpartopsep
8589 \def\makelabel##1{\hss\llap{##1}}}}
8590 %%
8591 % An environment for paragraph-style section
8592 \providecommand\newthought[1]{%
8593 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8594 \noindent\textbf{#1}%
8595 }
8596 %%
8597 % Redefine the display environments (quote, quotation, etc.)
8598 \renewenvironment{verse}
8599 {\let\\@centercr
8600 \list{}\itemsep \z@
8601 \itemindent -1pc%
8602 \listparindent\itemindent
8603 \rightmargin \leftmargin
8604 \advance\leftmargin 1pc}%
8605 \small%
8606 \item\relax}
8607 {\endlist}
8608 \renewenvironment{quotation}
8609 {\list{}\listparindent 1pc%
8610 \itemindent \listparindent
8611 \rightmargin \leftmargin
8612 \parsep \z@ \@plus\p@}%
8613 \small%
8614 \item\relax\noindent\ignorespaces}
8615 {\endlist}
8616 \renewenvironment{quote}
8617 {\list{}\rightmargin\leftmargin}%
8618 \small%
8619 \item\relax}
8620 {\endlist}
8621 % Italicize description run-in headings (instead of the default bold)
8622 \renewcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8623 %%
8624 % Redefine \bibsection to not mark the running heads.
8625 % (Code modified from natbib.sty.)
8626 \@ifundefined{chapter}%
8627 {\renewcommand\bibsection{\section*{\refname}}}
8628 {\@ifundefined{NAT@sectionbib}%
8629 {\renewcommand\bibsection{\chapter{\bibname}}}
8630 {\renewcommand\bibsection{\section*{\bibname}}}}
8631 \RequirePackage{multicol}
8632 \renewenvironment{theindex}{%
8633 \@ifundefined{chapter}%
8634 {\section*{\indexname}}%
8635 {\chapter{\indexname}}%

```




```

8636 \begin{fullwidth}%
8637 \small%
8638 \parskip0pt%
8639 \parindent0pt%
8640 \let\item\@idxitem%
8641 \begin{multicols}{3}%
8642 }{%
8643 \end{multicols}%
8644 \end{fullwidth}%
8645 }
8646 \AtBeginDocument{%
8647 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8648 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8649 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8650 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8651 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

57 File `bidituftehyperref.sty`

```

8652 \NeedsTeXFormat{LaTeX2e}
8653 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8654 bidi implementation of tufte hyperref]
8655 %%
8656 % Color
8657 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8658 \newboolean{@bidituftehyperref@loadhyper}
8659 \setboolean{@bidituftehyperref@loadhyper}{true}
8660 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8661 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8662 \ProcessOptions
8663 %% Loads the hyperref package and sets some default options.
8664 \newcommand{\bidituftehyperrefLoadHyperref}{%
8665 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8666 \hypersetup{%
8667     bookmarksdepth = section,
8668     citecolor = DarkGreen,
8669     linkcolor = DarkBlue,
8670 %     pagecolor = DarkBlue,
8671     urlcolor = DarkGreen,
8672 }%
8673 }
8674 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8675 \bidituftehyperrefLoadHyperref%
8676 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8677 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8678 }

```

58 File `bidituftetitle.sty`

```

8679 \NeedsTeXFormat{LaTeX2e}
8680 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8681 bidi implementation of tufte title]
8682 \RequirePackage{biditools}
8683 %%

```



```

8684 % `titlepage' option -- creates a full title page with \maketitle
8685 \newboolean{@bidityttitle@titlepage}
8686 \DeclareOption{titlepage}{\setboolean{@bidityttitle@titlepage}{true}}
8687 \DeclareOption{notitlepage}{\setboolean{@bidityttitle@titlepage}{false}}
8688 % Default `book' and `handout' options
8689 \@ifclassloaded{book}{%
8690 \ExecuteOptions{titlepage}}{%
8691 \@ifclassloaded{article}{%
8692 \ExecuteOptions{notitlepage}}%
8693 {}}
8694 \ProcessOptions
8695 %%
8696 % Modified \title, \author, and \date commands. These store the
8697 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8698 \newcommand{\plaintitle}{}% plain-text-only title
8699 \newcommand{\plainauthor}{}% plain-text-only author
8700 \newcommand{\plainpublisher}{}% plain-text-only publisher
8701 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8702 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8703 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8704 \newcommand{\@publisher}{}% full publisher with \thanks{}
8705 \newcommand{\thedata}{\today}
8706 \bidi@patch@AfterPackage{bidi}{%
8707 \renewcommand{\thanks}[1]{\footnote{#1}}
8708 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8709 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8710 }
8711 \renewcommand{\title}[2][]{%
8712 \gdef\@title{#2}%
8713 \begingroup%
8714 % TODO store contents of \thanks command
8715 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8716 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8717 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8718 \protected@xdef\thanklesstitle{#2}%
8719 \endgroup%
8720 \ifthenelse{\isempty{#1}}%
8721 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8722 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8723 \@ifundefined{hypersetup}%
8724 {}% hyperref is not loaded; do nothing
8725 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8726 }
8727 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8728 \renewcommand{\author}[2][]{%
8729 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8730 \begingroup%
8731 % TODO store contents of \thanks command
8732 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8733 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8734 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8735 \protected@xdef\thanklessauthor{#2}%
8736 \endgroup%
8737 \ifthenelse{\isempty{#1}}%

```



```

8738     {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8739     {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8740     \@ifundefined{hypersetup}%
8741     {}% hyperref is not loaded; do nothing
8742     {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8743 }
8744 \renewcommand{\date}[1]{%
8745     \gdef\@date{#1}%
8746     \begingroup%
8747     % TODO store contents of \thanks command
8748     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8749     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8750     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8751     \protected@xdef\thedata{#1}%
8752     \endgroup%
8753 }
8754 %%
8755 % Provides a \publisher command to set the publisher
8756 \newcommand{\publisher}[2][]{%
8757     \gdef\@publisher{#2}%
8758     \begingroup%
8759     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8760     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8761     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8762     \protected@xdef\thanklesspublisher{#2}%
8763     \endgroup%
8764     \ifthenelse{\isempty{#1}}{
8765         {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8766         {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8767     }
8768 %%
8769 % Produces a full title page
8770 \newcommand{\maketitlepage}[0]{%
8771     \cleardoublepage%
8772     {%
8773         \bfseries%
8774         \begin{fullwidth}%
8775         \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8776         \vspace{11.5pc}%
8777         \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8778         \vfill%
8779         \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8780         \end{fullwidth}%
8781     }
8782     \thispagestyle{empty}%
8783     \clearpage%
8784 }
8785 %%
8786 % Title block
8787 \bidi@AfterEndPreamble{%
8788 \renewcommand{\maketitle}{%
8789     \newpage%
8790     \global\@topnum\z@% prevent floats from being placed at the top of the page
8791     \begingroup%

```



```

8792 \setlength{\parindent}{0pt}%
8793 \setlength{\parskip}{4pt}%
8794 \let\@title\@empty%
8795 \let\@author\@empty%
8796 \let\@date\@empty%
8797 \gdef\@title{\LARGE\itshape\@title\par}%
8798 \gdef\@author{\Large\itshape\@author\par}%
8799 \gdef\@date{\Large\itshape\@date\par}%
8800 \@title%
8801 \@author%
8802 \@date%
8803 \endgroup%
8804 \thispagestyle{plain}% suppress the running head
8805 }%
8806 }
8807 %%
8808 % Title page (if the `titlepage' option was passed to the bidentuftetitle-handout
8809 % class.)
8810 \bidentuftetitle@AfterEndPreamble{%
8811 \ifthenelse{\boolean{@bidentuftetitle@titlepage}}
8812 {\renewcommand{\maketitle}{\maketitlepage}}
8813 {}
8814 }
8815 %%
8816 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8817 % without headers and footers
8818 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8819 \hbox{}
8820 %\vspace*{\fill}
8821 %\begin{center}
8822 % This page intentionally contains only this sentence.
8823 %\end{center}
8824 %\vspace{\fill}
8825 \thispagestyle{empty}
8826 \newpage
8827 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

59 File bidentuftte-handout.cls

```

8828 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8829 \ProvidesClass{bidentuftte-handout}[2011/06/18 v0.1 bidentuftte-handout class]
8830 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8831 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentufttefloat}}
8832 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentufttetoc}}
8833 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentufttehyperref}}
8834 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentufttetitle}}
8835 \ProcessOptions\relax
8836 \LoadClass{article}
8837 \RequirePackage{bidentufttefloat}
8838 \RequirePackage{bidentufttesidenote}
8839 \RequirePackage{bidentufttetoc}
8840 \RequirePackage{bidentufttegeneralstructure}
8841 \RequirePackage{bidentufttehyperref}
8842 \RequirePackage{bidentufttetitle}

```



```

8843 \renewenvironment{abstract}
8844   {\begin{quotation}}
8845   {\end{quotation}}
8846 \AtBeginDocument{%
8847 \IfFileExists{biditufte-handout.cfg}
8848   {\input{biditufte-handout.cfg}
8849     \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8850   }%
8851 }

```

60 File biditufte-book.cls

```

8852 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8853 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
8854 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8855 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8856 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8857 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8858 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8859 \ProcessOptions\relax
8860 \LoadClass{book}
8861 \RequirePackage{bidituftefloat}
8862 \RequirePackage{bidituftesidenote}
8863 \RequirePackage{bidituftetoc}
8864 \RequirePackage{bidituftegeneralstructure}
8865 \RequirePackage{bidituftehyperref}
8866 \RequirePackage{bidituftetitle}
8867 %%
8868 % Set up any book-specific stuff now
8869 %%
8870 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8871 % to the opening page of Chapter 1. The running heads, when they appear,
8872 % contain only the (arabic) page number in the outside corner.
8873 %\newif\if@mainmatter \@mainmattertrue
8874 \renewcommand\frontmatter{%
8875   \cleardoublepage%
8876   \@mainmatterfalse%
8877   \pagenumbering{arabic}%
8878   %\pagestyle{plain}%
8879   \fancyhf{}%
8880   \ifthenelse{\boolean{@bidituftefloat@twoside}}{%
8881     {\fancyhead[LE,RO]{\thepage}}%
8882     {\fancyhead[RE,RO]{\thepage}}%
8883   }
8884   %%
8885 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8886 % numbering---it continues where it left off in the front matter.
8887 \renewcommand\mainmatter{%
8888   \cleardoublepage%
8889   \@mainmattertrue%
8890   \fancyhf{}%
8891   \ifthenelse{\boolean{@bidituftefloat@twoside}}{%
8892     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8893     {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title

```



```

8894      \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}}% chapter title
8895      {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8896 }
8897 %%
8898 % The back matter contains appendices, indices, glossaries, endnotes,
8899 % bibliographies, list of contributors, illustration credits, etc.
8900 \renewcommand\backmatter{%
8901   \if@openright%
8902     \cleardoublepage%
8903   \else%
8904     \clearpage%
8905   \fi%
8906   \@mainmatterfalse%
8907 }
8908 %%
8909 % Only show the chapter titles in the table of contents
8910 \setcounter{tocdepth}{0}
8911 \AtBeginDocument{%
8912   \IfFileExists{biditufte-book.cfg}
8913   {\input{biditufte-book.cfg}
8914     \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8915   {}%
8916 }

```

61 File bidipoem.sty

```

8917 \NeedsTeXFormat{LaTeX2e}
8918 \ProvidesPackage{bidipoem}%
8919 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8920
8921 % Usage:
8922 %
8923 % \Setversedim #1#2   % define the layout (within a group):
8924 % #1 = length of both half-verses
8925 % #2 = separation distance = length of a connection, if present
8926 % Variant:
8927 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8928 % #1 = length of first (=right) half-verse
8929 % #2 = length of second (=left) half-verse
8930 % #3 = separation distance = length of a connection, if present
8931 %
8932 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8933 % #1 = text of first (=right) half-verse
8934 % #2 = text of second (=left) half-verse
8935 % Variant:
8936 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8937 % #1 = text of first (=right) half-verse
8938 % #2 = text of connection
8939 % #3 = text of second (=left) half-verse
8940 %
8941 % Alternative (if preferred):
8942 %
8943 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8944

```



```

8945
8946 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8947
8948 % define the layout, verses will be centered
8949
8950 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8951 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8952
8953 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8954 \bidipoem@hvind \textwidth
8955 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8956 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8957 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipo
8958
8959 \def \bidipoem@set@verseI [#1]{% optional parameter
8960 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8961
8962 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8963 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8964 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8965
8966 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8967 \ifdim Opt > \bidipoem@hvind %
8968 \bidipoem@spreadbox \bidipoem@hvlen {#1}\\ \hfill % first block
8969 \else
8970 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8971 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8972 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8973 \par }
8974
8975 % macro for two half verses
8976 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8977 \ifx [#2\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}}%
8978 \else\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8979 \bidipoem@half@verses@next}
8980
8981 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8982 \traditionalconnverses {#1}{#2}{#3}}
8983
8984
8985 {\catcode\^^M=\active % these lines must end with %
8986 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8987 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8988 {\catcode\^^M=\active % these lines must end with %
8989 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
8990 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8991 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8992 \def\poemmarginsskip{1em plus 1fil minus 1em}
8993 \def\poemextrabaselineskip{0\baselineskip}
8994 \def\poemskip{\medskip}
8995 \newcommand{\bidipoem@openbox}{\leavevmode
8996 \hbox to.77778em{%
8997 \hfil\vrule
8998 \vbox to.675em{\hrule width.6em\vfil\hrule}%

```



```

8999 \vrule\hfil}}
9000 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
9001 \newdimen\versewidth
9002 \newtoks\bidipoem@p@ftn
9003 \def\poem@verse#1{%
9004 \ifdim\wd#1>\new@poem@width
9005 \xdef\new@poem@width{\the\wd#1}%
9006 \ifdim\new@poem@width>\poem@width
9007 \xdef\poem@width{\new@poem@width}%
9008 \global\let\poem@needrun\relax
9009 \fi
9010 \fi
9011 \hbox to\poem@width{\unhbox#1}%
9012 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
9013 }
9014 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginskip\relax}
9015 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
9016 \def\poem@lineversesep{%
9017 \nobreak
9018 \hskip\z@ plus 1filll%
9019 \penalty600%
9020 \hskip\poemcolsepskip
9021 \hskip\z@ plus -2filll%
9022 \vadjust{}}%
9023 \nobreak
9024 \hskip\z@ plus 1filll%
9025 }
9026 \def\poem@lineparsebegin{%
9027 \halign\bgroup
9028 \global\setbox\verse@i=\hbox{%
9029 \let\@footnotetext\bidipoem@p@ftntext%
9030 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9031 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9032 \let\@xfootnotenext\bidipoem@p@xftntext%
9033 \let\@xfootnote\bidipoem@p@xfootnote%
9034 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9035 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9036 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9037 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9038 \ignorespaces##\unskip}&&
9039 \global\setbox\verse@ii=\hbox{%
9040 \let\@footnotetext\bidipoem@p@ftntext%
9041 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9042 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9043 \let\@xfootnotenext\bidipoem@p@xftntext%
9044 \let\@xfootnote\bidipoem@p@xfootnote%
9045 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9046 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9047 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9048 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9049 \ignorespaces##\unskip}
9050 \cr
9051 }
9052 \def\poem@lineparseend{%

```




```

9053 \crr\egroup
9054 \vskip-\baselineskip
9055 }
9056 \def\traditionalpoem@cr{%
9057   \cr\poem@line
9058 }
9059 \newbox\verse@i
9060 \newbox\verse@ii
9061 \newif\ifpoem@started
9062
9063 \def\poem@line{%
9064   \poem@lineparseend
9065   \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9066   \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9067   \ifpoem@started
9068     \ifdim\wd\verse@ii>\z@\else
9069       \nopagebreak[3]
9070     \fi
9071     \leavevmode
9072     \poem@linebegin
9073     \poem@verse\verse@i
9074     \ifdim\wd\verse@ii>\z@
9075       \poem@lineversesep
9076       \poem@verse\verse@ii
9077     \fi
9078     \poem@lineend
9079   % \nopagebreak
9080   \par
9081   \vskip\poemextrabaselineskip
9082 \fi
9083 \poem@lineparsebegin
9084 }
9085 \def\@traditionalpoem{%
9086   \stepcounter{poem@no}
9087   \ifnum\max@poem@no<\number\c@poem@no%
9088     \xdef\poem@width{\z@}%
9089   \else
9090     \xdef\poem@width{\poem@prop{poem@width}}%
9091   \fi
9092   \xdef\new@poem@width{\z@}%
9093   \global\versewidth=\poem@width
9094   \poemskip\par
9095   \begingroup
9096   \tabskip=\z@
9097   \parskip=\z@
9098   \parindent=\z@
9099   \parfillskip=\z@
9100   \rightskip=\z@
9101   \leftskip=\z@
9102   \widowpenalty=10000% No break between verses of the same line.
9103   \clubpenalty=10000% Same as above. Not really needed.
9104   \def\newblock{\hfil\poemblocksep\hfil\null}%
9105   \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9106   \def\{\{\global\poem@startedtrue\traditionalpoem@cr}%

```



```

9107 \global\poem@startedfalse
9108 \csname poem@obeylines\endcsname
9109 \let\poem@obeylines\relax
9110 \poem@lineparsebegin
9111 }
9112 \def\@endtraditionalpoem{%
9113 \cr
9114 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9115 \noalign{%
9116 \skip0=\poemextrabaseskip
9117 \vskip-\skip0
9118 \vskip-\baseskip
9119 }%
9120 \fi\fi
9121 \poem@lineparseend
9122 \endgroup
9123 \par
9124 \vskip\baseskip
9125 \poemskip
9126 \ifdim\new@poem@width<\poem@width
9127 \global\let\poem@needrun\relax
9128 \fi
9129 \poem@write@aux{\poem@width@romannumeral\c@poem@no}{\new@poem@width}%
9130 \ifx\AtEndDocument\undefined\poem@finish\fi
9131 \@endparenv
9132 }
9133
9134
9135 \long\def\bidipoem@p@ftntext#1{%
9136 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
9137 \global\bidipoem@p@ftn\expandafter{\@temp{#1}}}%
9138 \long\def\bidipoem@p@LTRftntext#1{%
9139 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9140 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9141 \long\def\bidipoem@p@RTLftntext#1{%
9142 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
9143 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
9144
9145 \long\def\bidipoem@p@xftntext[#1]#2{%
9146 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}%
9147
9148 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9149 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}%
9150
9151 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9152 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}%
9153
9154 \def\bidipoem@p@xfootnote[#1]{%
9155 \begingroup
9156 \csname c@\@mpfn\endcsname #1\relax
9157 \unrestored@protected@xdef\@thefnmark{\thempfn}%
9158 \endgroup
9159 \@footnotemark\bidipoem@p@xftntext[#1]}
9160

```



```

9161 \def\bidipoem@p@xLTRfootnote[#1]{%
9162   \begingroup
9163     \csname c@%mpfn\endcsname #1\relax
9164     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9165   \endgroup
9166   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9167
9168 \def\bidipoem@p@xRTLfootnote[#1]{%
9169   \begingroup
9170     \csname c@%mpfn\endcsname #1\relax
9171     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9172   \endgroup
9173   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9174
9175
9176
9177 \newenvironment{traditionalpoem}{\@traditionalpoem}{\endtraditionalpoem}
9178 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obe
9179 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9180 \def\poem@finish{%
9181 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9182 \ifx\poem@needrun\relax
9183 \PackageWarning{bidipoem}{Unjustified poem.  Rerun TeX to get poem right}%
9184 \global\let\poem@needrun\undefined
9185 \fi
9186 }
9187 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9188 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9189 \ifx\max@poem@no\undefined
9190   \def\max@poem@no{0}%
9191 \fi
9192 \newcommand{\poem@prop}[1]{\@nameuse{#1@romannumeral\c@poem@no}}
9193 \newcommand{\poem@write@aux}[2]{%
9194   \def\x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9195   \x
9196 }
9197 \def\@modernpoem{%
9198 \par
9199 \begingroup
9200 \parskip=\z@
9201 \parindent=\z@
9202 \def\[{ \@settab\@tabplus\ignorespaces}%
9203 \def\]{ \@tabminus\ignorespaces}%
9204 \def\newblock{\poemblocksep}%
9205 \let\newpoem@tabcr\@tabcr
9206 \def\modernpoem@par{% Redefine \par for possible \obeylines
9207   \ifpoem@started\else
9208     \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9209       \@stopfield
9210       \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9211       \@contfield
9212     \fi
9213   \fi
9214   \ifpoem@started\newpoem@tabcr\fi}%

```



```

9215 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9216 \global\poem@startedfalse
9217 \csname poem@obeylines\endcsname
9218 \let\poem@obeylines\relax
9219 \begin{tabbing}%
9220 }
9221 \def\@endmodernpoem{%
9222 \global\poem@startedfalse
9223 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9224   \@stopfield
9225   \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9226   \@contfield
9227 \fi
9228 \ifpoem@started\else\let\@stopline\@stopfield\fi
9229 \end{tabbing}%
9230 \endgroup
9231 \par
9232   \if@nparlist \else
9233     \ifdim\lastskip >\z@
9234       \@tempskipa\lastskip \vskip -\lastskip
9235       \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9236       \vskip\@tempskipa
9237     \fi
9238     \@endparenv
9239   \fi
9240 }
9241 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9242 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mod
9243 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9244 \gdef\@startfield{%
9245 \global\setbox\@curfield\hbox\bgroup%
9246 \let\@footnotetext\bidipoem@p@ftntext%
9247 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9248 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9249 \let\@xfootnotenext\bidipoem@p@xftntext%
9250 \let\@xfootnote\bidipoem@p@xfootnote%
9251 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9252 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9253 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9254 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9255 \color@begingroup}
9256 \gdef\@stopfield{%
9257   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn
9258 \gdef\@contfield{%
9259 \global\setbox\@curfield\hbox\bgroup%
9260 \let\@footnotetext\bidipoem@p@ftntext%
9261 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9262 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9263 \let\@xfootnotenext\bidipoem@p@xftntext%
9264 \let\@xfootnote\bidipoem@p@xfootnote%
9265 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9266 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9267 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9268 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%

```



```
9269 \color@begingroup\unhbox\@curfield}
```

62 File boek3-xetex-bidi.def

```
9270 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for Xe
9271 \renewenvironment{theindex}{%
9272   \if@twocolumn
9273     \@restonecolfalse
9274   \else
9275     \@restonecoltrue
9276   \fi
9277   \columnseprule \z@
9278   \columnsep 35\p@
9279   \twocolumn[\@makeschapterhead{\indexname}]{%
9280     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9281     \thispagestyle{plain}\parindent\z@
9282     \parskip\z@ \@plus .3\p@\relax
9283     \let\item\@idxitem
9284   }{%
9285     \if@restonecol\onecolumn\else\clearpage\fi}
9286 \renewcommand*{\head@style}{%
9287   \interlinepenalty \@M
9288   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9289   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9290 \renewcommand*{\regtocline}[3]{%
9291   \ifnum #1>\c@tocdepth
9292   \else
9293     \vskip\z@\@plus.2\p@
9294     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9295     \if@RTL\rightskip\else\leftskip\fi\unitindent
9296     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9297     \parfillskip\z@
9298     \@tempdima\unitindent
9299     \parindent\z@
9300     \leavevmode
9301     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9302     \hskip 1em \nobreak{\slshape #3}\par
9303   }%
9304   \fi}
9305 \if@oldtoc
9306 \renewcommand*{\l@part}[2]{%
9307   \ifnum \c@tocdepth >-2\relax
9308     \addpenalty{-\@highpenalty}%
9309     \addvspace{2.25em \@plus\p@}%
9310     \begingroup
9311       \setlength\@tempdima{3em}%
9312       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9313       \parfillskip -\@pnumwidth
9314       {\leavevmode
9315         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9316         \nobreak
9317         \global\@nobreaktrue
9318         \everypar{\global\@nobreakfalse\everypar{}}%
9319       \endgroup
```



```

9320 \fi}
9321 \else
9322 \renewcommand*\l@part{%
9323 \ifnum \c@tocdepth >-2\relax
9324 \addpenalty{-\@highpenalty}%
9325 \addvspace{2.25em \@plus \p@}%
9326 \@regtocline{0}%
9327 \fi}
9328 \fi
9329 \if@oldtoc
9330 \renewcommand*\l@chapter[2]{%
9331 \addpenalty{-\@highpenalty}%
9332 \vskip 1.0em \@plus \p@
9333 \setlength\@tempdima{1.5em}%
9334 \begingroup
9335 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9336 \parfillskip -\@pnumwidth
9337 \leavevmode \bfseries
9338 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
9339 \hskip -\if@RTL\rightskip\else\leftskip\fi
9340 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9341 \penalty\@highpenalty
9342 \endgroup}
9343 \else
9344 \renewcommand*\l@chapter{\@regtocline{0}}
9345 \fi
9346 \renewenvironment{abstract}{%
9347 \titlepage
9348 \null\vfil
9349 \section*{\SectFont \abstractname}
9350 \noindent\ignorespaces}
9351 {\par\vfil\null\endtitlepage}
9352 \renewenvironment{thebibliography}[1]
9353 {\chapter*{\bibname}%
9354 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9355 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9356 \bidi@thebibliography@font@hook%
9357 \list{\@biblabel{\@arabic\c@enumiv}}%
9358 {\settowidth\labelwidth{\@biblabel{#1}}%
9359 \leftmargin\labelwidth
9360 \advance\leftmargin\labelsep
9361 \@openbib@code
9362 \usecounter{enumiv}%
9363 \let\p@enumiv\@empty
9364 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9365 \sloppy\clubpenalty4000\widowpenalty4000%
9366 \sfcode\.\@m}
9367 {\def\@noitemerr
9368 {\@latex@warning{Empty `thebibliography' environment}}%
9369 \endlist}
9370 \renewcommand*\left@footnoterule{%
9371 \kern-3\p@
9372 \kern.5\baselineskip
9373 \hrule\@width\unitindent

```



```

9374 \kern.4\baselineskip
9375 }
9376 \renewcommand*\right@footnoterule{%
9377 \kern-3\p@
9378 \kern.5\baselineskip
9379 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9380 \kern.4\baselineskip}
9381 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9382 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9383 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9384 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9385 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9386 \renewcommand*\theequation{%
9387 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9388 \renewcommand*\thefigure{%
9389 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9390 \renewcommand*\thetable{%
9391 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9392 \renewcommand*\maketitle{%
9393 \begin{titlepage}%
9394 \let\footnotesize\small
9395 \let\right@footnoterule\relax
9396 \let\left@footnoterule\relax
9397 \let\textwidth@footnoterule\relax
9398 \let \footnote \thanks
9399 \long\def\@makefntext##1{\parindent\z@
9400 \def\labelitemi{\textendash}\@revlabeltrue
9401 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9402 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9403 \if@compatibility\setcounter{page}{0}\fi
9404 \null\vfil
9405 \vskip 60\p@
9406 \begin{center}%
9407 \TitleFont
9408 {\LARGE \def\\{\penalty -\@M}
9409 \if@allcaps
9410 \expandafter\uc@nothanks\@title\thanks\relax
9411 \else
9412 \@title
9413 \fi\par}%
9414 \vskip 3em%
9415 {\large
9416 \lineskip .75em \parindent\z@
9417 \begin{tabular}[t]{c}%
9418 \if@allcaps
9419 \expandafter\uc@authornothanks\@author\and\relax
9420 \else
9421 \@author
9422 \fi
9423 \end{tabular}\par}%
9424 \vskip 1.5em%
9425 {\large
9426 \if@allcaps
9427 \uppercase\expandafter{\@date}%

```



```

9428         \else
9429             \@date
9430         \fi\par}%
9431     \end{center}\par
9432     \@thanks
9433     \vfil\null
9434 \end{titlepage}%
9435 \setcounter{footnote}{0}%
9436 \global\let\thanks\relax
9437 \global\let\maketitle\relax
9438 \global\let\@thanks\@empty
9439 \global\let\@author\@empty
9440 \global\let\@title\@empty
9441 \global\let\@date\@empty
9442 \global\let\title\relax
9443 \global\let\author\relax
9444 \global\let\date\relax
9445 \global\let\and\relax
9446 }

```

63 File boek-xetex-bidi.def

```

9447 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9448 \renewenvironment{theindex}{%
9449     \if@twocolumn
9450         \@restonecolfalse
9451     \else
9452         \@restonecoltrue
9453     \fi
9454     \columnseprule \z@
9455     \columnsep 35\p@
9456     \twocolumn[\@makeschapterhead{\indexname}]{%
9457         \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9458         \thispagestyle{plain}\parindent\z@
9459         \parskip\z@ \@plus .3\p@\relax
9460         \let\item\@idxitem
9461     }{%
9462         \if@restonecol\onecolumn\else\clearpage\fi}
9463 \renewcommand*{\head@style}{%
9464     \interlinepenalty \@M
9465     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9466     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9467 \renewcommand*{\regtocline}[3]{%
9468     \ifnum #1>\c@tocdepth
9469     \else
9470         \vskip\z@\@plus.2\p@
9471         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9472         \if@RTL\rightskip\else\leftskip\fi\unitindent
9473         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9474         \parfillskip\z@
9475         \@tempdima\unitindent
9476         \parindent\z@
9477         \leavevmode
9478         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak

```




```

9479     \hskip 1em \nobreak{\slshape #3}\par
9480   }%
9481 \fi}
9482 \if@oldtoc
9483 \renewcommand*\l@part[2]{%
9484   \ifnum \c@tocdepth >-2\relax
9485     \addpenalty{-\@highpenalty}%
9486     \addvspace{2.25em \@plus\p@}%
9487     \begingroup
9488       \setlength\@tempdima{3em}%
9489       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9490       \parfillskip -\@pnumwidth
9491       {\leavevmode
9492         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9493         \nobreak
9494         \global\@nobreaktrue
9495         \everypar{\global\@nobreakfalse\everypar{}}%
9496       \endgroup
9497     \fi}
9498 \else
9499   \renewcommand*\l@part{%
9500     \ifnum \c@tocdepth >-2\relax
9501       \addpenalty{-\@highpenalty}%
9502       \addvspace{2.25em \@plus\p@}%
9503       \@regtocline{0}%
9504     \fi}
9505 \fi
9506 \if@oldtoc
9507 \renewcommand*\l@chapter[2]{%
9508   \addpenalty{-\@highpenalty}%
9509   \vskip 1.0em \@plus\p@
9510   \setlength\@tempdima{1.5em}%
9511   \begingroup
9512     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9513     \parfillskip -\@pnumwidth
9514     \leavevmode \bfseries
9515     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9516     \hskip -\if@RTL\rightskip\else\leftskip\fi
9517     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9518     \penalty\@highpenalty
9519   \endgroup}
9520 \else
9521   \renewcommand*\l@chapter{\@regtocline{0}}
9522 \fi
9523 \renewcommand*\left@footnoterule{%
9524   \kern-3\p@
9525   \kern.5\baselineskip
9526   \hrule\@width\unitindent
9527   \kern.4\baselineskip
9528 }
9529 \renewcommand*\right@footnoterule{%
9530   \kern-3\p@
9531   \kern.5\baselineskip
9532   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }

```



```

9533 \kern.4\baselineskip}
9534 \renewenvironment{abstract}{%
9535     \titlepage
9536     \null\vfil
9537     \section*{\SectFont \abstractname}
9538     \noindent\ignorespaces}
9539 {\par\vfil\null\endtitlepage}
9540 \renewenvironment{thebibliography}[1]
9541 {\chapter*{\bibname}%
9542     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9543     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9544     \bidi@thebibliography@font@hook%
9545     \list{\@biblabel{\@arabic\c@enumiv}}%
9546         {\settowidth\labelwidth{\@biblabel{#1}}%
9547         \leftmargin\labelwidth
9548         \advance\leftmargin\labelsep
9549         \@openbib@code
9550         \usecounter{enumiv}%
9551         \let\p@enumiv\@empty
9552         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9553     \sloppy\clubpenalty4000\widowpenalty4000%
9554     \sfcode`. \m}
9555 {\def\@noitemerr
9556     {\@latex@warning{Empty `thebibliography' environment}}%
9557     \endlist}
9558 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9559 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
9560 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
9561 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\cparagraph}
9562 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\csubparagraph}
9563 \renewcommand*\theequation{%
9564     \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9565 \renewcommand*\thefigure{%
9566     \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9567 \renewcommand*\thetable{%
9568     \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@table}
9569 \renewcommand*\maketitle{%
9570     \begin{titlepage}%
9571         \let\footnotesize\small
9572         \let\right@footnoterule\relax
9573         \let\left@footnoterule\relax
9574         \let\textwidth@footnoterule\relax
9575         \let \footnote \thanks
9576         \long\def\@makefnmark##1{\parindent\z@
9577             \def\labelitemi{\textendash}\@revlabeltrue
9578             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9579         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9580         \if@compatibility\setcounter{page}{0}\fi
9581         \null\vfil
9582         \vskip 60\p@
9583         \begin{center}%
9584             \TitleFont
9585             {\LARGE \def\\{\penalty -\@M}
9586             \if@allcaps

```



```

9587         \expandafter\uc@nothanks\@title\thanks\relax
9588     \else
9589         \@title
9590     \fi\par}%
9591 \vskip 3em%
9592 {\large
9593 \lineskip .75em \parindent\z@
9594 \begin{tabular}[t]{c}%
9595 \if@allcaps
9596 \expandafter\uc@authornothanks\@author\and\relax
9597 \else
9598 \@author
9599 \fi
9600 \end{tabular}\par}%
9601 \vskip 1.5em%
9602 {\large
9603 \if@allcaps
9604 \uppercase\expandafter{\@date}%
9605 \else
9606 \@date
9607 \fi\par}%
9608 \end{center}\par
9609 \@thanks
9610 \vfil\null
9611 \end{titlepage}%
9612 \setcounter{footnote}{0}%
9613 \global\let\thanks\relax
9614 \global\let\maketitle\relax
9615 \global\let\@thanks\@empty
9616 \global\let\@author\@empty
9617 \global\let\@title\@empty
9618 \global\let\@date\@empty
9619 \global\let\title\relax
9620 \global\let\author\relax
9621 \global\let\date\relax
9622 \global\let\and\relax
9623 }

```

64 File bookest-xetex-bidi.def

```

9624 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class fo
9625 \def\@makechapterhead#1{%
9626     \vspace*{20\p@}
9627     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9628     \ifnum \c@secnumdepth >\m@ne
9629         \if@mainmatter
9630             {\colorA\huge\scshape \@chapapp\space \thechapter}
9631             \par\nobreak
9632             \vskip 10\p@
9633         \fi
9634     \fi
9635     \interlinepenalty\@M
9636     {\colorB\hrule}
9637     \vskip 15\p@

```



```

9638 \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9639 {\colorA\Huge \bfseries #1}\par\nobreak
9640 \if@RTL\end{flushleft}\else\end{flushright}\fi
9641 \vskip 5\p@
9642 {\colorB\hrule}
9643 \vskip 30\p@
9644 }}
9645 \def\@makeschapterhead#1{%
9646 \vspace*{20\p@}
9647 {\parindent \z@ \raggedright \normalfont
9648 {\colorB\hrule}
9649 \vskip 15\p@
9650 \begin{center}
9651 {\colorA\Huge \bfseries #1}\par\nobreak
9652 \end{center}
9653 \vskip 5\p@
9654 {\colorB\hrule}
9655 \vskip 30\p@
9656 }}

```

65 File book-xetex-bidi.def

```

9657 \ProvidesFile{book-xetex-bidi.def}[2025/09/04 v1.3 bidi adaptations for standard book class]
9658 \renewenvironment{theindex}
9659 {\if@twocolumn
9660 \@restonecolfalse
9661 \else
9662 \@restonecoltrue
9663 \fi
9664 \columnseprule \z@
9665 \columnsep 35\p@
9666 \twocolumn[\@makeschapterhead{\indexname}]}%
9667 \mkboth{\MakeUppercase\indexname}%
9668 {\MakeUppercase\indexname}%
9669 \thispagestyle{plain}\parindent\z@
9670 \parskip\z@ \@plus .3\p@\relax
9671 \let\item\@idxitem}
9672 {\if@restonecol\onecolumn\else\clearpage\fi}
9673 \IfClassLoadedF{bookest}{%
9674 \if@titlepage
9675 \renewcommand\maketitle{\begin{titlepage}%
9676 \let\footnotesize\small
9677 \let\right@footnoterule\relax
9678 \let\left@footnoterule\relax
9679 \let\textwidth@footnoterule\relax
9680 \let \footnote \thanks
9681 \let \LTRfootnote \LTRthanks
9682 \let \RTLfootnote \RTLthanks
9683 \null\vfil
9684 \vskip 60\p@
9685 \begin{center}%
9686 {\LARGE \@title \par}%
9687 \vskip 3em%
9688 {\large

```



```

9689 \lineskip .75em%
9690 \begin{tabular}[t]{c}%
9691 \@author
9692 \end{tabular}\par}%
9693 \vskip 1.5em%
9694 {\large \@date \par}% % Set date in \large size.
9695 \end{center}\par
9696 \@thanks
9697 \vfil\null
9698 \end{titlepage}%
9699 \setcounter{footnote}{0}%
9700 \global\let\thanks\relax
9701 \global\let\LTRthanks\relax
9702 \global\let\RTLthanks\relax
9703 \global\let\maketitle\relax
9704 \global\let\@thanks\@empty
9705 \global\let\@author\@empty
9706 \global\let\@date\@empty
9707 \global\let\@title\@empty
9708 \global\let\title\relax
9709 \global\let\author\relax
9710 \global\let\date\relax
9711 \global\let\and\relax
9712 }
9713 \else
9714 \renewcommand\maketitle{\par
9715 \begingroup
9716 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9717 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9718 \long\def\@makefntext##1{\parindent 1em\noindent
9719 \hb@xt@1.8em{%
9720 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9721 \if@twocolumn
9722 \ifnum \col@number=\@ne
9723 \@maketitle
9724 \else
9725 \twocolumn[\@maketitle]%
9726 \fi
9727 \else
9728 \newpage
9729 \global\@topnum\z@ % Prevents figures from going at top of page.
9730 \@maketitle
9731 \fi
9732 \thispagestyle{plain}\@thanks
9733 \endgroup
9734 \setcounter{footnote}{0}%
9735 \global\let\thanks\relax
9736 \global\let\LTRthanks\relax
9737 \global\let\RTLthanks\relax
9738 \global\let\maketitle\relax
9739 \global\let\@maketitle\relax
9740 \global\let\@thanks\@empty
9741 \global\let\@author\@empty
9742 \global\let\@date\@empty

```



```

9743 \global\let\@title\@empty
9744 \global\let\title\relax
9745 \global\let\author\relax
9746 \global\let\date\relax
9747 \global\let\and\relax
9748 }
9749 \def\@maketitle{%
9750 \newpage
9751 \null
9752 \vskip 2em%
9753 \begin{center}%
9754 \let \footnote \thanks
9755 \let \LTRfootnote \LTRthanks
9756 \let \RTLfootnote \RTLthanks
9757 {\LARGE \@title \par}%
9758 \vskip 1.5em%
9759 {\large
9760 \lineskip .5em%
9761 \begin{tabular}[t]{c}%
9762 \@author
9763 \end{tabular}\par}%
9764 \vskip 1em%
9765 {\large \@date}%
9766 \end{center}%
9767 \par
9768 \vskip 1.5em}
9769 \fi}
9770 \IfPackageLoadedF{tocloft}{%
9771 \renewcommand*\l@part[2]{%
9772 \ifnum \c@tocdepth >-2\relax
9773 \addpenalty{-\@highpenalty}%
9774 \addvspace{2.25em \@plus\p@}%
9775 \setlength\@tempdima{3em}%
9776 \begingroup
9777 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9778 \parfillskip -\@pnumwidth
9779 {\leavevmode
9780 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9781 \nobreak
9782 \global\@nobreaktrue
9783 \everypar{\global\@nobreakfalse\everypar{}}%
9784 \endgroup
9785 \fi}
9786 \renewcommand*\l@chapter[2]{%
9787 \ifnum \c@tocdepth >\m@ne
9788 \addpenalty{-\@highpenalty}%
9789 \vskip 1.0em \@plus\p@
9790 \setlength\@tempdima{1.5em}%
9791 \begingroup
9792 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9793 \parfillskip -\@pnumwidth
9794 \leavevmode \bfseries
9795 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9796 \hskip -\if@RTL\rightskip\else\leftskip\fi

```



```

9797      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9798      \penalty\@highpenalty
9799      \endgroup
9800      \fi}
9801  }
9802  \renewcommand\left@footnoterule{%
9803      \kern-3\p@
9804      \hrule\@width.4\columnwidth
9805      \kern2.6\p@}
9806  \renewcommand\right@footnoterule{%
9807      \kern-3\p@
9808      \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9809      \kern2.6\p@}
9810  \renewcommand\theequation
9811      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9812  \renewcommand \thefigure
9813      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9814  \renewcommand \thetable
9815      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9816  \renewcommand \thechapter {\@arabic\c@chapter}
9817  \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9818  \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9819  \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9820  \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9821  \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9822  \def\@makechapterhead#1{%
9823      \vspace*{50\p@}%
9824      {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9825          \ifnum \c@secnumdepth >\m@ne
9826              \if@mainmatter
9827                  \huge\bfseries \@chapapp\space \thechapter
9828                  \par\nobreak
9829                  \vskip 20\p@
9830              \fi
9831              \fi
9832              \interlinepenalty\@M
9833              \Huge \bfseries #1\par\nobreak
9834              \vskip 40\p@
9835          }}
9836  \def\@makeschapterhead#1{%
9837      \vspace*{50\p@}%
9838      {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9839          \normalfont
9840          \interlinepenalty\@M
9841          \Huge \bfseries #1\par\nobreak
9842          \vskip 40\p@
9843      }}
9844  \renewcommand\backmatter{%
9845      \if@openright
9846          \cleardoublepage
9847      \else
9848          \clearpage
9849      \fi
9850      \@mainmatterfalse}

```



```

9851 \IfPackageLoadedF{natbib}{%
9852 \renewenvironment{thebibliography}[1]
9853   {\chapter*{\bibname}%
9854    \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9855    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9856    \bidi@thebibliography@font@hook%
9857    \list{\@biblabel{\@arabic\c@enumiv}}%
9858      {\settowidth\labelwidth{\@biblabel{#1}}%
9859       \leftmargin\labelwidth
9860       \advance\leftmargin\labelsep
9861       \@openbib@code
9862       \usecounter{enumiv}%
9863       \let\p@enumiv\@empty
9864       \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9865   \sloppy
9866   \clubpenalty4000
9867   \@clubpenalty \clubpenalty
9868   \widowpenalty4000%
9869   \sfcode\.\@m}
9870 {\def\@noitemerr
9871   {\@latex@warning{Empty `thebibliography' environment}}%
9872   \endlist}
9873 }

```

66 File breqn-xetex-bidi.def

```

9874 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for
9875 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9876   \everydisplay\expandafter{\the\everydisplay \display@setup}%
9877   \if@noskipsec \leavevmode \fi
9878   \if@inlabel \leavevmode \global\@inlabelfalse \fi
9879   \if@eq@group\else\eq@prelim\fi
9880   \setkeys{breqn}{#1}%
9881   \the\eqstyle
9882   \eq@setnumber
9883   \begin@group
9884   \eq@setup@a
9885   \eq@startup
9886 }
9887 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
9888   \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9889   \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9890   \global\let\GRP@label\@empty
9891   \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9892   \global\grp@linewidth\z@\global\grp@wdNum\z@
9893   \global\let\grp@eqs@numbered\@False
9894   \global\let\grp@aligned\@True
9895   \global\let\grp@shiftnumber\@False
9896   \eq@prelim
9897   \setkeys{breqn}{#1}%
9898   \if\grp@hasNumber \grp@setnumber \fi
9899 }
9900 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9901   \let\display@setup\dseries@display@setup

```




```

9902 % Question: should this be the default for dseries???
9903 \global\eq@wdCond\z@
9904 \@dmath[layout={M},#1]%
9905 \mathsurround\z@\@math \penalty\@Mi
9906 \let\endmath\ends@math
9907 \def\premath{%
9908     \ifdim\lastskip<.3em \unskip
9909     \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9910 }%
9911 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9912 \ignorespaces
9913 }
9914 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9915 \renewenvironment{dsuspend}{%
9916     \global\setbox\EQ@box\ vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9917     \parshape 1 \displayindent \displaywidth\relax
9918     \hsize=\columnwidth \noindent\ignorespaces
9919 }{%
9920     \par\egroup
9921     \global\setbox\GRP@box\ vbox{%
9922         \hbox{\copy\EQ@box\ vtop{\unvbox\EQ@box}}%
9923         \unvbox\GRP@box
9924     }%
9925     \global\GRP@queue\@xp{\the\GRP@queue
9926         \@elt{\let\eq@isIntertext\@True}%
9927     }%
9928 }

```

67 File cals-xetex-bidi.def

```

9929 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for Xe
9930 \renewcommand\cals@setup@alignment[1]{%
9931 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9932 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9933 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9934 }
9935 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9936 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9937 \if@RTLtab\cals@activate@rtl\fi
9938 \let\cals@thead@tokens=\relax
9939 \let\cals@tfoot@tokens=\relax
9940 \let\cals@tbody@tokens=\relax
9941 \cals@tfoot@height=0pt \relax
9942 \let\cals@last@context=n%
9943 \let\cals@current@context=b%
9944 \parindent=0pt \relax%
9945 \cals@setup@alignment{#1}%
9946 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9947 }% Alignment inside is independent on center/flushright outside
9948 \parfillskip=0pt plus1fil\relax
9949 \let\cals@borderL=\relax
9950 \let\cals@borderR=\relax
9951 \let\cals@borderT=\relax
9952 \let\cals@borderB=\relax

```



```

9953 \setbox\cals@backup@row=\box\voidb@x\relax
9954 \cals@AtBeginTable
9955 }{% End of the table
9956 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9957 \renewcommand\alignL{%
9958 \if@RTLtab
9959   \cals@vfillAdd\cals@paddingL
9960 \else
9961   \cals@vfillDrop\cals@paddingL
9962 \fi
9963 \cals@vfillDrop\cals@paddingR}
9964 \renewcommand\alignR{%
9965 \if@RTLtab
9966   \cals@vfillDrop\cals@paddingL
9967 \else
9968   \cals@vfillAdd\cals@paddingL
9969 \fi
9970 \cals@vfillDrop\cals@paddingR}

```

68 File caption-xetex-bidi.def

```

9971 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package
9972 \let\@makecaption\caption@makecaption

```

69 File caption3-xetex-bidi.def

```

9973 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9974 \renewcommand*\caption@par{%
9975   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

70 File colortbl-xetex-bidi.def

```

9976 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9977 \def\CT@setup{%
9978   \@tempdimb\col@sep
9979   \@tempdimc\col@sep
9980   \def\CT@color{%
9981     \global\let\CT@do@color\CT@do@color
9982     \bicolor}}
9983 \def\@classz{\@classx
9984   \@tempcnta\count@
9985   \prepnext@tok
9986 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9987   \@addtopreamble{\if@RTLtab\beginL\fi%
9988     \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9989     \ifcase \@chnum
9990       \hskip\stretch{.5}\kern\z@
9991       \d@llarbegin
9992       \insert@column
9993       \d@llarend\hskip\stretch{.5}\or
9994       \d@llarbegin \insert@column \d@llarend \hfill \or
9995       \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9996     $\vcenter
9997     \@startpbox{\@nextchar}\insert@column \@endpbox $\or

```



```

9998 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9999 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
10000 \fi
10001 \if@RTLtab\endR\fi\egroup\egroup
10002 \beginngroup
10003 \CT@setup
10004 \CT@column@color
10005 \CT@row@color
10006 \CT@cell@color
10007 \CT@do@color
10008 \endgroup
10009 \tempdima\ht\z@
10010 \advance\tempdima\minrowclearance
10011 \vrule\@height\tempdima\@width\z@
10012 \unhbox\z@\if@RTLtab\endL\fi}%
10013 \prepnext@tok}

```

71 File color-xetex-bidi.def

```

10014 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for
10015 \long\def\color@b@x#1#2#3{%
10016 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
10017 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
10018 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
10019 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
10020 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
10021 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
10022 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi
10023 \DeclareRobustCommand\color{%
10024 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]{%
10025 \def\@declaredcolor#1{%
10026 \@ifundefined{string\color @#1}%
10027 {\c@lor@error{`#1'}}%
10028 {\expandafter\let\expandafter\current@color
10029 \csname string\color @#1\endcsname
10030 \set@color}%
10031 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10032 \def\@undeclaredcolor[#1]#2{%
10033 \@ifundefined{color@#1}%
10034 {\c@lor@error{model `#1'}}%
10035 {\csname color@#1\endcsname\current@color{#2}%
10036 \set@color}%
10037 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
10038 \DeclareRobustCommand\bidicolor{%
10039 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]{%
10040 \def\@bidiundeclaredcolor[#1]#2{%
10041 \@ifundefined{color@#1}%
10042 {\c@lor@error{model `#1'}}%
10043 {\csname color@#1\endcsname\current@color{#2}%
10044 \set@color}%
10045 \ignorespaces}
10046 \def\@bidideclaredcolor#1{%
10047 \@ifundefined{string\color @#1}%
10048 {\c@lor@error{`#1'}}%

```



```

10049     {\expandafter\let\expandafter\current@color
10050     \csname\string\color @#1\endcsname
10051     \set@color}%
10052   \ignorespaces}
10053 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10054 \def\color@fbox#1#2#3{%
10055   \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
10056 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmo

```

72 File combine-xetex-bidi.def

```

10057 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class fo
10058 \renewcommand{\c@ll@chapsecii}[2]{%
10059   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10060   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10061   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10062 }
10063 \renewcommand{\c@ll@chapseci}{%
10064   \setlength\@tempdima{0em}%
10065   \begingroup
10066     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10067     \parfillskip -\@pnumwidth
10068     \leavevmode
10069 }
10070 \renewenvironment{tocindent}[1]{%
10071   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

73 File crop-xetex-bidi.def

```

10072 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for Xe
10073 \IfClassLoadedT{memoir}{\endinput}
10074 \RequirePackage{graphicx}
10075 \renewcommand*{\CROP@ulc}{%
10076   \if@RTLmain%
10077     \begin{picture}(0,0)
10078       \unitlength\p@\thinline
10079       \put(-40,0){\circle{10}}
10080       \put(-30,-5){\line(0,1){10}}
10081       \put(-35,0){\line(1,0){30}}
10082       \put(-10,30){\circle{10}}
10083       \put(-5,30){\line(1,0){10}}
10084       \put(0,35){\line(0,-1){30}}
10085     \end{picture}%
10086   \else%
10087     \begin{picture}(0,0)
10088       \unitlength\p@\thinline
10089       \put(-30,0){\circle{10}}
10090       \put(-30,-5){\line(0,1){10}}
10091       \put(-35,0){\line(1,0){30}}
10092       \put(0,30){\circle{10}}
10093       \put(-5,30){\line(1,0){10}}
10094       \put(0,35){\line(0,-1){30}}
10095     \end{picture}%
10096   \fi%

```



```

10097 }
10098 \renewcommand*\CROP@curc{%
10099   \if@RTLmain%
10100     \begin{picture}(0,0)
10101       \unitlength\p@\thinline
10102       \put(20,0){\circle{10}}
10103       \put(30,-5){\line(0,1){10}}
10104       \put(35,0){\line(-1,0){30}}
10105       \put(-10,30){\circle{10}}
10106       \put(-5,30){\line(1,0){10}}
10107       \put(0,35){\line(0,-1){30}}
10108     \end{picture}%
10109   \else%
10110     \begin{picture}(0,0)
10111       \unitlength\p@\thinline
10112       \put(30,0){\circle{10}}
10113       \put(30,-5){\line(0,1){10}}
10114       \put(35,0){\line(-1,0){30}}
10115       \put(0,30){\circle{10}}
10116       \put(-5,30){\line(1,0){10}}
10117       \put(0,35){\line(0,-1){30}}
10118     \end{picture}%
10119   \fi%
10120 }
10121 \renewcommand*\CROP@llc{%
10122   \if@RTLmain%
10123     \begin{picture}(0,0)
10124       \unitlength\p@\thinline
10125       \put(-40,0){\circle{10}}
10126       \put(-30,-5){\line(0,1){10}}
10127       \put(-35,0){\line(1,0){30}}
10128       \put(-10,-30){\circle{10}}
10129       \put(-5,-30){\line(1,0){10}}
10130       \put(0,-35){\line(0,1){30}}
10131     \end{picture}%
10132   \else%
10133     \begin{picture}(0,0)
10134       \unitlength\p@\thinline
10135       \put(-30,0){\circle{10}}
10136       \put(-30,-5){\line(0,1){10}}
10137       \put(-35,0){\line(1,0){30}}
10138       \put(0,-30){\circle{10}}
10139       \put(-5,-30){\line(1,0){10}}
10140       \put(0,-35){\line(0,1){30}}
10141     \end{picture}%
10142   \fi%
10143 }
10144 \renewcommand*\CROP@lrc{%
10145   \if@RTLmain%
10146     \begin{picture}(0,0)
10147       \unitlength\p@\thinline
10148       \put(20,0){\circle{10}}
10149       \put(30,-5){\line(0,1){10}}
10150       \put(35,0){\line(-1,0){30}}

```



```

10151      \put(-10,-30){\circle{10}}
10152      \put(-5,-30){\line(1,0){10}}
10153      \put(0,-35){\line(0,1){30}}
10154  \end{picture}%
10155  \else%
10156  \begin{picture}(0,0)
10157    \unitlength\p@\thinline
10158    \put(30,0){\circle{10}}
10159    \put(30,-5){\line(0,1){10}}
10160    \put(35,0){\line(-1,0){30}}
10161    \put(0,-30){\circle{10}}
10162    \put(-5,-30){\line(1,0){10}}
10163    \put(0,-35){\line(0,1){30}}
10164  \end{picture}%
10165  \fi%
10166 }
10167 \@ifpackagewith{crop}{cam}{%
10168 \CROP@execopt{cam}%
10169 }{}

```

74 File cutwin-xetex-bidi.def

```

10170 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for]
10171 \renewcommand*{\c@twcompctr}[2]{%
10172   \def\c@twfirst{1}
10173   \loop\advance\c@twwinlines\m@ne
10174   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10175   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10176   \c@twprune{\c@twslicea}{\c@twlftside}%
10177   \c@twprune{\c@twsliceb}{\c@twrtside}%
10178   \ifnum\c@twfirst=\@ne
10179     \setbox#2=\vbox{\unvbox#2\hbox
10180       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10181     \else
10182       \setbox#2=\vbox{\unvbox#2\hbox
10183       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\
10184     \fi
10185   \def\c@twfirst{2}
10186   \ifnum\c@twwinlines>\z@\repeat}
10187 \renewcommand*{\c@twcompoddctr}[2]{%
10188   \def\c@twrounds{1}
10189   \def\c@twfirst{1}
10190   \@for\c@twlspec:=\c@twb\do{%
10191     \ifnum\c@twrounds=1
10192       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10193       \c@twprune{\c@twslicea}{\c@twlspec}%
10194       \def\c@twrounds{2}
10195     \else
10196       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10197       \c@twprune{\c@twsliceb}{\c@twlspec}%
10198       \ifnum\c@twfirst=1
10199         \setbox#2=\vbox{\unvbox#2\hbox
10200         to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL
10201       \def\c@twfirst{2}

```



```

10202     \else
10203         \setbox#2=\vbox{\unvbox#2\hbox
10204             to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@twsliceb\fi}}
10205     \fi
10206     \def\c@twrounds{1}
10207 \fi}}

```

75 File cuted-xetex-bidi.def

```

10208 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for xetex]
10209
10210 \def\RTL@outputdblcol{%
10211     \if@firstcolumn
10212         \global\@firstcolumnfalse
10213         \global\setbox\@leftcolumn\copy\@outputbox
10214         \splitmaxdepth\maxdimen
10215         \vbadness\maxdimen
10216         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10217         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10218         \toks@\expandafter{\topmark}%
10219         \xdef\@firstcoltopmark{\the\toks@}%
10220         \toks@\expandafter{\splitfirstmark}%
10221         \xdef\@firstcolfirstmark{\the\toks@}%
10222         \ifx\@firstcolfirstmark\@empty
10223             \global\let\@setmarks\relax
10224         \else
10225             \gdef\@setmarks{%
10226                 \let\firstmark\@firstcolfirstmark
10227                 \let\topmark\@firstcoltopmark}%
10228         \fi
10229     \else
10230         \global\@firstcolumntrue
10231         \setbox\@outputbox\vbox{%
10232             \hb@xt@\textwidth{%
10233                 \hskip \columnwidth
10234                 \hfil
10235                 {\normalcolor\vrule \columnseprule}%
10236                 \hfil
10237                 \hb@xt@\columnwidth{%
10238                     \bidi@firstcolumn@status@write%
10239                     \box\@leftcolumn \hss}%
10240                 \hskip -\textwidth
10241                 \hb@xt@\columnwidth{%
10242                     \bidi@lastcolumn@status@write%
10243                     \box\@outputbox \hss}%
10244                 \hskip \columnsep
10245                 \hskip \columnwidth }%
10246             \ifvoid\hold@viper
10247             \else
10248                 \setbox\@outputbox \vbox to\textheight{%
10249                     \box\hold@viper
10250                     \box\@outputbox
10251                     \vss
10252                 }%

```



```

10253 \fi
10254 \@combinedblfloats
10255 \@setmarks
10256 \@outputpage
10257 \begingroup
10258 \@dblfloatplacement
10259 \@startdblcolumn
10260 \@whiles\if@fcolmade \fi{\@outputpage
10261 \@startdblcolumn}%
10262 \ifvoid\@viper
10263 \else
10264 \global\setbox\@viper\vbox{%
10265 \vskip-\stripsep
10266 \unvbox\@viper
10267 }%
10268 \@viperoutput
10269 \fi
10270 \endgroup
10271 \fi}%
10272
10273 \def\LTR@outputdblcol{%
10274 \if@firstcolumn
10275 \global\@firstcolumnfalse
10276 \global\setbox\@leftcolumn\copy\@outputbox
10277 \splitmaxdepth\maxdimen
10278 \vbadness\maxdimen
10279 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10280 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10281 \toks@\expandafter{\topmark}%
10282 \xdef\@firstcoltopmark{\the\toks@}%
10283 \toks@\expandafter{\splitfirstmark}%
10284 \xdef\@firstcolfirstmark{\the\toks@}%
10285 \ifx\@firstcolfirstmark\@empty
10286 \global\let\@setmarks\relax
10287 \else
10288 \gdef\@setmarks{%
10289 \let\firstmark\@firstcolfirstmark
10290 \let\topmark\@firstcoltopmark}%
10291 \fi
10292 \else
10293 \global\@firstcolumntrue
10294 \setbox\@outputbox\vbox{%
10295 \hb@xt@\textwidth{%
10296 \hb@xt@\columnwidth{%
10297 \bidi@firstcolumn@status@write%
10298 \box\@leftcolumn \hss}%
10299 \hfil
10300 {\normalcolor\vrule \@width\columnseprule}%
10301 \hfil
10302 \hb@xt@\columnwidth{%
10303 \bidi@lastcolumn@status@write%
10304 \box\@outputbox \hss}}}%
10305 \ifvoid\hold@viper
10306 \else

```




```

10307      \setbox\@outputbox \vbox to\textheight{%
10308                                \box\hold@viper
10309                                \box\@outputbox
10310                                \vss
10311                                }%
10312      \fi
10313      \@combinedblfloats
10314      \@setmarks
10315      \@outputpage
10316      \beginngroup
10317      \@dblfloatplacement
10318      \@startdblcolumn
10319      \@whiles\if@fcolmade \fi{\@outputpage
10320      \@startdblcolumn}%
10321      \ifvoid\@viper
10322      \else
10323      \global\setbox\@viper\vbox{%
10324                                \vskip-\stripsep
10325                                \unvbox\@viper
10326                                }%
10327      \@viperoutput
10328      \fi
10329      \endgroup
10330      \fi}%
10331
10332      \def\@addviper{%
10333      \@insertfalse
10334      \def\var@@thecol@num{2}%
10335      \if@firstcolumn
10336      \def\var@@thecol@num{1}%
10337      \@reqcolroom=.5\@pageht
10338      \ht@viper=\@reqcolroom
10339      \advance\@reqcolroom by\ht\@viper
10340      \advance\@reqcolroom by\stripsep
10341      \else
10342      \@reqcolroom=\@colht
10343      \advance\@reqcolroom by\@pageht
10344      \ht@viper.5\@reqcolroom
10345      \@reqcolroom=\ht@viper
10346      \advance\@reqcolroom by\ht\@viper
10347      \advance\@reqcolroom by\stripsep
10348      \global\setbox\@holdpg\vbox{%
10349      \setbox\cuted@@tempbox@a\vbox{%
10350      \aftergroup\unvbox
10351      \unvcopy\@leftcolumn
10352      \unskip\unkern\unpenalty
10353      \setbox\@tempbox@a\lastbox
10354      \ifdim\dimexpr\ht\@tempbox@a+\wd\@tempbox@a+\dp\@tempbox@a>\z@
10355      %% keeps lastbox
10356      \aftergroup\@leftcolumn
10357      \else
10358      %% removes lastbox
10359      \aftergroup\cuted@@tempbox@a
10360      \fi

```



```

10361         }%
10362         \unskip\unkern\unpenalty
10363         \on@stripcols@break
10364         \the\At@ViperColsBreak
10365         \unvbox\@holdpg
10366     }%
10367     \global\At@ViperColsBreak{}}%
10368     \ht@viper=.5\ht\@holdpg
10369     \ifdim\ht@viper>\@colht
10370         \ht@viper=\@colht
10371     \fi
10372 \fi
10373 %%
10374 %% calculations for breaking
10375 %%
10376 \ifvoid\hold@viper
10377     \ht@hold@viper=\z@
10378 \else
10379     \ht@hold@viper=\ht\hold@viper
10380 \fi
10381 \cuted@@tempdim@b\ht@viper
10382 \set@split@topskip@to\topskip
10383 \loop
10384     \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10385     \setbox\cuted@@varbox@a\copy\@holdpg
10386     \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10387     %% set leftcolumn boxes
10388     \setbox\cuted@@tempbox@c\ vbox{\unvbox\cuted@@tempbox@a}%
10389     \setbox\cuted@@tempbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10390     \xdef\var@@leftcolumn@badness{\the\badness}%
10391     %% set rightcolumn boxes
10392     \setbox\cuted@@varbox@c\ vbox{\unvbox\cuted@@varbox@a}%
10393     \setbox\cuted@@varbox@a\ vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10394     \xdef\var@@rightcolumn@badness{\the\badness}%
10395     %% analyzing split goodness
10396     \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10397     \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10398     \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10399     \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10400     \cuted@@wlog@debug{CUTED [----]}%
10401     ^^JLeft: \the\ht\cuted@@tempbox@c
10402     +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10403     ^^JRight: \the\ht\cuted@@varbox@c
10404     +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10405     ^^JSplit: \the\cuted@@tempdim@b
10406     ^^JExtra height: \the\cuted@@tempdim@spread
10407     }%
10408     \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10409         \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10410             \cuted@@tempdim@spread=\z@
10411         \fi
10412     \fi
10413     \ifdim\cuted@@tempdim@spread<\z@
10414         \if@left@column@spread

```



```

10415         \if@right@column@shrink
10416             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10417                 \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread+\pageshrink>\z@
10418             \else
10419                 \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10420             \fi
10421             \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10422             \ifnum\badness<\cuted@@column@badness
10423                 \cuted@@tempdim@b=\cuted@@tempdim@a
10424                 \cuted@@tempdim@spread=\z@
10425             \fi
10426             \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on \the\cuted@@varbox@a}
10427             \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10428             \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on \the\cuted@@varbox@a}
10429         \else
10430             \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10431                 \unvcopy\cuted@@tempbox@c
10432             }%
10433             \ifnum\badness<\cuted@@column@badness
10434                 \@tempdimb=\ht\cuted@@varbox@c
10435                 \cuted@@tempdim@spread=\z@
10436             \fi
10437             \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\cuted@@varbox@a}
10438             \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
10439                 \unvcopy\cuted@@tempbox@c
10440             }%
10441             \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\cuted@@varbox@a}
10442         \fi
10443     \else
10444         \if@right@column@shrink
10445             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10446                 \else
10447                     \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10448                     \cuted@@tempdim@spread=\z@
10449                 \fi
10450             \fi
10451         \fi
10452     \else
10453         \ifdim\cuted@@tempdim@spread>\z@
10454             \ifdim\dimexpr\@tempdimb+p@\relax>\@colht
10455                 \cuted@@tempdim@b=\@colht
10456                 \cuted@@tempdim@spread=\z@
10457             \fi
10458         \fi
10459     \fi
10460     \ifdim\cuted@@tempdim@spread<\z@
10461         \advance\cuted@@tempdim@b 1\p@
10462     \repeat
10463     \wlog{CUTED [- LAST -]}%
10464     ^^JExtra skip:\the\cuted@@tempdim@spread
10465     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10466     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10467     ^^JSplit:\saved@tempdimb
10468     ^^JOutput:\the\cuted@@tempdim@b

```



```

10469      ^^JPageshrink: \the\pageshrink
10470      ^^JPagestretch: \the\pagestretch
10471      ^^Jcolht:\the\colht
10472      }%
10473      %%
10474      %% final construction of the cuted page above strip
10475      %%
10476      \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10477      \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10478        \cuted@@tempdim@a=\dimexpr
10479          \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10480          \relax
10481        \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10482        \unvbox\cuted@@tempbox@c
10483        \ifdim\cuted@@tempdim@spread>\dp\strutbox
10484        \else
10485          \vskip-\cuted@@tempdim@spread
10486        \fi
10487        \prevdepth\z@
10488        \hrule\@height\cuted@@page@rule width\textwidth
10489        \vskip-\cuted@@page@rule
10490        \ifdim\cuted@@tempdim@a>\z@
10491          \if@left@column@spread
10492          \else
10493            \vss
10494          \fi
10495        \else
10496          \ifdim\cuted@@tempdim@a<\z@
10497            \if@left@column@shrink
10498            \else
10499              \vss
10500            \fi
10501          \fi
10502        \fi
10503      }%
10504      \wlog{CUTED [output]: \the\cuted@@tempdim@b
10505      ^^JCUTED [leftcolumn badness]: \number\badness
10506      }%
10507      \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10508        \cuted@@tempdim@a=\dimexpr
10509          \cuted@@tempdim@b-\ht\@holdpg
10510          \relax
10511        \unvbox\@holdpg
10512        \ifdim\cuted@@tempdim@a>\z@
10513          \if@right@column@spread
10514          \else
10515            \vss
10516          \fi
10517        \else
10518          \ifdim\cuted@@tempdim@a<\z@
10519            \if@right@column@shrink
10520            \else
10521              \vss
10522            \fi

```



```

10523         \fi
10524     \fi
10525     }%
10526     \wlog{CUTED [rightcolumn badness]: \number\badness}%
10527     \setbox\cuted@@tempbox@var\vbox{%
10528         \hb@xt@\textwidth{%
10529             \if@RTLmain
10530                 \hskip \columnwidth
10531                 \hfil
10532                 {\normalcolor\vrule \@width\columnseprule}%
10533                 \hfil
10534                 \hb@xt@\columnwidth{%
10535                     \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10536                     \hss
10537                 }%
10538                 \hskip -\textwidth
10539                 \hb@xt@\columnwidth{%
10540                     \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10541                     \hss
10542                 }%
10543                 \hskip \columnsep
10544                 \hskip \columnwidth
10545             \else
10546                 \hb@xt@\columnwidth{%
10547                     \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10548                     \hss
10549                 }%
10550                 \hfil
10551                 {\normalcolor\vrule \@width\columnseprule}%
10552                 \hfil
10553                 \hb@xt@\columnwidth{%
10554                     \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10555                     \hss
10556                 }%
10557             \fi
10558         }%
10559     }%
10560     %%
10561     %% finalize cuted page
10562     %%
10563     \ifvoid\hold@viper
10564         \global\setbox\hold@viper\vbox{%
10565             \unvbox\cuted@@tempbox@var
10566             \penalty\interlinepenalty
10567             \vskip\stripsep
10568             \the\preCutedStrip
10569             \ifnum\outputpenalty<-\@Mii
10570                 \vskip -\parskip
10571             \fi
10572             \outputpenalty\z@
10573         }%
10574     \else
10575         \global\setbox\hold@viper\vbox{%
10576             \unvbox\hold@viper

```



```

10577         \cuted@@tempbox@var
10578         \penalty\interlinepenalty
10579         \vskip\stripsep
10580         \the\preCutedStrip
10581         \ifnum\outputpenalty<-\@Mii
10582             \vskip -\parskip
10583         \fi
10584         \outputpenalty\z@
10585     }%
10586 \fi
10587 \ifdim\@colht>\@reqcolroom
10588     \global\setbox\hold@viper\vbox{%
10589         \unvbox\hold@viper
10590         \box\@viper
10591         \penalty\interlinepenalty
10592         \the\postCutedStrip
10593         \vskip\stripsep
10594         \ifnum\outputpenalty<-\@Mii
10595             \vskip -\parskip
10596         \fi
10597         \outputpenalty\z@
10598     }%
10599     \@inserttrue
10600     \global\@firstcolumntrue
10601     \advance\ht@hold@viper by-\ht\hold@viper
10602     \global\advance\@colht by\ht\hold@viper
10603     \ifdim\@colht<2.5\baselineskip
10604         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10605                                 too tall on page \thepage (\var@@thecol@num column)}}%
10606         \@emptycol
10607         \if@firstcolumn
10608             \else
10609                 \@emptycol
10610             \fi
10611         \global\@lastvipertrue
10612     \else
10613         \global\vsizel\@colht
10614         \global\@colroom\@colht
10615         \check@floats\cuted@@tempdim@a
10616         \ifdim\cuted@@tempdim@a>\z@
10617             \global\advance\@colroom by-\cuted@@tempdim@a
10618         \fi
10619         \ifdim\@colroom<\z@
10620             \global\@colroom1\p@
10621             \ifdim\cuted@@tempdim@a>\@colht
10622                 \@latex@warning@no@line{TOP and/or BOT FLOAT's
10623                                         to large on \thepage (\var@@thecol@num column)}}%
10624             \fi
10625             \@emptycol
10626             \if@firstcolumn
10627                 \else
10628                     \@emptycol
10629                 \fi
10630             \global\@lastvipertrue

```



```

10631         \fi
10632     \fi
10633 \fi
10634 \if@insert
10635 \else
10636     \advance\ht@hold@viper by-\ht\hold@viper
10637     \global\advance\@colht by\ht@hold@viper
10638     \global\setbox\hold@viper\ vbox{%
10639         \unvbox\hold@viper
10640         \set@split@topskip@to{\z@ plus2\p@}%
10641         \vsplit\@viper to\@colht
10642         \vss
10643     }%
10644     \vbox{}%
10645     \global\@firstcolumnfalse
10646     \newpage
10647 \fi
10648 }

```

76 File cvthemebidicasual.sty

```

10649 \NeedsTeXFormat{LaTeX2e}
10650 \ProvidesPackage{cvthemebidicasual}
10651 \DeclareOption{blue}{}
10652 \newif\if@colourorange\@colourorangefalse
10653 \DeclareOption{orange}{\@colourorange true}
10654 \newif\if@colourgreen\@colourgreenfalse
10655 \DeclareOption{green}{\@colourgreentrue}
10656 \newif\if@colourred\@colourredfalse
10657 \DeclareOption{red}{\@colourred true}
10658 \newif\if@colourgrey\@colourgreyfalse
10659 \DeclareOption{grey}{\@colourgrey true}
10660 \DeclareOption*{
10661     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10662 \ExecuteOptions{colour}
10663 \ProcessOptions\relax
10664 \renewcommand*{\listitemsymbol}{\textbullet}
10665 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10666 \familynamecolour{808080}
10667 \firstnamecolour{A9A9A9}
10668 \quotecolour{696969}
10669 \addresscolour{696969}
10670 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10671 \sectiontitlecolour{1E90FF}
10672 \subsectioncolour{4682B4}
10673 \definecolor{rulecolour}{gray}{0.6}
10674 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10675 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10676 \if@colourorange
10677     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10678     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10679     \sectiontitlecolour{FF8C00}
10680     \subsectioncolour{FF8C00}
10681     \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}

```



```

10682 \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10683 \if@colourgreen
10684 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10685 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10686 \sectiontitlecolour{008000}
10687 \subsectioncolour{008000}
10688 \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10689 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10690 \if@coloured
10691 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10692 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10693 \sectiontitlecolour{FF0000}
10694 \subsectioncolour{FF0000}
10695 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10696 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10697 \if@colourgrey
10698 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10699 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10700 \sectiontitlecolour{808080}
10701 \subsectioncolour{808080}
10702 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10703 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10704 \renewcommand*{\ttdefault}{pcr}
10705 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10706 \renewcommand*{\familynamefont}{\firstnamefont}
10707 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10708 \renewcommand*{\quoteftfont}{\large\slshape}
10709 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10710 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10711 \renewcommand*{\maketitle}{%
10712   {%
10713     \ifthenelse{\isundefined{\@photo}}{%
10714       {%
10715         {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}}%
10716         \hfill%
10717         \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\ll[-.35em]
10718         {\color{firstnamecolor}\rule{\textwidth}{.25ex}\ll[2.5em]}}%
10719         \ifthenelse{\isundefined{\@quote}}{%
10720           {%
10721             {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\ll[2.5em]}
10722           }%
10723 \newif\if@firstfooterelement\@firstfooterelementtrue
10724 \providecommand*{\footersymbol}{%
10725 \renewcommand*{\footersymbol}{%
10726 \if@firstfooterelement%
10727 \else%
10728 {~~\color{footersymbolcolor}\textbullet~~}\fi}
10729 \providecommand*{\makefooter}{%
10730 \renewcommand*{\makefooter}{%
10731 \fancypagestyle{plain}{%
10732 \fancyfoot[c]{%
10733 \parbox{0.8\textwidth}{%
10734 \centering%
10735 \addressfont\@addresscolour%

```




```

10736 \ifthenelse{\isundefined{\@address}}{}{%
10737 \addresssymbol~\@address\\%
10738 \@firstfooterelementfalse}%
10739 \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10740 \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10741 \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10742 \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\email\@firstfooterelementfalse}%
10743 \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}%
10744 }%
10745 \pagestyle{plain}}
10746 \AtBeginDocument{\makefooter}

```

77 File cvthemebidiclassic.sty

```

10747 \NeedsTeXFormat{LaTeX2e}
10748 \ProvidesPackage{cvthemebidiclassic}
10749 \DeclareOption{blue}{}
10750 \newif\if@colourorange\@colourorangefalse
10751 \DeclareOption{orange}{\@colourorange>true}
10752 \newif\if@colourgreen\@colourgreenfalse
10753 \DeclareOption{green}{\@colourgreen>true}
10754 \newif\if@colourred\@colourredfalse
10755 \DeclareOption{red}{\@colourred>true}
10756 \newif\if@colourgrey\@colourgreyfalse
10757 \DeclareOption{grey}{\@colourgrey>true}
10758 \DeclareOption*{
10759 \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10760 \ExecuteOptions{colour}
10761 \ProcessOptions\relax
10762 \renewcommand*{\listitemsymbol}{\textbullet}
10763 \firstnamecolour{}
10764 \familynamecolour{}
10765 \titlecolour{808080}
10766 \quotecolour{696969}
10767 \addresscolour{696969}
10768 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10769 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10770 \sectiontitlecolour{1E90FF}
10771 \subsectioncolour{4682B4}
10772 \if@colourorange
10773 \addresscolour{FF8C00}
10774 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10775 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10776 \sectiontitlecolour{FF8C00}
10777 \subsectioncolour{FF8C00}\fi
10778 \if@colourgreen
10779 \addresscolour{008000}
10780 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10781 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10782 \sectiontitlecolour{008000}
10783 \subsectioncolour{008000}\fi
10784 \if@colourred
10785 \addresscolour{FF0000}
10786 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}

```



```

10787 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10788 \sectiontitlecolour{FF0000}
10789 \subsectioncolour{FF0000}\fi
10790 \if@colourgrey
10791 \addresscolour{808080}
10792 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10793 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10794 \sectiontitlecolour{808080}
10795 \subsectioncolour{808080}\fi
10796 \renewcommand*{\ttdefault}{pcr}
10797 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10798 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10799 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10800 \renewcommand*{\familynamefont}{\firstnamefont}
10801 \renewcommand*{\quoteftfont}{\large\slshape}
10802 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10803 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10804 \newlength{\maketitlenamemaxwidth}
10805 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10806 \newlength{\maketitlenamefullwidth}
10807 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname~}}
10808 \newlength{\maketitlenamewidth}
10809 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}\fi
10810 \newlength{\maketitlepicturewidth}
10811 \setlength{\maketitlepicturewidth}{\@photowidth}
10812 \newlength{\maketitledetailwidth}
10813 \renewcommand*{\recomputethemelengths}{%
10814 \setlength{\maketitledetailwidth}{\textwidth}%
10815 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10816 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10817 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10818 \recomputethemelengths
10819 \newif\if@firstdetailselement\@firstdetailselementtrue
10820 \newcommand*{\maketitledetailsnewline}{%
10821 \if@firstdetailselement%
10822 \@firstdetailselementfalse%
10823 \else%
10824 \\\[.2em]\fi}
10825 \renewcommand*{\maketitle}{%
10826 % name and title
10827 \begin{minipage}[b]{\maketitlenamewidth}%
10828 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10829 \ifthenelse{equal{\@title}{}}{\}\{\}\[1.25em]\titlestyle{\@title}}{}%
10830 \end{minipage}%
10831 % optional data
10832 \begin{minipage}[b]{\maketitledetailwidth}%
10833 \bidi@raggedleft\addressfont\@addresscolour%
10834 \ifthenelse{\isundefined{\@address}}{\}\{\}%
10835 \maketitledetailsnewline%
10836 \addresssymbol~\\\@address}%
10837 \ifthenelse{\isundefined{\@mobile}}{\}\{\}\maketitledetailsnewline\mobilesymbol~\@mobile}%
10838 \ifthenelse{\isundefined{\@phone}}{\}\{\}\maketitledetailsnewline\phonesymbol~\@phone}%
10839 \ifthenelse{\isundefined{\@fax}}{\}\{\}\maketitledetailsnewline\faxsymbol~\@fax}%
10840 \ifthenelse{\isundefined{\@email}}{\}\{\}\maketitledetailsnewline\emailsymbol~\emailink{\@email}}{}%

```



```

10841 \ifthenelse{\isundefined{\@extrainfo}}{\maketitledetailsnewline\@extrainfo}%
10842 \end{minipage}%
10843 % optional photo
10844 \ifthenelse{\isundefined{\@photo}}%
10845 {}%
10846 {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10847 % optional quote
10848 \ifthenelse{\isundefined{\@quote}}%
10849 {}%
10850 {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\
10851 }

```

78 File dblfnote-xetex-bidi.def

```

10852 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote packag
10853 \let\autofootnoterule\relax
10854 \let\rightfootnoterule\relax
10855 \let\leftfootnoterule\relax
10856 \let\textwidthfootnoterule\relax
10857 \let\LRfootnoterule\relax
10858 \def\footnoterule{\kern-3\p@
10859 \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10860 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10861 \let\@footnotetext\dfn@footnotetext}
10862 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
10863 \let\insert\dfn@gobble
10864 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10865 \def\@makefnmark{\smash{\dfn@makefnmark}}
10866 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10867 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10868 \ifdim\dfn@dima>\z@\else
10869 \dfn@dima1sp\relax
10870 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10871 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10872 \ifvoid\dfn@ins\else
10873 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10874 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10875 \setbox\dfn@boxa\copy\dfn@ins
10876 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10877 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10878 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10879 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10880 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10881 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10882 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10883 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10884 \let\insert\dfn@gobble
10885 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10886 \def\@makefnmark{\smash{\dfn@makefnmark}}
10887 \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10888 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10889 \ifdim\dfn@dima>\z@\else
10890 \dfn@dima1sp\relax
10891 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi

```



```

10892 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10893 \ifvoid\dfn@ins\else
10894 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10895 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10896 \setbox\dfn@boxa\copy\dfn@ins
10897 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10898 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10899 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10900 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10901 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}\number\@tempdima}}}}
10902 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10903 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10904 \def\dfn@RTLmakecol{\ifvoid\footins\else
10905 \dfn@dima\ht\footins
10906 \@tempcnta\z@ \dfn@countins
10907 \@tempdima\z@ \let\@elt\dfn@elt@getht
10908 \dfn@list\@nil
10909 \ifdim\@tempdima=\z@\else
10910 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10911 \global\setbox\dfn@ins\box\dfn@ins
10912 \@tempswatrue
10913 \ifdfn@trysingle
10914 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10915 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10916 \advance\@tempdima-\skip\footins
10917 \advance\@tempdima-\ht\dfn@boxa
10918 \ifdim\@tempdima<\z@\else \@tempswafalse
10919 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10920 \footnoterule \unvbox\dfn@boxa}\fi\fi
10921 \if@tempswa
10922 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10923 \global\setbox\footins\vbox{\hbox{%
10924 \hspace \DFNcolumnwidth
10925 \hspace\DFNcolumnsep
10926 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10927 \unvbox\dfn@boxb\vss}\hss}
10928 \hspace -\textwidth
10929 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10930 \vbox to\@tempdima{
10931 \setbox\@tempboxa\vbox{\footnoterule}
10932 \ifdfn@ruleboth \unvbox\@tempboxa
10933 \else \@tempdima\ht\@tempboxa
10934 \advance\@tempdima\dp\@tempboxa
10935 \vskip\@tempdima
10936 \prevdepth\dp\@tempboxa \fi
10937 \unvbox\dfn@boxa\vss}\fi\hss}
10938 \hspace \DFNcolumnsep
10939 \hspace \DFNcolumnwidth}}}\fi\fi
10940 \global\dfn@fnht\z@
10941 \ifx\dfn@list\@empty\else
10942 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10943 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10944 \let\@elt\relax
10945 \ifdim\dfn@dimb>\z@

```



```

10946 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10947 \insert\footins{\floatingpenalty\@MM
10948 \vbox to\dfn@dimb{}}\fi
10949 \ifdim\dfn@fnht>\@tempdima
10950 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10951 \global\dfn@fnht\@tempdima
10952 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10953 \xdef\dfn@afteroutput{\insert\footins{
10954 \floatingpenalty\@MM
10955 \vbox to\number\@tempdimb sp{}}%
10956 \global\let\noexpand\dfn@afteroutput\relax}%
10957 \fi\fi
10958 \fi}%
10959 \let\footnoterule\relax \dfn@latex@makecol
10960 \let\footnoterule\dfn@footnoterule}
10961 \def\dfn@LTRmakecol{\ifvoid\footins\else
10962 \dfn@dim\ht\footins
10963 \@tempcnta\z@ \dfn@countins
10964 \@tempdima\z@ \let\@elt\dfn@elt@getht
10965 \dfn@list\@nil
10966 \ifdim\@tempdima=\z@\else
10967 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10968 \global\setbox\dfn@ins\box\dfn@ins
10969 \@tempswatrue
10970 \ifdfn@trysingle
10971 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10972 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10973 \advance\@tempdima-\skip\footins
10974 \advance\@tempdima-\ht\dfn@boxa
10975 \ifdim\@tempdima<\z@\else \@tempswafalse
10976 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10977 \footnoterule \unvbox\dfn@boxa}\fi\fi
10978 \if@tempswa
10979 \dfn@split{\dfn@dim}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10980 \global\setbox\footins\vbox{\hbox{%
10981 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10982 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10983 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10984 \vbox to\@tempdima{
10985 \setbox\@tempboxa\vbox{\footnoterule}
10986 \ifdfn@ruleboth \unvbox\@tempboxa
10987 \else \@tempdima\ht\@tempboxa
10988 \advance\@tempdima\dp\@tempboxa
10989 \vskip\@tempdima
10990 \prevdepth\dp\@tempboxa \fi
10991 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10992 \global\dfn@fnht\z@
10993 \ifx\dfn@list\@empty\else
10994 \let\@elt\dfn@elt@adjust \dfn@dim\z@ \dfn@dimb\z@
10995 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10996 \let\@elt\relax
10997 \ifdim\dfn@dimb>\z@
10998 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10999 \insert\footins{\floatingpenalty\@MM

```



```

11000 \vbox to\dfn@dimb{}}\fi
11001 \ifdim\dfn@fnht>\@tempdima
11002 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
11003 \global\dfn@fnht\@tempdima
11004 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
11005 \xdef\dfn@afteroutput{\insert\footins{
11006 \floatingpenalty\@MM
11007 \vbox to\number\@tempdimb sp{}}}%
11008 \global\let\noexpand\dfn@afteroutput\relax}%
11009 \fi\fi
11010 \fi}%
11011 \let\footnoterule\relax \dfn@latex@makecol
11012 \let\footnoterule\dfn@footnoterule}
11013 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
11014 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
11015 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
11016 \DFNalwaysdouble

```

79 File diagbox-xetex-bidi.def

```

11017 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package]
11018 \bidi@patchcmd{\diagbox@double}{%
11019 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11020 }{\bidi@@diagbox@double@ii}{-}{-}
11021 \bidi@patchcmd{\diagbox@double}{%
11022 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11023 }{\bidi@@diagbox@double@iii}{-}{-}
11024 \newcommand*{\bidi@@diagbox@double@ii}{%
11025 \if@RTL
11026 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
11027 \else
11028 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11029 \fi
11030 }
11031 \newcommand*{\bidi@@diagbox@double@iii}{%
11032 \if@RTL
11033 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11034 \else
11035 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11036 \fi
11037 }
11038 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11039 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11040 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11041 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11042 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11043 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11044 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11045 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11046 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11047 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
11048 \if@RTL
11049 \begin{tabular}{@{>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
11050 \else

```



```

11051 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11052 \fi}
11053 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
11054 \if@RTL
11055 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11056 \else
11057 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11058 \fi}
11059 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11060 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11061 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11062 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}%
11063 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11064 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11065 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}%
11066 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11067 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11068 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}%
11069 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
11070 \if@RTL
11071 \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}}
11072 \else
11073 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11074 \fi
11075 }
11076 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11077 \if@RTL
11078 \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11079 \else
11080 \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}}
11081 \fi
11082 }
11083 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11084 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11085 \diagbox@setlinecolor
11086 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11087 }{%
11088 {\diagbox@setlinecolor
11089 \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11090 }{-}{-}
11091 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11092 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11093 \diagbox@setlinecolor
11094 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
11095 }{%
11096 {\diagbox@setlinecolor
11097 \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11098 }{-}{-}
11099 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11100 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11101 \diagbox@setlinecolor
11102 \Line(0,\yym)(\x,0)
11103 \Line(\xm,\y)(\x,0)%
11104 }{%

```




```

11105 {\diagbox@setlinecolor
11106 \Line(0,\yym)(\x,0)
11107 \Line(\xm,\y)(\x,0)}%
11108 }{}{}
11109 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11110 \diagbox@setlinecolor
11111 \Line(0,0)(\xxm,\y)
11112 \Line(0,0)(\x,\yym)%
11113 }{%
11114 {\diagbox@setlinecolor
11115 \Line(0,0)(\xxm,\y)
11116 \Line(0,0)(\x,\yym)}%
11117 }{}{}
11118 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11119 \diagbox@setlinecolor
11120 \Line(0,\ym)(\x,\y)
11121 \Line(\xm,0)(\x,\y)%
11122 }{%
11123 {\diagbox@setlinecolor
11124 \Line(0,\ym)(\x,\y)
11125 \Line(\xm,0)(\x,\y)}%
11126 }{}{}
11127 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11128 \diagbox@setlinecolor
11129 \Line(0,\y)(\xxm,0)
11130 \Line(0,\y)(\x,\ym)%
11131 }{%
11132 {\diagbox@setlinecolor
11133 \Line(0,\y)(\xxm,0)
11134 \Line(0,\y)(\x,\ym)}%
11135 }{}{}

```

80 File draftwatermark-xetex-bidi.def

```

11136 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwatermark]
11137 \renewcommand\SetWatermarkText[1]{%
11138 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

81 File eso-pic-xetex-bidi.def

```

11139 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package]
11140 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11141 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}
11142
11143 \ESO@isMEMOIR{%
11144 \renewcommand\AtTextUpperLeft[1]{%
11145 \begingroup
11146 \ifodd\c@page
11147 \if@RTLmain
11148 \ESO@tempdima=\paperwidth
11149 \advance\ESO@tempdima-\textwidth
11150 \advance\ESO@tempdima-\spinewidth
11151 \else
11152 \ESO@tempdima=\spinewidth

```




```

11153     \fi
11154   \else
11155     \if@RTLmain
11156       \ESO@tempdima=\spinemargin
11157     \else
11158       \ESO@tempdima=\paperwidth
11159       \advance\ESO@tempdima-\textwidth
11160       \advance\ESO@tempdima-\spinemargin
11161     \fi
11162   \fi
11163   \ESO@tempdimb=-\uppermargin
11164   \AtPageUpperLeft{%
11165     \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11166   }%
11167 \endgroup
11168 }
11169 }{%
11170 \renewcommand\AtTextUpperLeft[1]{%
11171 \begingroup
11172   \ESO@tempdima=1in\relax
11173   \if@twoside
11174     \ifodd\c@page
11175       \if@RTLmain
11176         \advance\ESO@tempdima\evensidemargin
11177       \else
11178         \advance\ESO@tempdima\oddsidemargin
11179       \fi
11180     \else
11181       \if@RTLmain
11182         \advance\ESO@tempdima\oddsidemargin
11183       \else
11184         \advance\ESO@tempdima\evensidemargin
11185       \fi
11186     \fi
11187   \else
11188     \advance\ESO@tempdima\oddsidemargin
11189   \fi
11190   \ESO@tempdimb=-1in\relax
11191   \advance\ESO@tempdimb-\topmargin
11192   \advance\ESO@tempdimb-\headheight
11193   \advance\ESO@tempdimb-\headsep
11194   \AtPageUpperLeft{%
11195     \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11196   }%
11197 \endgroup
11198 }
11199 }

```

82 File empheq-xetex-bidi.def

```

11200 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package fo
11201 \MHInternalSyntaxOn
11202 \def\EQ_tag_plus_endmark:{%
11203   \iftagsleft@

```



```

11204 \gdef\maketag@@@#1{%
11205 \hfuzz\displaywidth
11206 \ifRTL\makebox[\widthof{##1}][r]{%
11207 \hbox to \displaywidth{\m@th\normalfont##1\hss
11208 \raisebox{-\dp\EQ_mathdisplay_box
11209 -\depthof{\EQ_outerbox:}}{
11210 {\PotEndMark{\hss}}}}
11211 \else\makebox[\widthof{##1}][l]{%
11212 \hbox to \displaywidth{\m@th\normalfont##1\hss
11213 \raisebox{-\dp\EQ_mathdisplay_box
11214 -\depthof{\EQ_outerbox:}}{
11215 {\PotEndMark{\hss}}}}}\fi}%
11216 \MH_else:
11217 \gdef\maketag@@@#1{%
11218 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11219 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11220 \MH_addtolength:dn \@tempdima
11221 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11222 \setlength{\@tempdimb}
11223 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11224 +\depthof{\EQ_innerbox:}}}}
11225 \MH_if_dim:w \@tempdima>\@tempdimb
11226 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11227 -\@tempdima+\g_EQ_bottomrow_depth_dim}
11228 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11229 \def\EQ_next:{\raisebox{\@tempdima}}%
11230 \MH_else:
11231 \def\EQ_next:{
11232 \raisebox{-\dp\EQ_mathdisplay_box
11233 -\depthof{\EQ_outerbox:}}}%
11234 \MH_fi:\EQ_next:}}}%
11235 \MH_fi:}
11236 \def\EQ_post_process:{%
11237 \EQ_initialize:
11238 \EQ_begin_equation:
11239 \MH_if_boolean:nT {outer_mult}{
11240 \setkeys{\MT_options_name}{
11241 firstline-afterskip=Opt,
11242 lastline-preskip=Opt,
11243 multlined-width=Opt,
11244 }
11245 \ifodd \l_EQ_alignmentmode_int
11246 \setkeys{\MT_options_name}{multlined-pos=b}
11247 \MH_else:
11248 \setkeys{\MT_options_name}{multlined-pos=t}
11249 \MH_fi:
11250 \g@addto@macro\EQ_complete_mathdisplay:{
11251 \begin{MTmultlined}\relax
11252 }
11253 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11254 \MH_if_boolean:nT {outer_mult}{
11255 \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11256 }
11257 \EQ_end_equation:

```



```

11258 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11259 \savecounters@
11260 \EQ_typeset_tags:
11261 \edef\l_EQ_equation_fint{\number\c@equation}
11262 \restorecounters@
11263 \Hy@linkcounter=\EQ_hyperref_link_fint
11264 \settowidth\l_EQ_totalwidth_dim{%
11265   $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
11266 \MH_if_boolean:nTF {outer_mult}
11267   { \def\EQ_next:{_mult} }
11268   { \def\EQ_next:{} }
11269 \@nameuse{EQ_modify_linewidth_
11270   \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11271 \EQ_typeset_display:
11272 \@nameuse{EQ_find_displaywidth_
11273   \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11274 \MH_addtolength:dn
11275   \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11276 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11277   $\EQ_left_side:
11278   \EQ_innerbox:{%
11279     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11280     \makebox[\l_EQ_displaywidth_dim][c]
11281     {\usebox{\EQ_mathdisplay_box}}%
11282   \MH_or:
11283     \makebox[\l_EQ_displaywidth_dim][c]
11284     {\usebox{\EQ_mathdisplay_box}}%
11285   \MH_or:
11286     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11287       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11288         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11289           \kern-\@mathmargin
11290           \MH_fi:
11291           \MH_fi:
11292           \usebox{\EQ_mathdisplay_box}}%
11293     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11294       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11295         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11296           \kern-\@mathmargin
11297           \MH_fi:
11298           \MH_fi:
11299           \usebox{\EQ_mathdisplay_box}}\fi%
11300   \MH_or:
11301     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11302       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11303         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11304           \kern-\@mathmargin
11305           \MH_fi:
11306           \MH_fi:
11307           \usebox{\EQ_mathdisplay_box}}
11308     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11309       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11310         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11311           \kern-\@mathmargin

```



```

11312         \MH_fi:
11313         \MH_fi:
11314         \usebox{\EQ_mathdisplay_box}}\fi%
11315         \MH_fi:}%
11316         \EQ_right_side:$}%
11317         \begin{AmSequation*}
11318         \@nameuse{EQ_place_display_
11319             \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11320         \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11321         \MH_set_boolean_T:n {show_manual_tags}
11322         \MH_if_case:w \l_EQ_alignmentmode_int
11323         \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11324         \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11325         \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11326         \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11327         \MH_fi:
11328         \MH_fi:
11329         \end{AmSequation*}
11330         \global\c@equation=\l_EQ_equation_fint\relax
11331     }
11332 \AtBeginDocument{%
11333     \@ifpackageloaded{fancybox}{%
11334         \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11335         {\renewcommand*{\textcolor[2]{\normalcolor{#2}}}%
11336         \renewcommand*{\shadowbox{%
11337             \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11338                 \VerbBox\EQ_shadowbox:n}
11339                 {\MH_set_boolean_F:n {shadowbox_star}
11340                 \VerbBox\EQ_shadowbox:n}}
11341         \def\EQ_shadowbox:n #1{%
11342             \sbox{\z@}{\fbox{#1}}%
11343             \MH_if_boolean:nTF {shadowbox_star}{
11344                 \MH_setlength:dn \@tempdima{\z@}%
11345             }{
11346                 \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11347             }
11348             \raisebox{\@tempdima}{%
11349                 \if@RTL\makebox[\z@][r]{%
11350                     \kern\shadowsize \textcolor{shadowcolor}{%
11351                         \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11352                 }%
11353                 \else\makebox[\z@][l]{%
11354                     \kern\shadowsize \textcolor{shadowcolor}{%
11355                         \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11356                 }\fi%
11357                 \usebox\z@\textcolor{shadowcolor}{%
11358                     \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11359             }{}}%
11360     }
11361 \MHInternalSyntaxOff

```

83 File extarticle-xetex-bidi.def

11362 \ProvidesFile{extarticle-xetex-bidi.def}[2025/09/08 v0.7 bidi adaptations for extarticle cl



```

11363 \renewcommand*\l@section[2]{%
11364   \ifnum \c@tocdepth >\z@
11365     \addpenalty\@secpenalty
11366     \addvspace{1.0em \@plus\p@}%
11367     \setlength\@tempdima{1.5em}%
11368     \begingroup
11369       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11370       \parfillskip -\@pnumwidth
11371       \leavevmode \bfseries
11372       \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
11373       \hskip -\if@RTL\rightskip\else\leftskip\fi
11374       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11375     \endgroup
11376   \fi}
11377 \renewcommand*\l@part[2]{%
11378   \ifnum \c@tocdepth >-2\relax
11379     \addpenalty\@secpenalty
11380     \addvspace{2.25em \@plus\p@}%
11381     \begingroup
11382       \setlength\@tempdima{3em}%
11383       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11384       \parfillskip -\@pnumwidth
11385       {\leavevmode
11386         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11387       \nobreak
11388     \endgroup
11389   \fi}
11390 \ApplyPatchIfPackageLoaded{nameref}{%
11391   \bidi@patchcmd\NR@part\raggedright{%
11392     \if@RTL\raggedleft\else\raggedright\fi
11393   }{}{\bidi@warningnoline{Oops! patching `string\NR@part' failed}}%
11394   \bidi@patchcmd\NR@spart\raggedright{%
11395     \if@RTL\raggedleft\else\raggedright\fi
11396   }{}{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}%
11397 }{%
11398   \bidi@patchcmd\@part\raggedright{%
11399     \if@RTL\raggedleft\else\raggedright\fi
11400   }{}{\bidi@warningnoline{Oops! patching `string\@part' failed}}%
11401   \bidi@patchcmd\@spart\raggedright{%
11402     \if@RTL\raggedleft\else\raggedright\fi
11403   }{}{\bidi@warningnoline{Oops! patching `string\@spart' failed}}%
11404 }
11405 \renewenvironment{thebibliography}[1]
11406   {\section*{\refname
11407     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11408     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11409     \bidi@thebibliography@font@hook%
11410     \list{\@biblabel{\@arabic\c@enumiv}}%
11411       {\settowidth\labelwidth{\@biblabel{#1}}%
11412        \leftmargin\labelwidth
11413        \advance\leftmargin\labelsep
11414        \@openbib@code
11415        \usecounter{enumiv}%
11416        \let\p@enumiv\@empty

```



```

11417         \renewcommand\theenumiv{\@arabic\c@enumiv}}}%
11418         \sloppy\clubpenalty4000\widowpenalty4000%
11419         \sfcode\.\@m}
11420     {\def\@noitemerr
11421      {\@latex@warning{Empty `thebibliography' environment}}}%
11422     \endlist}
11423 \renewcommand\left@footnoterule{%
11424   \kern-3\p@
11425   \hrule\@width.4\columnwidth
11426   \kern2.6\p@}
11427 \renewcommand\right@footnoterule{%
11428   \kern-3\p@
11429   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11430   \kern2.6\p@}
11431   \if@titlepage
11432   \renewcommand\maketitle{\begin{titlepage}%
11433     \let\footnotesize\small
11434     \let\right@footnoterule\relax
11435     \let\left@footnoterule\relax
11436     \let\textwidth\footnoterule\relax
11437     \let \footnote \thanks
11438     \null\vfil
11439     \vskip 60\p@
11440     \begin{center}%
11441       {\LARGE \@title \par}%
11442       \vskip 3em%
11443       {\large
11444         \lineskip .75em%
11445         \begin{tabular}[t]{c}%
11446           \@author
11447           \end{tabular}\par}%
11448         \vskip 1.5em%
11449         {\large \@date \par}%           % Set date in \large size.
11450       \end{center}\par
11451       \@thanks
11452       \vfil\null
11453       \end{titlepage}%
11454       \setcounter{footnote}{0}%
11455       \global\let\thanks\relax
11456       \global\let\maketitle\relax
11457       \global\let\@thanks\@empty
11458       \global\let\@author\@empty
11459       \global\let\@date\@empty
11460       \global\let\@title\@empty
11461       \global\let\title\relax
11462       \global\let\author\relax
11463       \global\let\date\relax
11464       \global\let\and\relax
11465   }
11466   \else
11467   \renewcommand\maketitle{\par
11468     \begingroup
11469     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11470     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%

```



```

11471 \long\def\@makefntext##1{\parindent 1em\noindent
11472 \hb@xt@1.8em{%
11473 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11474 \if@twocolumn
11475 \ifnum \col@number=\@ne
11476 \@maketitle
11477 \else
11478 \twocolumn[\@maketitle]%
11479 \fi
11480 \else
11481 \newpage
11482 \global\@topnum\z@ % Prevents figures from going at top of page.
11483 \@maketitle
11484 \fi
11485 \thispagestyle{plain}\@thanks
11486 \endgroup
11487 \setcounter{footnote}{0}%
11488 \global\let\thanks\relax
11489 \global\let\maketitle\relax
11490 \global\let\@maketitle\relax
11491 \global\let\@thanks\@empty
11492 \global\let\@author\@empty
11493 \global\let\@date\@empty
11494 \global\let\@title\@empty
11495 \global\let\title\relax
11496 \global\let\author\relax
11497 \global\let\date\relax
11498 \global\let\and\relax
11499 }
11500 \def\@maketitle{%
11501 \newpage
11502 \null
11503 \vskip 2em%
11504 \begin{center}%
11505 \let \footnote \thanks
11506 {\LARGE \@title \par}%
11507 \vskip 1.5em%
11508 {\large
11509 \lineskip .5em%
11510 \begin{tabular}[t]{c}%
11511 \@author
11512 \end{tabular}\par}%
11513 \vskip 1em%
11514 {\large \@date}%
11515 \end{center}%
11516 \par
11517 \vskip 1.5em}
11518 \fi
11519 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
11520 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\csubsubsection}
11521 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\cparagraph}
11522 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\csubparagraph}%%

```



84 File extbook-xetex-bidi.def

```

11523 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class fo
11524 \if@titlepage
11525 \renewcommand\maketitle{\begin{titlepage}%
11526 \let\footnotesize\small
11527 \let\right@footnoterule\relax
11528 \let\left@footnoterule\relax
11529 \let\textwidth@footnoterule\relax
11530 \let \footnote \thanks
11531 \let \LTRfootnote \LTRthanks
11532 \let \RTLfootnote \RTLthanks
11533 \null\vfil
11534 \vskip 60\p@
11535 \begin{center}%
11536 {\LARGE \@title \par}%
11537 \vskip 3em%
11538 {\large
11539 \lineskip .75em%
11540 \begin{tabular}[t]{c}%
11541 \@author
11542 \end{tabular}\par}%
11543 \vskip 1.5em%
11544 {\large \@date \par}% % Set date in \large size.
11545 \end{center}\par
11546 \@thanks
11547 \vfil\null
11548 \end{titlepage}%
11549 \setcounter{footnote}{0}%
11550 \global\let\thanks\relax
11551 \global\let\LTRthanks\relax
11552 \global\let\RTLthanks\relax
11553 \global\let\maketitle\relax
11554 \global\let\@thanks\@empty
11555 \global\let\@author\@empty
11556 \global\let\@date\@empty
11557 \global\let\@title\@empty
11558 \global\let\title\relax
11559 \global\let\author\relax
11560 \global\let\date\relax
11561 \global\let\and\relax
11562 }
11563 \else
11564 \renewcommand\maketitle{\par
11565 \begingroup
11566 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11567 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11568 \long\def\@makefntext##1{\parindent 1em\noindent
11569 \hb@xt@1.8em{%
11570 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11571 \if@twocolumn
11572 \ifnum \col@number=\@ne
11573 \maketitle
11574 \else

```




```

11575         \twocolumn[\@maketitle]%
11576     \fi
11577 \else
11578     \newpage
11579     \global\@topnum\z@    % Prevents figures from going at top of page.
11580     \@maketitle
11581 \fi
11582 \thispagestyle{plain}\@thanks
11583 \endgroup
11584 \setcounter{footnote}{0}%
11585 \global\let\thanks\relax
11586 \global\let\LTRthanks\relax
11587 \global\let\RTLthanks\relax
11588 \global\let\maketitle\relax
11589 \global\let\@maketitle\relax
11590 \global\let\@thanks\@empty
11591 \global\let\@author\@empty
11592 \global\let\@date\@empty
11593 \global\let\@title\@empty
11594 \global\let\title\relax
11595 \global\let\author\relax
11596 \global\let\date\relax
11597 \global\let\and\relax
11598 }
11599 \def\@maketitle{%
11600     \newpage
11601     \null
11602     \vskip 2em%
11603     \begin{center}%
11604         \let \footnote \thanks
11605         \let \LTRfootnote \LTRthanks
11606         \let \RTLfootnote \RTLthanks
11607         {\LARGE \@title \par}%
11608         \vskip 1.5em%
11609         {\large
11610             \lineskip .5em%
11611             \begin{tabular}[t]{c}%
11612                 \@author
11613             \end{tabular}\par}%
11614         \vskip 1em%
11615         {\large \@date}%
11616     \end{center}%
11617     \par
11618     \vskip 1.5em}
11619 \fi
11620 \renewcommand*{\l@part[2]}{%
11621     \ifnum \c@tocdepth >-2\relax
11622         \addpenalty{-\@highpenalty}%
11623         \advspace{2.25em \@plus\p@}%
11624         \begingroup
11625             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11626             \parfillskip -\@pnumwidth
11627             {\leavevmode
11628                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par

```



```

11629      \nobreak
11630      \global\@nobreaktrue
11631      \everypar{\global\@nobreakfalse\everypar{}}%
11632  \endgroup
11633  \fi}
11634 \renewcommand\theequation
11635  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11636 \renewcommand \thefigure
11637  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11638 \renewcommand \thetable
11639  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11640 \renewcommand \thechapter {\@arabic\c@chapter}
11641 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11642 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11643 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11644 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11645 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
11646 \def\@makechapterhead#1{%
11647   \vspace*{50\p@}%
11648   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11649     \ifnum \c@secnumdepth >\m@ne
11650       \if@mainmatter
11651         \huge\bfseries \@chapapp\space \thechapter
11652         \par\nobreak
11653         \vskip 20\p@
11654       \fi
11655     \fi
11656     \interlinepenalty\@M
11657     \Huge \bfseries #1\par\nobreak
11658     \vskip 40\p@
11659   }}
11660
11661 \def\@makeschapterhead#1{%
11662   \vspace*{50\p@}%
11663   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11664     \normalfont
11665     \interlinepenalty\@M
11666     \Huge \bfseries #1\par\nobreak
11667     \vskip 40\p@
11668   }}
11669 \renewcommand\backmatter{%
11670   \if@openright
11671     \cleardoublepage
11672   \else
11673     \clearpage
11674   \fi
11675   \@mainmatterfalse}
11676 \renewenvironment{thebibliography}[1]
11677   {\chapter*{\bibname
11678     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11679     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11680     \bidi@thebibliography@font@hook%
11681     \list{\@biblabel{\@arabic\c@enumiv}}%
11682     {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

11683         \leftmargin\labelwidth
11684         \advance\leftmargin\labelsep
11685         \@openbib@code
11686         \usecounter{enumiv}%
11687         \let\p@enumiv\@empty
11688         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11689     \sloppy
11690     \clubpenalty4000
11691     \@clubpenalty \clubpenalty
11692     \widowpenalty4000%
11693     \sfcode`\.\@m}
11694 {\def\@noitemerr
11695   {\@latex@warning{Empty `thebibliography' environment}}}%
11696   \endlist}

```

85 File extletter-xetex-bidi.def

```

11697 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter clas
11698 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11699   \thispagestyle{firstpage}%
11700   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11701   \else % home address
11702     \thispagestyle{empty}%
11703     {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignor
11704       \fromaddress \*[2\parskip]%
11705       \@date \end{tabular}\par}%
11706   \fi
11707   \vspace{2\parskip}%
11708   {\if@RTL\raggedleft\else\raggedright\fi \toname \[2\parskip] \toaddress \par}%
11709   \vspace{2\parskip}%
11710   #1\par\nobreak}
11711 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11712   \stopbreaks
11713   \noindent
11714   \ifx\@empty\fromaddress\else
11715     \hspace*{\longindentation}\fi
11716   \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11717     \ignorespaces #1\[[6\medskipamount]%
11718     \ifx\@empty\fromsig
11719       \fromname
11720     \else \fromsig \fi\strut}%
11721   \par}
11722 \renewcommand\left@footnoterule{%
11723   \kern-\p@
11724   \hrule \@width .4\columnwidth
11725   \kern .6\p@}
11726 \renewcommand\right@footnoterule{%
11727   \kern-\p@
11728   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11729   \kern .6\p@}

```

86 File extrafootnotefeatures-xetex-bidi.def

```

11730 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/09/13 v2.8 bidi extra footnote fea

```



```

11731 \newdimen\bidicolumnwidth
11732 \def\bidifloathook{%
11733   \bidicolumnwidth\columnwidth
11734 }
11735 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11736 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11737 \if@bidi@csundef{HLTR@LTrfootnotetext}{-}{%
11738 \ifHy@hyperfootnotes
11739   \let\@H@footnotetext\@footnotetext
11740   \let\@HLTR@LTrfootnotetext\@LTrfootnotetext
11741   \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11742   \let\@H@mpfootnotetext\@mpfootnotetext
11743   \let\@HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11744   \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11745 \fi
11746 }%
11747 }%
11748 }
11749 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11750 \if@bidi@csundef{ifHy@hyperfootnotes}{-}{%
11751 \if@bidi@csundef{HLTR@LTrfootnotetext}{-}{%
11752 \ifHy@hyperfootnotes
11753   \let\H@footnotetext\@footnotetext
11754   \let\@footnotetext\@H@footnotetext
11755   \let\HLTR@LTrfootnotetext\@LTrfootnotetext
11756   \let\@LTrfootnotetext\@HLTR@LTrfootnotetext
11757   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11758   \let\@RTLfootnotetext\@HRTL@RTLfootnotetext
11759   \let\H@mpfootnotetext\@mpfootnotetext
11760   \let\@mpfootnotetext\@H@mpfootnotetext
11761   \let\HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11762   \let\@mpLTrfootnotetext\@HLTR@mpLTrfootnotetext
11763   \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11764   \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
11765 \fi
11766 }%
11767 }%
11768 }
11769 \let\autofootnoterule\relax
11770 \let\rightfootnoterule\relax
11771 \let\leftfootnoterule\relax
11772 \let\textwidthfootnoterule\relax
11773 \let\LRfootnoterule\relax
11774 \def\footnoterule{\kern-3\p@
11775   \hrule \@width \columnwidth \kern 2.6\p@}
11776 \newcommand{\@preamnormalfmt}{%
11777   \parindent 1em%
11778   \noindent
11779 }
11780 \newcommand{\@normalfootfmt}[1]{%
11781   \@preamnormalfmt
11782   \footfootmark
11783   \rule{z@}{\footnotesep}\ignorespaces{\foottextfont #1}%
11784   \@finalstrut\strutbox

```



```

11785 }
11786 \newcommand{\@normalRTLfootfmt}[1]{%
11787   \@preamnormalfmt
11788   \RTLfootfootmark
11789   \rule{z@\footnotesep\ignorespaces}{\RTLfoottextfont #1}%
11790   \@finalstrut\strutbox
11791 }
11792 \newcommand{\@normalLTRfootfmt}[1]{%
11793   \@preamnormalfmt
11794   \LTRfootfootmark
11795   \rule{z@\footnotesep\ignorespaces}{\LTRfoottextfont #1}%
11796   \@finalstrut\strutbox
11797 }
11798 \renewcommand{\@footnotetext}[1]{%
11799   \insert\footins{%
11800     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11801     \def\baselinestretch{\m@m@footnote@spacing}%
11802     \reset@font
11803     \foottextfont
11804     \@preamfntext
11805     \hsize\columnwidth
11806     \protected@edef\@currentlabel{%
11807       \csname p@footnote\endcsname\@thefnmark}%
11808     \color@begingroup
11809       \@normalfootfmt{#1}%
11810     \color@endgroup}%
11811     \m@mmf@prepare}
11812 \renewcommand{\@RTLfootnotetext}[1]{%
11813   \insert\footins{%
11814     \@RTLtrue%
11815     \def\baselinestretch{\m@m@footnote@spacing}%
11816     \reset@font
11817     \RTLfoottextfont
11818     \@preamfntext
11819     \hsize\columnwidth
11820     \protected@edef\@currentlabel{%
11821       \csname p@footnote\endcsname\@thefnmark}%
11822     \color@begingroup
11823       \@normalRTLfootfmt{#1}%
11824     \color@endgroup}%
11825     \m@mmf@prepare}
11826 \renewcommand{\@LTRfootnotetext}[1]{%
11827   \insert\footins{%
11828     \@RTLfalse%
11829     \def\baselinestretch{\m@m@footnote@spacing}%
11830     \reset@font
11831     \LTRfoottextfont
11832     \@preamfntext
11833     \hsize\columnwidth
11834     \protected@edef\@currentlabel{%
11835       \csname p@footnote\endcsname\@thefnmark}%
11836     \color@begingroup
11837       \@normalLTRfootfmt{#1}%
11838     \color@endgroup}%

```



```

11839 \m@mmf@prepare}
11840 \renewcommand{\@mpfootnotetext}[1]{%
11841 \global\setbox\@mpfootins\vbox{%
11842 \unvbox\@mpfootins
11843 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11844 \def\baselinestretch{\m@m@footnote@spacing}%
11845 \reset@font%
11846 \foottextfont \hsize\columnwidth \@parboxrestore
11847 \protected@edef\@currentlabel{%
11848 \csname p@mpfootnote\endcsname\@thefnmark}%
11849 \color@begingroup
11850 \@normalfootfmt{#1}%
11851 \color@endgroup}}
11852 \renewcommand{\@mpLTRfootnotetext}[1]{%
11853 \global\setbox\@mpfootins\vbox{%
11854 \unvbox\@mpfootins
11855 \@RTLfalse
11856 \def\baselinestretch{\m@m@footnote@spacing}%
11857 \reset@font%
11858 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11859 \protected@edef\@currentlabel{%
11860 \csname p@mpfootnote\endcsname\@thefnmark}%
11861 \color@begingroup
11862 \@normalLTRfootfmt{#1}%
11863 \color@endgroup}}
11864 \renewcommand{\@mpRTLfootnotetext}[1]{%
11865 \global\setbox\@mpfootins\vbox{%
11866 \unvbox\@mpfootins
11867 \@RTLtrue
11868 \def\baselinestretch{\m@m@footnote@spacing}%
11869 \reset@font%
11870 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11871 \protected@edef\@currentlabel{%
11872 \csname p@mpfootnote\endcsname\@thefnmark}%
11873 \color@begingroup
11874 \@normalRTLfootfmt{#1}%
11875 \color@endgroup}}
11876 \let\m@mold@footnotetext\@footnotetext
11877 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11878 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11879 \let\m@mold@mpfootnotetext\@mpfootnotetext
11880 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11881 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11882 \bidi@ensure@newcommand{\normalfootnotes}{%
11883 \@bidi@before@Hy@hyperfootnotes
11884 \let\@footnotetext\m@mold@footnotetext
11885 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11886 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11887 \let\@mpfootnotetext\m@mold@mpfootnotetext
11888 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11889 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11890 \@bidi@after@Hy@hyperfootnotes
11891 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11892 }

```



```

11893 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11894 \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
11895   \def\m@m@singlespace{#1}%
11896   \def\m@m@footnote@spacing{#1}%
11897   \def\m@m@float@spacing{#1} %
11898 }
11899 \setSingleSpace{1}
11900 \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
11901 \bidi@ensure@newcommand*{\m@m@mmf@prepare}{%
11902   \kern-\multiplefootnotemarker
11903   \kern\multiplefootnotemarker\relax}
11904 \bidi@ensure@newlength{\footmarkwidth}
11905 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
11906 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11907 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11908 \bidi@ensure@newcommand{\footfootmark}{%
11909   \ifdim\footmarkwidth < \z@
11910     \llap{\hb@xt@ -\footmarkwidth{%
11911       \hss\normalfont\footscript{\@thefnmark}}}%
11912     \hspace*{-\footmarkwidth}}%
11913   \else
11914     \ifdim\footmarkwidth = \z@
11915       {\normalfont\footscript{\@thefnmark}}%
11916     \else
11917       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11918     \fi
11919   \fi}
11920 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11921   \ifdim\footmarkwidth < \z@
11922     \llap{\hb@xt@ -\footmarkwidth{%
11923       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11924     \hspace*{-\footmarkwidth}}%
11925   \else
11926     \ifdim\footmarkwidth = \z@
11927       {\normalfont\LTRfootscript{\@thefnmark}}%
11928     \else
11929       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11930     \fi
11931   \fi}
11932 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11933   \ifdim\footmarkwidth < \z@
11934     \llap{\hb@xt@ -\footmarkwidth{%
11935       \hss\normalfont\RTLfootscript{\@thefnmark}}}%
11936     \hspace*{-\footmarkwidth}}%
11937   \else
11938     \ifdim\footmarkwidth = \z@
11939       {\normalfont\RTLfootscript{\@thefnmark}}%
11940     \else
11941       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11942     \fi
11943   \fi}
11944 \footmarkstyle{\textsuperscript{#1}}
11945 \LTRfootmarkstyle{\textsuperscript{#1}}
11946 \RTLfootmarkstyle{\textsuperscript{#1}}

```



```

11947 \newcommand*{\bidi@normal@footmarkwidth}{%
11948   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11949 }
11950 \newcommand*{\bidi@star@footmarkwidth}{%
11951   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11952 }
11953 \bidi@normal@footmarkwidth
11954 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11955 \bidi@ensure@newcommand*{\extrafeetins}{%
11956   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11957   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11958   \bidi@joinfootnotes\@bidi@copyins@{\unvbox\@bidi@copyins@}%
11959   \extrafeetinshook}
11960 \bidi@ensure@newcommand{\extrafeetinshook}{}
11961 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11962 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11963 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11964 \bidi@ensure@newlength{\footinsdim}
11965   \setlength{\footinsdim}{8in} % standard for \dimen\footins
11966 \bidi@ensure@newcommand{\@preamfntext}{%
11967   \interlinepenalty\interfootnotelinepenalty
11968   \floatingpenalty \@MM
11969   \splittopskip=\footnotesep
11970   \splitmaxdepth=\dp\strutbox
11971   \@parboxrestore}
11972 \def\bidi@ifmulticol#1#2{\@tempswafalse
11973   \ifnum\col@number>\@ne
11974     \ifnum\count\footins>1999 \@tempswatrue \fi
11975   \fi
11976   \if@tempswa #1\else #2\fi
11977 }
11978 \def\bidi@joinfootnotes#1#2#3{%
11979   \ifvoid#1
11980   \else
11981     \@tempskipa\skip#1%
11982     \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%
11983     \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
11984     \bidi@removexfootskip
11985     \ifvoid\footins
11986       \global\setbox\footins\vbox{#2#3}%
11987     \else
11988       \global\setbox\footins\vbox{%
11989         \unvbox\footins
11990         \bidi@footskip
11991         #2#3%
11992       }%
11993     \fi
11994   \fi
11995 }
11996 \def\bidi@joinmpfootnotes#1#2#3{%
11997   \ifvoid#1
11998   \else
11999     \@tempskipa\skip#1%
12000     \bidi@ifmulticol{\divide\@tempskipa\col@number}{}%

```




```

12001 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
12002 \bidi@removexfootskip
12003 \ifvoid\@mpfootins
12004 \global\setbox\@mpfootins\vbox{#2#3}%
12005 \else
12006 \global\setbox\@mpfootins\vbox{%
12007 \unvbox\@mpfootins
12008 \bidi@footskip
12009 #2#3%
12010 }%
12011 \fi
12012 \fi
12013 }
12014 \bidi@ensure@newcommand{\m@mndoextrafeetmini}{\%
12015 \extrafeetminihook}
12016 \bidi@ensure@newcommand{\extrafeetendmini}{\%
12017 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12018 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12019 \extrafeetendminihook}
12020 \bidi@ensure@newcommand{\extrafeetendminihook}{\}
12021 \bidi@ensure@newcommand{\m@mndoextrafeetendmini}{\extrafeetendmini}
12022 \def\endminipage{%
12023 \par
12024 \unskip
12025 \m@mndoextrafeetendmini
12026 \ifvoid\@mpfootins
12027 \else
12028 \vskip\skip\@mpfootins
12029 \normalcolor
12030 \footnoterule
12031 \unvbox\@mpfootins
12032 \fi
12033 \@minipagefalse
12034 \color@endgroup
12035 \egroup
12036 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12037 \bidi@ensure@newcommand{\m@make@footstart}[1]{\%
12038 \@namedef{\footstart#1}{\%
12039 \leftskip=\z@
12040 \rightskip=\z@
12041 \parindent=\z@
12042 }%
12043 }
12044 \newinsert\footinsv@r
12045 \skip\footinsv@r\skip\footins
12046 \count\footinsv@r=1000 % no magnification
12047 \dimen\footinsv@r=\footinsdim
12048 \m@make@footstart{v@r}
12049 \newinsert\footinsv@l
12050 \skip\footinsv@l\skip\footins
12051 \count\footinsv@l=1000 % no magnification
12052 \dimen\footinsv@l=\footinsdim
12053 \m@make@footstart{v@l}
12054 \bidi@ensure@newcommand{\@footgroupv@r}{\}

```



```

12055 \newinsert\@mpfootinsv@r
12056 \skip\@mpfootinsv@r\skip\@mpfootins
12057 \newinsert\@mpfootinsv@l
12058 \skip\@mpfootinsv@l\skip\@mpfootins
12059 \bidi@ensure@newcommand{\mp@footgroupv@r}{%
12060 \newcount\m@m@k \newdimen\m@m@h
12061 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12062 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12063 \valign{##\vfill\cr\m@mdosplits}\endR}}
12064 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12065 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12066 \valign{##\vfill\cr\m@mdosplits}\endL}}
12067 \bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
12068 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
12069 \bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
12070 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
12071 \setbox2 \vsplit0 to \dimen0
12072 \unvbox2 }
12073 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12074 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12075 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12076 \@bidi@before@Hy@hyperfootnotes
12077 \let\@footnotetext\@twocolfootnotetext
12078 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12079 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12080 \dimen\footinsv@r=2\footinsdim
12081 \count\footinsv@r=500\relax
12082 \m@make@twocol@footgroup{v@r}%
12083 \let\@footgroupv@r\@twocol@footgroupv@r
12084 \dimen\footinsv@l=2\footinsdim
12085 \count\footinsv@l=500\relax
12086 \bidi@make@twocol@LTRfootgroup{v@l}%
12087 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12088 \let\@mpfootnotetext\@mptwocolfootnotetext
12089 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12090 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12091 \@bidi@after@Hy@hyperfootnotes
12092 \m@make@mptwocol@footgroup{v@r}%
12093 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12094 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12095 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12096 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12097 }
12098 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12099 \if@RTL@footnote
12100 \footinsv@r
12101 \else
12102 \footinsv@l
12103 \fi
12104 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12105 \def\baselinestretch{\m@m@footnote@spacing}%
12106 \reset@font\foottextfont
12107 \@preamfntext
12108 \protected@edef\@currentlabel{%

```



```

12109 \csname p@footnote\endcsname\@thefnmark}%
12110 \color@begingroup
12111 \@twocolfootfmt{#1}%
12112 \color@endgroup}%
12113 \m@mmf@prepare}
12114 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12115 \def\baselinestretch{\m@m@footnote@spacing}%
12116 \reset@font\LTRfoottextfont
12117 \@preamfntext
12118 \protected@edef\@currentlabel{%
12119 \csname p@footnote\endcsname\@thefnmark}%
12120 \color@begingroup
12121 \@twocolLTRfootfmt{#1}%
12122 \color@endgroup}%
12123 \m@mmf@prepare}
12124 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12125 \def\baselinestretch{\m@m@footnote@spacing}%
12126 \reset@font\RTLfoottextfont
12127 \@preamfntext
12128 \protected@edef\@currentlabel{%
12129 \csname p@footnote\endcsname\@thefnmark}%
12130 \color@begingroup
12131 \@twocolRTLfootfmt{#1}%
12132 \color@endgroup}%
12133 \m@mmf@prepare}
12134 \bidi@ensure@newcommand{\@preamtwofmt}{%
12135 \hsize .45\hsize
12136 \parindent=\z@
12137 \tolerance=5000\relax
12138 \leavevmode}
12139 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12140 \@preamtwofmt
12141 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12142 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12143 \@preamtwofmt
12144 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12145 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12146 \@preamtwofmt
12147 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12148 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12149 \global\setbox
12150 \if@RTL@footnote
12151 \@mpfootinsv@r
12152 \else
12153 \@mpfootinsv@l
12154 \fi
12155 \vbox{%
12156 \unvbox
12157 \if@RTL@footnote
12158 \@mpfootinsv@r
12159 \else
12160 \@mpfootinsv@l
12161 \fi
12162 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```



```

12163 \def\baselinestretch{\m@m@footnote@spacing}%
12164 \reset@font\foottextfont
12165 \hsize\columnwidth \@parboxrestore
12166 \protected@edef\@currentlabel{%
12167 \csname p@mpfootnote\endcsname\@thefnmark}%
12168 \color@begingroup
12169 \@twocolfootfmt{#1}%
12170 \color@endgroup}%
12171 \m@mmf@prepare}
12172 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12173 \global\setbox\@mpfootinsv@l\vbox{%
12174 \unvbox\@mpfootinsv@l
12175 \@RTLfalse
12176 \def\baselinestretch{\m@m@footnote@spacing}%
12177 \reset@font\LTRfoottextfont
12178 \hsize\columnwidth \@parboxrestore
12179 \protected@edef\@currentlabel{%
12180 \csname p@mpfootnote\endcsname\@thefnmark}%
12181 \color@begingroup
12182 \@twocolLTRfootfmt{#1}%
12183 \color@endgroup}%
12184 \m@mmf@prepare}
12185 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12186 \global\setbox\@mpfootinsv@r\vbox{%
12187 \unvbox\@mpfootinsv@r
12188 \@RTLtrue
12189 \def\baselinestretch{\m@m@footnote@spacing}%
12190 \reset@font\RTLfoottextfont
12191 \hsize\columnwidth \@parboxrestore
12192 \protected@edef\@currentlabel{%
12193 \csname p@mpfootnote\endcsname\@thefnmark}%
12194 \color@begingroup
12195 \@twocolRTLfootfmt{#1}%
12196 \color@endgroup}%
12197 \m@mmf@prepare}
12198 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12199 \@namedef{@twocol@footgroup#1}{%
12200 \def\baselinestretch{\m@m@footnote@spacing}%
12201 \hsize\bidi@columnwidth
12202 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12203 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12204 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12205 \@namedef{@twocol@LTRfootgroup#1}{%
12206 \def\baselinestretch{\m@m@footnote@spacing}%
12207 \hsize\bidi@columnwidth
12208 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12209 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12210 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12211 \@namedef{@mptwocol@footgroup#1}{%
12212 \def\baselinestretch{\m@m@footnote@spacing}%
12213 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12214 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12215 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12216 \@namedef{@mptwocol@LTRfootgroup#1}{%

```



```

12217 \def\baselinestretch{\m@m@footnote@spacing}%
12218 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12219 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}}}
12220 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12221 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12222 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12223 \@bidi@before@Hy@hyperfootnotes
12224 \let\@footnotetext\@threecolfootnotetext
12225 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12226 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12227 \dimen\footinsv@r=3\footinsdim
12228 \count\footinsv@r=333\relax
12229 \m@make@threecol@footgroup{v@r}%
12230 \let\@footgroupv@r\@threecol@footgroupv@r
12231 \dimen\footinsv@l=3\footinsdim
12232 \count\footinsv@l=333\relax
12233 \bidi@make@threecol@LTRfootgroup{v@l}%
12234 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12235 \let\@mpfootnotetext\@mpthreecolfootnotetext
12236 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12237 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12238 \@bidi@after@Hy@hyperfootnotes
12239 \m@make@mpthreecol@footgroup{v@r}%
12240 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12241 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12242 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12243 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12244 }
12245 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12246 \if@RTL@footnote
12247 \footinsv@r
12248 \else
12249 \footinsv@l
12250 \fi
12251 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12252 \def\baselinestretch{\m@m@footnote@spacing}%
12253 \reset@font\foottextfont
12254 \@preamfntext
12255 \protected@edef\@currentlabel{%
12256 \csname p@footnote\endcsname\@thefnmark}%
12257 \color@begingroup
12258 \@threecolfootfmt{#1}%
12259 \color@endgroup}\m@m@mmf@prepare}
12260 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12261 \def\baselinestretch{\m@m@footnote@spacing}%
12262 \reset@font\LTRfoottextfont
12263 \@preamfntext
12264 \protected@edef\@currentlabel{%
12265 \csname p@footnote\endcsname\@thefnmark}%
12266 \color@begingroup
12267 \@threecolLTRfootfmt{#1}%
12268 \color@endgroup}\m@m@mmf@prepare}
12269 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12270 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12271 \reset@font\RTLfoottextfont
12272 \@preamfntext
12273 \protected@edef\@currentlabel{%
12274   \csname p@footnote\endcsname\@thefnmark}%
12275 \color@begingroup
12276   \@threecolRTLfootfmt{#1}%
12277 \color@endgroup}\m@mmf@prepare}
12278 \bidi@ensure@newcommand{\@preamthreefmt}{%
12279   \hsize .3\hsize
12280   \parindent=\z@
12281   \tolerance=5000\relax
12282   \leavevmode}
12283 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12284   \@preamthreefmt
12285   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12286 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12287   \@preamthreefmt
12288   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12289 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12290   \@preamthreefmt
12291   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12292 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12293   \global\setbox
12294     \if@RTL@footnote
12295     \@mpfootinsv@r
12296   \else
12297     \@mpfootinsv@l
12298   \fi
12299   \vbox{%
12300     \unvbox
12301     \if@RTL@footnote
12302     \@mpfootinsv@r
12303   \else
12304     \@mpfootinsv@l
12305   \fi
12306   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12307   \def\baselinestretch{\m@mm@footnote@spacing}%
12308   \reset@font\foottextfont
12309   \hsize\columnwidth \@parboxrestore
12310   \protected@edef\@currentlabel{%
12311     \csname p@mpfootnote\endcsname\@thefnmark}%
12312   \color@begingroup
12313     \@threecolfootfmt{#1}%
12314   \color@endgroup}\m@mmf@prepare}
12315 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12316   \global\setbox\@mpfootinsv@l\vbox{%
12317     \unvbox\@mpfootinsv@l
12318     \@RTLfalse
12319     \def\baselinestretch{\m@mm@footnote@spacing}%
12320     \reset@font\LTRfoottextfont
12321     \hsize\columnwidth \@parboxrestore
12322     \protected@edef\@currentlabel{%
12323       \csname p@mpfootnote\endcsname\@thefnmark}%
12324     \color@begingroup

```



```

12325 \@threecolLTRfootfmt{#1}%
12326 \color@endgroup}\m@mmf@prepare}
12327 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12328 \global\setbox\@mpfootinsv@r\vbox{%
12329 \unvbox\@mpfootinsv@r
12330 \@RTLtrue
12331 \def\baselinestretch{\m@m@footnote@spacing}%
12332 \reset@font\RTLfoottextfont
12333 \hsize\columnwidth \@parboxrestore
12334 \protected@edef\@currentlabel{%
12335 \csname p@mpfootnote\endcsname\@thefnmark}%
12336 \color@begingroup
12337 \@threecolRTLfootfmt{#1}%
12338 \color@endgroup}\m@mmf@prepare}
12339 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12340 \@namedef{\@threecol@footgroup#1}{%
12341 \def\baselinestretch{\m@m@footnote@spacing}%
12342 \hsize\bidi@columnwidth
12343 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12344 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12345 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12346 \@namedef{\@threecol@LTRfootgroup#1}{%
12347 \def\baselinestretch{\m@m@footnote@spacing}%
12348 \hsize\bidi@columnwidth
12349 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12350 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
12351 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12352 \@namedef{\@mpthreecol@footgroup#1}{%
12353 \def\baselinestretch{\m@m@footnote@spacing}%
12354 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12355 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{\thr@@}{\splittopskip}}}}
12356 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12357 \@namedef{\@mpthreecol@LTRfootgroup#1}{%
12358 \def\baselinestretch{\m@m@footnote@spacing}%
12359 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12360 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{\thr@@}{\splittopskip}}}}
12361 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12362 \@namedef{foottextfontv@r}{\foottextfont}% \quad [RS]
12363 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12364 \@bidi@before@Hy@hyperfootnotes
12365 \let\@footnotetext\@fourcolfootnotetext
12366 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12367 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12368 \dimen\footinsv@r=4\footinsdim
12369 \count\footinsv@r=250\relax
12370 \m@make@fourcol@footgroup{v@r}%
12371 \let\@footgroupv@r\@fourcol@footgroupv@r
12372 \dimen\footinsv@l=4\footinsdim
12373 \count\footinsv@l=250\relax
12374 \bidi@make@fourcol@LTRfootgroup{v@l}%
12375 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12376 \let\@mpfootnotetext\@mpfourcolfootnotetext
12377 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12378 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext

```



```

12379 \@bidi@after@Hy@hyperfootnotes
12380 \m@make@mpfourcol@footgroup{v@r}%
12381 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12382 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12383 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12384 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12385 }
12386 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12387 \if@RTL@footnote
12388 \footinsv@r
12389 \else
12390 \footinsv@l
12391 \fi
12392 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12393 \def\baselinestretch{\m@m@footnote@spacing}%
12394 \reset@font\foottextfont
12395 \@preamfntext
12396 \protected@edef\@currentlabel{%
12397 \csname p@footnote\endcsname\@thefnmark}%
12398 \color@begingroup
12399 \@fourcolfootfmt{#1}%
12400 \color@endgroup}%
12401 \m@mmf@prepare}
12402 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12403 \def\baselinestretch{\m@m@footnote@spacing}%
12404 \reset@font\LTRfoottextfont
12405 \@preamfntext
12406 \protected@edef\@currentlabel{%
12407 \csname p@footnote\endcsname\@thefnmark}%
12408 \color@begingroup
12409 \@fourcolLTRfootfmt{#1}%
12410 \color@endgroup}%
12411 \m@mmf@prepare}
12412 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12413 \def\baselinestretch{\m@m@footnote@spacing}%
12414 \reset@font\RTLfoottextfont
12415 \@preamfntext
12416 \protected@edef\@currentlabel{%
12417 \csname p@footnote\endcsname\@thefnmark}%
12418 \color@begingroup
12419 \@fourcolRTLfootfmt{#1}%
12420 \color@endgroup}%
12421 \m@mmf@prepare}
12422 \bidi@ensure@newcommand{\@preamfourfmt}{%
12423 \hsize .25\hsize
12424 \parindent=\z@
12425 \tolerance=5000\relax
12426 \leavevmode}
12427 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12428 \@preamfourfmt
12429 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12430 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12431 \@preamfourfmt
12432 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}

```




```

12433 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12434   \@preamfourfmt
12435   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12436 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12437   \global\setbox
12438     \if@RTL@footnote
12439     \@mpfootinsv@r
12440   \else
12441     \@mpfootinsv@l
12442   \fi
12443   \vbox{%
12444     \unvbox
12445     \if@RTL@footnote
12446     \@mpfootinsv@r
12447   \else
12448     \@mpfootinsv@l
12449   \fi
12450   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12451   \def\baselinestretch{\m@m@footnote@spacing}%
12452   \reset@font\foottextfont
12453   \hsize\columnwidth \@parboxrestore
12454   \protected@edef\@currentlabel{%
12455     \csname p@mpfootnote\endcsname\@thefnmark}%
12456   \color@begingroup
12457     \@fourcolfootfmt{#1}%
12458   \color@endgroup}%
12459   \m@mmf@prepare}
12460 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12461   \global\setbox\@mpfootinsv@l\vbox{%
12462     \unvbox\@mpfootinsv@l
12463     \@RTLfalse
12464     \def\baselinestretch{\m@m@footnote@spacing}%
12465     \reset@font\LTRfoottextfont
12466     \hsize\columnwidth \@parboxrestore
12467     \protected@edef\@currentlabel{%
12468       \csname p@mpfootnote\endcsname\@thefnmark}%
12469     \color@begingroup
12470       \@fourcolLTRfootfmt{#1}%
12471     \color@endgroup}%
12472     \m@mmf@prepare}
12473 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12474   \global\setbox\@mpfootinsv@r\vbox{%
12475     \unvbox\@mpfootinsv@r
12476     \@RTLtrue
12477     \def\baselinestretch{\m@m@footnote@spacing}%
12478     \reset@font\RTLfoottextfont
12479     \hsize\columnwidth \@parboxrestore
12480     \protected@edef\@currentlabel{%
12481       \csname p@mpfootnote\endcsname\@thefnmark}%
12482     \color@begingroup
12483       \@fourcolRTLfootfmt{#1}%
12484     \color@endgroup}%
12485     \m@mmf@prepare}
12486 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%

```



```

12487 \@namedef{@fourcol@footgroup#1}{%
12488 \def\baselinestretch{\m@m@footnote@spacing}%
12489 \hsize\bi@columnwidth
12490 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12491 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}
12492 \newcommand{\bi@make@fourcol@LTRfootgroup}[1]{%
12493 \@namedef{@fourcol@LTRfootgroup#1}{%
12494 \def\baselinestretch{\m@m@footnote@spacing}%
12495 \hsize\bi@columnwidth
12496 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12497 \bi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}
12498 \bi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
12499 \@namedef{@mpfourcol@footgroup#1}{%
12500 \def\baselinestretch{\m@m@footnote@spacing}%
12501 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12502 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}
12503 \newcommand{\bi@make@mpfourcol@LTRfootgroup}[1]{%
12504 \@namedef{@mpfourcol@LTRfootgroup#1}{%
12505 \def\baselinestretch{\m@m@footnote@spacing}%
12506 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12507 \bi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}
12508 \bi@ensure@newcommand{\fivecolumnfootnotes}{%
12509 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12510 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12511 \@bidi@before@Hy@hyperfootnotes
12512 \let\@footnotetext\@fivecolfootnotetext
12513 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
12514 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
12515 \dimen\footinsv@r=5\footinsdim
12516 \count\footinsv@r=200\relax
12517 \m@make@fivecol@footgroup{v@r}%
12518 \let\@footgroupv@r\@fivecol@footgroupv@r
12519 \dimen\footinsv@l=5\footinsdim
12520 \count\footinsv@l=200\relax
12521 \bi@make@fivecol@LTRfootgroup{v@l}%
12522 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
12523 \let\@mpfootnotetext\@mpfivecolfootnotetext
12524 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
12525 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
12526 \@bidi@after@Hy@hyperfootnotes
12527 \m@make@mpfivecol@footgroup{v@r}%
12528 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
12529 \bi@make@mpfivecol@LTRfootgroup{v@l}%
12530 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
12531 \@ifstar\bi@star@footmarkwidth\bi@normal@footmarkwidth
12532 }
12533 \bi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
12534 \if@RTL@footnote
12535 \footinsv@r
12536 \else
12537 \footinsv@l
12538 \fi
12539 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12540 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12541 \reset@font\foottextfont
12542 \@preamfntext
12543 \protected@edef\@currentlabel{%
12544   \csname p@footnote\endcsname\@thefnmark}%
12545 \color@begingroup
12546   \@fivecolfootfmt{#1}%
12547 \color@endgroup}%
12548 \m@mmf@prepare}
12549 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@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     \@fivecolLTRfootfmt{#1}%
12557   \color@endgroup}%
12558   \m@mmf@prepare}
12559 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12560   \def\baselinestretch{\m@m@footnote@spacing}%
12561   \reset@font\RTLfoottextfont
12562   \@preamfntext
12563   \protected@edef\@currentlabel{%
12564     \csname p@footnote\endcsname\@thefnmark}%
12565   \color@begingroup
12566     \@fivecolRTLfootfmt{#1}%
12567   \color@endgroup}%
12568   \m@mmf@prepare}
12569 \bidi@ensure@newcommand{\@preamfivefmt}{%
12570   \hsize .2\hsize
12571   \parindent=\z@
12572   \tolerance=5000\relax
12573   \leavevmode}
12574 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
12575   \@preamfivefmt
12576   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12577 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
12578   \@preamfivefmt
12579   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12580 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
12581   \@preamfivefmt
12582   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12583 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
12584   \global\setbox
12585     \if@RTL@footnote
12586     \@mpfootinsv@r
12587   \else
12588     \@mpfootinsv@l
12589   \fi
12590   \vbox{%
12591     \unvbox
12592     \if@RTL@footnote
12593     \@mpfootinsv@r
12594   \else

```



```

12595 \mpfootinsv@l
12596 \fi
12597 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12598 \def\baselinestretch{\m@m@footnote@spacing}%
12599 \reset@font\foottextfont
12600 \hsize\columnwidth \@parboxrestore
12601 \protected@edef\@currentlabel{%
12602 \csname p@mpfootnote\endcsname\@thefnmark}%
12603 \color@begingroup
12604 \@fivecolfootfmt{#1}%
12605 \color@endgroup}%
12606 \m@mmf@prepare}
12607 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
12608 \global\setbox\@mpfootinsv@l\vbox{%
12609 \unvbox\@mpfootinsv@l
12610 \@RTLfalse
12611 \def\baselinestretch{\m@m@footnote@spacing}%
12612 \reset@font\LTRfoottextfont
12613 \hsize\columnwidth \@parboxrestore
12614 \protected@edef\@currentlabel{%
12615 \csname p@mpfootnote\endcsname\@thefnmark}%
12616 \color@begingroup
12617 \@fivecolLTRfootfmt{#1}%
12618 \color@endgroup}%
12619 \m@mmf@prepare}
12620 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
12621 \global\setbox\@mpfootinsv@r\vbox{%
12622 \unvbox\@mpfootinsv@r
12623 \@RTLtrue
12624 \def\baselinestretch{\m@m@footnote@spacing}%
12625 \reset@font\RTLfoottextfont
12626 \hsize\columnwidth \@parboxrestore
12627 \protected@edef\@currentlabel{%
12628 \csname p@mpfootnote\endcsname\@thefnmark}%
12629 \color@begingroup
12630 \@fivecolRTLfootfmt{#1}%
12631 \color@endgroup}%
12632 \m@mmf@prepare}
12633 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
12634 \@namedef{@fivecol@footgroup#1}{%
12635 \def\baselinestretch{\m@m@footnote@spacing}%
12636 \hsize\bidi@columnwidth
12637 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12638 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
12639 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
12640 \@namedef{@fivecol@LTRfootgroup#1}{%
12641 \def\baselinestretch{\m@m@footnote@spacing}%
12642 \hsize\bidi@columnwidth
12643 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12644 \bidi@LTRigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
12645 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
12646 \@namedef{@mpfivecol@footgroup#1}{%
12647 \def\baselinestretch{\m@m@footnote@spacing}%
12648 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

12649 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
12650 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
12651 \@namedef{@mpfivecol@LTRfootgroup#1}{%
12652 \def\baselinestretch{\m@m@footnote@spacing}%
12653 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12654 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
12655 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
12656 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12657 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12658 \@bidi@before@Hy@hyperfootnotes
12659 \let\@footnotetext\@sixcolfootnotetext
12660 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
12661 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
12662 \dimen\footinsv@r=6\footinsdim
12663 \count\footinsv@r=166\relax
12664 \m@make@sixcol@footgroup{v@r}%
12665 \let\@footgroupv@r\@sixcol@footgroupv@r
12666 \dimen\footinsv@l=6\footinsdim
12667 \count\footinsv@l=166\relax
12668 \bidi@make@sixcol@LTRfootgroup{v@l}%
12669 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
12670 \let\@mpfootnotetext\@mpsixcolfootnotetext
12671 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
12672 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
12673 \@bidi@after@Hy@hyperfootnotes
12674 \m@make@mpsixcol@footgroup{v@r}%
12675 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
12676 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
12677 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
12678 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12679 }
12680 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
12681 \if@RTL@footnote
12682 \footinsv@r
12683 \else
12684 \footinsv@l
12685 \fi
12686 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12687 \def\baselinestretch{\m@m@footnote@spacing}%
12688 \reset@font\foottextfont
12689 \@preamfntext
12690 \protected@edef\@currentlabel{%
12691 \csname p@footnote\endcsname\@thefnmark}%
12692 \color@begingroup
12693 \@sixcolfootfmt{#1}%
12694 \color@endgroup}%
12695 \m@mmf@prepare}
12696 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12697 \def\baselinestretch{\m@m@footnote@spacing}%
12698 \reset@font\LTRfoottextfont
12699 \@preamfntext
12700 \protected@edef\@currentlabel{%
12701 \csname p@footnote\endcsname\@thefnmark}%
12702 \color@begingroup

```



```

12703 \sixcolLTRfootfmt{#1}%
12704 \color@endgroup}%
12705 \m@mmf@prepare}
12706 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12707 \def\baselinestretch{\m@m@footnote@spacing}%
12708 \reset@font\RTLfoottextfont
12709 \@preamfntext
12710 \protected@edef\@currentlabel{%
12711 \csname p@footnote\endcsname\@thefnmark}%
12712 \color@begingroup
12713 \sixcolRTLfootfmt{#1}%
12714 \color@endgroup}%
12715 \m@mmf@prepare}
12716 \bidi@ensure@newcommand{\@preamsixfmt}{%
12717 \hspace{.16\hspace}
12718 \parindent=\z@
12719 \tolerance=5000\relax
12720 \leavevmode}
12721 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
12722 \@preamsixfmt
12723 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12724 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
12725 \@preamsixfmt
12726 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12727 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
12728 \@preamsixfmt
12729 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12730 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
12731 \global\setbox
12732 \if@RTL@footnote
12733 \@mpfootinsv@r
12734 \else
12735 \@mpfootinsv@l
12736 \fi
12737 \vbox{%
12738 \unvbox
12739 \if@RTL@footnote
12740 \@mpfootinsv@r
12741 \else
12742 \@mpfootinsv@l
12743 \fi
12744 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12745 \def\baselinestretch{\m@m@footnote@spacing}%
12746 \reset@font\foottextfont
12747 \hspace\columnwidth \@parboxrestore
12748 \protected@edef\@currentlabel{%
12749 \csname p@mpfootnote\endcsname\@thefnmark}%
12750 \color@begingroup
12751 \sixcolfootfmt{#1}%
12752 \color@endgroup}%
12753 \m@mmf@prepare}
12754 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
12755 \global\setbox\@mpfootinsv@l\vbox{%
12756 \unvbox\@mpfootinsv@l

```



```

12757 \RTLfalse
12758 \def\baselinestretch{\m@m@footnote@spacing}%
12759 \reset@font\LTRfoottextfont
12760 \hsize\columnwidth \@parboxrestore
12761 \protected@edef\@currentlabel{%
12762   \csname p@mpfootnote\endcsname\@thefnmark}%
12763 \color@begingroup
12764 \@sixcolLTRfootfmt{#1}%
12765 \color@endgroup}%
12766 \m@mmf@prepare}
12767 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
12768   \global\setbox\@mpfootinsv\@vbox{%
12769     \unvbox\@mpfootinsv@r
12770     \RTLtrue
12771     \def\baselinestretch{\m@m@footnote@spacing}%
12772     \reset@font\RTLfoottextfont
12773     \hsize\columnwidth \@parboxrestore
12774     \protected@edef\@currentlabel{%
12775       \csname p@mpfootnote\endcsname\@thefnmark}%
12776     \color@begingroup
12777     \@sixcolRTLfootfmt{#1}%
12778     \color@endgroup}%
12779     \m@mmf@prepare}
12780 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
12781   \@namedef{@sixcol@footgroup#1}{%
12782     \def\baselinestretch{\m@m@footnote@spacing}%
12783     \hsize\bidi@columnwidth
12784     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12785     \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12786 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
12787   \@namedef{@sixcol@LTRfootgroup#1}{%
12788     \def\baselinestretch{\m@m@footnote@spacing}%
12789     \hsize\bidi@columnwidth
12790     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12791     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
12792 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
12793   \@namedef{@mpsixcol@footgroup#1}{%
12794     \def\baselinestretch{\m@m@footnote@spacing}%
12795     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12796     \m@mrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}%
12797 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
12798   \@namedef{@mpsixcol@LTRfootgroup#1}{%
12799     \def\baselinestretch{\m@m@footnote@spacing}%
12800     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12801     \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}%
12802 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
12803   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12804   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12805   \@bidi@before@Hy@hyperfootnotes
12806   \let\@footnotetext\@sevendcolfootnotetext
12807   \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
12808   \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
12809   \dimen\footinsv@r=7\footinsdim
12810   \count\footinsv@r=142\relax

```



```

12811 \m@make@sevenscol@footgroup{v@r}%
12812 \let\@footgroupv@r\@sevenscol@footgroupv@r
12813 \dimen\footinsv@l=7\footinsdim
12814 \count\footinsv@l=142\relax
12815 \bidi@make@sevenscol@LTRfootgroup{v@l}%
12816 \let\@LTRfootgroupv@l\@sevenscol@LTRfootgroupv@l
12817 \let\@mpfootnotetext\@mpsevenscolfootnotetext
12818 \let\@mpLTRfootnotetext\@mpsevenscolLTRfootnotetext
12819 \let\@mpRTLfootnotetext\@mpsevenscolRTLfootnotetext
12820 \@bidi@after@Hy@hyperfootnotes
12821 \m@make@mpsevenscol@footgroup{v@r}%
12822 \let\mp@footgroupv@r\@mpsevenscol@footgroupv@r
12823 \bidi@make@mpsevenscol@LTRfootgroup{v@l}%
12824 \let\mp@LTRfootgroupv@l\@mpsevenscol@LTRfootgroupv@l
12825 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12826 }
12827 \bidi@ensure@newcommand{\@sevenscolfootnotetext}[1]{\insert
12828 \if@RTL@footnote
12829 \footinsv@r
12830 \else
12831 \footinsv@l
12832 \fi
12833 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12834 \def\baselinestretch{\m@m@footnote@spacing}%
12835 \reset@font\foottextfont
12836 \@preamfntext
12837 \protected@edef\@currentlabel{%
12838 \csname p@footnote\endcsname\@thefnmark}%
12839 \color@begingroup
12840 \@sevenscolfootfmt{#1}%
12841 \color@endgroup}%
12842 \m@mmf@prepare}
12843 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12844 \def\baselinestretch{\m@m@footnote@spacing}%
12845 \reset@font\LTRfoottextfont
12846 \@preamfntext
12847 \protected@edef\@currentlabel{%
12848 \csname p@footnote\endcsname\@thefnmark}%
12849 \color@begingroup
12850 \@sevenscolLTRfootfmt{#1}%
12851 \color@endgroup}%
12852 \m@mmf@prepare}
12853 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12854 \def\baselinestretch{\m@m@footnote@spacing}%
12855 \reset@font\RTLfoottextfont
12856 \@preamfntext
12857 \protected@edef\@currentlabel{%
12858 \csname p@footnote\endcsname\@thefnmark}%
12859 \color@begingroup
12860 \@sevenscolRTLfootfmt{#1}%
12861 \color@endgroup}%
12862 \m@mmf@prepare}
12863 \bidi@ensure@newcommand{\@preamsevenfmt}{%
12864 \hsize .142\hsize

```




```

12865 \parindent=\z@
12866 \tolerance=5000\relax
12867 \leavevmode}
12868 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
12869 \@preamsevenfmt
12870 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12871 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
12872 \@preamsevenfmt
12873 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12874 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%
12875 \@preamsevenfmt
12876 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12877 \bidi@ensure@newcommand{\@mpsevendcolfootnotetext}[1]{%
12878 \global\setbox
12879 \if@RTL@footnote
12880 \@mpfootinsv@r
12881 \else
12882 \@mpfootinsv@l
12883 \fi
12884 \vbox{%
12885 \unvbox
12886 \if@RTL@footnote
12887 \@mpfootinsv@r
12888 \else
12889 \@mpfootinsv@l
12890 \fi
12891 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12892 \def\baselinestretch{\m@m@footnote@spacing}%
12893 \reset@font\foottextfont
12894 \hsize\columnwidth \@parboxrestore
12895 \protected@edef\@currentlabel{%
12896 \csname p@mpfootnote\endcsname\@thefnmark}%
12897 \color@begingroup
12898 \@sevendcolfootfmt{#1}%
12899 \color@endgroup}%
12900 \m@m@mmf@prepare}
12901 \bidi@ensure@newcommand{\@mpsevendcolLTRfootnotetext}[1]{%
12902 \global\setbox\@mpfootinsv@l\vbox{%
12903 \unvbox\@mpfootinsv@l
12904 \@RTLfalse
12905 \def\baselinestretch{\m@m@footnote@spacing}%
12906 \reset@font\LTRfoottextfont
12907 \hsize\columnwidth \@parboxrestore
12908 \protected@edef\@currentlabel{%
12909 \csname p@mpfootnote\endcsname\@thefnmark}%
12910 \color@begingroup
12911 \@sevendcolLTRfootfmt{#1}%
12912 \color@endgroup}%
12913 \m@m@mmf@prepare}
12914 \bidi@ensure@newcommand{\@mpsevendcolRTLfootnotetext}[1]{%
12915 \global\setbox\@mpfootinsv@r\vbox{%
12916 \unvbox\@mpfootinsv@r
12917 \@RTLtrue
12918 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12919 \reset@font\RTLfoottextfont
12920 \hsize\columnwidth \@parboxrestore
12921 \protected@edef\@currentlabel{%
12922 \csname p@mpfootnote\endcsname\@thefnmark}%
12923 \color@begingroup
12924 \@sevenscolRTLfootfmt{#1}%
12925 \color@endgroup}%
12926 \m@mmf@prepare}
12927 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
12928 \@namedef{sevenscol@footgroup#1}{%
12929 \def\baselinestretch{\m@m@footnote@spacing}%
12930 \hsize\bidi@columnwidth
12931 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12932 \m@mrigidbodybalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
12933 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
12934 \@namedef{sevenscol@LTRfootgroup#1}{%
12935 \def\baselinestretch{\m@m@footnote@spacing}%
12936 \hsize\bidi@columnwidth
12937 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12938 \bidi@LTRigidbodybalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
12939 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
12940 \@namedef{mpsevenscol@footgroup#1}{%
12941 \def\baselinestretch{\m@m@footnote@spacing}%
12942 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12943 \m@mrigidbodybalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}%
12944 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
12945 \@namedef{mpsevenscol@LTRfootgroup#1}{%
12946 \def\baselinestretch{\m@m@footnote@spacing}%
12947 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12948 \bidi@LTRigidbodybalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}%
12949 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
12950 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12951 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12952 \@bidi@before@Hy@hyperfootnotes
12953 \let\@footnotetext\@eightcolfootnotetext
12954 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
12955 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
12956 \dimen\footinsv@r=8\footinsdim
12957 \count\footinsv@r=125\relax
12958 \m@make@eightcol@footgroup{v@r}%
12959 \let\@footgroupv@r\@eightcol@footgroupv@r
12960 \dimen\footinsv@l=8\footinsdim
12961 \count\footinsv@l=125\relax
12962 \bidi@make@eightcol@LTRfootgroup{v@l}%
12963 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
12964 \let\@mpfootnotetext\@mpeightcolfootnotetext
12965 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
12966 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
12967 \@bidi@after@Hy@hyperfootnotes
12968 \m@make@mpeightcol@footgroup{v@r}%
12969 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
12970 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
12971 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
12972 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth

```



```

12973 }
12974 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
12975   \if@RTL@footnote
12976     \footinsv@r
12977   \else
12978     \footinsv@l
12979   \fi
12980 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12981   \def\baselinestretch{\m@m@footnote@spacing}%
12982   \reset@font\foottextfont
12983   \@preamfntext
12984   \protected@edef\@currentlabel{%
12985     \csname p@footnote\endcsname\@thefnmark}%
12986   \color@begingroup
12987     \@eightcolfootfmt{#1}%
12988   \color@endgroup}%
12989   \m@m@mmf@prepare}
12990 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12991   \def\baselinestretch{\m@m@footnote@spacing}%
12992   \reset@font\LTRfoottextfont
12993   \@preamfntext
12994   \protected@edef\@currentlabel{%
12995     \csname p@footnote\endcsname\@thefnmark}%
12996   \color@begingroup
12997     \@eightcolLTRfootfmt{#1}%
12998   \color@endgroup}%
12999   \m@m@mmf@prepare}
13000 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13001   \def\baselinestretch{\m@m@footnote@spacing}%
13002   \reset@font\RTLfoottextfont
13003   \@preamfntext
13004   \protected@edef\@currentlabel{%
13005     \csname p@footnote\endcsname\@thefnmark}%
13006   \color@begingroup
13007     \@eightcolRTLfootfmt{#1}%
13008   \color@endgroup}%
13009   \m@m@mmf@prepare}
13010 \bidi@ensure@newcommand{\@preameightfmt}{%
13011   \hsize .125\hsize
13012   \parindent=\z@
13013   \tolerance=5000\relax
13014   \leavevmode}
13015 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
13016   \@preameightfmt
13017   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13018 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
13019   \@preameightfmt
13020   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13021 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
13022   \@preameightfmt
13023   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13024 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
13025   \global\setbox
13026   \if@RTL@footnote

```



```

13027 \mpfootinsv@r
13028 \else
13029 \mpfootinsv@l
13030 \fi
13031 \vbox{%
13032 \unvbox
13033 \if@RTL@footnote
13034 \mpfootinsv@r
13035 \else
13036 \mpfootinsv@l
13037 \fi
13038 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13039 \def\baselinestretch{\m@{footnote@spacing}}%
13040 \reset@font\foottextfont
13041 \hsize\columnwidth \@parboxrestore
13042 \protected@edef\@currentlabel{%
13043 \csname p@mpfootnote\endcsname\@thefnmark}%
13044 \color@begingroup
13045 \@eightcolfootfmt{#1}%
13046 \color@endgroup}%
13047 \m@m{f@prepare}
13048 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
13049 \global\setbox\@mpfootinsv@l\vbox{%
13050 \unvbox\@mpfootinsv@l
13051 \@RTLfalse
13052 \def\baselinestretch{\m@{footnote@spacing}}%
13053 \reset@font\LTRfoottextfont
13054 \hsize\columnwidth \@parboxrestore
13055 \protected@edef\@currentlabel{%
13056 \csname p@mpfootnote\endcsname\@thefnmark}%
13057 \color@begingroup
13058 \@eightcolLTRfootfmt{#1}%
13059 \color@endgroup}%
13060 \m@m{f@prepare}
13061 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
13062 \global\setbox\@mpfootinsv@r\vbox{%
13063 \unvbox\@mpfootinsv@r
13064 \@RTLtrue
13065 \def\baselinestretch{\m@{footnote@spacing}}%
13066 \reset@font\RTLfoottextfont
13067 \hsize\columnwidth \@parboxrestore
13068 \protected@edef\@currentlabel{%
13069 \csname p@mpfootnote\endcsname\@thefnmark}%
13070 \color@begingroup
13071 \@eightcolRTLfootfmt{#1}%
13072 \color@endgroup}%
13073 \m@m{f@prepare}
13074 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
13075 \@namedef{@eightcol@footgroup#1}{%
13076 \def\baselinestretch{\m@{footnote@spacing}}%
13077 \hsize\bidi@columnwidth
13078 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13079 \m@{rigidbalance}{\@nameuse{footins#1}}{8}{\splittopskip}}}%
13080 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%

```



```

13081 \@namedef{@eightcol@LTRfootgroup#1}{%
13082 \def\baselinestretch{\m@m@footnote@spacing}%
13083 \hsize\bidicolumnwidth
13084 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13085 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}
13086 \bidi@ensure@newcommand{\m@make@mp@eightcol@footgroup}[1]{%
13087 \@namedef{@mp@eightcol@footgroup#1}{%
13088 \def\baselinestretch{\m@m@footnote@spacing}%
13089 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13090 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}
13091 \newcommand{\bidi@make@mp@eightcol@LTRfootgroup}[1]{%
13092 \@namedef{@mp@eightcol@LTRfootgroup#1}{%
13093 \def\baselinestretch{\m@m@footnote@spacing}%
13094 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13095 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}
13096 \bidi@ensure@newcommand{\n@necolumnfootnotes}{%
13097 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13098 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13099 \@bidi@before@Hy@hyperfootnotes
13100 \let\@footnotetext\@n@necolfootnotetext
13101 \let\@LTRfootnotetext\@n@necol@LTRfootnotetext
13102 \let\@RTLfootnotetext\@n@necol@RTLfootnotetext
13103 \dimen\footinsv@r=9\footinsdim
13104 \count\footinsv@r=111\relax
13105 \m@make@n@necol@footgroup{v@r}%
13106 \let\@footgroupv@r\@n@necol@footgroupv@r
13107 \dimen\footinsv@l=9\footinsdim
13108 \count\footinsv@l=111\relax
13109 \bidi@make@n@necol@LTRfootgroup{v@l}%
13110 \let\@LTRfootgroupv@l\@n@necol@LTRfootgroupv@l
13111 \let\@mpfootnotetext\@mpn@necolfootnotetext
13112 \let\@mpLTRfootnotetext\@mpn@necol@LTRfootnotetext
13113 \let\@mpRTLfootnotetext\@mpn@necol@RTLfootnotetext
13114 \@bidi@after@Hy@hyperfootnotes
13115 \m@make@mpn@necol@footgroup{v@r}%
13116 \let\@mp@footgroupv@r\@mpn@necol@footgroupv@r
13117 \bidi@make@mpn@necol@LTRfootgroup{v@l}%
13118 \let\@mp@LTRfootgroupv@l\@mpn@necol@LTRfootgroupv@l
13119 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13120 }
13121 \bidi@ensure@newcommand{\@n@necolfootnotetext}[1]{\insert
13122 \if@RTL@footnote
13123 \footinsv@r
13124 \else
13125 \footinsv@l
13126 \fi
13127 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13128 \def\baselinestretch{\m@m@footnote@spacing}%
13129 \reset@font\foottextfont
13130 \@preamfntext
13131 \protected@edef\@currentlabel{%
13132 \csname p@footnote\endcsname\@thefnmark}%
13133 \color@begingroup
13134 \@n@necolfootfmt{#1}%

```



```

13135 \color@endgroup}%
13136 \m@mmf@prepare}
13137 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13138 \def\baselinestretch{\m@m@footnote@spacing}%
13139 \reset@font\LTRfoottextfont
13140 \@preamfntext
13141 \protected@edef\@currentlabel{%
13142 \csname p@footnote\endcsname\@thefnmark}%
13143 \color@begingroup
13144 \@ninecolLTRfootfmt{#1}%
13145 \color@endgroup}%
13146 \m@mmf@prepare}
13147 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13148 \def\baselinestretch{\m@m@footnote@spacing}%
13149 \reset@font\RTLfoottextfont
13150 \@preamfntext
13151 \protected@edef\@currentlabel{%
13152 \csname p@footnote\endcsname\@thefnmark}%
13153 \color@begingroup
13154 \@ninecolRTLfootfmt{#1}%
13155 \color@endgroup}%
13156 \m@mmf@prepare}
13157 \bidi@ensure@newcommand{\@preamninefmt}{%
13158 \hsize .1\hsize
13159 \parindent=\z@
13160 \tolerance=5000\relax
13161 \leavevmode}
13162 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
13163 \@preamninefmt
13164 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13165 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
13166 \@preamninefmt
13167 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13168 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
13169 \@preamninefmt
13170 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13171 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
13172 \global\setbox
13173 \if@RTL@footnote
13174 \@mpfootinsv@r
13175 \else
13176 \@mpfootinsv@l
13177 \fi
13178 \vbox{%
13179 \unvbox
13180 \if@RTL@footnote
13181 \@mpfootinsv@r
13182 \else
13183 \@mpfootinsv@l
13184 \fi
13185 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13186 \def\baselinestretch{\m@m@footnote@spacing}%
13187 \reset@font\foottextfont
13188 \hsize\columnwidth \@parboxrestore

```



```

13189 \protected@edef\@currentlabel{%
13190 \csname p@mpfootnote\endcsname\@thefnmark}%
13191 \color@begingroup
13192 \@ninecolfootfmt{#1}%
13193 \color@endgroup}%
13194 \m@mmf@prepare}
13195 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
13196 \global\setbox\@mpfootinsv\l\vbox{%
13197 \unvbox\@mpfootinsv\l
13198 \@RTLfalse
13199 \def\baselinestretch{\m@m@footnote@spacing}%
13200 \reset@font\LTRfoottextfont
13201 \hsize\columnwidth \@parboxrestore
13202 \protected@edef\@currentlabel{%
13203 \csname p@mpfootnote\endcsname\@thefnmark}%
13204 \color@begingroup
13205 \@ninecolLTRfootfmt{#1}%
13206 \color@endgroup}%
13207 \m@mmf@prepare}
13208 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
13209 \global\setbox\@mpfootinsv\@r\vbox{%
13210 \unvbox\@mpfootinsv\@r
13211 \@RTLtrue
13212 \def\baselinestretch{\m@m@footnote@spacing}%
13213 \reset@font\RTLfoottextfont
13214 \hsize\columnwidth \@parboxrestore
13215 \protected@edef\@currentlabel{%
13216 \csname p@mpfootnote\endcsname\@thefnmark}%
13217 \color@begingroup
13218 \@ninecolRTLfootfmt{#1}%
13219 \color@endgroup}%
13220 \m@mmf@prepare}
13221 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
13222 \@namedef{@ninecol@footgroup#1}{%
13223 \def\baselinestretch{\m@m@footnote@spacing}%
13224 \hsize\bidi@columnwidth
13225 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13226 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
13227 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
13228 \@namedef{@ninecol@LTRfootgroup#1}{%
13229 \def\baselinestretch{\m@m@footnote@spacing}%
13230 \hsize\bidi@columnwidth
13231 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13232 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
13233 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
13234 \@namedef{@mpninecol@footgroup#1}{%
13235 \def\baselinestretch{\m@m@footnote@spacing}%
13236 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13237 \m@mrigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}%
13238 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
13239 \@namedef{@mpninecol@LTRfootgroup#1}{%
13240 \def\baselinestretch{\m@m@footnote@spacing}%
13241 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13242 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{9}{\splittopskip}}}%

```




```

13243 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
13244   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13245   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13246   \@bidi@before@Hy@hyperfootnotes
13247   \let\@footnotetext\@tencolfootnotetext
13248   \let\@LTRfootnotetext\@tencolLTRfootnotetext
13249   \let\@RTLfootnotetext\@tencolRTLfootnotetext
13250   \dimen\footinsv@r=10\footinsdim
13251   \count\footinsv@r=100\relax
13252   \m@make@tencol@footgroup{v@r}%
13253   \let\@footgroupv@r\@tencol@footgroupv@r
13254   \dimen\footinsv@l=10\footinsdim
13255   \count\footinsv@l=100\relax
13256   \bidi@make@tencol@LTRfootgroup{v@l}%
13257   \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
13258   \let\@mpfootnotetext\@mptencolfootnotetext
13259   \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
13260   \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
13261   \@bidi@after@Hy@hyperfootnotes
13262   \m@make@mptencol@footgroup{v@r}%
13263   \let\mp@footgroupv@r\@mptencol@footgroupv@r
13264   \bidi@make@mptencol@LTRfootgroup{v@l}%
13265   \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
13266   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13267 }
13268 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
13269   \if@RTL@footnote
13270     \footinsv@r
13271   \else
13272     \footinsv@l
13273   \fi
13274 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13275   \def\baselinestretch{\m@m@footnote@spacing}%
13276   \reset@font\foottextfont
13277   \@preamfntext
13278   \protected@edef\@currentlabel{%
13279     \csname p@footnote\endcsname\@thefnmark}%
13280   \color@begingroup
13281     \@tencolfootfmt{#1}%
13282   \color@endgroup}%
13283   \m@mmf@prepare}
13284 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13285   \def\baselinestretch{\m@m@footnote@spacing}%
13286   \reset@font\LTRfoottextfont
13287   \@preamfntext
13288   \protected@edef\@currentlabel{%
13289     \csname p@footnote\endcsname\@thefnmark}%
13290   \color@begingroup
13291     \@tencolLTRfootfmt{#1}%
13292   \color@endgroup}%
13293   \m@mmf@prepare}
13294 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13295   \def\baselinestretch{\m@m@footnote@spacing}%
13296   \reset@font\RTLfoottextfont

```




```

13297 \@preamfntext
13298 \protected@edef\@currentlabel{%
13299     \csname p@footnote\endcsname\@thefnmark}%
13300 \color@begingroup
13301     \@tencolRTLfootfmt{#1}%
13302 \color@endgroup}%
13303 \m@mmf@prepare}
13304 \bidi@ensure@newcommand{\@preamtenfmt}{%
13305     \hsize .1\hsize
13306     \parindent=\z@
13307     \tolerance=5000\relax
13308     \leavevmode}
13309 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
13310     \@preamtenfmt
13311     {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13312 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
13313     \@preamtenfmt
13314     {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13315 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
13316     \@preamtenfmt
13317     {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13318 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
13319     \global\setbox
13320         \if@RTL@footnote
13321         \@mpfootinsv@r
13322     \else
13323         \@mpfootinsv@l
13324     \fi
13325     \vbox{%
13326         \unvbox
13327         \if@RTL@footnote
13328         \@mpfootinsv@r
13329     \else
13330         \@mpfootinsv@l
13331     \fi
13332     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13333     \def\baselinestretch{\m@m@footnote@spacing}%
13334     \reset@font\foottextfont
13335     \hsize\columnwidth \@parboxrestore
13336     \protected@edef\@currentlabel{%
13337         \csname p@mpfootnote\endcsname\@thefnmark}%
13338     \color@begingroup
13339         \@tencolfootfmt{#1}%
13340     \color@endgroup}%
13341     \m@mmf@prepare}
13342 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
13343     \global\setbox\@mpfootinsv@l\vbox{%
13344         \unvbox\@mpfootinsv@l
13345         \@RTLfalse
13346         \def\baselinestretch{\m@m@footnote@spacing}%
13347         \reset@font\LTRfoottextfont
13348         \hsize\columnwidth \@parboxrestore
13349         \protected@edef\@currentlabel{%
13350             \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

13351 \color@begingroup
13352 \@tencolLTRfootfmt{#1}%
13353 \color@endgroup}%
13354 \m@mmf@prepare}
13355 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
13356 \global\setbox\@mpfootinsv@r\vbox{%
13357 \unvbox\@mpfootinsv@r
13358 \@RTLtrue
13359 \def\baselinestretch{\m@m@footnote@spacing}%
13360 \reset@font\RTLfoottextfont
13361 \hsize\columnwidth \@parboxrestore
13362 \protected@edef\@currentlabel{%
13363 \csname p@mpfootnote\endcsname\@thefnmark}%
13364 \color@begingroup
13365 \@tencolRTLfootfmt{#1}%
13366 \color@endgroup}%
13367 \m@mmf@prepare}
13368 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
13369 \@namedef{@tencol@footgroup#1}{%
13370 \def\baselinestretch{\m@m@footnote@spacing}%
13371 \hsize\bidi@columnwidth
13372 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13373 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
13374 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
13375 \@namedef{@tencol@LTRfootgroup#1}{%
13376 \def\baselinestretch{\m@m@footnote@spacing}%
13377 \hsize\bidi@columnwidth
13378 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13379 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
13380 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
13381 \@namedef{@mptencol@footgroup#1}{%
13382 \def\baselinestretch{\m@m@footnote@spacing}%
13383 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13384 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
13385 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
13386 \@namedef{@mptencol@LTRfootgroup#1}{%
13387 \def\baselinestretch{\m@m@footnote@spacing}%
13388 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13389 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
13390 \bidi@ensure@newcommand{\m@munvxh}[1]{%
13391 \setbox0=\vbox{\unvbox#1%
13392 \global\setbox1=\lastbox}%
13393 \unhbox1
13394 \unskip
13395 \unskip
13396 \unpenalty
13397 \hskip\m@mipn@skip}
13398 \bidi@ensure@newcommand{\m@mungebox}{%
13399 \setbox0=\hbox{\m@munvxh0}%
13400 \dp0=\z@
13401 \ht0=\footfudgefactor\wd0
13402 \box0
13403 \penalty0}
13404 \newskip\m@mipn@skip

```



```

13405 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
13406   {\foottextfont\global\m@mipn@skip=#1\relax}}
13407 \m@minterparanoteglue{1em plus.3em minus.3em}
13408 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
13409   \setbox0=\hbox{}}%
13410   \loop
13411     \unpenalty
13412     \setbox2=\lastbox
13413     \ifhbox2
13414       \setbox0=\hbox{\box2\unhbox0}
13415     \repeat}
13416 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
13417   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
13418 \newcommand*\AddExtraParaSkip[1]{%
13419   \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
13420 }
13421 \let\bidi@xparaskip\relax
13422 \@onlypreamble\AddExtraParaSkip
13423 \@onlypreamble\bidi@xparaskip
13424 \def\bidi@startparafootskip#1{%
13425   \global\advance\skip#1\bidi@paraskip
13426 }
13427 \@onlypreamble\bidi@startparafootskip
13428 \bidi@ensure@newcommand{\paragraphfootnotes}{%
13429   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13430   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13431   \@bidi@before@Hy@hyperfootnotes
13432   \let\@footnotetext\@parafootnotetext
13433   \let\@LTRfootnotetext\@paraLTRfootnotetext
13434   \let\@RTLfootnotetext\@paraRTLfootnotetext
13435   \dimen\footinsv@r=\footinsdim
13436   \count\footinsv@r=1000\relax
13437   \let\bidi@removexfootskip\bidi@removexparafootskip
13438   \m@make@para@footgroup{v@r}%
13439   \m@make@para@footstart{v@r}%
13440   \let\@footgroupv@r\@para@footgroupv@r
13441   \let\@footstartv@r\@para@footstartv@r
13442   \dimen\footinsv@l=\footinsdim
13443   \count\footinsv@l=1000\relax
13444   \bidi@make@para@LTRfootgroup{v@l}%
13445   \m@make@para@footstart{v@l}%
13446   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13447   \let\@footstartv@l\@para@footstartv@l
13448   \let\@mpfootnotetext\@mpparafootnotetext
13449   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13450   \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
13451   \@bidi@after@Hy@hyperfootnotes
13452   \m@make@mppara@footgroup{v@r}%
13453   \bidi@make@mppara@LTRfootgroup{v@l}%
13454   \let\mp@footgroupv@r\@mppara@footgroupv@r
13455   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
13456   \g@addto@macro\bidi@floathook{%
13457     \begingroup
13458     \foottextfont \@tempdima\normalbaselineskip

```



```

13459     \multiply \@tempdima \@cclvi
13460     \@tempdimb \columnwidth
13461     \divide \@tempdimb \@cclvi
13462     \divide \@tempdima \@tempdimb
13463     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13464 \endgroup
13465 }
13466 \AtBeginDocument{%
13467   \begingroup
13468     \foottextfont
13469     \@tempdima\footnotesep
13470     \advance\@tempdima -\ht\strutbox
13471     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13472     \advance\@tempdima.5\normalbaselineskip
13473     \bidi@xparaskip
13474     \xdef\bidi@paraskip{\the\@tempdima\relax}%
13475   \endgroup
13476   \bidi@startparafootskip\footinsv@r
13477   \bidi@startparafootskip\footinsv@l
13478 }
13479 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13480 }
13481 \newcommand{\normalRTLparaLTRfootnotes}{%
13482   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13483   \@bidi@before@Hy@hyperfootnotes
13484   \if@RTL@footnote
13485     \let\@footnotetext\m@mold@footnotetext
13486   \else
13487     \let\@footnotetext\@parafootnotetext
13488   \fi
13489   \let\@LTRfootnotetext\@paraLTRfootnotetext
13490   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
13491   \dimen\footinsv@l=\footinsdim
13492   \count\footinsv@l=1000\relax
13493   \let\bidi@removexfootskip\bidi@removexparafootskip
13494   \bidi@make@para@LTRfootgroup{v@l}%
13495   \m@make@para@footstart{v@l}%
13496   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13497   \let\@footstartv@l\@para@footstartv@l
13498   \if@RTL@footnote
13499     \let\@mpfootnotetext\m@mold@mpfootnotetext
13500   \else
13501     \let\@mpfootnotetext\@mpparafootnotetext
13502   \fi
13503   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13504   \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
13505   \@bidi@after@Hy@hyperfootnotes
13506   \bidi@make@mppara@LTRfootgroup{v@l}%
13507   \let\@mpLTRfootgroupv@l\@mppara@LTRfootgroupv@l
13508   \g@addto@macro\bidi@floathook{%
13509     \begingroup
13510       \LTRfoottextfont \@tempdima\normalbaselineskip
13511       \multiply \@tempdima \@cclvi
13512       \@tempdimb \columnwidth

```



```

13513     \divide \@tempdimb \@cclvi
13514     \divide \@tempdima \@tempdimb
13515     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13516   \endgroup
13517 }
13518 \AtBeginDocument{%
13519   \begingroup
13520     \LTRfoottextfont
13521     \@tempdima\footnotesep
13522     \advance\@tempdima -\ht\strutbox
13523     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13524     \advance\@tempdima.5\normalbaselineskip
13525     \bidi@xparaskip
13526     \xdef\bidi@paraskip{\the\@tempdima\relax}%
13527   \endgroup
13528   \bidi@startparafootskip\footinsv@l
13529 }
13530 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13531 }
13532 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
13533   \if@RTL@footnote
13534     \footinsv@r
13535   \else
13536     \footinsv@l
13537   \fi
13538   {%
13539     \let\bidi@RTL@everypar\@empty%
13540     \def\baselinestretch{\m@m@footnote@spacing}%
13541     \reset@font\foottextfont
13542     \@preamfntext
13543     \protected@edef\@currentlabel{%
13544       \csname p@footnote\endcsname\@thefnmark}%
13545     \setbox0=\vbox{\hsize=\maxdimen
13546       \color@begingroup
13547         \noindent \@parafootfmt{#1}%
13548       \color@endgroup}%
13549     \m@mungebox\m@m@mmf@prepare}
13550 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
13551   \let\bidi@RTL@everypar\@empty%
13552   \def\baselinestretch{\m@m@footnote@spacing}%
13553   \reset@font\LTRfoottextfont
13554   \@preamfntext
13555   \protected@edef\@currentlabel{%
13556     \csname p@footnote\endcsname\@thefnmark}%
13557   \setbox0=\vbox{\hsize=\maxdimen
13558     \color@begingroup
13559       \noindent \@paraLTRfootfmt{#1}%
13560     \color@endgroup}%
13561   \m@mungebox\m@m@mmf@prepare}
13562 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
13563   \let\bidi@RTL@everypar\@empty%
13564   \def\baselinestretch{\m@m@footnote@spacing}%
13565   \reset@font\RTLfoottextfont
13566   \@preamfntext

```



```

13567 \protected@edef\@currentlabel{%
13568 \csname p@footnote\endcsname\@thefnmark}%
13569 \setbox0=\vbox{\hsize=\maxdimen
13570 \color@begingroup
13571 \noindent \@paraRTLfootfmt{#1}%
13572 \color@endgroup}%
13573 \m@mungebox}\m@mmf@prepare}
13574 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
13575 \parindent=\z@
13576 \parfillskip=0pt \@plus 1fil
13577 {\footfootmark\strut {\foottextfont #1}\penalty-10}}
13578 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
13579 \parindent=\z@
13580 \parfillskip=0pt \@plus 1fil
13581 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
13582 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
13583 \parindent=\z@
13584 \parfillskip=0pt \@plus 1fil
13585 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
13586 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
13587 \global\setbox
13588 \if@RTL@footnote
13589 \@mpfootinsv@r
13590 \else
13591 \@mpfootinsv@l
13592 \fi
13593 \vbox{%
13594 \unvbox
13595 \if@RTL@footnote
13596 \@mpfootinsv@r
13597 \else
13598 \@mpfootinsv@l
13599 \fi
13600 \let\bidi@RTL@everypar\@empty
13601 \def\baselinestretch{\m@m@footnote@spacing}%
13602 \reset@font\foottextfont
13603 \hsize\columnwidth \@parboxrestore
13604 \protected@edef\@currentlabel{%
13605 \csname p@mpfootnote\endcsname\@thefnmark}%
13606 \setbox0=\vbox{\hsize=\maxdimen
13607 \color@begingroup
13608 \noindent \@parafootfmt{#1}%
13609 \color@endgroup}%
13610 \m@mungebox}\m@mmf@prepare}
13611 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
13612 \global\setbox\@mpfootinsv@l\vbox{%
13613 \unvbox\@mpfootinsv@l
13614 \let\bidi@RTL@everypar\@empty
13615 \def\baselinestretch{\m@m@footnote@spacing}%
13616 \reset@font\LTRfoottextfont
13617 \hsize\columnwidth \@parboxrestore
13618 \protected@edef\@currentlabel{%
13619 \csname p@mpfootnote\endcsname\@thefnmark}%
13620 \setbox0=\vbox{\hsize=\maxdimen

```



```

13621 \color@begingroup
13622 \noindent \@paraLTRfootfmt{#1}%
13623 \color@endgroup}%
13624 \m@ungebox}\m@mfm@prepare}
13625 \bidi@ensure@newcommand{\m@pparaRTLfootnotetext}[1]{%
13626 \global\setbox\@mpfootinsv\@vbox{%
13627 \unvbox\@mpfootinsv
13628 \let\bidi@RTL@everypar\@empty
13629 \def\baselinestretch{\m@m@footnote@spacing}%
13630 \reset@font\RTLfoottextfont
13631 \hsize\columnwidth \@parboxrestore
13632 \protected@edef\@currentlabel{%
13633 \csname p@mpfootnote\endcsname\@thefnmark}%
13634 \setbox0=\vbox{\hsize=\maxdimen
13635 \color@begingroup
13636 \noindent \@paraRTLfootfmt{#1}%
13637 \color@endgroup}%
13638 \m@ungebox}\m@mfm@prepare}
13639 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
13640 \@namedef{\@para@footgroup#1}{%
13641 \unvbox\@nameuse{footins#1}
13642 \@RTLtrue
13643 \m@mmakehboxofhboxes
13644 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13645 \hsize\bidi@columnwidth
13646 \@parboxrestore
13647 \def\baselinestretch{\m@m@footnote@spacing}%
13648 \@nameuse{foottextfont#1}%
13649 \noindent\unhbox0\par}}
13650 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
13651 \@namedef{\@para@LTRfootgroup#1}{%
13652 \unvbox\@nameuse{footins#1}
13653 \@RTLfalse
13654 \m@mmakehboxofhboxes
13655 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13656 \hsize\bidi@columnwidth
13657 \@parboxrestore
13658 \def\baselinestretch{\m@m@footnote@spacing}%
13659 \@nameuse{foottextfont#1}%
13660 \noindent\unhbox0\par}}
13661 \newcommand{\bidi@removexparafootskip}{%
13662 \advance\@tempskipa -\bidi@paraskip
13663 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
13664 }
13665 \let\bidi@removexfootskip\relax
13666 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
13667 \@namedef{\m@ppara@footgroup#1}{%
13668 \unvbox\@nameuse{\@mpfootins#1}
13669 \@RTLtrue
13670 \m@mmakehboxofhboxes
13671 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13672 \def\baselinestretch{\m@m@footnote@spacing}%
13673 \@nameuse{foottextfont#1}%
13674 \noindent\unhbox0\par}}

```



```

13675 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
13676 \@namedef{@mppara@LTRfootgroup#1}{%
13677   \unvbox\@nameuse{@mpfootins#1}
13678   \@RTLfalse
13679   \m@mmakehboxofhboxes
13680   \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13681   \def\baselinestretch{\m@m@footnote@spacing}%
13682   \@nameuse{foottextfont#1}%
13683   \noindent\unhbox0\par}}
13684 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
13685 \@namedef{@para@footstart#1}{%
13686   \leftskip=\z@
13687   \rightskip=\z@
13688   \parindent=\z@
13689   }%
13690 }
13691 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
13692   \xdef\@freelist{\@freelist\@midlist}%
13693   \global\let\@midlist\@empty
13694   \@combinefloats}
13695 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
13696   \ifvbox\@kludgeins
13697     \@makespecialcolbox
13698   \else
13699     \setbox\@outputbox \vbox to\@colht{%
13700       \@texttop
13701       \dimen@ \dp\@outputbox
13702       \unvbox \@outputbox
13703       \vskip -\dimen@
13704       \@textbottom}%
13705   \fi}
13706 \bidi@ensure@newcommand*{\m@m@makecolintro}{%}
13707 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
13708   \boxmaxdepth\@maxdepth
13709   \@tempdima\dp\@cclv
13710   \unvbox\@cclv
13711   \vskip-\@tempdima
13712   \bidi@mopfn@bottom
13713   \vskip \skip\footins
13714   \color@begingroup
13715     \normalcolor
13716     \footnoterule
13717     \unvbox \footins
13718   \color@endgroup
13719   }%
13720 }
13721 \newcommand*{\bidi@mopfootnotebf}{%
13722   \setbox\@outputbox \vbox{%
13723     \boxmaxdepth\@maxdepth
13724     \unvbox\@outputbox
13725     \bidi@mopfn@bottom
13726     \vskip\skip\footins
13727     \color@begingroup
13728     \normalcolor

```




```

13729 \footnoterule
13730 \unvbox \footins
13731 \color@endgroup
13732 }%
13733 }
13734 \gdef\mem@makecol{%
13735 \m@m@makecolintro
13736 \m@mdoextrafeet
13737 \ifvoid\footins
13738 \setbox\@outputbox \box\@cclv
13739 \else
13740 \m@mopfootnote
13741 \fi
13742 \m@m@makecolfloats
13743 \m@m@makecoltext
13744 \global \maxdepth \@maxdepth}
13745 \gdef\bidi@makecolbf{%
13746 \m@m@makecolintro
13747 \m@mdoextrafeet
13748 \setbox\@outputbox \box\@cclv
13749 \m@m@makecolfloats
13750 \ifvoid\footins
13751 \else
13752 \bidi@mopfootnotebf
13753 \fi
13754 \m@m@makecoltext
13755 \global \maxdepth \@maxdepth}
13756 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
13757 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
13758 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
13759 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
13760 \FeetAboveFloat
13761 \FeetBelowRagged
13762 \def\bidi@reinserts#1{\ifvoid#1\else
13763 \ifnum\count\@currbox>\z@
13764 \advance\@pageht \ht#1%
13765 \advance\@pageht \skip#1%
13766 \advance\@pageht \dp#1%
13767 \fi
13768 \insert#1{\unvbox#1}%
13769 \fi
13770 }
13771 \def\bidi@init@multi@footins#1{%
13772 \multiply\count#1\col@number
13773 \multiply\skip#1\col@number
13774 }
13775 \def\bidi@reinsert@footnotes#1{\ifvoid#1\else
13776 \insert#1{}\fi}
13777 \AtBeginDocument{%
13778 \bidi@preto\@doclearpage\m@mdoextrafeet
13779 \g@addto@macro\@reinserts{%
13780 \bidi@reinserts\footinsv@r
13781 \bidi@reinserts\footinsv@l
13782 }

```



```

13783 \bidi@floathook
13784 \g@addto@macro\@floatplacement{%
13785 \bidi@ifmulticol{}\bidi@floathook}%
13786 }%
13787 \if@bidi@csundef{multi@column@out}{%
13788 \@onlypreamble\bidi@init@multi@footins
13789 \let\bidi@ifmulticol\@secondoftwo
13790 }{%
13791 \bidi@preto\multi@column@out\m@mdoextrafeet
13792 \g@addto@macro\init@mult@footins{%
13793 \bidi@init@multi@footins\footinsv@r
13794 \bidi@init@multi@footins\footinsv@l
13795 }%
13796 \g@addto@macro\reinsert@footnotes{%
13797 \bidi@reinsert@footnotes\footinsv@r
13798 \bidi@reinsert@footnotes\footinsv@l
13799 }%
13800 }%
13801 }

```

87 File extreport-xetex-bidi.def

```

13802 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport clas
13803 \renewcommand*\l@part[2]{%
13804 \ifnum \c@tocdepth >-2\relax
13805 \addpenalty{-\@highpenalty}%
13806 \addvspace{2.25em \@plus\p@}%
13807 \begingroup
13808 \setlength\@tempdima{3em}%
13809 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13810 \parfillskip -\@pnumwidth
13811 {\leavevmode
13812 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
13813 \nobreak
13814 \global\@nobreaktrue
13815 \everypar{\global\@nobreakfalse\everypar{}}%
13816 \endgroup
13817 \fi}
13818 \renewcommand*\l@chapter[2]{%
13819 \ifnum \c@tocdepth >\m@ne
13820 \addpenalty{-\@highpenalty}%
13821 \vskip 1.0em \@plus\p@
13822 \setlength\@tempdima{1.5em}%
13823 \begingroup
13824 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13825 \parfillskip -\@pnumwidth
13826 \leavevmode \bfseries
13827 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
13828 \hskip -\if@RTL\rightskip\else\leftskip\fi
13829 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
13830 \penalty\@highpenalty
13831 \endgroup
13832 \fi}
13833 \def\@makechapterhead#1{%

```



```

13834 \vspace*{50\p@}%
13835 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
13836 \ifnum \c@secnumdepth >\m@ne
13837 \huge\bfseries \@chapapp\space \thechapter
13838 \par\nobreak
13839 \vskip 20\p@
13840 \fi
13841 \interlinepenalty\@M
13842 \Huge \bfseries #1\par\nobreak
13843 \vskip 40\p@
13844 }}
13845 \def\@makeschapterhead#1{%
13846 \vspace*{50\p@}%
13847 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
13848 \normalfont
13849 \interlinepenalty\@M
13850 \Huge \bfseries #1\par\nobreak
13851 \vskip 40\p@
13852 }}
13853 \renewcommand\left@footnoterule{%
13854 \kern-3\p@
13855 \hrule\@width.4\columnwidth
13856 \kern2.6\p@}
13857 \renewcommand\right@footnoterule{%
13858 \kern-3\p@
13859 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13860 \kern2.6\p@}
13861 \renewenvironment{thebibliography}[1]
13862 {\chapter*{\bibname
13863 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
13864 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
13865 \bidi@thebibliography@font@hook%
13866 \list{\@biblabel{\@arabic\c@enumiv}}%
13867 {\settowidth\labelwidth{\@biblabel{#1}}%
13868 \leftmargin\labelwidth
13869 \advance\leftmargin\labelsep
13870 \@openbib@code
13871 \usecounter{enumiv}%
13872 \let\p@enumiv\@empty
13873 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
13874 \sloppy\clubpenalty4000\widowpenalty4000%
13875 \sfcode\.\@m}
13876 {\def\@noitemerr
13877 {\@latex@warning{Empty `thebibliography' environment}}%
13878 \endlist}
13879 \if@titlepage
13880 \renewcommand\maketitle{\begin{titlepage}%
13881 \let\footnotesize\small
13882 \let\right@footnoterule\relax
13883 \let\left@footnoterule\relax
13884 \let\textwidth\footnoterule\relax
13885 \let \footnote \thanks
13886 \null\vfil
13887 \vskip 60\p@

```



```

13888 \begin{center}%
13889 {\LARGE \@title \par}%
13890 \vskip 3em%
13891 {\large
13892 \lineskip .75em%
13893 \begin{tabular}[t]{c}%
13894 \author
13895 \end{tabular}\par}%
13896 \vskip 1.5em%
13897 {\large \@date \par}% % Set date in \large size.
13898 \end{center}\par
13899 \@thanks
13900 \vfil\null
13901 \end{titlepage}%
13902 \setcounter{footnote}{0}%
13903 \global\let\thanks\relax
13904 \global\let\maketitle\relax
13905 \global\let\@thanks\@empty
13906 \global\let\@author\@empty
13907 \global\let\@date\@empty
13908 \global\let\@title\@empty
13909 \global\let\title\relax
13910 \global\let\author\relax
13911 \global\let\date\relax
13912 \global\let\and\relax
13913 }
13914 \else
13915 \renewcommand\maketitle{\par
13916 \begingroup
13917 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
13918 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
13919 \long\def\@makefntext##1{\parindent 1em\noindent
13920 \hb@xt@1.8em{%
13921 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
13922 \if@twocolumn
13923 \ifnum \col@number=\@one
13924 \@maketitle
13925 \else
13926 \twocolumn[\@maketitle]%
13927 \fi
13928 \else
13929 \newpage
13930 \global\@topnum\z@ % Prevents figures from going at top of page.
13931 \@maketitle
13932 \fi
13933 \thispagestyle{plain}\@thanks
13934 \endgroup
13935 \setcounter{footnote}{0}%
13936 \global\let\thanks\relax
13937 \global\let\maketitle\relax
13938 \global\let\@maketitle\relax
13939 \global\let\@thanks\@empty
13940 \global\let\@author\@empty
13941 \global\let\@date\@empty

```



```

13942 \global\let\@title\@empty
13943 \global\let\title\relax
13944 \global\let\author\relax
13945 \global\let\date\relax
13946 \global\let\and\relax
13947 }
13948 \def\@maketitle{%
13949 \newpage
13950 \null
13951 \vskip 2em%
13952 \begin{center}%
13953 \let \footnote \thanks
13954 {\LARGE \@title \par}%
13955 \vskip 1.5em%
13956 {\large
13957 \lineskip .5em%
13958 \begin{tabular}[t]{c}%
13959 \@author
13960 \end{tabular}\par}%
13961 \vskip 1em%
13962 {\large \@date}%
13963 \end{center}%
13964 \par
13965 \vskip 1.5em}
13966 \fi
13967 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
13968 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\csubsection}
13969 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\csubsubsection}
13970 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\cparagraph}
13971 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\csubparagraph}
13972 \renewcommand\theequation{%
13973 \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@equation}
13974 \renewcommand\thefigure{%
13975 \ifnum \c@chapter>z@\thechapter\@SepMark\fi \@arabic\c@figure}
13976 \renewcommand\thetable{%
13977 \ifnum \c@chapter>z@\thechapter\@SepMark\fi\@arabic\c@table}

```

88 File fancybox-xetex-bidi.def

```

13978 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
13979 \def\fancy@oval#1#2#3{%
13980 \boxmaxdepth \maxdimen
13981 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
13982 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
13983 \@ovxx#1\relax
13984 \advance\@ovxx-\@wholewidth
13985 \@ovyy#2\relax
13986 \advance\@ovyy-\@wholewidth
13987 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
13988 \advance\@tempdimb-2\p@
13989 \ifdim\@tempdimb>\the@cornersize\relax
13990 \@tempdimb=\the@cornersize
13991 \fi
13992 \@getcirc\@tempdimb

```



```

13993 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
13994 \@ovdx\@ovxx \advance\ovdx-\@tempdima \divide\ovdx \tw@
13995 \@ovdy\@ovyy \advance\ovdy-\@tempdima \divide\ovdy \tw@
13996 \@circlefnt
13997 \setbox\@tempboxa\hbox{\beginL%
13998   \if@ovr \ovvert32\kern -\@tempdima \fi
13999   \if@ovl \kern \ovxx \ovvert01\kern -\@tempdima \kern -\ovxx \fi
14000   \if@ovt \ovhorz \kern -\ovxx \fi
14001   \if@ovb \raise \ovyy \ovhorz \fi\endL}%
14002 \advance\ovdx\ovro
14003 \advance\ovdy\ovro
14004 \advance\ovxx\@wholewidth
14005 \wd\@tempboxa=\ovxx
14006 \dp\@tempboxa=\z@}

```

89 File fancyhdr-xetex-bidi.def

```

14007 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
14008
14009 \let\f@nch@everypar\everypar
14010
14011 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
14012 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
14013

```

90 File fix2col-xetex-bidi.def

```

14014 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
14015 \def\RTL\outputdblcol{%
14016   \if@firstcolumn
14017     \global\@firstcolumnfalse
14018     \global\setbox\@leftcolumn\copy\@outputbox
14019     \splitmaxdepth\maxdimen
14020     \vbadness\maxdimen
14021     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14022     \toks@{\expandafter\topmark}%
14023     \xdef\@firstcoltopmark{\the\toks@}%
14024     \toks@{\expandafter\splitfirstmark}%
14025     \xdef\@firstcolfirstmark{\the\toks@}%
14026     \ifx\@firstcolfirstmark\@empty
14027       \global\let\@setmarks\relax
14028     \else
14029       \gdef\@setmarks{%
14030         \let\firstmark\@firstcolfirstmark
14031         \let\topmark\@firstcoltopmark}%
14032     \fi
14033   \else \global\@firstcolumntrue
14034     \setbox\@outputbox \vbox {\hbox to\textwidth {%
14035       \hskip \columnwidth
14036       \hfil \vrule width\columnseprule \hfil
14037       \hbox to\columnwidth {%
14038         \bidi@firstcolumn@status@write%
14039         \box\@leftcolumn \hss}%
14040       \hskip -\textwidth

```



```

14041 \hbox to\columnwidth{%
14042 \bidi@lastcolumn@status@write%
14043 \box\@outputbox \hss}%
14044 \hskip \columnsep
14045 \hskip \columnwidth }}%
14046 \@combinedblfloats \@setmarks \@outputpage
14047 \begingroup \@dblfloatplacement \@startdblcolumn
14048 \@whiles\if@fcolmade \fi
14049 {\@outputpage \@startdblcolumn }\endgroup
14050 \fi}
14051 \def\LTR@outputdblcol{%
14052   \if@firstcolumn
14053     \global\@firstcolumnfalse
14054     \global\setbox\@leftcolumn\copy\@outputbox
14055     \splitmaxdepth\maxdimen
14056     \vbadness\maxdimen
14057     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14058     \toks@\expandafter{\topmark}%
14059     \xdef\@firstcoltopmark{\the\toks@}%
14060     \toks@\expandafter{\splitfirstmark}%
14061     \xdef\@firstcolfirstmark{\the\toks@}%
14062     \ifx\@firstcolfirstmark\@empty
14063       \global\let\@setmarks\relax
14064     \else
14065       \gdef\@setmarks{%
14066         \let\firstmark\@firstcolfirstmark
14067         \let\topmark\@firstcoltopmark}%
14068     \fi
14069   \else
14070     \global\@firstcolumntrue
14071     \setbox\@outputbox\vbox{%
14072       \hb@xt@\textwidth{%
14073         \hb@xt@\columnwidth{%
14074           \bidi@firstcolumn@status@write%
14075           \box\@leftcolumn \hss}%
14076         \hfil
14077         \vrule \@width\columnseprule
14078         \hfil
14079         \hb@xt@\columnwidth{%
14080           \bidi@lastcolumn@status@write%
14081           \box\@outputbox \hss}}}%
14082   \@combinedblfloats
14083   \@setmarks
14084   \@outputpage
14085   \begingroup
14086     \dblfloatplacement
14087     \startdblcolumn
14088     \@whiles\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
14089   \endgroup
14090 \fi}

```

91 File fleqn-xetex-bidi.def

```

14091 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]

```



```

14092 \DeclareRobustCommand\[{ \relax
14093         \ifmmode \@badmath
14094         \else
14095             \begin{trivlist}%
14096                 \@beginparpenalty\predisplaypenalty
14097                 \@endparpenalty\postdisplaypenalty
14098                 \item[] \leavevmode
14099                 \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
14100                 \hskip\mathindent\bgroup
14101             \fi}
14102 \DeclareRobustCommand\]{ \relax
14103         \ifmmode
14104             \egroup $\hfil% $
14105             \endL\egroup
14106             \end{trivlist}%
14107         \else \@badmath
14108         \fi}
14109 \renewenvironment{equation}%
14110     { \@beginparpenalty\predisplaypenalty
14111       \@endparpenalty\postdisplaypenalty
14112       \refstepcounter{equation}%
14113       \trivlist \item[] \leavevmode
14114         \hb@xt@\linewidth\bgroup \beginL $\m@th% $
14115         \displaystyle
14116         \hskip\mathindent}%
14117     { $\hfil % $
14118       \displaywidth\linewidth\hbox{\@eqnnum}%
14119       \endL\egroup
14120     \endtrivlist}

```

92 File float-xetex-bidi.def

```

14121 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for
14122 \renewcommand\floatc@plain[2]{ \setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
14123 \ifdim\wd\@tempboxa>\hspace{\@fs@cfont #1:} #2\par
14124 \else\hbox to\hspace{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
14125 \def\float@newx#1[#2]{ \ifundefined{c@#1}{\newcounter{#1}[#2]}%
14126 \expandafter\edef\csname the#1\endcsname{%
14127 \expandafter\noexpand\csname
14128 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
14129 {\PackageWarning{float}{Can't redefine counter variable for #1.}}

```

93 File floatrow-xetex-bidi.def

```

14130 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow packag
14131 \RequirePackage{color}
14132 \renewcommand\flnew@within[1]{ \addtoreset{FB@captop}{#1}%
14133 \expandafter\edef\csname the\FB@captop\endcsname{%
14134 \expandafter\noexpand\csname
14135 the#1\endcsname\@SepMark\noexpand\arabic{FB@captop}}}%

```

94 File flowfram-xetex-bidi.def

```

14136 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram packag

```




```

14137 \def\@outputdblcol{%
14138 \c@nextcol=\c@thisframe
14139 \c@curpg=\c@page
14140 \g@tnextcol{\c@nextcol}%
14141 \if@ff@nwpag % next flow frame starts on new page
14142 \global\@firstcolumntrue
14143 \setcolbox\c@thisframe
14144 \if@specialpage
14145 \global\@specialpagefalse
14146 \nameuse{ps@\@specialstyle}\relax
14147 \fi
14148 \if@twoside
14149 \ifodd\count\z@
14150 \let\@thehead\@oddhead
14151 \let\@thefoot\@oddfoot
14152 \else
14153 \let\@thehead\@evenhead
14154 \let\@thefoot\@evenfoot
14155 \fi
14156 \else
14157 \let\@thehead\@oddhead
14158 \let\@thefoot\@oddfoot
14159 \fi
14160 \@begindvi
14161 \dodynamicthehead\@dynamicthefoot
14162 \vbadness=\@M
14163 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14164 \@combinedblfloats
14165 \@outputpage
14166 \advance\c@curpg by -\c@page\relax
14167 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
14168 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
14169 \@outputpage}
14170 \begingroup
14171 \dblfloatplacement
14172 \startdblcolumn
14173 \@whilesw \if@colmade \fi
14174 {\@outputpage \startdblcolumn }\endgroup
14175 \resetst@tics
14176 \resetdyn@tics
14177 \else % still on same page, save contents of box255
14178 \global\@firstcolumnfalse
14179 \setcolbox\c@thisframe
14180 \fi
14181 \global\c@thisframe=\c@nextcol
14182 \setcol{\c@thisframe}\relax
14183 \global\colht\vsiz
14184 }
14185 \def\@outputpage{%
14186 \begingroup
14187 \let\protect\noexpand
14188 \resetactivechars
14189 \global\let\@if@newlist\if@newlist
14190 \global\@newlistfalse\@parboxrestore

```



```

14191 \global\let\bidibeforeoutputpageshipout\@firstofone
14192 \bidibeforeoutputpageshipouthook
14193 \shipout\vbox{\set@typeset@protect
14194 \aftergroup
14195 \endgroup
14196 \aftergroup
14197 \set@typeset@protect
14198 \reset@font\normalsize
14199 \bidifont@@outputpage
14200 \normalsfcodes
14201 \let\label\@gobble
14202 \let\index\@gobble
14203 \let\glossary\@gobble
14204 \baselineskip\z@skip
14205 \lineskip\z@skip
14206 \lineskiplimit\z@
14207 \vskip\topmargin\moveright\@themargin
14208 \vbox{%
14209 \global\let\bidibeforeheader\@firstofone
14210 \bidibeforeheaderhook
14211 \vskip\headheight
14212 \vskip\headsep
14213 \global\let\bidibeforeoutputboxoutputpage\@firstofone
14214 \bidibeforeoutputboxoutputpagehook
14215 \box\@outputbox
14216 \global\let\bidiafteroutputboxoutputpage\@firstofone
14217 \bidiafteroutputboxoutputpagehook
14218 }%
14219 \global\let\bidiafteroutputpageshipout\@firstofone
14220 \bidiafteroutputpageshipouthook
14221 \global\let\ifnewlist\@ifnewlist
14222 \stepcounter{page}%
14223 \setcounter{displayedframe}{0}%
14224 \let\firstmark\botmark
14225 \global\let\bidiatendoutputpage\@firstofone
14226 \bidiatendoutputpagehook
14227 }
14228
14229
14230 \newcommand*\bidis@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}%
14231 \expandafter\bidicolor\ff@txtcol}}
14232
14233 \newcommand{\bidiff@box}[3]{\@ffbackground{\vbox to#2
14234 {\hb@xt@ #1{\hss{\bidis@tfftextcol #3}\hss}\vss\kern\z@}}}%
14235
14236
14237 \renewcommand*\@docolbox}[1]{%
14238 \edef\ff@frametype{%
14239 \csname @ff@frametype@\romannumeral#1\endcsname}%
14240 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
14241 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
14242 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
14243 \@ff@setoffset{#1}%
14244 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%

```



```

14245 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
14246 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
14247 {\csname colheight\romannumeral#1\endcsname}{%
14248 \expandafter\box\csname column\romannumeral#1\endcsname}{%
14249 \csname ff@frametype\endcsname}%
14250 }{%
14251 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
14252 {\csname colheight\romannumeral#1\endcsname}{%
14253 \expandafter\box\csname column\romannumeral#1\endcsname}%
14254 }}}
14255 \IfClassLoadedT{book}{%
14256 \renewcommand\theequation
14257 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14258 \renewcommand \thefigure
14259 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14260 \renewcommand \thetable
14261 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14262 \renewcommand \thechapter {\@arabic\c@chapter}
14263 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14264 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14265 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
14266 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14267 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
14268 \IfClassLoadedT{report}{%
14269 \renewcommand\theequation
14270 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14271 \renewcommand \thefigure
14272 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14273 \renewcommand \thetable
14274 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14275 \renewcommand \thechapter {\@arabic\c@chapter}
14276 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14277 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14278 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
14279 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14280 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
14281 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
14282 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
14283 \else
14284 #2\relax
14285 \fi}

```

95 File fnpct-xetex-bidi.def

```

14286 \ProvidesFile{fnpct-xetex-bidi.def}[2025/09/12 v0.2 bidi adaptations for fnpct package for
14287 \ExplSyntaxOn
14288 \ifclassloaded{beamer}
14289 {
14290 \AdaptNote \footnote{d< >o+m} [\beamer@mpfn]
14291 {
14292 \IfNoValueTF{#1}
14293 {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
14294 {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14295 }

```



```

14296 \AdaptNote \RTLfootnote{d<>o+m} [\beamer@mpfn]
14297 {
14298     \IfNoValueTF{#1}
14299     {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
14300     {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14301 }
14302 \AdaptNote \LTRfootnote{d<>o+m} [\beamer@mpfn]
14303 {
14304     \IfNoValueTF{#1}
14305     {\IfNoValueTF{#2}{#NOTE{#3}}{#NOTE[#2]{#3}}}
14306     {\IfNoValueTF{#2}{#NOTE<#1>{#3}}{#NOTE<#1>[#2]{#3}}}
14307 }
14308 }
14309 {
14310     \AdaptNote \RTLfootnote {o+m} [\@mpfn]
14311     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
14312     \AdaptNote \LTRfootnote {o+m} [\@mpfn]
14313     { \IfNoValueTF {#1} {#NOTE{#2}} {#NOTE[#1]{#2}} }
14314 }
14315 \ExplSyntaxOff

```

96 File footnote-xetex-bidi.def

```

14316 \ProvidesFile{footnote-xetex-bidi.def}[2025/09/20 v1.4 bidi footnote macros for XeTeX engine]
14317 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
14318 \newif\ifbidi@autofootnoterule
14319 \def\bidi@mpfootnoterule{\footnoterule}
14320 \newcounter{footdir@label}
14321 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
14322 \newcommand*{\footdir@write}{%
14323     \stepcounter{footdir@label}%
14324     \zref@labelbyprops{\thefootdir@label}{abspage}%
14325 }
14326 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
14327 \newtoks\footdir@toks
14328 \newcommand*{\footdir@debug}[1]{%
14329     \iffootdir@debug
14330     \typeout{[footdir] #1}%
14331     \fi
14332 }
14333 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
14334 % \newcommand*{\footdir@LeftRightElse}{%
14335 % \ltx@ifundefined{footdir@the\value{zabspage}}{%
14336 % \footdir@debug{abspage \the\value{zabspage}: else}%
14337 % \ltx@thirdofthree
14338 % }{%
14339 % \if\csname footdir@the\value{zabspage}\endcsname L%
14340 % \footdir@debug{abspage \the\value{zabspage}: left}%
14341 % \expandafter\ltx@firstofthree
14342 % \else
14343 % \footdir@debug{abspage \the\value{zabspage}: right}%
14344 % \expandafter\ltx@secondofthree
14345 % \fi
14346 % }%

```



```

14347 % }%
14348 %}{%
14349 \providecommand*{\c@zabspage}{\c@abspage}%
14350 \newcommand*{\footdir@LeftRightElse}{%
14351   \footdir@write
14352   \zifrefundefined{\thefootdir@label}{%
14353     \footdir@debug{abspage ??: else}%
14354     \ltx@thirdofthree
14355   }{%
14356     \edef\footdir@abspage{%
14357       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
14358     }%
14359     \ltx@ifundefined{footdir@\footdir@abspage}{%
14360       \footdir@debug{\footdir@abspage: else}%
14361       \ltx@thirdofthree
14362     }{%
14363       \if\csname footdir@\footdir@abspage\endcsname L%
14364         \footdir@debug{\footdir@abspage: left}%
14365         \expandafter\ltx@firstofthree
14366       \else
14367         \footdir@debug{\footdir@abspage: right}%
14368         \expandafter\ltx@secondofthree
14369       \fi
14370     }%
14371   }%
14372 }%
14373 %}
14374 \newcommand*{\footdir@fntext}[1]{%
14375   \zifrefundefined{\thefootdir@label}{%
14376   }{%
14377     \edef\footdir@name{%
14378       footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
14379     }%
14380     \@ifundefined{\footdir@name}{%
14381       \expandafter\gdef\csname\footdir@name\endcsname{#1}%
14382     }{}%
14383   }%
14384 }
14385
14386 \newcommand*{\footdir@temp}[3]{%
14387   \@ifdefinable{#1}{%
14388     \let#1#2%
14389     \renewcommand{#2}[1]{%
14390       \footdir@write
14391       \footdir@fntext{#3}%
14392       \stepcounter{footdir@label}%
14393       \footdir@fntext{#3}%
14394       \footdir@toks{##1}%
14395       \footdir@toks\expandafter{%
14396         \the\expandafter\footdir@toks
14397       \expandafter
14398       \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
14399     }%
14400     \expandafter#1\expandafter{\the\footdir@toks}%

```



```

14401     }%
14402 }%
14403 }
14404
14405 \def\right@footnoterule{%
14406   \kern-3\p@
14407   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14408   \kern2.6\p@}
14409 \def\right@mpfootnoterule{%
14410   \kern-\baselineskip
14411   \kern-3\p@
14412   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14413   \kern2.6\p@}
14414 \def\left@footnoterule{\kern-3\p@
14415   \hrule \@width .4\columnwidth \kern 2.6\p@}
14416 \def\textwidth@footnoterule{\kern-3\p@
14417   \hrule \@width \columnwidth \kern 2.6\p@}
14418 \def\leftfootnoterule{%
14419   \bidi@autofootnoterulefalse%
14420   \def\footnoterule{\left@footnoterule}%
14421   \def\bidi@mpfootnoterule{\left@footnoterule}%
14422 }
14423 \let\LRfootnoterule=\leftfootnoterule
14424 \def\rightfootnoterule{%
14425   \bidi@autofootnoterulefalse%
14426   \def\footnoterule{\right@footnoterule}%
14427   \def\bidi@mpfootnoterule{\right@mpfootnoterule}%
14428 }
14429 \def\textwidthfootnoterule{%
14430   \bidi@autofootnoterulefalse%
14431   \def\footnoterule{\textwidth@footnoterule}%
14432   \def\bidi@mpfootnoterule{\textwidth@footnoterule}%
14433 }
14434
14435
14436
14437 \def\auto@footnoterule{%
14438   \footdir@LeftRightElse%
14439   \left@footnoterule%
14440   \right@footnoterule%
14441   \left@footnoterule%
14442 }
14443
14444
14445
14446 \def\autofootnoterule{%
14447   \bidi@autofootnoteruletrue%
14448   \def\footnoterule{\auto@footnoterule}%
14449 }
14450
14451 \newcommand*\SplitFootnoteRule{%
14452   \gdef\split@prev{0}
14453   \let\pagefootnoterule\footnoterule
14454   \let\mpfootnoterule\footnoterule

```



```

14455 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
14456 \def\footnoterule{\relax
14457   \ifx \@listdepth\@mplistdepth
14458     \mpfootnoterule
14459   \else
14460     \ifnum\split@prev=\z@
14461       \pagefootnoterule
14462     \else
14463       \splitfootnoterule
14464     \fi
14465     \xdef\split@prev{\the\insertpenalties}%
14466   \fi
14467 }%
14468 }
14469
14470
14471
14472
14473 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
14474   \protected@xdef\@thefnmark{\thempfn}%
14475   \@footnotemark\@RTLfootnotetext}}
14476 \def\@xRTLfootnote[#1]{%
14477   \begingroup
14478     \csname c@\@mpfn\endcsname #1\relax
14479     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14480   \endgroup
14481   \@footnotemark\@RTLfootnotetext}
14482 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
14483   \protected@xdef\@thefnmark{\thempfn}%
14484   \@footnotemark\@LTRfootnotetext}}
14485 \def\@xLTRfootnote[#1]{%
14486   \begingroup
14487     \csname c@\@mpfn\endcsname #1\relax
14488     \unrestored@protected@xdef\@thefnmark{\thempfn}%
14489   \endgroup
14490   \@footnotemark\@LTRfootnotetext}
14491
14492
14493 \def\setfootnoteRL{\@RTL@footnotetrue}
14494 \def\unsetfootnoteRL{\@RTL@footnotefalse}
14495 \def\setfootnoteLR{\unsetfootnoteRL}
14496
14497 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
14498 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
14499 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
14500
14501 \long\def\@footnotetext#1{\insert\footins{%
14502   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14503   \reset@font%
14504   \bidi@footnotetext@font% \reset@font\footnotesize
14505   \interlinepenalty\interfootnotelinepenalty
14506   \splittopskip\footnotesep
14507   \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14508   \hsize\columnwidth \@parboxrestore

```



```

14509 \protected@edef\@currentlabel{%
14510 \csname p@footnote\endcsname\@thefnmark
14511 }%
14512 \color@begingroup
14513 \makefntext{%
14514 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14515 \color@endgroup}}%
14516
14517
14518 \long\def\@RTLfootnotetext#1{\insert\footins{%
14519 \RTLtrue%
14520 \reset@font%
14521 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14522 \interlinepenalty\interfootnotelinepenalty
14523 \splittopskip\footnotesep
14524 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14525 \hsize\columnwidth \@parboxrestore
14526 \protected@edef\@currentlabel{%
14527 \csname p@footnote\endcsname\@thefnmark
14528 }%
14529 \color@begingroup
14530 \makefntext{%
14531 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14532 \color@endgroup}}%
14533
14534 \long\def\@LTRfootnotetext#1{\insert\footins{%
14535 \RTLfalse%
14536 \reset@font%
14537 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14538 \interlinepenalty\interfootnotelinepenalty
14539 \splittopskip\footnotesep
14540 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14541 \hsize\columnwidth \@parboxrestore
14542 \protected@edef\@currentlabel{%
14543 \csname p@footnote\endcsname\@thefnmark
14544 }%
14545 \color@begingroup
14546 \makefntext{%
14547 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14548 \color@endgroup}}%
14549
14550 \AtBeginDocument{%
14551 \if@RTL@footnote
14552 \newcommand*{\bidi@footdir@footnote}{R}
14553 \else
14554 \newcommand*{\bidi@footdir@footnote}{L}
14555 \fi%
14556 }
14557
14558 \footdir@temp\footdir@ORG\bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
14559 \footdir@temp\footdir@ORG\bidi@RTLfootnotetext\@RTLfootnotetext{R}%
14560 \footdir@temp\footdir@ORG\bidi@LTRfootnotetext\@LTRfootnotetext{L}%
14561
14562 \long\def\@mpRTLfootnotetext#1{%

```




```

14563 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@mpf
14564 \global\setbox\@mpfootins\vbox{%
14565 \unvbox\@mpfootins
14566 \@RTLtrue
14567 \reset@font%
14568 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14569 \hsize\columnwidth
14570 \@parboxrestore
14571 \protected@edef\@currentlabel
14572 {\csname p@mpfootnote\endcsname\@thefnmark}%
14573 \color@begingroup
14574 \makefntext{%
14575 \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14576 \color@endgroup}}
14577 \long\def\@mpLTRfootnotetext#1{%
14578 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footn
14579 \global\setbox\@mpfootins\vbox{%
14580 \unvbox\@mpfootins
14581 \@RTLfalse
14582 \reset@font%
14583 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14584 \hsize\columnwidth
14585 \@parboxrestore
14586 \protected@edef\@currentlabel
14587 {\csname p@mpfootnote\endcsname\@thefnmark}%
14588 \color@begingroup
14589 \makefntext{%
14590 \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14591 \color@endgroup}}
14592 \long\def\@mpfootnotetext#1{%
14593 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnot
14594 \global\setbox\@mpfootins\vbox{%
14595 \unvbox\@mpfootins
14596 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14597 \reset@font%
14598 \bidi@footnotetext@font% \reset@font\footnotesize
14599 \hsize\columnwidth
14600 \@parboxrestore
14601 \protected@edef\@currentlabel
14602 {\csname p@mpfootnote\endcsname\@thefnmark}%
14603 \color@begingroup
14604 \makefntext{%
14605 \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14606 \color@endgroup}}
14607 \def\@iiiminipage#1#2[#3]#4{%
14608 \leavevmode
14609 \@pboxswfalse
14610 \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
14611 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
14612 \setlength\@tempdima{#4}%
14613 \def\@mpargs{{#1}{#2}[#3]{#4}}%
14614 \setbox\@tempboxa\vbox\bgroup
14615 \color@begingroup
14616 \hsize\@tempdima

```



```

14617 \textwidth\hsize \columnwidth\hsize
14618 \@parboxrestore
14619 \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
14620 \let\@footnotetext\@mpfootnotetext
14621 \let\@LTRfootnotetext\@mpLTRfootnotetext
14622 \let\@RTLfootnotetext\@mpRTLfootnotetext
14623 \let\@listdepth\@mplistdepth \@mplistdepth\z@
14624 \@minipagerestore
14625 \setminipage}
14626 \def\endminipage{%
14627 \par
14628 \unskip
14629 \ifvoid\@mpfootins\else
14630 \vskip\skip\@mpfootins
14631 \normalcolor
14632 \bidi@mpfootnoterule
14633 \unvbox\@mpfootins
14634 \fi
14635 \@minipagefalse %% added 24 May 89
14636 \color@endgroup
14637 \egroup
14638 \expandafter\@iiparbox\@mpargs{\unvbox\@tempboxa}}
14639 \def\LTRthanks#1{\footnotemark
14640 \protected@xdef\@thanks{\@thanks
14641 \protect\LTRfootnotetext[\the\c@footnote]{#1}}}%
14642 }
14643 \def\LTRfootnotetext{%
14644 \@ifnextchar [\@xLTRfootnotenext
14645 {\protected@xdef\@thefnmark{\thempfn}%
14646 \@LTRfootnotetext}}
14647 \def\@xLTRfootnotenext[#1]{%
14648 \begingroup
14649 \csname c@\@mpfn\endcsname #1\relax
14650 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14651 \endgroup
14652 \@LTRfootnotetext}
14653 \def\RTLthanks#1{\footnotemark
14654 \protected@xdef\@thanks{\@thanks
14655 \protect\RTLfootnotetext[\the\c@footnote]{#1}}}%
14656 }
14657 \let\@thanks\@empty
14658 \def\RTLfootnotetext{%
14659 \@ifnextchar [\@xRTLfootnotenext
14660 {\protected@xdef\@thefnmark{\thempfn}%
14661 \@RTLfootnotetext}}
14662 \def\@xRTLfootnotenext[#1]{%
14663 \begingroup
14664 \csname c@\@mpfn\endcsname #1\relax
14665 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14666 \endgroup
14667 \@RTLfootnotetext}
14668 \leftfootnoterule

```



97 File footnotebackref-xetex-bidi.def

```

14669 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
14670 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
14671 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
14672
14673 \renewcommand*\LTRfootnote{%
14674     \refstepcounter{BackrefHyperFootnoteCounter}%
14675     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14676     \label{\BackrefFootnoteTag}%
14677     \@ifnextchar[\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
14678
14679 \renewcommand*\RTLfootnote{%
14680     \refstepcounter{BackrefHyperFootnoteCounter}%
14681     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14682     \label{\BackrefFootnoteTag}%
14683     \@ifnextchar[\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
14684 \newcommand\Backref@HyperLTRFootnote[1]{%
14685     \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
14686
14687 \newcommand\Backref@HyperRTLFootnote[1]{%
14688     \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
14689
14690 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
14691     \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
14692
14693 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
14694     \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
14695
14696 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
14697 \ifFootnoteBackref@numberlinked
14698 \renewcommand{\footfootmark}{%
14699     \ifdim\footmarkwidth < \z@
14700         \llap{\hb@xt@ -\footmarkwidth{%
14701             \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14702             \hspace*{-\footmarkwidth}}}%
14703     \else
14704         \ifdim\footmarkwidth = \z@
14705             {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14706         \else
14707             \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14708         \fi
14709     \fi}
14710 \renewcommand{\LTRfootfootmark}{%
14711     \ifdim\footmarkwidth < \z@
14712         \llap{\hb@xt@ -\footmarkwidth{%
14713             \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14714             \hspace*{-\footmarkwidth}}}%
14715     \else
14716         \ifdim\footmarkwidth = \z@
14717             {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14718         \else
14719             \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
14720         \fi

```



```

14721 \fi}
14722 \renewcommand{\RTLfootfootmark}{%
14723 \ifdim\footmarkwidth < \z@
14724 \llap{\hb@xt@ -\footmarkwidth{%
14725 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14726 \hspace*{-\footmarkwidth}}}%
14727 \else
14728 \ifdim\footmarkwidth = \z@
14729 {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14730 \else
14731 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14732 \fi
14733 \fi}
14734 \fi
14735 }

```

98 File framed-xetex-bidi.def

```

14736 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for xetex]
14737 \renewcommand\TitleBarFrame[3][\begingroup
14738 \ifx\delimiter#1\delimiter
14739 \let\TF@conlab\@empty
14740 \else
14741 \def\TF@conlab{% continuation label
14742 \nointerlineskip
14743 \smash{\rlap{\kern\wd\@tempboxa\kern\fbboxrule\kern\fbboxsep #1}}}%
14744 \fi
14745 %\let\TF@savecolor\current@color
14746 \textcolor{TFFrameColor}{%
14747 \CustomFBox
14748 {\TF@Title{#2}}{\TF@conlab}%
14749 \fbboxrule\fbboxrule\fbboxrule\fbboxrule
14750 %{\let\current@color\TF@savecolor\set@color #3}%
14751 {\normalcolor #3}%
14752 }\endgroup
14753 }
14754 \renewenvironment{titled-frame}[1]{%
14755 \def\FrameCommand{\fbboxsep8pt\fbboxrule2pt
14756 \TitleBarFrame{\textbf{#1}}}%
14757 \def\FirstFrameCommand{\fbboxsep8pt\fbboxrule2pt
14758 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
14759 \def\MidFrameCommand{\fbboxsep8pt\fbboxrule2pt
14760 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1} (cont)}}%
14761 \def\LastFrameCommand{\fbboxsep8pt\fbboxrule2pt
14762 \TitleBarFrame{\textbf{#1} (cont)}}}%
14763 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
14764 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
14765 % could interfere with the width measurement.
14766 {\endMakeFramed}
14767 \chardef\FrameRestore=\catcode`\| % for debug
14768 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
14769 \def\fb@put@frame#1#2{\relax
14770 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
14771 | \message{===== Entering putframe =====}~J

```



```

14772 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal. }%
14773 \ifinner
14774 \fb@putboxa#1%
14775 \fb@afterframe
14776 \else
14777 \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
14778 \ifdim\dimen@<2\baselineskip % Too little room on page
14779 | \message{Page has only \the\dimen@\space room left; eject. }%
14780 \eject \fb@adjheight \fb@put@frame#1#2%
14781 \else % there's appreciable room left on the page
14782 \fb@sizeofframe#1%
14783 | \message{\string\pagetotal=\the\pagetotal,
14784 | \string\pagegoal=\the\pagegoal,
14785 | \string\pagestretch=\the\pagestretch,
14786 | \string\pageshrink=\the\pageshrink,
14787 | \string\fb@frh=\the\fb@frh. \space}
14788 | \message{^^JBox of size \the\ht@tempboxa\space}%
14789 \begingroup % temporarily set \dimen@ to be...
14790 \advance\dimen@.8\pageshrink % maximum space available on page
14791 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
14792 %% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
14793 \expandafter\endgroup
14794 % expand \ifdim, then restore \dimen@ to real room left on page
14795 \ifdim\dimen@>\ht@tempboxa % whole box does fit
14796 | \message{fits in \the\dimen@. }%
14797 % ToDo: Change this to use vsplit anyway to capture the marks
14798 % MERGE THIS WITH THE else CLAUSE!!!
14799 \fb@putboxa#1%
14800 \fb@afterframe
14801 \else % box must be split
14802 | \message{must be split to fit in \the\dimen@. }%
14803 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
14804 \fb@sizeofframe#2%
14805 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
14806 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
14807 \kern137sp\kern-137sp\penalty-30
14808 \unvbox\@tempboxa}%
14809 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
14810 \splittopskip\the\splittopskip}%
14811 \boxmaxdepth\z@ \splittopskip\z@
14812 | \message{^^JPadded box of size \the\ht@tempboxa\space split to \the\dimen@}%
14813 % Split box here
14814 \setbox\tw@\vsplit\@tempboxa to\dimen@
14815 | \toks99\expandafter{\splitfirstmark}%
14816 | \toks98\expandafter{\splitbotmark}%
14817 | \message{Marks are: \the\toks99, \the\toks98. }%
14818 \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
14819 | \message{Natural height of split box is \the\ht\tw@, leaving
14820 | \the\ht@tempboxa\space remainder. }%
14821 % If the split-to size > (\vsize-\topskip), then set box to full size.
14822 \begingroup
14823 \advance\dimen@\topskip
14824 \expandafter\endgroup
14825 \ifdim\dimen@>\pagegoal

```



```

14826 |         \message{Frame is big -- Use up the full column. }%
14827         \dimen@ii\pagegoal
14828         \advance\dimen@ii -\topskip
14829         \advance\dimen@ii \FrameHeightAdjust\relax
14830     \else % suspect this is implemented incorrectly:
14831         % If the split-to size > feasible room_on_page, rebox it smaller.
14832         \advance\dimen@.8\pageshrink
14833         \ifdim\ht\tw@>\dimen@
14834 |             \message{Box too tall; rebox it to \the\dimen@. }%
14835             \dimen@ii\dimen@
14836         \else % use natural size
14837             \dimen@ii\ht\tw@
14838         \fi
14839     \fi
14840     % Re-box contents to desired size \dimen@ii
14841     \advance\dimen@ii -\fb@frh
14842     \setbox\tw@\vbox to\dimen@ii \bgroup
14843     % remove simulated frame and page flexibility:
14844     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
14845     \unvbox\tw@ \unpenalty\unpenalty
14846     \ifdim\lastkern=-137sp % whole box went to next page
14847 |         \message{box split at beginning! }%
14848         % need work here???
14849         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
14850         \fb@adjheight
14851         \fb@put@frame#1#2% INSERTED ???
14852     \else % Got material split off at the head
14853         \egroup \fb@resto@set
14854         \ifvoid\@tempboxa % it all fit after all
14855 |             \message{box split at end! }%
14856             \setbox\@tempboxa\box\tw@
14857             \fb@putboxa#1%
14858             \fb@afterframe
14859         \else % it really did split
14860 |             \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
14861             \ifdim\wd\tw@>\z@
14862                 \wd\tw@\wd\@tempboxa
14863                 \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
14864             \else
14865 |                 \message{Zero width means likely blank. Don't frame it (guess)}%
14866                 \box\tw@
14867             \fi
14868             \hrule \@height\z@ \@width\hsize
14869             \eject
14870             \fb@adjheight
14871             \fb@put@frame\LastFrameCommand\MidFrameCommand
14872         \fi\fi\fi\fi\fi
14873 }
14874 \def\fb@putboxa#1{%
14875     \ifvoid\@tempboxa
14876         \PackageWarning{framed}{Boxa is void -- discard it. }%
14877     \else
14878 |         \message{Frame and place boxa. }%
14879 |         %{\showoutput\showbox\@tempboxa}%

```



```

14880 \centerline{#1{\hboxL{\box\@tempboxa}}}%
14881 \fi
14882 }
14883 \catcode`\|=\FrameRestore
14884 \def\FrameRestore{%
14885 \let\if@nobreak\iffalse
14886 \let\if@noskipsec\iffalse
14887 \let\-\@dischyph
14888 \let'\@acci\let\`\@accii\let\=\@acciii
14889 % \message{FrameRestore:
14890 % \totalleftmargin=\the \totalleftmargin,
14891 % \rightmargin=\the\rightmargin,
14892 % \listdepth=\the\listdepth. }%
14893 % Test if we are in a list (or list-like paragraph)
14894 \ifnum \ifdim\totalleftmargin>\z@ 1\fi
14895 \ifdim\rightmargin>\z@ 1\fi
14896 \ifnum\listdepth>\z@ 1\fi 0>\z@
14897 % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleftmargin,
14898 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
14899 % \labelwidth=\the\labelwidth. }%
14900 \@setminipage % snug fit around the item
14901 % Now try to propagate changes of width from \hsize to list parameters.
14902 % This is deficient, but a more advanced way to indicate modification to text
14903 % dimensions is not (yet) provided; in particular, no separate left/right
14904 % adjustment.
14905 \advance\linewidth-\columnwidth \advance\linewidth\hsize
14906 \parshape\@ne \totalleftmargin \linewidth
14907 \else % Not in list
14908 \linewidth=\hsize
14909 %\message{No list, set \string\linewidth=\the\hsize. }%
14910 \fi
14911 \sloppy
14912 }

```

99 File `ftnright-xetex-bidi.def`

```

14913 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
14914
14915 \def\prepare@bidi@copyins{%
14916 \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
14917 \global\skip\@bidi@copyins@\z@
14918 \global\count\@bidi@copyins@\z@
14919 \global\dimen\@bidi@copyins@\textheight}
14920
14921 \newskip\bidi@rcol@copyinsskip
14922
14923 \def\LTR@outputdblcol{%
14924 \if@firstcolumn
14925 \global\@firstcolumnfalse
14926 \global\setbox\@leftcolumn\copy\@outputbox
14927 \global\count\footins\@m
14928 \global\skip\footins\rcol@footinsskip
14929 \global\count\@bidi@copyins@\@m
14930 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip

```



```

14931 \splitmaxdepth\maxdimen
14932 \vbadness\maxdimen
14933 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14934 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14935 \toks@\expandafter{\topmark}%
14936 \xdef\@firstcoltopmark{\the\toks@}%
14937 \toks@\expandafter{\splitfirstmark}%
14938 \xdef\@firstcolfirstmark{\the\toks@}%
14939 \ifx\@firstcolfirstmark\@empty
14940 \global\let\@setmarks\relax
14941 \else
14942 \gdef\@setmarks{%
14943 \let\firstmark\@firstcolfirstmark
14944 \let\topmark\@firstcoltopmark}%
14945 \fi
14946 \else
14947 \preparefootins
14948 \prepare@bidi@copyins
14949 \global\@firstcolumntrue
14950 \setbox\@outputbox\vbox{%
14951 \hb@xt@\textwidth{%
14952 \hb@xt@\columnwidth{%
14953 \bidi@firstcolumn@status@write%
14954 \box\@leftcolumn \hss}%
14955 \hfil
14956 {\normalcolor\vrule \@width\columnseprule}%
14957 \hfil
14958 \hb@xt@\columnwidth{%
14959 \bidi@lastcolumn@status@write%
14960 \box\@outputbox \hss}}}%
14961 \@combinedblfloats
14962 \@setmarks
14963 \@outputpage
14964 \begingroup
14965 \@dblfloatplacement
14966 \@startdblcolumn
14967 \@whilesw\if@fcolmade \fi{\@outputpage
14968 \@startdblcolumn}%
14969 \endgroup
14970 \fi}%
14971
14972 \def\RTL@outputdblcol{%
14973 \if@firstcolumn
14974 \global\@firstcolumnfalse
14975 \global\setbox\@leftcolumn\copy\@outputbox
14976 \global\count\footins\@m
14977 \global\skip\footins\rcol@footinsskip
14978 \global\count\@bidi@copyins\@m
14979 \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
14980 \splitmaxdepth\maxdimen
14981 \vbadness\maxdimen
14982 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14983 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14984 \toks@\expandafter{\topmark}%

```




```

14985 \xdef\@firstcoltopmark{\the\toks@}%
14986 \toks@\expandafter{\splitfirstmark}%
14987 \xdef\@firstcolfirstmark{\the\toks@}%
14988 \ifx\@firstcolfirstmark\@empty
14989 \global\let\@setmarks\relax
14990 \else
14991 \gdef\@setmarks{%
14992 \let\firstmark\@firstcolfirstmark
14993 \let\topmark\@firstcoltopmark}%
14994 \fi
14995 \else
14996 \preparefootins
14997 \prepare@bidi@copyins
14998 \global\@firstcolumntrue
14999 \setbox\@outputbox\vbox{%
15000 \hb@xt@\textwidth{%
15001 \hskip \columnwidth
15002 \hfil
15003 {\normalcolor\vrule \@width\columnseprule}%
15004 \hfil
15005 \hb@xt@\columnwidth{%
15006 \bidi@firstcolumn@status@write%
15007 \box\@leftcolumn \hss}%
15008 \hskip -\textwidth
15009 \hb@xt@\columnwidth{%
15010 \bidi@lastcolumn@status@write%
15011 \box\@outputbox \hss}%
15012 \hskip \columnsep
15013 \hskip \columnwidth }}%
15014 \@combinedblfloats
15015 \@setmarks
15016 \@outputpage
15017 \begin@group
15018 \@dblfloatplacement
15019 \@startdblcolumn
15020 \@whiles\if@colmade \fi{\@outputpage
15021 \@startdblcolumn}%
15022 \end@group
15023 \fi}%
15024
15025 \def\@startcolumn{%
15026 \ifx\@deferlist\@empty
15027 \global\@fcolmadefalse
15028 \global\@colroom\@colht
15029 \else
15030 \ifvoid\footins\else
15031 \ftn@amount\ht\footins
15032 \advance\ftn@amount\dp\footins
15033 \advance\ftn@amount\skip\footins
15034 \fi
15035 \ifvoid\@bidi@copyins\else
15036 \bidi@copyins@amount\ht\@bidi@copyins@
15037 \advance\bidi@copyins@amount\dp\@bidi@copyins@
15038 \advance\bidi@copyins@amount\skip\@bidi@copyins@

```



```

15039 \fi
15040 \global\advance\@colht-\ftn@amount
15041 \global\advance\@colht-\bidi@copyins@amount
15042 \global\@colroom\@colht
15043 \xstartcol
15044 \global\advance\@colht\ftn@amount
15045 \global\advance\@colroom\ftn@amount
15046 \global\advance\@colht\bidi@copyins@amount
15047 \global\advance\@colroom\bidi@copyins@amount
15048 \fi
15049 \if@fcolmade
15050 \setbox\@cclv\box\@outputbox
15051 \@makecol
15052 \else
15053 \ifvoid\footins\else
15054 \insert\footins{\unvbox\footins}\fi
15055 \ifvoid\@bidi@copyins@\else
15056 \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
15057 \fi}
15058
15059 \newdimen\bidi@copyins@amount
15060
15061 \def\@makecol{\if@firstcolumn
15062 \setbox\@outputbox\box\@cclv
15063 \if@twocolumn \else
15064 \ifvoid\footins \else
15065 \latexerr{ftnright package
15066 used in one-column mode}%
15067 {The ftnright package was designed to
15068 work with LaTeX's standard^^Jtwocolumn
15069 option. It does *not* work with the
15070 multicol package.^^JSo please specify
15071 `twocolumn' in the
15072 \noexpand\documentclass command.}%
15073 \shipout\box\footins \fi
15074 \ifvoid\@bidi@copyins@ \else
15075 \latexerr{ftnright package
15076 used in one-column mode}%
15077 {The ftnright package was designed to
15078 work with LaTeX's standard^^Jtwocolumn
15079 option. It does *not* work with the
15080 multicol package.^^JSo please specify
15081 `twocolumn' in the
15082 \noexpand\documentclass command.}%
15083 \shipout\box\@bidi@copyins@ \fi\fi
15084 \ifnum\insertpenalties>\z@
15085 \latexerr{ftnright package
15086 scrambled footnotes}%
15087 {There is too much footnote material in
15088 the first column and ftnright^^Jis
15089 unable to cope with this.^^JYou need
15090 to reduce the amount to get a properly
15091 formatted page.}%
15092 \fi

```



```

15093 \else
15094 \ifvoid\footins
15095 \ifvoid\@bidi@copyins@
15096 \setbox\@outputbox\box\@cclv
15097 \else
15098 \setbox\@outputbox\vbox
15099 {\ifvoid\@cclv \else
15100 \unvbox\@cclv
15101 \vskip \skip\@bidi@copyins@
15102 \fi
15103 \color@begingroup
15104 \normalcolor
15105 \unvbox \@bidi@copyins@
15106 \color@endgroup}%
15107 \fi
15108 \else
15109 \setbox\@outputbox\vbox
15110 {\ifvoid\@cclv \else
15111 \unvbox\@cclv
15112 \vskip\skip\footins\fi
15113 \color@begingroup
15114 \normalcolor
15115 \footnoterule\unvbox\footins
15116 \color@endgroup
15117 \ifvoid\@bidi@copyins@
15118 \else
15119 \vskip \skip\@bidi@copyins@
15120 \color@begingroup
15121 \normalcolor
15122 \unvbox \@bidi@copyins@
15123 \color@endgroup
15124 \fi
15125 }%
15126 \fi
15127 \fi
15128 \xdef\@freelist{\@freelist\@midlist}%
15129 \global \let \@midlist \@empty
15130 \@combinefloats
15131 \ifvbox\@kludgeins
15132 \@makespecialcolbox
15133 \else
15134 \setbox\@outputbox\vbox to\@colht
15135 {\boxmaxdepth\maxdepth
15136 \@texttop
15137 \@tempdima\dp\@outputbox
15138 \unvbox\@outputbox
15139 \vskip-\@tempdima
15140 \@textbottom}%
15141 \fi
15142 \global\maxdepth\@maxdepth}
15143
15144 \let\leftfootnoterule\@empty
15145 \let\rightfootnoterule\@empty
15146 \let\textwidthfootnoterule\@empty

```



```

15147 \let\autofootnoterule\@empty
15148 \let\footnoterule\@empty
15149 \long\def\@makefntext#1{\parindent 1em
15150   \noindent\hbox to 2em{}}%
15151   \llap{\@thefnmark\hbox{.}\, \,}#1}
15152
15153 \setlength{\skip\@bidi@copyins@}
15154   {10pt plus 5pt minus 3pt}
15155 \AtBeginDocument{\prepare@bidi@copyins}

```

100 File graphicx-xetex-bidi.def

```

15156 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
15157 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
15158   \Grot@setangle{#1}%
15159   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\endR\fi}%
15160   \Grot@x\z@
15161   \Grot@y\z@
15162   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
15163 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15164   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15165   \Grot@x\width \divide\Grot@x\tw@
15166   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
15167   \setkeys{Grot}{#1}%
15168   \setbox\z@\box@tempboxa
15169   \Grot@setangle{#2}%
15170   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15171   \@end@tempboxa}
15172 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15173   \leavevmode
15174   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15175   \setbox\z@\hbox{#3}%
15176   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15177   \ifdim#2\p@<\z@
15178     \ht\tw@-#2\dp\z@
15179     \dp\tw@-#2\ht\z@
15180   \else
15181     \ht\tw@#2\ht\z@
15182     \dp\tw@#2\dp\z@
15183   \fi
15184   \ifdim#1\p@<\z@
15185     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15186   \else
15187     \wd\tw@#1\wd\z@
15188     \box\tw@
15189   \fi\ifmmode\else\if@RTL\endL\fi\fi}
15190 \def\Gin@iii[#1,#2][#3,#4]#5{%
15191   \begingroup
15192   \ifmmode\else\if@RTL\beginL\fi\fi
15193   \Gin@bboxtrue
15194   \Gin@defaultbp\Gin@llx{#1}%
15195   \Gin@defaultbp\Gin@lly{#2}%
15196   \Gin@defaultbp\Gin@urx{#3}%
15197   \Gin@defaultbp\Gin@ury{#4}%

```



```

15198 \Gininclude@graphics{#5}%
15199 \ifmmode\else\if@RTL\endL\fi\fi
15200 \endgroup}
15201 \def\Gin@ii[#1]#2{%
15202   \def\@tempa{[]}\def\@tempb{#2}%
15203   \ifx\@tempa\@tempb
15204     \def\@tempa{\Gin@iii[#1] []}%
15205     \expandafter\@tempa
15206   \else
15207     \begingroup
15208       \ifmmode\else\if@RTL\beginL\fi\fi
15209       \@tempswafalse
15210       \toks@{\Gininclude@graphics{#2}}%
15211       \setkeys{Gin}{#1}%
15212       \Gin@esetsize
15213       \the\toks@
15214       \ifmmode\else\if@RTL\endL\fi\fi
15215     \endgroup
15216   \fi}
15217 \def\reflectbox{\bidiGscale@box-1[1]}
15218 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
15219   \leavevmode
15220   \def\Gscale@x{#1}\def\Gscale@y{#2}%
15221   \setbox\z@ \hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15222   \setbox\tw@ \hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
15223   \ifdim#2\p@<\z@
15224     \ht\tw@-#2\dp\z@
15225     \dp\tw@-#2\ht\z@
15226   \else
15227     \ht\tw@#2\ht\z@
15228     \dp\tw@#2\dp\z@
15229   \fi
15230   \ifdim#1\p@<\z@
15231     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
15232   \else
15233     \wd\tw@#1\wd\z@
15234     \box\tw@
15235   \fi\ifmmode\else\if@RTL\endL\fi\fi}
15236 \def\scalebox#1{%
15237   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}%
15238 \def\resizebox{%
15239   \leavevmode
15240   \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
15241 \def\bidiGscale@@box#1#2#3{%
15242   \let\@tempa\Gin@exclamation
15243   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
15244   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
15245   \ifx\@tempb\@tempa
15246     \ifx\@tempc\@tempa
15247       \toks@{\mbox}%
15248     \else
15249       \toks@{\bidiGscale@box@dd{#3}#1}%
15250     \fi
15251   \else

```



```

15252 \ifx\@tempc\@tempa
15253 \toks@{\bidiGscale@box@dd{#2}\width}%
15254 \else
15255 \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
15256 \fi
15257 \fi
15258 \the\toks@}
15259 \long\def\bidiGscale@box@dd#1#2#3{%
15260 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\fi}%
15261 \setlength\@tempdima{#1}%
15262 \setlength\@tempdimb{#2}%
15263 \Gscale@div\@tempa\@tempdima\@tempdimb
15264 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
15265 \end@tempboxa}
15266 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%
15267 \begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\fi}%
15268 \setlength\@tempdima{#1}%
15269 \setlength\@tempdimb{#2}%
15270 \Gscale@div\@tempa\@tempdima\@tempdimb
15271 \setlength\@tempdima{#3}%
15272 \setlength\@tempdimb{#4}%
15273 \Gscale@div\@tempb\@tempdima\@tempdimb
15274 \ifGin@iso
15275 \ifdim\@tempa\p@>\@tempb\p@
15276 \let\@tempa\@tempb
15277 \else
15278 \let\@tempb\@tempa
15279 \fi
15280 \fi
15281 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
15282 \end@tempboxa}

```

101 File geometry-xetex-bidi.def

```

15283 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
15284 \renewcommand*{\Gm@vrules@mpi}{%
15285 \if@RTLmain%
15286 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15287 \llap{\Gm@vrule}\ignorespaces
15288 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15289 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
15290 \else%
15291 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15292 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15293 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
15294 \renewcommand*{\Gm@vrules@mpii}{%
15295 \if@RTLmain%
15296 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
15297 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15298 \llap{\Gm@vrule}\hfil\Gm@vrule}%
15299 \else%
15300 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15301 \llap{\Gm@vrule}\ignorespaces
15302 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep

```



```

15303 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
15304 \bidi@patchcmd{\Gm@pageframes}{%
15305     \ifodd\count\z@
15306     \let\@themargin\oddsidemargin
15307     \else
15308     \let\@themargin\evensidemargin
15309     \fi
15310 }{%
15311     \ifodd\count\z@
15312     \if@RTLmain
15313     \let\@themargin\evensidemargin
15314     \else
15315     \let\@themargin\oddsidemargin
15316     \fi
15317     \else
15318     \if@RTLmain
15319     \let\@themargin\oddsidemargin
15320     \else
15321     \let\@themargin\evensidemargin
15322     \fi
15323     \fi
15324 }{}{}

```

102 File hgeneric-testphase-xetex-bidi.def

```

15325 \ProvidesFile{hgeneric-testphase-xetex-bidi.def}[2025/09/22 v0.2 bidi adaptations for gener
15326 \ExplSyntaxOn
15327 \bidi@undef\hyper@linkstart
15328 \bidi@undef\hyper@linkend
15329 \cs_new_protected:Npn \hyper@linkstart #1 #2 %#1 context, #2=destination name
15330 {
15331     \bool_if:NT \l__hyp_annot_GoTo_bool
15332     {
15333         \int_gincr:N\g__hyp_linknestlevel_int
15334         \__hyp_check_link_nesting:TF
15335         {
15336             \Hy@VerboseLinkStart{#1}{#2}% only for debug
15337             \group_begin:
15338             \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15339             \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{ }
15340             \hook_use:n {hyp/link/#1}
15341             \ifmmode\else\beginL\fi
15342             \__hyp_link_goto_begin:nw {#2}
15343         }
15344         {
15345             \group_begin:
15346         }
15347     }
15348 }
15349
15350 \cs_new_protected:Npn \hyper@linkend
15351 {
15352     \bool_if:NT \l__hyp_annot_GoTo_bool
15353     {

```



```

15354     \_hyp_check_link_nesting:TF
15355     {
15356         \_hyp_link_goto_end:
15357         \ifmmode\else\endL\fi
15358         \group_end:
15359         \Hy@VerboseLinkStop
15360     }
15361     {
15362         \group_end:
15363     }
15364     \int_gdecr:N\g__hyp_linknestlevel_int
15365 }
15366 }
15367 \AtBeginDocument{%
15368 \bidi@undef\hyper@link
15369 \bidi@undef\hyper@linkfile
15370 \bidi@undef\hyper@linkurl
15371 \bidi@undef\hyper@linknamed
15372 \cs_new_protected:Npn \hyper@link #1 #2 #3 % #1 context, #2=destination name, #3 content
15373 {
15374     \bool_if:NTF \l__hyp_annot_GoTo_bool
15375     {
15376         \int_gincr:N\g__hyp_linknestlevel_int
15377         \_hyp_check_link_nesting:TF
15378         {
15379             \Hy@VerboseLinkStart{#1}{#2}
15380             \group_begin:
15381             \tl_set:Nn \l_hyp_current_dest_name_tl {#2}
15382             \socket_use:nnn{hyp/link/GoTo/Contents}{#2}{#3}
15383             \hook_use:n {hyp/link/#1}
15384             \ifmmode\else\beginL\fi
15385             \_hyp_link_goto_begin:nw {#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\fi
15386             \_hyp_link_goto_end:
15387             \ifmmode\else\endL\fi
15388             \group_end:
15389             \Hy@VerboseLinkStop
15390         }
15391         {
15392             \group_begin: #3\group_end:
15393         }
15394         \int_gdecr:N\g__hyp_linknestlevel_int
15395     }
15396     {{\let\protect\relax#3}}
15397 }
15398 \cs_new_protected:Npn \hyper@linkfile #1 #2 #3 % link text, filename, destname
15399 {
15400     \bool_if:NTF \l__hyp_annot_GoToR_bool
15401     {
15402         \int_gincr:N\g__hyp_linknestlevel_int
15403         \_hyp_check_link_nesting:TF
15404         {
15405             \group_begin:
15406             \tl_set:Nn \l__hyp_filename_tmpa_tl { \text_expand:n { #2 } }
15407             \exp_args:Nn

```




```

15408 \pdf_object_if_exist:nF { __hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15409 {
15410 \pdfdict_put:nne { l_pdffile/Filespec}{Subtype}{\pdf_name_from_unicode_e:
15411 \pdffile_embed_file:noe
15412 {}
15413 {\l__hyp_filename_tmpa_tl }
15414 {\__hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl }
15415 }
15416 \pdfdict_put:nne
15417 {l_hyp/annot/A/GoToR}
15418 {F}
15419 {\pdf_object_ref:e {\__hyp_file_\tl_to_str:N \l__hyp_filename_tmpa_tl}}
15420 \__hyp_text_pdfstring:nnN
15421 { #3 }
15422 { \l__hyp_text_enc_dest_print_tl }
15423 \l__hyp_dest_name_tmpa_tl
15424 \socket_use:nn{hyp/link/GoToR/Contents}{#2}
15425 \tl_if_blank:eTF {#3}
15426 {
15427 \pdfdict_put:nne {l_hyp/annot/A/GoToR}{D}
15428 {
15429 [
15430 \int_eval:n
15431 { \int_max:nn {0}{ 0\l__hyp_href_pdf_page_tl - 1 }}
15432 /\l__hyp_dest_pdfremotestartview_tl
15433 ]
15434 }
15435 }
15436 {
15437 \pdfdict_put:nno {l_hyp/annot/A/GoToR}{D}{\l__hyp_dest_name_tmpa_tl}
15438 }
15439 \mode_leave_vertical:
15440 \pdf_object_unnamed_write:ne{dict}{\pdfdict_use:n {l_hyp/annot/A/GoToR}}
15441 \pdfannot_dict_put:nne {link/GoToR}{A}{\pdf_object_ref_last:}
15442 \ifmmode\else\beginL\fi
15443 \pdfannot_link:nnn %expansion??
15444 { GoToR }
15445 {
15446 }
15447 {
15448 \let\protect\relax
15449 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace
15450 \Hy@VerboseLinkStop %where is the start??
15451 }
15452 \ifmmode\else\endL\fi
15453 \group_end:
15454 }
15455 {
15456 \group_begin: #1 \group_end:
15457 }
15458 \int_gdecr:N\g__hyp_linknestlevel_int
15459 }
15460 {{\let\protect\relax#1}}
15461 }

```



```

15462 \cs_new_protected:Npn \hyper@linkurl #1 #2 %#1:link text #2: URI,
15463 {
15464   \bool_if:NTF \l__hyp_annot_URI_bool
15465   {
15466     \int_gincr:N\g__hyp_linknestlevel_int
15467     \__hyp_check_link_nesting:TF
15468     {
15469       \group_begin:
15470       \__hyp_text_pdfstring:eoN
15471       { #2}
15472       { \l__hyp_text_enc_uri_print_tl }
15473       \l__hyp_uri_tmpa_tl
15474       \pdfdict_put:nno{l_hyp/annot/A/URI}{URI}{\l__hyp_uri_tmpa_tl}
15475       \bool_if:NT \l__hyp_href_url_ismap_bool
15476       {
15477         \pdfdict_put:nnn{l_hyp/annot/A/URI}{IsMap}{true}
15478       }
15479       \socket_use:nn{hyp/link/URI/Contents}{#2}
15480       \cs_set_eq:NN \# \c_hash_str
15481       \cs_set_eq:NN \% \c_percent_str
15482       \Hy@safe@activestrue
15483       \mode_leave_vertical:
15484       \pdfannot_dict_put:nne {link/URI}{A}{<<\pdfdict_use:n {l_hyp/annot/A/URI}>>}
15485       \ifmmode\else\beginL\fi
15486       \pdfannot_link:nen { URI }
15487       {
15488       }
15489       {
15490         \let\protect\relax
15491         \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi
15492         \Hy@xspace@end
15493         \Hy@VerboseLinkStop %where is the start??
15494       }
15495       \ifmmode\else\endL\fi
15496       \group_end:
15497     }
15498     {
15499       \group_begin: #1 \group_end:
15500     }
15501     \int_gdecr:N\g__hyp_linknestlevel_int
15502   }
15503   {{\let\protect\relax#1}}
15504 }
15505 \RenewDocumentCommand \Acrobatmenu { m m }
15506 {
15507   \hyper@linknamed {#1} {#2}
15508 }
15509 \cs_new_protected:Npn \hyper@linknamed #1 #2 %#1 action, #2 link text
15510 {
15511   \bool_if:NTF \l__hyp_annot_Named_bool
15512   {
15513     \int_gincr:N\g__hyp_linknestlevel_int
15514     \__hyp_check_link_nesting:TF
15515     {

```



```

15516 \group_begin:
15517 \pdfmeta_standard_verify:nnTF {named_actions}{#1}
15518 {
15519 \mode_leave_vertical:
15520 \pdfdict_put:nne {l_hyp/annot/A/Named}{N}
15521 {\pdf_name_from_unicode_e:n{#1}}
15522 \pdfannot_dict_put:nne {link/Named}{A}{<<\pdfdict_use:n {l_hyp/annot/A/Name
15523 \ifmmode\else\beginL\fi
15524 \pdfannot_link:nnn { Named }
15525 {
15526 % /A
15527 % <<
15528 % \pdfdict_use:n { l_hyp/annot/A/Named }
15529 % >>
15530 }
15531 {
15532 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi
15533 \Hy@xspace@end
15534 \Hy@VerboseLinkStop
15535 }
15536 \ifmmode\else\endL\fi
15537 }
15538 {
15539 \msg_warning:nnn { hyp } { pdfa-no-named-action }{#1}
15540 #2
15541 }
15542 \group_end:
15543 }
15544 { \group_begin: #2 \group_end: }
15545 \int_gdecr:N\g__hyp_linknestlevel_int
15546 }
15547 {\let\protect\relax#2}}
15548 }
15549 }
15550 \ExplSyntaxOff

```

103 File hvfloat-xetex-bidi.def

```

15551 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package]
15552 \def\do@hvFloat[#1]#2#3{%
15553 \def\hv@shortCap{#1}
15554 \def\hv@longCap{#2}
15555 \def\hv@label{#3}
15556 %\newcommand*{\hvFloat}[5][ ]{%
15557 % [#1]: keyvalues
15558 % #2: type figure | table | ...
15559 % #3: float contents
15560 % [#4]: short caption
15561 % #5: caption
15562 % #6: label
15563 % \setDefault%
15564 % \def\@tempa{#1}%
15565 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
15566 \def\@tempa{90}%

```



```

15567 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
15568 \else \setlength{\hvMaxCapWidth}{\linewidth}
15569 \fi
15570 %
15571 % First we save the object in \hvObjectBox
15572 %
15573 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
15574 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
15575 \else
15576 \savebox{\hvObjectBox}{%
15577 \rotatebox{\hvSet@objectAngle}{%
15578 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
15579 \fi
15580 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
15581 %
15582 % Now we save the caption with its defined \hvCapWidth
15583 %
15584 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
15585 \else
15586 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
15587 \else
15588 \setlength{\hvCapWidth}{\hvObjectWidth}
15589 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15590 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15591 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
15592 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
15593 \else
15594 \setlength{\hvCapWidth}{\hvMaxCapWidth}
15595 \fi
15596 \fi
15597 \fi
15598 %
15599 % now we have the object and the caption with the right
15600 % rotated angles saved in boxes
15601 %
15602 \def\fps@figure{\hvSet@floatPos}
15603 \ifhv@nonFloat\begin{group}% Start the nonfloat part
15604 \else \begin{\hv@floatType}% Start the floating environment
15605 \fi%
15606 \saveCaptionSkip% we put this space ourselves
15607 \ifx\hvSet@capAngle\hv@Width % need rotation?
15608 \sbox{\hvCaptionBox}{%
15609 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15610 \ifhv@nonFloat%
15611 \ifhv@onlyText#2%
15612 \else%
15613 \ifx\hv@floatType\hv@figure
15614 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15615 \else
15616 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15617 \fi
15618 \fi
15619 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15620 \fi%

```



```

15621 \label{#3}%
15622 \end{minipage}%
15623 }%
15624 \else%
15625 \sbox{\hvCaptionBox}{%
15626 \rotatebox{\hvSet@capAngle}{%
15627 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15628 \ifhv@nonFloat%
15629 \ifhv@onlyText#2%
15630 \else%
15631 \ifx\hv@floatType\hv@figure
15632 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15633 \else
15634 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15635 \fi
15636 \fi
15637 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15638 \fi%
15639 \label{#3}%
15640 \end{minipage}%
15641 }%
15642 }%
15643 \fi%
15644 %%
15645 \restoreCaptionSkip% save old values
15646 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
15647 \else%
15648 \ifx\hvSet@objectPos\hv@Center
15649 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
15650 \fi%
15651 \fi%
15652 %
15653 % to rotate object and caption together, we save all in another box
15654 % the caption comes first, if its on the left or the top
15655 %
15656 \savebox{\@tempboxa}{%
15657 \ifx\hvSet@capPos\hv@Left % caption on left side
15658 \if@RTL%
15659 \ifx\hvSet@capVPos\hv@Center%
15660 \ifhv@fbox
15661 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15662 \else
15663 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15664 \fi%
15665 \hspace{\hvSet@floatCapSep pt}%
15666 \ifhv@fbox
15667 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15668 \else
15669 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15670 \fi%
15671 \else%
15672 \ifx\hvSet@capVPos\hv@Top
15673 \ifhv@fbox
15674 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%

```



```

15675         \else
15676         \raisebox{-\height}{\usebox{\hvObjectBox}}%
15677         \fi%
15678         \hspace{\hvSet@floatCapSep pt}%
15679         \ifhv@fbox
15680         \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15681         \else
15682         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15683         \fi
15684     \else
15685     \ifhv@fbox
15686     \fbox{\usebox{\hvObjectBox}}%
15687     \else
15688     \usebox{\hvObjectBox}%
15689     \fi
15690     \hspace{\hvSet@floatCapSep pt}%
15691     \ifhv@fbox
15692     \fbox{\usebox{\hvCaptionBox}}%
15693     \else
15694     \usebox{\hvCaptionBox}%
15695     \fi%
15696 \fi%
15697 \fi%
15698 \else% not RTL
15699     \ifx\hvSet@capVPos\hv@Center%
15700     \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15701     \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15702     \fi%
15703     \hspace{\hvSet@floatCapSep pt}% capfloatsep
15704     \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15705     \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15706     \fi%
15707 \else%
15708     \ifx\hvSet@capVPos\hv@Top % caption at top
15709     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15710     \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15711     \fi
15712     \hspace{\hvSet@floatCapSep pt}% capfloatsep
15713     \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15714     \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%
15715     \fi%
15716 \else% caption on bottom
15717     \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
15718     \else\usebox{\hvCaptionBox}
15719     \fi%
15720     \hspace{\hvSet@floatCapSep pt}%
15721     \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
15722     \else     \usebox{\hvObjectBox}
15723     \fi%
15724 \fi%
15725 \fi% end of RTL
15726 \fi%
15727 \else
15728     \ifx\hvSet@capPos\hv@Top

```



```

15729 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15730 \begin{minipage}{\wd\hvCaptionBox}
15731 \else
15732 \begin{minipage}{\wd\hvObjectBox}
15733 \fi
15734 \centering
15735 \ifhv@fbox
15736 \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
15737 \fbox{\usebox{\hvObjectBox}}
15738 \else
15739 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
15740 \usebox{\hvObjectBox}
15741 \fi%
15742 \end{minipage}
15743 \else
15744 \ifx\hvSet@capPos\hv@Bottom
15745 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15746 \begin{minipage}{\wd\hvCaptionBox}
15747 \else
15748 \begin{minipage}{\wd\hvObjectBox}
15749 \fi
15750 \centering
15751 \ifhv@fbox
15752 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
15753 \fbox{\usebox{\hvCaptionBox}}
15754 \else
15755 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
15756 \usebox{\hvCaptionBox}
15757 \fi%
15758 \end{minipage}
15759 \else% the last option: put the caption on the right
15760 \if@RTL%
15761 \ifx\hvSet@capVPos\hv@Center%
15762 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15763 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15764 \fi%
15765 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15766 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15767 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15768 \fi%
15769 \else%
15770 \ifx\hvSet@capVPos\hv@Top % caption at top
15771 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15772 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15773 \fi
15774 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15775 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15776 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
15777 \fi%
15778 \else% caption on bottom
15779 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
15780 \else\usebox{\hvCaptionBox}
15781 \fi%
15782 \hspace{\hvSet@floatCapSep pt}%

```



```

15783     \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15784     \else      \usebox{\hvObjectBox}
15785     \fi%
15786     \fi%
15787     \fi%
15788 \else% not RTL
15789     \ifx\hvSet@capVPos\hv@Center%
15790     \ifhv@fbox
15791     \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15792     \else
15793     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15794     \fi%
15795     \hspace{\hvSet@floatCapSep pt}%
15796     \ifhv@fbox
15797     \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15798     \else
15799     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15800     \fi%
15801 \else%
15802     \ifx\hvSet@capVPos\hv@Top
15803     \ifhv@fbox
15804     \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15805     \else
15806     \raisebox{-\height}{\usebox{\hvObjectBox}}%
15807     \fi%
15808     \hspace{\hvSet@floatCapSep pt}%
15809     \ifhv@fbox
15810     \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15811     \else
15812     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15813     \fi
15814     \else
15815     \ifhv@fbox
15816     \fbbox{\usebox{\hvObjectBox}}%
15817     \else
15818     \usebox{\hvObjectBox}%
15819     \fi
15820     \hspace{\hvSet@floatCapSep pt}%
15821     \ifhv@fbox
15822     \fbbox{\usebox{\hvCaptionBox}}%
15823     \else
15824     \usebox{\hvCaptionBox}%
15825     \fi%
15826     \fi%
15827     \fi
15828 \fi% end of RTL
15829     \fi
15830     \fi
15831     \fi
15832 }% End savebox Object and caption
15833 %
15834 % now we rotate the object and caption, if needed
15835 %
15836 \ifx\hvSet@rotAngle\hv@Zero

```




```

15837 \usebox{\@tempboxa}
15838 \else
15839 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
15840 \fi
15841 \ifhv@nonFloat
15842 \ifx\hvSet@objectPos\hv@Center
15843 \ifhv@nonFloat
15844 \hspace{\fill}
15845 \fi
15846 \fi
15847 \endgroup% End the nonfloat part
15848 \else
15849 \end{\hv@floatType}% End the floating environment
15850 \fi
15851 }

```

104 File hyperref-xetex-bidi.def

```

15852 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
15853 \AtBeginDocument{%
15854 \def\contentsline#1#2#3#4{%
15855 \ifx\\#4\\%
15856 \csname l@#1\endcsname{#2}{#3}%
15857 \else
15858 \ifcase\Hy@linktoc % none
15859 \csname l@#1\endcsname{#2}{#3}%
15860 \or % section
15861 \csname l@#1\endcsname{%
15862 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15863 }{#3}%
15864 \or % page
15865 \csname l@#1\endcsname{{#2}}{%
15866 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15867 }%
15868 \else % all
15869 \csname l@#1\endcsname{%
15870 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15871 }{%
15872 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15873 }%
15874 \fi
15875 \fi
15876 }
15877 \ifHy@hyperfootnotes
15878 \let\H@footnotetext\@footnotetext
15879 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
15880 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
15881 \def\@xfootnotenext[#1]{%
15882 \begingroup
15883 \csname c@#1\endcsname #1\relax
15884 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15885 \endgroup
15886 \ifx\@footnotetext\@mpfootnotetext
15887 \expandafter\H@mpfootnotetext

```



```

15888 \else
15889 \expandafter\H@@footnotetext
15890 \fi
15891 }%
15892 \def\@xRTLfootnotenext[#1]{%
15893 \begingroup
15894 \csname c@\@mpfn\endcsname #1\relax
15895 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15896 \endgroup
15897 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
15898 \expandafter\HRTL@\@mpRTLfootnotetext
15899 \else
15900 \expandafter\HRTL@\@RTLfootnotetext
15901 \fi
15902 }%
15903 \def\@xLTRfootnotenext[#1]{%
15904 \begingroup
15905 \csname c@\@mpfn\endcsname #1\relax
15906 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15907 \endgroup
15908 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
15909 \expandafter\HLTR@\@mpLTRfootnotetext
15910 \else
15911 \expandafter\HLTR@\@LTRfootnotetext
15912 \fi
15913 }%
15914 \def\@xfootnotemark[#1]{%
15915 \begingroup
15916 \c@footnote #1\relax
15917 \unrestored@protected@xdef\@thefnmark{\thefootnote}%
15918 \endgroup
15919 \H@@footnotemark
15920 }%
15921 \let\H@@mpfootnotetext\@mpfootnotetext
15922 \let\HRTL@\@mpRTLfootnotetext\@mpRTLfootnotetext
15923 \let\HLTR@\@mpLTRfootnotetext\@mpLTRfootnotetext
15924 \long\def\@mpfootnotetext#1{%
15925 \H@@mpfootnotetext{%
15926 \ifHy@nesting
15927 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15928 \else
15929 \Hy@raisedlink{%
15930 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15931 }#1%
15932 \fi
15933 }%
15934 }%
15935 \long\def\@mpRTLfootnotetext#1{%
15936 \HRTL@\@mpRTLfootnotetext{%
15937 \ifHy@nesting
15938 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15939 \else
15940 \Hy@raisedlink{%
15941 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%

```



```

15942         }#1%
15943     \fi
15944 }%
15945 }%
15946 \long\def\@mpLTRfootnotetext#1{%
15947 \HLTR@mpLTRfootnotetext{%
15948     \ifHy@nesting
15949         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15950     \else
15951         \Hy@raisedlink{%
15952             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15953         }#1%
15954     \fi
15955 }%
15956 }%
15957 \long\def\@footnotetext#1{%
15958 \H@@footnotetext{%
15959     \ifHy@nesting
15960         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15961     \else
15962         \Hy@raisedlink{%
15963             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15964         }%
15965         \let\@currentHlabel\Hy@footnote@currentHlabel
15966         \let\@currentHref\Hy@footnote@currentHref
15967         \let\@currentlabelname\@empty
15968         #1%
15969     \fi
15970 }%
15971 }%
15972 \long\def\@RTLfootnotetext#1{%
15973 \HRTL@RTLfootnotetext{%
15974     \ifHy@nesting
15975         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15976     \else
15977         \Hy@raisedlink{%
15978             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15979         }%
15980         \let\@currentHlabel\Hy@footnote@currentHlabel
15981         \let\@currentHref\Hy@footnote@currentHref
15982         \let\@currentlabelname\@empty
15983         #1%
15984     \fi
15985 }%
15986 }%
15987 \long\def\@LTRfootnotetext#1{%
15988 \HLTR@LTRfootnotetext{%
15989     \ifHy@nesting
15990         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15991     \else
15992         \Hy@raisedlink{%
15993             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15994         }%
15995         \let\@currentHlabel\Hy@footnote@currentHlabel

```



```

15996         \let\@currentHref\Hy@footnote@currentHref
15997         \let\@currentlabelname\@empty
15998         #1%
15999     \fi
16000 }%
16001 }%
16002 \ApplyPatchCodeToPackage{tabularx}{%
16003 \let\HyOrg@TX@endtabularx\TX@endtabularx
16004 \def\Hy@tabularx@hook{%
16005     \let\@footnotetext\H@@footnotetext
16006     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
16007     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
16008     \let\@footnotemark\H@@footnotemark
16009     \let\@mpfootnotetext\H@@mpfootnotetext
16010     \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
16011     \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
16012 }%
16013 \begingroup
16014     \toks@{\expandafter{\TX@endtabularx}}%
16015     \xdef\Hy@gtemp{%
16016         \noexpand\Hy@tabularx@hook
16017         \the\toks@
16018     }%
16019 \endgroup
16020 \let\TX@endtabularx\Hy@gtemp
16021 }%
16022 \ApplyPatchCodeToPackage{longtable}{%
16023 \CheckCommand{\LT@p@LTRftntext}[1]{%
16024     \edef\@tempa{%
16025         \the\LT@p@ftn
16026         \noexpand\LTRfootnotetext[\the\c@footnote]}%
16027     }%
16028     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16029 }%
16030 \long\def\LT@p@LTRftntext#1{%
16031     \edef\@tempa{%
16032         \the\LT@p@ftn
16033         \begingroup
16034             \noexpand\c@footnote=\the\c@footnote\relax
16035             \noexpand\protected\xdef\noexpand\@thefnmark{%
16036                 \noexpand\thempfn
16037             }%
16038             \noexpand\Hy@LT@LTRfootnotetext{%
16039                 \Hy@footnote@currentHref
16040             }%
16041         }%
16042         \global\LT@p@ftn\expandafter{%
16043             \@tempa{#1}%
16044         \endgroup
16045     }%
16046 }%
16047 \long\def\Hy@LT@LTRfootnotetext#1#2{%
16048     \HLTR@@LTRfootnotetext{%
16049         \ifHy@nesting

```



```

16050         \hyper@@anchor{#1}{#2}%
16051     \else
16052         \Hy@raisedlink{%
16053             \hyper@@anchor{#1}{\relax}%
16054         }%
16055         \def\@currentHref{#1}%
16056         \let\@currentlabelname\@empty
16057         #2%
16058     \fi
16059 }%
16060 }%
16061 \CheckCommand{\LT@p@RTLftntext}[1]{%
16062     \edef\@tempa{%
16063         \the\LT@p@ftn
16064         \noexpand\RTLfootnotetext[\the\c@footnote]%
16065     }%
16066     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
16067 }%
16068 \long\def\LT@p@RTLftntext#1{%
16069     \edef\@tempa{%
16070         \the\LT@p@ftn
16071         \begingroup
16072             \noexpand\c@footnote=\the\c@footnote\relax
16073             \noexpand\protected@xdef\noexpand\@thefnmark{%
16074                 \noexpand\thempfn
16075             }%
16076             \noexpand\Hy@LT@RTLfootnotetext{%
16077                 \Hy@footnote@currentHref
16078             }%
16079         }%
16080         \global\LT@p@ftn\expandafter{%
16081             \@tempa{#1}%
16082         \endgroup
16083     }%
16084 }%
16085 \long\def\Hy@LT@RTLfootnotetext#1#2{%
16086     \HRTL@@RTLfootnotetext{%
16087         \ifHy@nesting
16088             \hyper@@anchor{#1}{#2}%
16089         \else
16090             \Hy@raisedlink{%
16091                 \hyper@@anchor{#1}{\relax}%
16092             }%
16093             \def\@currentHref{#1}%
16094             \let\@currentlabelname\@empty
16095             #2%
16096         \fi
16097     }%
16098 }%
16099 }%
16100 \ApplyPatchCodeToPackage{bidipoem}{%
16101 \long\def\bidipoem@p@ftntext#1{%
16102     \edef\@tempx{%
16103         \the\bidipoem@p@ftn

```



```

16104     \begingroup
16105         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16106         \noexpand\protected@xdef\noexpand\@thefnmark{%
16107             \noexpand\thempfn
16108         }%
16109         \noexpand\Hy@bidipoem@footnotetext{%
16110             \Hy@footnote@currentHref
16111         }%
16112     }%
16113     \global\bidipoem@p@ftn\expandafter{%
16114         \@tempxi{#1}%
16115     \endgroup
16116 }%
16117 }%
16118 \long\def\Hy@bidipoem@footnotetext#1#2{%
16119     \H@@footnotetext{%
16120         \ifHy@nesting
16121             \hyper@@anchor{#1}{#2}%
16122         \else
16123             \Hy@raisedlink{%
16124                 \hyper@@anchor{#1}{\relax}%
16125             }%
16126             \def\@currentHref{#1}%
16127             \let\@currentlabelname\@empty
16128             #2%
16129         \fi
16130     }%
16131 }%
16132 \long\def\bidipoem@p@LTRftntext#1{%
16133 \edef\@tempxi{%
16134     \the\bidipoem@p@ftn
16135     \begingroup
16136         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16137         \noexpand\protected@xdef\noexpand\@thefnmark{%
16138             \noexpand\thempfn
16139         }%
16140         \noexpand\Hy@bidipoem@LTRfootnotetext{%
16141             \Hy@footnote@currentHref
16142         }%
16143     }%
16144     \global\bidipoem@p@ftn\expandafter{%
16145         \@tempxi{#1}%
16146     \endgroup
16147 }%
16148 }%
16149 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
16150     \HLTR@@LTRfootnotetext{%
16151         \ifHy@nesting
16152             \hyper@@anchor{#1}{#2}%
16153         \else
16154             \Hy@raisedlink{%
16155                 \hyper@@anchor{#1}{\relax}%
16156             }%
16157             \def\@currentHref{#1}%

```



```

16158         \let\@currentlabelname\@empty
16159         #2%
16160     \fi
16161 }%
16162 }%
16163     \long\def\bidipoem@p@RTLftntext#1{%
16164     \edef\@tempxiif{%
16165     \the\bidipoem@p@ftn
16166     \begingroup
16167     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
16168     \noexpand\protected@xdef\noexpand\@thefnmark{%
16169     \noexpand\thempfn
16170     }%
16171     \noexpand\Hy@bidipoem@RTLfootnotetext{%
16172     \Hy@footnote@currentHref
16173     }%
16174     }%
16175     \global\bidipoem@p@ftn\expandafter{%
16176     \@tempxiif{#1}%
16177     \endgroup
16178     }%
16179 }%
16180 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
16181     \HRTL@RTLfootnotetext{%
16182     \ifHy@nesting
16183     \hyper@@anchor{#1}{#2}%
16184     \else
16185     \Hy@raisedlink{%
16186     \hyper@@anchor{#1}{\relax}%
16187     }%
16188     \def\@currentHref{#1}%
16189     \let\@currentlabelname\@empty
16190     #2%
16191     \fi
16192     }%
16193 }%
16194 }%
16195 \let\HyOrg@maketitle\maketitle
16196 \def\maketitle{%
16197     \let\Hy@saved@footnotemark\@footnotemark
16198     \let\Hy@saved@footnotetext\@footnotetext
16199     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
16200     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
16201     \let\@footnotemark\H@@footnotemark
16202     \let\@footnotetext\H@@footnotetext
16203     \let\@RTLfootnotetext\HRTL@RTLfootnotetext
16204     \let\@LTRfootnotetext\HLTR@LTRfootnotetext
16205     \@ifnextchar[\Hy@maketitle@optarg{%
16206     \HyOrg@maketitle
16207     \Hy@maketitle@end
16208     }%
16209 }%
16210 \def\Hy@maketitle@optarg[#1]{%
16211     \HyOrg@maketitle[{#1}]%

```



```

16212 \Hy@maketitle@end
16213 }%
16214 \def\Hy@maketitle@end{%
16215 \ifx\@footnotemark\H@@footnotemark
16216 \let\@footnotemark\Hy@saved@footnotemark
16217 \fi
16218 \ifx\@footnotetext\H@@footnotetext
16219 \let\@footnotetext\Hy@saved@footnotetext
16220 \fi
16221 \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
16222 \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
16223 \fi
16224 \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
16225 \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
16226 \fi
16227 }%
16228 \def\realfootnote{%
16229 \@ifnextchar[\@xfootnote{%
16230 \stepcounter{\@mpfn}%
16231 \protected@xdef\@thefnmark{\thempfn}%
16232 \H@@footnotemark\H@@footnotetext
16233 }%
16234 }%
16235 \fi
16236 \def\Hy@BeginAnnot#1{%
16237 \ifmmode\else\beginL\fi%
16238 \global\advance\c@Hy@AnnotLevel\@ne
16239 \ifnum\c@Hy@AnnotLevel=\@ne
16240 #1%
16241 \fi
16242 }
16243 \def\Hy@EndAnnot{%
16244 \ifnum\c@Hy@AnnotLevel=\@ne
16245 \Hy@endcolorlink
16246 \@pdfm@mark{eann}%
16247 \fi
16248 \global\advance\c@Hy@AnnotLevel\m@ne
16249 \ifmmode\else\endL\fi%
16250 }
16251 \def\hyper@link#1#2#3{%
16252 \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi%
16253 }
16254 \def\hyper@linkfile#1#2#3{%
16255 \leavevmode
16256 \Hy@BeginAnnot{%
16257 \def\Hy@pstringF{#2}%
16258 \Hy@CleanupFile\Hy@pstringF
16259 \Hy@pstringdef\Hy@pstringF\Hy@pstringF
16260 \Hy@pstringdef\Hy@pstringD{#3}%
16261 \Hy@MakeRemoteAction
16262 \@pdfm@mark{%
16263 bann<<%
16264 /Type/Annot%
16265 /Subtype/Link%

```




```

16266 \ifHy@pdfa /F 4\fi
16267 \Hy@setpdfborder
16268 \ifx\@filebordercolor\relax
16269 \else
16270 /C[\@filebordercolor]%
16271 \fi
16272 /A<<%
16273 /S/GoToR%
16274 /F(\Hy@pstringF)%
16275 /D%
16276 \ifx\#3\%
16277 [\Hy@href@page\@pdfremotestartview]%
16278 \else
16279 (\Hy@pstringD)%
16280 \fi
16281 \Hy@SetNewWindow
16282 \Hy@href@nextactionraw
16283 >>%
16284 >>%
16285 }%
16286 \Hy@colorlink\@filecolor
16287 }%
16288 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16289 \Hy@EndAnnot
16290 }
16291 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
16292 \leavevmode
16293 \Hy@BeginAnnot{%
16294 \Hy@pstringdef\Hy@pstringF{#1}%
16295 \Hy@pstringdef\Hy@pstringP{#3}%
16296 \@pdfm@mark{%
16297 bann<<%
16298 /Type/Annot%
16299 /Subtype/Link%
16300 \ifHy@pdfa /F 4\fi
16301 \Hy@setpdfborder
16302 \ifx\@runbordercolor\relax
16303 \else
16304 /C[\@runbordercolor]%
16305 \fi
16306 /A<<%
16307 /F(\Hy@pstringF)%
16308 /S/Launch%
16309 \Hy@SetNewWindow
16310 \ifx\#3\%
16311 \else
16312 /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
16313 \fi
16314 \Hy@href@nextactionraw
16315 >>%
16316 >>%
16317 }%
16318 \Hy@colorlink\@runcolor
16319 }%

```



```

16320 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16321 \Hy@endAnnot
16322 }
16323 \def\hyper@linkurl#1#2{%
16324 \leavevmode
16325 \Hy@BeginAnnot{%
16326 \Hy@pstringdef\Hy@pstringURI{#2}%
16327 \@pdfm@mark{%
16328 bann<<%
16329 /Type/Annot%
16330 /Subtype/Link%
16331 \ifHy@pdfa /F 4\fi
16332 \Hy@setpdfborder
16333 \ifx\@urlbordercolor\relax
16334 \else
16335 /C[\@urlbordercolor]%
16336 \fi
16337 /A<<%
16338 /S/URI%
16339 /URI(\Hy@pstringURI)%
16340 \ifHy@href@ismap
16341 /IsMap true%
16342 \fi
16343 \Hy@href@nextactionraw
16344 >>%
16345 >>%
16346 }%
16347 \Hy@colorlink\@urlcolor
16348 }%
16349 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16350 \Hy@endAnnot
16351 }
16352 \def\Acrobatmenu#1#2{%
16353 \Hy@Acrobatmenu{#1}{#2}{%
16354 \Hy@BeginAnnot{%
16355 \EdefEscapeName\Hy@temp@menu{#1}%
16356 \@pdfm@mark{%
16357 bann<<%
16358 /Type/Annot%
16359 /Subtype/Link%
16360 \ifHy@pdfa /F 4\fi
16361 \Hy@setpdfborder
16362 \ifx\@menubordercolor\relax
16363 \else
16364 /C[\@menubordercolor]%
16365 \fi
16366 /A<<%
16367 /S/Named%
16368 /N/\Hy@temp@menu
16369 \Hy@href@nextactionraw
16370 >>%
16371 >>%
16372 }%
16373 \Hy@colorlink\@menucolor

```



```

16374 }%
16375 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
16376 \Hy@endAnnot
16377 }%
16378 }
16379 \def\hyper@natlinkstart#1{%
16380 \Hy@backout{#1}%
16381 \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
16382 \def\hyper@nat@current{#1}%
16383 }
16384 \def\hyper@natlinkend{%
16385 \if@RTL\endR\fi\hyper@linkend
16386 }
16387 \def\hyper@natlinkbreak#1#2{%
16388 \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
16389 }%
16390 }
16391 \pdfstringdefDisableCommands{%
16392 \let\LRE\@firstofone
16393 \let\LR\@firstofone
16394 \let\RLE\@firstofone
16395 \let\RL\@firstofone
16396 \def\XeTeX{Xe\TeX}%
16397 \def\XeLaTeX{Xe\LaTeX}%
16398 }
16399 \bidi@patchcmd\@TextField{%
16400 \@pdfm@mark
16401 }{%
16402 \if@RTL
16403 \hskip\Fld@width
16404 \fi
16405 \@pdfm@mark
16406 }{}{}
16407 \bidi@patchcmd\@TextField{%
16408 \unhbox
16409 }{%
16410 \if@RTL
16411 \hskip-\Fld@width
16412 \fi
16413 \unhbox
16414 }{}{}
16415 \bidi@patchcmd\@@Radio{%
16416 \@pdfm@mark
16417 }{%
16418 \if@RTL
16419 \hskip\Fld@width
16420 \fi
16421 \@pdfm@mark
16422 }{}{}
16423 \bidi@patchcmd\@@Radio{%
16424 \unhcopy
16425 }{%
16426 \if@RTL
16427 \hskip-\Fld@width

```



```

16428 \fi
16429 \unhcopy
16430 }-{}-{}
16431 \bidi@patchcmd\@Submit{%
16432 \@pdfm@mark
16433 }-{}-%
16434 \if@RTL
16435 \null
16436 \hskip\wd\pdfm@box
16437 \fi
16438 \@pdfm@mark
16439 }-{}-{}
16440 \bidi@patchcmd\@Submit{%
16441 \unhbox
16442 }-{}-%
16443 \if@RTL
16444 \hskip-\wd\pdfm@box
16445 \fi
16446 \unhbox
16447 }-{}-{}
16448 \bidi@patchcmd\@Reset{%
16449 \@pdfm@mark
16450 }-{}-%
16451 \if@RTL
16452 \null
16453 \hskip\wd\pdfm@box
16454 \fi
16455 \@pdfm@mark
16456 }-{}-{}
16457 \bidi@patchcmd\@Reset{%
16458 \unhbox
16459 }-{}-%
16460 \if@RTL
16461 \hskip-\wd\pdfm@box
16462 \fi
16463 \unhbox
16464 }-{}-{}

```

105 File `imsproc-xetex-bidi.def`

```

16465 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspoc class fo
16466 \newenvironment{thebibliography}[1]{%
16467 \@bibtitlestyle
16468 \normalfont\bibliofont\labelsep .5em\relax
16469 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
16470 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16471 \bidi@thebibliography@font@hook
16472 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
16473 \leftmargin\labelwidth \advance\leftmargin\labelsep
16474 \usecounter{enumiv}}%
16475 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
16476 \sfcode`\.=\@m
16477 }-{}-%
16478 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%

```



```

16479 \endlist
16480 }
16481
16482 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
16483 \columnseprule\z@ \columnsep 35\p@
16484 \@indextitlestyle
16485 \thispagestyle{plain}%
16486 \let\item\idxitem
16487 \parindent\z@ \parskip\z@\@plus.3\p@\relax
16488 \ifRTL\raggedleft\else\raggedright\fi
16489 \hyphenpenalty\@M
16490 \footnotesize}
16491 \def\@idxitem{\par\hangindent \ifRTL-\fi2em}
16492 \def\subitem{\par\hangindent \ifRTL-\fi2em\hspace*{1em}}
16493 \def\subsubitem{\par\hangindent \ifRTL-\fi3em\hspace*{2em}}
16494
16495 \def\right@footnoterule{%
16496 \kern-.4\p@
16497 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
16498 \kern11\p@\kern-\footnotesep}
16499 \def\left@footnoterule{\kern-.4\p@
16500 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
16501 \def\@makefnmark{%
16502 \leavevmode
16503 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}%
16504 }
16505
16506 \def\part{\@startsection{part}{0}%
16507 \z@\{\linespacing\@plus\linespacing\}{.5\linespacing}%
16508 {\normalfont\bfseries\ifRTL\raggedleft\else\raggedright\fi}}
16509 \def\@tocline#1#2#3#4#5#6#7{\relax
16510 \ifnum #1>\c@tocdepth % then omit
16511 \else
16512 \par \addpenalty\@secpenalty\addvspace{#2}%
16513 \begingroup \hyphenpenalty\@M
16514 \@ifempty{#4}{%
16515 \@tempdima\csname r@tocindent\number#1\endcsname\relax
16516 }{%
16517 \@tempdima#4\relax
16518 }%
16519 \parindent\z@ \ifRTL\righskip\else\leftskip\fi#3\relax \advance\ifRTL\righskip\else
16520 \ifRTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
16521 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
16522 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16523 \nobreak
16524 \endgroup
16525 \fi}
16526 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
16527 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
16528 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
16529 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
16530 \def\maketitle{\par
16531 \@topnum\z@ % this prevents figures from falling at the top of page 1
16532 \@setcopyright

```



```

16533 \thispagestyle{firstpage}% this sets first page specifications
16534 \uppercasenonmath\shorttitle
16535 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
16536 \else \andify\shortauthors
16537 \fi
16538 \@maketitle@hook
16539 \begingroup
16540 \@maketitle
16541 \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
16542 \toks4{\def\\{\ignorespaces}}% defend against questionable usage
16543 \edef\@tempa{%
16544   \@nx\markboth{\the\toks4
16545     \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
16546 \@tempa
16547 \endgroup
16548 \c@footnote\z@
16549 \cleartopmattertags
16550 }

```

106 File leqno-xetex-bidi.def

```

16551 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
16552 \renewcommand\@eqnnum{\hb@xt@.01\p@}%
16553 \rlap{\hskip -\displaywidth
16554   {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR}}

```

107 File letter-xetex-bidi.def

```

16555 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
16556 \renewcommand*\@opening[1]{\ifx\@empty\fromaddress
16557   \thispagestyle{firstpage}%
16558   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
16559 \else % home address
16560   \thispagestyle{empty}%
16561   {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
16562     \fromaddress \*[2\parskip]%
16563     \@date \end{tabular}\par}%
16564 \fi
16565 \vspace{2\parskip}%
16566 {\if@RTL\raggedleft\else\raggedright\fi \toname \\\toaddress \par}%
16567 \vspace{2\parskip}%
16568 #1\par\nobreak}
16569 \renewcommand\left@footnoterule{%
16570   \kern-\p@
16571   \hrule \@width .4\columnwidth
16572   \kern .6\p@}
16573 \renewcommand\right@footnoterule{%
16574   \kern-\p@
16575   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16576   \kern .6\p@}

```

108 File lettrine-xetex-bidi.def

```

16577 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]

```



```

16578 \RemoveFromHook{begindocument}[lettrine]
16579 \AtBeginDocument[lettrine]{%
16580   \if\DefaultOptionsFile\relax
16581   \else
16582     \InputIfFileExists{\DefaultOptionsFile}%
16583     {%
16584       {\PackageWarning{lettrine.sty}%
16585         {File \DefaultOptionsFile\space not found}%
16586       }%
16587     \fi
16588   \let\ifL@RTL\if@RTL
16589 }

```

109 File lineno-xetex-bidi.def

```

16590 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package fo
16591 \bidi@patchcmd{\MakeLineNo}{%
16592   \hb@xt@\z@{\makeLineNumber}%
16593 }{%
16594   \hboxL to \z@{\makeLineNumber}%
16595 }{}{}
16596
16597 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
16598   \if@RTL
16599     \hb@xt@\linenumberwidth{\LineNumber\hss}%
16600   \else
16601     \LineNumber
16602   \fi
16603 }{}{}
16604
16605 \bidi@patchcmd{\makeLineNumberRight}{%
16606   \hb@xt@\linenumberwidth{\hss\LineNumber}%
16607 }{%
16608   \if@RTL
16609     \LineNumber
16610   \else
16611     \hb@xt@\linenumberwidth{\hss\LineNumber}%
16612   \fi
16613 }{}{}
16614
16615 \bidi@AfterPreamble{%
16616   \if@RTLmain
16617     \rightlinenumbers*
16618   \else
16619     \leftlinenumbers*
16620   \fi
16621   \@ifpackagewith{lineno}{left}{%
16622     \leftlinenumbers*
16623   }{}
16624   \@ifpackagewith{lineno}{right}{%
16625     \rightlinenumbers*
16626   }{}
16627   \@ifpackagewith{lineno}{switch}{%
16628     \if@RTLmain

```



```

16629     \switchlinenumbers*%
16630   \else
16631     \switchlinenumbers
16632   \fi
16633 }{}
16634 \@ifpackagewith{lineno}{switch*}{%
16635   \if@RTLmain
16636     \switchlinenumbers
16637   \else
16638     \switchlinenumbers*%
16639   \fi
16640 }{}
16641 }
16642

```

110 File listings-xetex-bidi.def

```

16643 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
16644 \lst@Key{captiondirection}{textdirection}{%
16645   \lstKV@SwitchCases{#1}%
16646   {textdirection:\\%
16647     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
16648     LTR:\chardef\bidi@lst@caption@direction\z@%
16649   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16650
16651 \lst@Key{captionscript}{textscript}{%
16652   \lstKV@SwitchCases{#1}%
16653   {textscript:\\%
16654     latin:\chardef\bidi@lst@caption@script\@ne\\%
16655     nonlatin:\chardef\bidi@lst@caption@script\z@%
16656   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16657
16658 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
16659   \@ifundefined{bidi@lst@caption@direction}{}{%
16660     \ifnum\bidi@lst@caption@direction=\z@%
16661       #1%
16662     \else%
16663       \ifnum\bidi@lst@caption@direction=\@ne%
16664         #2%
16665       \fi%
16666     \fi%
16667   }}
16668
16669 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
16670   \@ifundefined{bidi@lst@caption@script}{}{%
16671     \ifnum\bidi@lst@caption@script=\z@%
16672       #1%
16673     \else%
16674       \ifnum\bidi@lst@caption@script=\@ne%
16675         #2%
16676       \fi%
16677     \fi%
16678   }}
16679

```




```

16680 \long\def\@bidi@lst@makecaption#1#2{%
16681   \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16682   \vskip\abovecaptionskip
16683   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16684   \sbox\@tempboxa{%
16685     \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
16686     #1: #2%
16687     \bidi@lst@ensure@caption@direction{\endL}{\endR}%
16688   }%
16689   \ifdim \wd\@tempboxa >\hsize
16690     #1: #2\par
16691   \else
16692     \global \@minipagefalse
16693     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16694   \fi
16695   \vskip\belowcaptionskip}%
16696 \def\lst@makecaption{\@bidi@lst@makecaption}
16697 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
16698 \bidi@AtEndPreamble{%
16699 \bidi@patchcmd{\lst@MakeCaption}{%
16700   \ifx #1t%
16701     \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16702       \expandafter\refstepcounter
16703     \fi {lstlisting}%
16704 }{%
16705   \ifx #1t%
16706     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16707     \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16708       \expandafter\refstepcounter
16709     \fi {lstlisting}%
16710     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
16711 }-{}-%
16712 \bidi@patchcmd{\lst@MakeCaption}{%
16713   \addcontentsline{lol}{lstlisting}%
16714   {\protect\numberline{\thelstlisting}\lst@@caption}%
16715 }-{}-%
16716 \begingroup%
16717   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16718   \addcontentsline{lol}{lstlisting}%
16719   {\protect\numberline{\thelstlisting}\lst@@caption}%
16720 \endgroup%
16721 }-{}-%
16722 }
16723 \ApplyPatchIfPackageLoaded{caption}{%
16724   \AtBeginCaption{%
16725     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16726     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16727   }
16728   \let\@bidi@lst@makecaption\caption@makecaption%
16729   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
16730   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
16731 }-{}-%
16732 \AtBeginDocument{%
16733 \@ifundefined{captionlabelfalse}{}{}%

```



```

16734 \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
16735 \@ifundefined{caption@startrue}{-}{%
16736 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
16737 }%
16738 }
16739 \AtBeginDocument{
16740 \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{-}
16741 \lst@ifnumberbychapter
16742 \gdef\thelstlisting%
16743 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
16744 \else
16745 \gdef\thelstlisting{\@arabic\c@lstlisting}
16746 \fi}

```

111 File longtable-xetex-bidi.def

```

16747 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable pack
16748 \ExplSyntaxOn
16749 \def\LT@array[#1]#2{%
16750 \UseTaggingSocket{tbl/init}
16751 \tl_if_empty:eTF { \LTcapttype }
16752 {
16753 \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
16754 }
16755 {
16756 \@kernel@refstepcounter{\LTcapttype}\stepcounter{LT@tables}
16757 \tl_gset:Ne \@currentHref {\LTcapttype.\cs_if_exist_use:c {theH\LTcapttype}}
16758 }
16759 \tbl_gzero_row_count:
16760 \UseTaggingSocket{tbl/longtable/init}
16761 \if l#1%
16762 \if RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
16763 \else\if r#1%
16764 \if RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
16765 \else\if c#1%
16766 \LTleft\fill \LTright\fill
16767 \fi\fi\fi
16768 \let\LT@mc@l\multicolumn
16769 \let\LT@@tabarray\@tabarray
16770 \let\LT@@hl\hline
16771 \def\@tabarray{%
16772 \let\hline\LT@@hl
16773 \LT@@tabarray}%
16774 \let\LT@tabularcr
16775 \let\tabularnewline\%
16776 \def\newpage{\noalign{\break}}%
16777 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
16778 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
16779 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
16780 \@tempdima\ht\strutbox
16781 \let\@endpbox\LT@endpbox
16782 \ifx\extrarowheight\undefined
16783 \let\@acol\@tabacol
16784 \let\@classz\@tabclassz \let\@classiv\@tabclassiv

```



```

16785 \def\@startpbox{\vtop\LT@startpbox}%
16786 \let\@@startpbox\@startpbox
16787 \let\@@endpbox\@endpbox
16788 \let\LT@LL@FM@cr\@tabularcr
16789 \else
16790 \advance\@tempdima\extrarowheight
16791 \col@sep\@tabcolsep
16792 \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
16793 \fi
16794 \setbox\@arstrutbox\hbox{\vrule
16795 \@height \arraystretch \@tempdima
16796 \@depth \arraystretch \dp \strutbox
16797 \@width \z@}%
16798 \let\@sharp#\let\protect\relax
16799 \begingroup
16800 \mkpream{#2}%
16801 \tbl_count_table_cols:
16802 \xdef\LT@bchunk{%
16803 \tbl_inbetween_rows:
16804 \global\advance\c@LT@chunks\@ne
16805 \global\LT@rows\z@\setbox\z@\vbox\bgroup
16806 \LT@setprevdepth
16807 \tabskip\LTleft \noexpand\halign to\hsize\bgroup
16808 \tabskip\z@ \@arstrut
16809 \UseTaggingSocket{tbl/row/begin}%
16810 \tbl_init_cell_data_for_row:
16811 \@preamble \tabskip\LTright \cr}%
16812 \endgroup
16813 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
16814 \LT@make@row
16815 \m@th\let\par\@empty
16816 \everycr{%
16817 \noalign{%
16818 \tbl_trace:n {--longtable-->~chunk~row:~ \the\LT@rows \space
16819 row:~ \the\g__tbl_row_int \space
16820 column:~ \the\g__tbl_col_int
16821 }
16822 \tbl_if_row_was_started:T
16823 {
16824 \UseTaggingSocket{tbl/row/end}
16825 \tbl_inbetween_rows:
16826 }
16827 \int_compare:nNnT \LT@rows < \LTchunksize
16828 { \tbl_gincr_row_count: } % next is row about to start
16829 }%
16830 }%
16831 \lineskip\z@\baselineskip\z@
16832 \LT@bchunk}
16833 \ExplSyntaxOff
16834 \def\LT@makecaption#1#2#3{%
16835 \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
16836 \reset@font
16837 \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
16838 \ifdim\wd\@tempboxa>\hsize

```



```

16839      #1{#2: }#3%
16840      \else
16841        \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
16842      \fi
16843      \endgraf\vskip\baselineskip}%
16844    \hss}}
16845 \ApplyPatchCodeToPackage{caption}{%
16846   \renewcommand\LT@makecaption[3]{%
16847     \caption@LT@make{%
16848       \caption@LT@settype\LTcapttype
16849       \caption@LT@setup
16850       \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
16851       \caption@startrue#1\caption@starfalse
16852       \caption@prepare@stepcounter\LTcapttype
16853       \caption@begin\LTcapttype
16854       \caption@normalsize
16855       \vskip-\ht\strutbox
16856       \caption@ifdefined\FBifcapttop{%
16857         \let\caption@belowskip\@empty}{}%
16858       \caption@make@above
16859       \caption@@make{#2}{#3}\endgraf
16860       \caption@make@below
16861     \caption@end}}}%
16862 }
16863 \def\LT@startpbox#1{%
16864   \bgroup
16865   \color@begingroup
16866   \let\@footnotetext\LT@p@ftntext
16867   \let\@LTRfootnotetext\LT@p@LTRftntext
16868   \let\@RTLfootnotetext\LT@p@RTLftntext
16869   \setlength\hsize{#1}%
16870   \@arrayparboxrestore
16871   \everypar{%
16872     \vrule \@height \ht\@arstrutbox \@width \z@
16873     \everypar{}}}%
16874   }
16875 \long\def\LT@p@LTRftntext#1{%
16876   \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]]}%
16877   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16878 \long\def\LT@p@RTLftntext#1{%
16879   \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]]}%
16880   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16881 \def\LT@output{%
16882   \ifnum\outputpenalty <-\@Mi
16883     \ifnum\outputpenalty > -\LT@end@pen
16884       \LT@err{floats and marginpars not allowed in a longtable}\@ehc
16885     \else
16886       \setbox\z@\vbox{\unvbox\@cclv}%
16887       \ifdim \ht\LT@lastfoot>\ht\LT@foot
16888         \dimen@\pagegoal
16889         \advance\dimen@\ht\LT@foot
16890         \advance\dimen@-\ht\LT@lastfoot
16891         \ifdim\dimen@<\ht\z@
16892           \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%

```



```

16893         \@makecol
16894         \@outputpage
16895         \global\size\@colroom
16896         \setbox\z@\vbox{\box\LT@head}%
16897     \fi
16898 \fi
16899     \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16900         \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
16901         \UseTaggingSocket{tbl/longtable/foot}
16902     \if@RTLtab\egroup\endR\egroup\fi
16903 \fi
16904 \else
16905     \setbox\@cclv\vbox{%
16906         \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
16907         \unvbox\@cclv\copy\LT@foot\vss
16908         \if@RTLtab\egroup\endR\egroup\fi
16909     }%
16910     \UseTaggingSocket{tbl/longtable/foot}
16911     \@makecol
16912     \@outputpage
16913     \global\size\@colroom
16914     \copy\LT@head\nobreak
16915 \fi}

```

112 File `lscope-xetex-bidi.def`

```

16916 \ProvidesFile{lscope-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscope package fo
16917 \RequirePackage{graphicx}
16918 \bidi@patchcmd{\LS@rot}{\rotatebox{90}}{\box\@outputbox}}{%
16919     \if@RTL
16920         \rotatebox[origin=br]{-90}{\box\@outputbox}%
16921     \else
16922         \rotatebox{90}{\box\@outputbox}%
16923     \fi
16924 }{}{}
16925
16926 \g@addto@macro{\landscape}{%
16927     \if@bidi@csdef{bidi@columnwidth}{%
16928         \bidi@columnwidth\columnwidth
16929     }{}%
16930     \let\bidi@left@footnoterule\left@footnoterule
16931     \let\bidi@right@footnoterule\right@footnoterule
16932     \def\left@footnoterule{%
16933         \if@RTL
16934             \bidi@right@footnoterule
16935         \else
16936             \bidi@left@footnoterule
16937         \fi
16938     }%
16939     \def\right@footnoterule{%
16940         \if@RTL
16941             \bidi@left@footnoterule
16942         \else
16943             \bidi@right@footnoterule

```



```

16944 \fi
16945 }%
16946 }

```

113 File mathtools-xetex-bidi.def

```

16947 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools pack
16948 \RequirePackage{graphicx}
16949 \MHInternalSyntaxOn
16950 \def\MT_define_tagform:nwnn #1[#2]#3#4{
16951 \namedef{MT_tagform_#1:n}##1
16952 {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@ \ignorespaces#2{##1}\unskip\@italiccorr#4
16953 }
16954 \renewtagform{default}{\{ }\}}
16955 \MHInternalSyntaxOff

```

114 File mdframed-xetex-bidi.def

```

16956 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed packag
16957 \newif\if@bidi@mdf@RTL
16958 \def\mdf@lrbox#1{%
16959 \mdf@patchamsthm\patch amsthm
16960 \if@RTL\@bidi@mdf@RTLtrue\fi%
16961 \@RTLfalse%
16962 \setbox#1\vbox\bgroup%
16963 \color@begingroup%
16964 \if@bidi@mdf@RTL\@RTLtrue\fi%
16965 \mdf@horizontalmargin@equation%
16966 \columnwidth=\hsize%
16967 \textwidth=\hsize%
16968 \let\if@nobreak\iffalse%
16969 \let\if@noskipsec\iffalse%
16970 \let\par\@par%
16971 \let\-\@dischyp%
16972 \let'\@acci\let'\@accii\let\=\@acciii%
16973 \parindent\z@ \parskip\z@skip%
16974 \linewidth\hsize%
16975 \@totalleftmargin\z@%
16976 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
16977 \parfillskip\@flushglue \lineskip\normallineskip%
16978 \baselineskip\normalbaselineskip%
16979 %% \sloppy%
16980 \let\\\@normalcr%
16981 \mdf@par@local%New feature to restore parskip/parindent local in save box
16982 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
16983 \@afterindentfalse%
16984 %\@afterheading%
16985 }
16986 \renewrobustcmd\mdfframedtitleenv[1]{%
16987 \mdf@lrbox{\mdf@frametitlebox}%
16988 \mdf@frametitlealignment%
16989 \leavevmode{\color{\mdf@frametitlefontcolor}%
16990 \normalfont\mdf@frametitlefont{#1}
16991 \ifbool{mdf@ignorelastdescenders}%

```



```

16992      {%
16993      \par\strut\par
16994      \unskip\unskip\setbox0=\lastbox
16995      \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
16996      }{}}%
16997      \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
16998      \endmdf@lrbox\relax%
16999      \mdf@ignorevbadness%
17000      \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
17001      \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
17002      \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
17003      \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
17004      \mdfframetitleboxtotalheight=\dimexpr
17005          \ht\mdf@frametitlebox
17006          +\dp\mdf@frametitlebox%
17007          +\mdf@frametitleaboveskip@length
17008          +\mdf@frametitlebelowskip@length
17009          \relax%
17010  }
17011
17012  \renewrobustcmd*\mdf@footnoteoutput{%
17013      \ifvoid\@mpfootins\else%
17014          \nobreak%
17015          \vskip\mdf@footnotedistance@length%
17016          \normalcolor%
17017          \bidi@mpfootnoterule%
17018          \unvbox\@mpfootins%
17019      \fi%
17020  }
17021
17022
17023  \renewrobustcmd*\mdf@footnoteinput{%
17024      \def\@mpfn{mpfootnote}%
17025      \def\thempfn{\thempfootnote}%
17026      \c@mpfootnote\z@%
17027      \let\@footnotetext\@mpfootnotetext%
17028      \let\@LTRfootnotetext\@mpLTRfootnotetext%
17029      \let\@RTLfootnotetext\@mpRTLfootnotetext%
17030  }

```

115 File media9-xetex-bidi.def

```

17031 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package fo
17032 \RequirePackage{bidi-media9}

```

116 File bidi-media9.sty

```

17033 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
17034 {bidi fixes for media9 package for the XeTeX engine}
17035
17036 \keys_define:nn{media9/mbtn}{
17037     draft .code:n = {},
17038     final .code:n = {},
17039

```



```

17040 tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
17041 tooltip .value_required:n = {true},
17042
17043 overface .code:n = {
17044   \sbox\l_mix_poster_box{
17045     \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17046     \mix_pdfxform:n{\l_mix_poster_box}
17047     \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
17048   },
17049 overface .value_required:n = {true},
17050
17051 downface .code:n = {
17052   \sbox\l_mix_poster_box{
17053     \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
17054     \mix_pdfxform:n{\l_mix_poster_box}
17055     \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
17056   },
17057 downface .value_required:n = {true},
17058
17059 3Dgotoview .code:n = {
17060   \tl_set:Nx\l_tmpa_tl{#1} %extract ref
17061   \regex_replace_once:nnN{([^\:]+):??.*}{\1}\l_tmpa_tl
17062   \tl_trim_spaces:N\l_tmpa_tl
17063   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17064     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17065       \tl_set:Nx\l_tmpb_tl{#1} %extract idx
17066       \regex_replace_once:nnN{[^\:]+:??}{\1}\l_tmpb_tl
17067       \tl_trim_spaces:N\l_tmpb_tl
17068       \tl_if_blank:VF\l_tmpb_tl{
17069         \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
17070           \tl_set:Nx\l_mix_vidx_tl{/}\l_tmpb_tl}
17071       }{
17072         \regex_match:nVTF{^~\d+}$}\l_tmpb_tl{
17073           \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl}
17074       }{
17075         \regex_replace_once:nnN{^~(\s*)}{\1}\l_tmpb_tl
17076         \regex_replace_once:nnN{(\s*)$}{\1}\l_tmpb_tl
17077         \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl}
17078       }
17079     }
17080   }
17081   \mix_pdfobj:nnn{}{dict}{
17082     /S/JavaScript/JS~(
17083       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17084       if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17085         annotRM['\l_tmpa_tl']=
17086           this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17087       }
17088       annotRM['\l_tmpa_tl'].activated=true;
17089     )
17090   \tl_if_blank:VF\l_tmpb_tl{
17091     /Next~<<
17092     /S/GoTo3DView
17093     /TA~\tl_use:c{ann@\l_tmpa_tl}

```




```

17094         /V\l_mix_vidx_tl
17095     >>
17096     }
17097 }
17098 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17099 }
17100 }{
17101     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
17102     \cs_if_exist:NF\g_mix_refundefwarned_tl{
17103         \tl_new:N\g_mix_refundefwarned_tl
17104         \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17105     }
17106 }
17107 },
17108 3Dgotoview .value_required:n = {true},
17109
17110 mediacommand .code:n = {
17111     \tl_set:Nx\l_tmpa_tl{#1}
17112     \regex_replace_once:nnN{([^\:]+):??.*}{\1}\l_tmpa_tl %extract ref
17113     \tl_trim_spaces:N\l_tmpa_tl
17114     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17115         \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17116             \tl_set:Nx\l_tmpb_tl{#1}
17117             \regex_replace_once:nnN{([^\:]+\:?.*)}{\1}\l_tmpb_tl
17118             \tl_trim_spaces:N\l_tmpb_tl
17119             \regex_replace_all:nnN{^{\|}{\|}$}{\1}\l_tmpb_tl
17120             \tl_set:Nx\l_mix_cmd_tl{
17121                 \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
17122             \tl_trim_spaces:N\l_mix_cmd_tl
17123             \tl_set:Nx\l_mix_arg_tl{
17124                 \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
17125             \tl_trim_spaces:N\l_mix_arg_tl
17126             \mix_pdfobj:nnn{}{dict}{
17127                 /S/JavaScript/JS~(
17128                     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17129                     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17130                         annotRM['\l_tmpa_tl']=
17131                             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17132                     }
17133                     annotRM['\l_tmpa_tl'].activated=true;
17134                 )
17135             \tl_if_blank:VF\l_mix_cmd_tl{
17136                 /Next~<<
17137                 /S/RichMediaExecute
17138                 /TA~\tl_use:c{ann@\l_tmpa_tl}
17139                 /TI~\tl_use:c{main@\l_tmpa_tl}
17140                 /CMD~<<
17141                 /C~(\l_mix_cmd_tl)
17142                 \tl_if_blank:VF\l_mix_arg_tl{
17143                     /A~[\l_mix_arg_tl]
17144                 }
17145             >>
17146             >>
17147         }

```



```

17148     }
17149     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17150   }
17151   }{
17152     \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17153     \cs_if_exist:NF\g_mix_refundefwarned_tl{
17154       \tl_new:N\g_mix_refundefwarned_tl
17155       \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17156     }
17157   }
17158 },
17159 mediacommand .value_required:n = {true},
17160
17161 jsaction .code:n = {
17162   \tl_set:Nx\l_tmpa_tl{#1}
17163   \regex_match:nVTF{^[^[:]+:.*$}\l_tmpa_tl{
17164     \regex_replace_once:nnN{([[:]]+):??.*}{\1}\l_tmpa_tl %extract ref
17165     \tl_trim_spaces:N\l_tmpa_tl
17166   }{\tl_clear:N\l_tmpa_tl}
17167   \tl_set:Nx\l_tmpb_tl{#1}
17168   \tl_if_blank:VF\l_tmpa_tl{
17169     \tl_if_exist:cF{ann@\l_tmpa_tl}{
17170       \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17171       \cs_if_exist:NF\g_mix_refundefwarned_tl{
17172         \tl_new:N\g_mix_refundefwarned_tl
17173         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17174       }
17175     }
17176     \regex_replace_once:nnN{[[:]]+[:]}{\1}\l_tmpb_tl
17177   }
17178   \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
17179   \tl_trim_spaces:N\l_tmpb_tl
17180   \tl_if_blank:VF\l_tmpb_tl{
17181     \mix_pdfobj:nnn{}{dict}{
17182       /S/JavaScript/JS~(
17183         try{\l_tmpb_tl}catch(e){console.show();console.println(e)}))}
17184   \bool_lazy_and:nnT{
17185     \tl_if_exist_p:c{ann@\l_tmpa_tl}
17186   }{
17187     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17188   }{
17189     \mix_pdfobj:nnn{}{dict}{
17190       /S/JavaScript/JS~(
17191         if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
17192         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17193           annotRM['\l_tmpa_tl']=
17194             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17195         }
17196         annotRM['\l_tmpa_tl'].activated=true;
17197       )
17198       \tl_if_blank:VF\l_tmpb_tl{Next~\mix_pdflastobj:}
17199     }
17200   }
17201   \bool_if:nT{

```



```

17202     \bool_lazy_and_p:nn{
17203       \tl_if_exist_p:c{ann@l_tmpa_tl}
17204     }{
17205       !\str_if_eq_p:ee{\tl_use:c{ann@l_tmpa_tl}}{draft}
17206     }
17207     || !\tl_if_blank_p:V\l_tmpb_tl
17208   }{
17209     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17210   }
17211 },
17212 jsaction .value_required:n = {true},
17213
17214 unknown .code:n = {
17215   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
17216 }
17217 }
17218
17219 \RenewDocumentCommand\includemedia{0{}mm}{%#1 options, #2 text/image #3 media file
17220   \mix_uriend:
17221   \group_begin:
17222   \mix_beginLTR:
17223   \mode_leave_vertical:
17224   %empty stream as appearance dummy
17225   \cs_if_exist:NF\g_mix_appearance_tl{
17226     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
17227     \mix_pdfxform:n{\l_mix_poster_box}
17228     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
17229   }
17230   \mix_reset:
17231   \mix_uribegin: %treat URI characters correctly
17232   \keys_set:nn{media9/user}{#1}
17233   \mix_uriend:
17234   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
17235   \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
17236   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
17237   \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
17238   \tl_gtrim_spaces:N\g_mix_flashvars_tl
17239
17240   \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
17241
17242   %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
17243   %\hbox_set:Nn\l_mix_poster_box{#2}
17244   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17245   \mix_scale:n{\l_mix_poster_box}
17246   \bool_if:nT{
17247     \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
17248     \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
17249   }{
17250     \tl_gset:Nn\g_mix_usrpbtn_tl{none}
17251   }
17252   \bool_if:NTF\g_mix_usrdraft_bool{
17253     \tl_if_empty:NF\g_mix_usrlabel_tl{
17254       \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
17255     }

```



```

17256 \tl_if_blank:oTF{#2}{
17257   \mix_uribegin: %treat URI characters correctly
17258   \mix_draftbox:n{\tl_to_str:n{#3}}
17259   \mix_uriend:
17260 }{
17261   \hbox_to_wd:nn{\g_mix_wd_tl}{
17262     \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
17263     \box_use:N\l_mix_poster_box\hss
17264   }
17265 }
17266 }{
17267   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
17268     %attach script that switches off play button overlay upon activation
17269     \mix_pdfobj:nnn{}{stream}{
17270       {}{
17271         var~ocgs=host.getOCGs(host.pageNum);
17272         for(var~i=0;i<ocgs.length;i++){
17273           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17274             ocgs[i].state=false;
17275           }
17276         }
17277       }
17278     }
17279     \mix_pdfobj:nnn{}{dict}{
17280       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
17281     }
17282     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
17283     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
17284     %enforce plain playbutton overlay for XeTeX
17285     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
17286   }
17287   %embed main asset
17288   \mix_uribegin:
17289   \mix_embedasset:n{#3}
17290   \bool_if:nTF{
17291     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
17292   }{
17293     \bool_gset_true:N\g_mix_iiid_bool
17294     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
17295   }{
17296     \str_case_e:nnF{\l_mix_base_tl}{
17297       {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17298       {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17299       {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17300       {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17301       {StrobeMediaPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17302     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
17303   }
17304   \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
17305   \mix_uriend:
17306   %secondary assets (added by addresource)
17307   \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
17308   \seq_map_inline:Nn\g_mix_script_seq{
17309     \mix_embedasset:n{##1}

```



```

17310     \tl_put_right:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl}
17311 }
17312 %attach 3D calculation script
17313 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
17314     \mix_embedasset:n{3Dmenu.js}
17315     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
17316 }
17317 %create 3D views from file (option 3Dviews)
17318 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
17319     \tl_set:Nn\l_mix_level_tl{-1}
17320     \int_zero:N\l_mix_viewcnt_int
17321     \int_zero:N\l_mix_lineno_int
17322
17323     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
17324     \ior_map_inline:Nn\l_mix_vfile_stream{
17325         \int_incr:N\l_mix_lineno_int
17326         \keys_set:nn{media9/views}{##1} %process input line
17327     }
17328     \ior_close:N\l_mix_vfile_stream
17329 }
17330 \bool_if:nT{ %create default 3D view if required
17331     \g_mix_iiid_bool &&
17332     (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
17333 }{
17334     \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
17335     \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
17336     \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
17337     \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
17338     \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
17339     \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
17340     \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
17341
17342     \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
17343     \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
17344     \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
17345     \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
17346
17347     \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
17348     \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
17349     \tl_clear:N\l_mix_naarray_tl
17350
17351     \bool_if:NF\l_mix_ciiw_bool{
17352         \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
17353         \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
17354     }
17355
17356     \tl_clear:N\l_mix_naarray_tl
17357     \tl_clear:N\l_mix_saarray_tl
17358     \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdfmt_tl
17359
17360     \mix_view:n{Default}
17361     \tl_set:Nx\l_mix_dfltvview_tl{\mix_pdflastobj:}
17362
17363 }

```



```

17364 \mix_pdfobj:nnn{}{dict}{
17365   /Type/RichMediaInstance
17366   /Subtype/\g_mix_mainassetsub_tl
17367   /Asset~\g_mix_mainasset_tl
17368   \bool_if:NF\g_mix_iiid_bool{
17369     /Params~<<
17370     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
17371       /Foreground
17372     }{
17373       /Background
17374     }
17375     \tl_if_blank:VF\g_mix_flashvars_tl{
17376       /FlashVars~(\g_mix_flashvars_tl)
17377     }
17378     >>
17379   }
17380 }
17381 \tl_if_empty:NF\g_mix_usrlabel_tl{
17382   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
17383 }
17384 \mix_pdfobj:nnn{}{dict}{
17385   /Type/RichMediaConfiguration
17386   /Subtype/\g_mix_mainassetsub_tl
17387   /Instances~[\mix_pdflastobj:]
17388 }
17389 \mix_pdfobj:nnn{}{dict}{
17390   /Type/RichMediaContent
17391   /Assets~<</Names~[\g_mix_assets_tl]>>
17392   /Configurations~[\mix_pdflastobj:]
17393   \bool_if:N{
17394     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
17395   }{
17396     /Views~[\l_mix_iiidviewarray_tl]
17397   }
17398 }
17399 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
17400 \bool_if:N{
17401   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
17402 }{
17403   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
17404 }
17405 %determine floating window size
17406 \bool_if:NT\g_mix_opt_windowed_bool{
17407   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
17408 }
17409 \mix_pdfobj:nnn{}{dict}{
17410   /Activation~<<
17411   /Condition\g_mix_act_tl
17412   \bool_if:N{
17413     \g_mix_iiid_bool &&
17414     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
17415   }{%seems to work only with 3D content
17416     /Animation~<<
17417     /Subtype/\g_mix_playtpe_tl

```



```

17418         /PlayCount~\g_mix_playcnt_tl
17419         /Speed~\g_mix_playspd_tl
17420     >>
17421 }
17422 \bool_if:nT{
17423     \g_mix_iiid_bool && (
17424         \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
17425     )
17426 }{/View~\l_mix_dfltview_tl}
17427 /Presentation~<<
17428     /Transparent~\g_mix_transp_tl
17429     \bool_if:NTF\g_mix_opt_windowed_bool{
17430         /Style/Windowed
17431         /Window~<<
17432             /Width~<</Default~\tl_mix_fltd>>
17433             /Height~<</Default~\tl_mix_fltht>>
17434             /Position~<<
17435                 /HOffset~0/VOffset~0
17436                 \str_case_e:nnF{\g_mix_winpos_tl}{
17437                     {tl}{/VAlign/Near/HAlign/Near}
17438                     {cl}{/VAlign/Center/HAlign/Near}
17439                     {bl}{/VAlign/Far/HAlign/Near}
17440                     {bc}{/VAlign/Far/HAlign/Center}
17441                     {br}{/VAlign/Far/HAlign/Far}
17442                     {cr}{/VAlign/Center/HAlign/Far}
17443                     {tr}{/VAlign/Near/HAlign/Far}
17444                     {tc}{/VAlign/Near/HAlign/Center}
17445                 }{/HAlign/Center/VAlign/Center}
17446             >>
17447         >>
17448     }{
17449         /Style/Embedded
17450     }
17451     \bool_if:NTF\g_mix_iiid_bool{
17452         /Toolbar~\g_mix_tools_tl
17453         /NavigationPane~\g_mix_nav_tl
17454     }{
17455         /PassContextClick~\g_mix_contextclick_tl
17456     }
17457 >>
17458     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
17459 >>
17460 /Deactivation~<</Condition\g_mix_deact_tl>>
17461 }
17462 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
17463 \tl_if_empty:NF\g_mix_usrlabel_tl{
17464     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
17465 }
17466 % #1:width, #2:height, #3:depth, #4:content (key-value)
17467 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
17468     /Subtype/RichMedia
17469     /F~4
17470     /BS~<</W~0/S/S>>
17471     /Contents~(media-embedded-by-media9~[\g_mix_version_tl~(\g_mix_date_tl)])

```



```

17472 /NM~(\g_mix_label_tl)
17473 /AP~<</N~\g_mix_appearance_tl>>
17474 /RichMediaSettings~\l_mix_settings_tl
17475 /RichMediaContent~\l_mix_content_tl
17476 }
17477 \tl_if_empty:NF\g_mix_usrlabel_tl{
17478   \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
17479   \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
17480     \noexpand\the\g@mix@page@int}
17481 }
17482 \mix_pdfobj:nnn{}{dict}{
17483   /S/JavaScript/JS~(
17484     try{
17485       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17486       if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
17487         annotRM['\g_mix_label_tl']=
17488           this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
17489       }
17490       \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
17491         if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
17492           var~ocgs=this.getOCGs(this.pageNum);
17493           for(var~i=0;i<ocgs.length;i++){
17494             if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
17495               var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
17496             }
17497           }
17498         }
17499         if(
17500           !annotRM['\g_mix_label_tl'].activated&&(
17501             app.viewerType=='Reader' ||
17502             app.viewerType=='Exchange' ||
17503             app.viewerType=='Exchange-Pro'
17504           )&&app.viewerVersion>=9
17505         ){
17506           ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
17507         }
17508       }
17509     }catch(e){}
17510     this.dirty=false;
17511   )
17512 }
17513 \mix_pdfannot:nnnn{0pt}{0pt}{0pt}{
17514   /Subtype/Widget
17515   /FT/Btn/Ff~65537/F~2
17516   /BS~<</W~0>>
17517   /T~(fd@\g_mix_label_tl)
17518   /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
17519 }
17520 \mix_appendtofields:n{\mix_pdflastann:}
17521 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
17522 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
17523   \hbox_to_wd:nn{\g_mix_wd_tl}{
17524     \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
17525   }

```




```

17526 }{%insert play button overlay
17527 \mix_insert_btnocg: %create OCG
17528 \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@g_mix_usrpbtn_tl @tl}
17529 \group_begin:
17530 \cs_if_exist:NT\textdir{\textdir TLT}
17531 \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
17532 \box_move_down:nn{\g_mix_dp_tl}{
17533 \hbox_to_wd:nn{\g_mix_wd_tl}{
17534 \vbox_to_ht:nn{\g_mix_tt_tl}{
17535 \vss
17536 \ocgbase_oc_bdc:nf{\g_mix_btnocg_tl}
17537 \box_use:N\l_mix_pbtn_box
17538 \ocgbase_oc_emc:
17539 }
17540 }
17541 }
17542 \group_end:
17543 }
17544 \int_gincr:N\g_mix_rmcnt_int
17545 }
17546 \mix_endLTR:
17547 \group_end:
17548 }
17549 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
17550 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
17551
17552 \RenewDocumentCommand\mediabutton{0{}m}{%#1 options, #2 normal button text
17553 \mix_uribend:
17554 \group_begin:
17555 \mix_beginLTR:
17556 \mode_leave_vertical:
17557 %reset various variables
17558 \tl_gclear:N\g_mix_overbtn_tl
17559 \tl_gclear:N\g_mix_downbtn_tl
17560 \tl_gclear:N\g_mix_btnactions_tl
17561 \tl_gclear:N\g_mix_tooltip_tl
17562 %process options
17563 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
17564 \mix_uribegin: %treat URI characters correctly
17565 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
17566 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
17567 \mix_uribend:
17568 %normal button appearance
17569 %\hbox_set:Nn\l_mix_poster_box{#2}
17570 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17571 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
17572 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
17573 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
17574 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
17575 \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{
17576 \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
17577 \mix_pdfxform:nf{\l_mix_poster_box}
17578 \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
17579 %insert widget annotation

```



```

17580 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
17581 /Subtype/Widget
17582 /T~(mbtn@int_use:N\g_mix_mbtncnt_int)
17583 \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
17584 /FT/Btn/Ff-65536
17585 \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
17586 /AP~<<
17587 /N~\g_mix_normalbtn_tl
17588 \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
17589 \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
17590 >>
17591 /MK~<<
17592 /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
17593 /I~\g_mix_normalbtn_tl
17594 \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
17595 \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
17596 >>
17597 /A~<<
17598 /S/JavaScript/JS~(app.focusRect=false;)
17599 %sequence of actions to perform
17600 \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
17601 >>
17602 }
17603 \mix_appendtofields:n{\mix_pdflastann:}
17604 \hbox_to_wd:nn{\width}{
17605 \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
17606 }
17607 \int_gincr:N\g_mix_mbtncnt_int
17608 }
17609 \mix_endLTR:
17610 \group_end:
17611 }
17612 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
17613 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
17614

```

117 File memoir-xetex-bidi.def

```

17615 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for
17616 \renewcommand{\keepthetitle}{%
17617 \@bsmtitleempty
17618 \global\let\thanks\relax
17619 \global\let\LTRthanks\relax
17620 \global\let\RTLthanks\relax
17621 \global\let\and\relax
17622 \global\let\andnext\relax
17623 \global\let\@thanks\@empty
17624 \global\let\@title\@empty
17625 \global\let\@author\@empty
17626 \global\let\@date\@empty}
17627 \renewcommand{\maketitle}{\par
17628 \begin{group}
17629 \@bsmarkseries
17630 \def\@makefnmark{\@textsuperscript{%

```



```

17631      \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}%
17632 \long\def\@makefntext##1{\makethanksmark ##1}
17633 \if@twocolumn
17634     \ifnum \col@number=\@one
17635         \@maketitle
17636     \else
17637         \twocolumn[\@maketitle]%
17638     \fi
17639 \else
17640     \ifdim\pagetotal>\z@
17641         \newpage
17642     \fi
17643     \global\@topnum\z@
17644     \@maketitle
17645 \fi
17646 \thispagestyle{title}\@thanks
17647 \endgroup
17648 \@bscontmark % \setcounter{footnote}{0}%
17649 }
17650 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
17651 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
17652 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightrightskip\else\leftskip\fi}
17653 \renewcommand*{\memRTLvrightrightskip}{\if@RTL\leftskip\else\rightskip\fi}
17654 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
17655 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
17656 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
17657 \renewcommand*{\thesubsection}{\%
17658     \thesection\@SepMark\@arabic\c@subsection}
17659 \renewcommand*{\thesubsubsection}{\%
17660     \thesubsection\@SepMark\@arabic\c@subsubsection}
17661 \renewcommand*{\theparagraph}{\%
17662     \thesubsubsection\@SepMark\@arabic\c@paragraph}
17663 \renewcommand*{\thesubparagraph}{\%
17664     \theparagraph\@SepMark\@arabic\c@subparagraph}
17665 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
17666 \renewcommand{\theequation}{\%
17667     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
17668 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
17669 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
17670 \ifartopt
17671     \chapterstyle{article}
17672     \counterwithout{figure}{chapter}
17673     \counterwithout{table}{chapter}
17674     \counterwithout{footnote}{chapter}
17675     \counterwithout{equation}{chapter}
17676     \renewcommand{\chaptername}{\%
17677     \renewcommand{\maketitlehookb}{\%
17678         \vskip -1.5\topsep\vskip -1.5\partopsep}
17679     \renewcommand{\maketitlehookc}{\%
17680         \vskip -1.5\topsep\vskip -1.5\partopsep}
17681 \fi
17682 \long\def\@makecaption#1#2{\let\@memtempa\relax
17683     \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
17684     \else \def\@memtempa{\vbox to\topskip{}}\fi

```



```

17685 \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
17686 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
17687 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
17688 \let\footnote\@contfnote
17689 \let\footnotemark\@contfmark
17690 \ifdim\wd\@tempboxa<\linewidth \centering \fi
17691 \if@contcw
17692   \centering
17693   \parbox{\@contcwidth}{%
17694     \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
17695   \fi
17696 \ifdim\wd\@tempboxa<\linewidth
17697   \@contpre
17698   {\@contnfont #1\@contdelim}\@memtempa
17699   {\@contcshortstyle \@conttfont #2\@contfinal\par}
17700 \else
17701   \if@conthang
17702     \sbox\@tempboxa{\@contnfont #1\@contdelim}
17703     \@contpre%
17704     {\@contcstyle\hangindent=\wd\@tempboxa
17705      \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
17706   \else
17707     \if@contindent
17708       \@contpre%
17709       {\@contnfont #1\@contdelim}\@memtempa
17710       {\@contcstyle\hangindent=\@contindw
17711        \hangafter=\@cne\@conttfont #2\@contfinal\par}% <- v1.4
17712     \else
17713       \@contpre%
17714       {\@contnfont #1\@contdelim}\@memtempa
17715       {\@contcstyle \@conttfont #2\@contfinal\par}
17716     \fi
17717   \fi
17718 \fi
17719 \@contpost
17720 \if@contcw
17721   \par
17722   } % end of the \parbox
17723 \fi
17724 \vskip\belowcaptionskip}
17725 \ApplyPatchCodeToPackage{caption}{%
17726 \AtBeginPackage{caption}{
17727 \ClassWarningNoLine{memoir}{%
17728   You are using the caption package with the memoir \MessageBreak
17729   class. This may cause unexpected or inconsistent \MessageBreak
17730   results if you use any of memoir's captioning facilities}
17731
17732 \long\def\@makecaption##1##2{%
17733   \vskip\abovecaptionskip
17734   \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
17735   \ifdim \wd\@tempboxa >\hsize
17736     \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
17737   \else
17738     \global \@minipagefalse

```



```

17739 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
17740 \fi
17741 \vskip\belowcaptionskip}
17742
17743 \def\caption{%
17744 \ifx\@capttype\@undefined
17745 \latex@error{\noexpand\caption outside float}\@ehd
17746 \expandafter\@gobble
17747 \else
17748 \refstepcounter\@capttype
17749 \expandafter\@firstofone
17750 \fi
17751 {\@dblarg{\@caption\@capttype}}%
17752 }
17753
17754 \long\def\@caption##1[##2]##3{%
17755 \par
17756 \addcontentsline{\csname ext@##1\endcsname}{##1}%
17757 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
17758 \begingroup
17759 \parboxrestore
17760 \if@minipage
17761 \setminipage
17762 \fi
17763 \normalsize
17764 \makecaption{\csname fnum##1\endcsname}{\ignorespaces ##3}\par
17765 \endgroup}
17766 }}
17767 \renewenvironment{thebibliography}[1]{%
17768 \bibsection
17769 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17770 \bidi@thebibliography@font@hook%
17771 \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```

118 File midfloat-xetex-bidi.def

```

17772 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
17773 \def\RTL@outputdblcol{%
17774 \if@firstcolumn
17775 \global \@firstcolumnfalse
17776 \global\setbox\@leftcolumn\copy\@outputbox
17777 \splitmaxdepth\maxdimen
17778 \vbadness\maxdimen
17779 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17780 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17781 \toks@\expandafter{\topmark}%
17782 \xdef\@firstcoltopmark{\the\toks@}%
17783 \toks@\expandafter{\splitfirstmark}%
17784 \xdef\@firstcolfirstmark{\the\toks@}%
17785 \ifx\@firstcolfirstmark\@empty
17786 \global\let\@setmarks\relax
17787 \else
17788 \gdef\@setmarks{%
17789 \let\firstmark\@firstcolfirstmark

```



```

17790         \let\topmark\@firstcoltopmark}%
17791     \fi
17792     \global\c@colht\@colht\global\c@advipersep\z@
17793     \ifnum\jua@sk>0
17794         \remove@strip\jua@sar
17795         \global\@colht\the\jua@pr
17796         \ifdim\right@cor>\z@
17797             \global\advance\@colht by\right@cor
17798         \fi
17799         \global\advance\@colht by\cor@height
17800         \global\cor@height=0pt
17801     \fi
17802     \global \setbox\@rightcolumn \vbox{}%
17803 \else
17804     \ifdim\c@colht>\@colht
17805         \@tempdima\@colht
17806         \ifdim\@colht>\z@
17807             \global\setbox\@rightcolumn \vbox{%
17808                 \unvbox\@rightcolumn
17809                 \vbox to\@tempdima{%
17810                     \vskip\c@advipersep\unvbox\@outputbox}%
17811                 \vskip\stripsep
17812                 \vrule height\the\jua@ht width 0pt depth 0pt
17813                 \vskip\stripsep
17814             }%
17815             \global\c@advipersep\m@advipersep
17816         \else
17817             \global\setbox\@rightcolumn \vbox{%
17818                 \unvbox\@rightcolumn
17819                 \vrule height\the\jua@ht width 0pt depth 0pt
17820                 \vskip\stripsep
17821             }%
17822         \fi
17823     \ifnum\jua@sk>0
17824         \remove@strip\jua@sar
17825         \global\@colht\the\jua@pr
17826         \global\advance\@colht by -\ht\@rightcolumn
17827         \global\advance\@colht by\cor@height
17828         \global\cor@height=0pt
17829     \else
17830         \global\advance\c@colht by-\ht\@rightcolumn
17831         \global\@colht\c@colht
17832     \fi
17833 \else
17834     \global\@firstcolumntrue
17835     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17836         \unvbox\@rightcolumn
17837         \vskip\c@advipersep
17838         \unvbox\@outputbox
17839     }%
17840     \setbox\@outputbox \vbox {%
17841         \hb@xt@\textwidth {%
17842             \hskip \columnwidth
17843             \hfil

```



```

17844 \vrule \@width\columnseprule
17845 \hfil
17846 \hb@xt@\columnwidth {%
17847 \bidi@firstcolumn@status@write%
17848 \box\@leftcolumn \hss}%
17849 \hskip-\textwidth
17850 \hb@xt@\columnwidth {%
17851 \bidi@lastcolumn@status@write%
17852 \box\@outputbox \hss}%
17853 \hskip\columnwidth
17854 \hskip\columnsep}%
17855 }%
17856 \@combinedblfloats
17857 \@setmarks
17858 \@outputpage
17859 \begingroup
17860 \@dblfloatplacement
17861 \@startdblcolumn
17862 \@whiles\if@fcolmade \fi
17863 {\@outputpage
17864 \@startdblcolumn}%
17865 \endgroup
17866 \global\jua@sk=0\global\jua@sar={}%
17867 \global\cor@height\z@\global\c@advipersep\z@
17868 \fi
17869 \fi
17870 }
17871
17872
17873 \def\LTR@outputdblcol{%
17874 \if@firstcolumn
17875 \global \@firstcolumnfalse
17876 \global\setbox\@leftcolumn\copy\@outputbox
17877 \splitmaxdepth\maxdimen
17878 \vbadness\maxdimen
17879 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17880 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17881 \toks@\expandafter{\topmark}%
17882 \xdef\@firstcoltopmark{\the\toks@}%
17883 \toks@\expandafter{\splitfirstmark}%
17884 \xdef\@firstcolfirstmark{\the\toks@}%
17885 \ifx\@firstcolfirstmark\@empty
17886 \global\let\@setmarks\relax
17887 \else
17888 \gdef\@setmarks{%
17889 \let\firstmark\@firstcolfirstmark
17890 \let\topmark\@firstcoltopmark}%
17891 \fi
17892 \global\c@colht\@colht\global\c@advipersep\z@
17893 \ifnum\jua@sk>0
17894 \remove@strip\jua@sar
17895 \global\@colht\the\jua@pr
17896 \ifdim\right@cor>\z@
17897 \global\advance\@colht by\right@cor

```



```

17898         \fi
17899         \global\advance\@colht by\cor@height
17900         \global\cor@height=0pt
17901     \fi
17902     \global \setbox\@rightcolumn \vbox{}%
17903 \else
17904     \ifdim\c@colht>\@colht
17905         \@tempdima\@colht
17906         \ifdim\@colht>\z@
17907             \global\setbox\@rightcolumn \vbox{%
17908                 \unvbox\@rightcolumn
17909                 \vbox to\@tempdima{%
17910                     \vskip\c@addvipersep\unvbox\@outputbox}%
17911                 \vskip\stripsep
17912                 \vrule height\the\jua@ht width 0pt depth 0pt
17913                 \vskip\stripsep
17914             }%
17915             \global\c@addvipersep\m@addvipersep
17916         \else
17917             \global\setbox\@rightcolumn \vbox{%
17918                 \unvbox\@rightcolumn
17919                 \vrule height\the\jua@ht width 0pt depth 0pt
17920                 \vskip\stripsep
17921             }%
17922         \fi
17923     \ifnum\jua@sk>0
17924         \remove@strip\jua@sar
17925         \global\@colht\the\jua@pr
17926         \global\advance\@colht by -\ht\@rightcolumn
17927         \global\advance\@colht by\cor@height
17928         \global\cor@height=0pt
17929     \else
17930         \global\advance\c@colht by-\ht\@rightcolumn
17931         \global\@colht\c@colht
17932     \fi
17933 \else
17934     \global\@firstcolumntrue
17935     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17936         \unvbox\@rightcolumn
17937         \vskip\c@addvipersep
17938         \unvbox\@outputbox
17939     }%
17940     \setbox\@outputbox \vbox {%
17941         \hb@xt@\textwidth {%
17942             \hb@xt@\columnwidth {%
17943                 \bidi@firstcolumn@status@write%
17944                 \box\@leftcolumn \hss}%
17945             \hfil
17946             \vrule \@width\columnseprule
17947             \hfil
17948             \hb@xt@\columnwidth {%
17949                 \bidi@lastcolumn@status@write%
17950                 \box\@outputbox \hss}%
17951         }%

```




```

17952 }%
17953 \@combinedblfloats
17954 \@setmarks
17955 \@outputpage
17956 \begingroup
17957   \@dblfloatplacement
17958   \@startdblcolumn
17959   \@whiles\if@fcolmade \fi
17960   {\@outputpage
17961     \@startdblcolumn}%
17962 \endgroup
17963 \global\jua@sk=0\global\jua@sar={}%
17964 \global\cor@height\z@\global\c@addvipersep\z@
17965 \fi
17966 \fi
17967 }
17968
17969
17970 \def\strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
17971   \global \setbox\@viper\ vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\f
17972     \hsize\textwidth
17973     \@parboxrestore
17974     \col@number \@ne
17975     \vrule height\topskip width0pt depth0pt
17976 }
17977
17978 \def\endstrip{%
17979   \egroup\egroup
17980   \if@firstcolumn
17981     \ifdim\pagetotal>\z@
17982       \vskip\stripsep
17983       \global\ht@strip\pagegoal
17984       \global\advance\ht@strip by-\pagetotal
17985       \global\advance\ht@strip by-\stripsep
17986       \global\advance\ht@strip by-\ht\@viper
17987       \global\advance\ht@strip by-\stripsep
17988       \global\jua@ht=\ht\@viper
17989     \else
17990       \global\ht@strip\z@
17991     \fi
17992     \ifdim\ht@strip>\z@
17993       \unvbox\@viper
17994       \vskip\stripsep
17995       \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
17996       \global\advance\jua@sk by1
17997     \else
17998       \@latex@error{Strip needs more place!}\@ehc
17999       \if@vihproof
18000         \framebox[\columnwidth]{??? Strip ???}%
18001       \fi
18002     \fi
18003   \else
18004     \@latex@error{Strip is used only on left column!}\@ehc
18005     \if@vihproof

```



```

18006         \framebox[\columnwidth]{??? Strip ???}%
18007     \fi
18008 \fi
18009 }

```

119 File minitoc-xetex-bidi.def

```

18010 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package]
18011 \def\@undottedtocline#1#2#3#4#5{%
18012     \ifnum #1>\c@tocdepth\relax \else
18013         \vskip \z@ plus.2\p@
18014         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocmargin
18015         \parindent #2\relax\@afterindenttrue
18016         \interlinepenalty\@M
18017         \leavevmode
18018         \@tempdima #3\relax \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \hbox{}}%
18019         \hskip -\if@RTL\righskip\else\leftskip\fi
18020         #4\nobreak\hfill \nobreak
18021         \null\par}%
18022 \fi}
18023 \def\@Undottedtocline#1#2#3#4#5{%
18024     \ifnum #1>\c@tocdepth\relax \else
18025         \vskip \z@ \@plus.2\p@
18026         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocmargin
18027         \parindent #2\relax\@afterindenttrue
18028         \interlinepenalty\@M
18029         \leavevmode
18030         \@tempdima #3\relax
18031         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righskip\else\leftskip\fi
18032         {\coffeesfont #4}\nobreak \nobreak\null
18033         \par}%
18034 \fi}
18035 \def\@Undottedtocline#1#2#3#4#5{%
18036     \ifnum #1>\c@tocdepth\relax \else
18037         \vskip \z@ \@plus.2\p@
18038         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocmargin
18039         \parindent #2\relax\@afterindenttrue
18040         \interlinepenalty\@M
18041         \leavevmode
18042         \@tempdima #3\relax
18043         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righskip\else\leftskip\fi
18044         {\#4}\nobreak \hfill \nobreak\null
18045         \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
18046     \par}%
18047 \fi}

```

120 File multicol-xetex-bidi.def

```

18048 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
18049 \def\page@sofar{%
18050     \process@cols\mult@rightbox
18051     {\ifvoid\count@
18052         \setbox\count@\hbox to\hsize{}%
18053     \else

```



```

18054         \wd\count@\hsize
18055         \fi}%
18056     \count@\col@number \advance\count@m@ne
18057     \mult@info\z@
18058     {Column spec: \the\full@width\space = indent
18059       + columns + sep =\MessageBreak
18060       \the\multicol@leftmargin\space
18061       + \the\col@number\space
18062       x \the\hsize\space
18063       + \the\count@\space
18064       x \the\columnsep
18065     }%
18066 \ifvmode\else\errmessage{Multicol Error}\fi
18067     \nointerlineskip
18068     \setbox\z@\hbox{p}\global\dimen\tw@dp\z@
18069     \moveright\multicol@leftmargin
18070     \hbox to\full@width{%
18071       \bidi@multicol@align@columns
18072       \rlap{\phantom p}%
18073     }%
18074     \prevdepth\z@
18075     \kern-\dimen\tw@
18076     \ifdim\dimen\tw@ > \mc@gridwarn
18077       \PackageWarning{multicol}%
18078         {Very deep columns!\MessageBreak
18079           Grid alignment might be broken}%
18080     \fi
18081 }
18082 \def\LTR@column@boxes{%
18083   \process@cols\mult@firstbox{%
18084     \ifdim\dp\count@>\dimen\tw@
18085       \global\dimen\tw@dp\count@ \fi
18086       \mc@col@status@write
18087       \box\count@
18088       \hss{\columnseprulecolor\vrule
18089         \@width\columnseprule}\hss}%
18090   \ifdim\dp\mult@rightbox>\dimen\tw@
18091     \global\dimen\tw@dp\mult@rightbox \fi
18092     \mc@lastcol@status@write
18093     \box\mult@rightbox
18094 }
18095
18096 \def\RTL@column@boxes{%
18097   \process@cols\mult@firstbox{%
18098     \hskip\hsize
18099     \hss{\columnseprulecolor\vrule
18100       \@width\columnseprule}\hss
18101   }%
18102   \hskip\hsize
18103   \process@cols\mult@firstbox{%
18104     \ifdim\dp\count@>\dimen\tw@
18105       \global\dimen\tw@dp\count@ \fi
18106       \hskip-\hsize
18107       \mc@col@status@write

```



```

18108     \box\count@
18109     \hskip-\hsize
18110     \hskip-\columnsep
18111   }%
18112   \ifdim\dp\mult@rightbox>\dimen\tw@
18113     \global\dimen\tw@\dp\mult@rightbox \fi
18114   \hskip-\hsize
18115   \mc@lastcol@status@write
18116   \box\mult@rightbox
18117   \hskip-\hsize
18118   \hskip\full@width
18119 }
18120
18121 \newcommand\RTLmulticolcolumns
18122   {\let\bidimulticol@align@columns
18123     \RTL@column@boxes}
18124 \newcommand\LTRmulticolcolumns
18125   {\let\bidimulticol@align@columns
18126     \LTR@column@boxes}
18127 \newcommand\bidimulticol@align@columns
18128   {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
18129 \bidimulticol@AtEndPreamble{%
18130   \if@bidimulticol@csdef{footinsv@1}{%
18131     \def\footnoterule{\kern-3\p@
18132       \hrule \@width \textwidth \kern 2.6\p@}%
18133   }{}%
18134 }
18135 \def\multicols#1{\col@number#1\relax
18136   \ifnum\col@number<\tw@
18137     \PackageWarning{multicol}%
18138       {Using '\number\col@number'
18139         columns doesn't seem a good idea.^^J
18140         I therefore use two columns instead}%
18141     \col@number\tw@ \fi
18142   \ifnum\col@number>20
18143     \PackageError{multicol}%
18144       {Too many columns}%
18145     {Current implementation doesn't
18146       support more than 20 columns.%
18147       \MessageBreak
18148       I therefore use 20 columns instead}%
18149   \col@number20 \fi
18150   \ifx\@footnotetext\mult@footnotetext
18151     \else
18152       \let\orig@footnotetext\@footnotetext
18153       \let\@footnotetext\mult@footnotetext
18154     \fi
18155   \ifx\@LTRfootnotetext\mult@LTRfootnotetext
18156     \else
18157       \let\orig@LTRfootnotetext\@LTRfootnotetext
18158       \let\@LTRfootnotetext\mult@LTRfootnotetext
18159     \fi
18160   \ifx\@RTLfootnotetext\mult@RTLfootnotetext
18161     \else

```



```

18162      \let\orig@RTLfootnotetext\@RTLfootnotetext
18163      \let\@RTLfootnotetext\mult@RTLfootnotetext
18164      \fi
18165      \@ifnextchar[\mult@cols{\mult@cols[]}]
18166 \long\def\mult@footnotetext#1{\begingroup
18167     \hsize\textwidth
18168     \columnwidth\textwidth
18169     \orig@footnotetext{#1}\endgroup}
18170 \long\def\mult@LTRfootnotetext#1{\begingroup
18171     \hsize\textwidth
18172     \columnwidth\textwidth
18173     \orig@LTRfootnotetext{#1}\endgroup}
18174 \long\def\mult@RTLfootnotetext#1{\begingroup
18175     \hsize\textwidth
18176     \columnwidth\textwidth
18177     \orig@RTLfootnotetext{#1}\endgroup}
18178 \def\right@footnoterule{%
18179   \kern-3\p@
18180   \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
18181   \kern2.6\p@}
18182 \def\textwidth@footnoterule{\kern-3\p@
18183   \hrule \@width \textwidth \kern 2.6\p@}
18184 \def\bidileave@mult@copyins{%
18185   \advance\dimen@-\skip\@bidi@copyins@
18186   \advance\dimen@-\ht\@bidi@copyins@
18187 }
18188
18189 \bidi@AtEndPreamble{%
18190   \if@bidi@csundef{footinsv@1}{%
18191     \bidi@patchcmd{\multi@column@out}{%
18192       \ifvbox \@kludgeins
18193     }{%
18194       \ifvoid\@bidi@copyins@ \else
18195         \bidileave@mult@copyins
18196       \fi
18197       \ifvbox \@kludgeins
18198     }{}{}%
18199   }{}%
18200 }
18201
18202

```

121 File multienum-xetex-bidi.def

```

18203 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum pack
18204 \renewcommand{\itemx}[1]{\parbox[t]{%
18205   {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18206   \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
18207 \renewcommand{\itemxx}[2]{\parbox[t]{%
18208   {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18209   \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18210   {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18211   \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
18212 \renewcommand{\itemxxx}[3]{\parbox[t]{%

```



```

18213 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18214 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
18215 {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
18216 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
18217 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18218 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
18219 \renewcommand{\itemxxxx}[4]{\parbox[t]%
18220 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18221 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
18222 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18223 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18224 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18225 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
18226 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18227 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
18228 \renewcommand{\itemxxxxx}[5]{\parbox[t]%
18229 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18230 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
18231 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18232 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
18233 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18234 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
18235 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18236 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
18237 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18238 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
18239 \renewcommand{\itemxox}[2]{\parbox[t]%
18240 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18241 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18242 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18243 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
18244 \renewcommand{\itemxxo}[2]{\parbox[t]%
18245 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18246 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
18247 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18248 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
18249 \renewcommand{\itemxoxx}[3]{\parbox[t]%
18250 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18251 \parbox[t]{\remainxoxx}{\bidi@raggedright #1}\hfill%
18252 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18253 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18254 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18255 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18256 \renewcommand{\itemxxox}[3]{\parbox[t]%
18257 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18258 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18259 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18260 \parbox[t]{\remainxoxx}{\bidi@raggedright #2}\hfill%
18261 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18262 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18263 \renewcommand{\itemxxxo}[3]{\parbox[t]%
18264 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18265 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18266 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

18267 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18268 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18269 \parbox[t]{\remainxxxx}{\bidi@raggedright #3}\smallskip

```

122 File natbib-xetex-bidi.def

```

18270 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package fo
18271 \renewenvironment{thebibliography}[1]{%
18272   \bibsection
18273   \parindent\z@
18274   \bibpreamble
18275   \bibfont
18276   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
18277   \bidi@thebibliography@font@hook%
18278   \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
18279   \ifNAT@openbib
18280     \renewcommand\newblock{\par}%
18281   \else
18282     \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
18283   \fi
18284   \sloppy\clubpenalty4000\widowpenalty4000
18285   \sfcode`\.\@m
18286   \let\NAT@bibitem@first@sw\@firstoftwo
18287   \let\citeN\cite \let\shortcite\cite
18288   \let\citeasnoun\cite
18289 }{%
18290   \bibitem@fin
18291   \bibpostamble
18292   \def\@noitemerr{%
18293     \PackageWarning{natbib}{Empty `thebibliography' environment}%
18294   }%
18295   \endlist
18296   \bibcleanup
18297 }%

```

123 File newfloat-xetex-bidi.def

```

18298 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat packag
18299 \renewcommand*\newfloat@setwithin[2]{%
18300   \ifcsname c@chapter\endcsname
18301     \@removefromreset{#1}{chapter}%
18302   \fi
18303   \@removefromreset{#1}{section}%
18304   \edef\@tempa{#2}%
18305   \ifx\@tempa\@empty
18306     \def\@tempa{none}%
18307   \fi
18308   \def\@tempb{none}%
18309   \ifx\@tempa\@tempb
18310     \ifcsname c@chapter\endcsname
18311       \@chapterlistsgap@off{#1}%
18312     \fi
18313     \newfloat@@setwithin{#1}{\@tempa}%
18314   \else

```



```

18315 \def\@tempb{chapter}%
18316 \ifx\@tempa\@tempb
18317 \addtoreset{#1}{chapter}%
18318 \chapterlistsgap@on{#1}%
18319 \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@
18320 \else
18321 \def\@tempb{section}%
18322 \ifx\@tempa\@tempb
18323 \addtoreset{#1}{section}%
18324 \ifcsname c@chapter\endcsname
18325 \addtoreset{#1}{chapter}%
18326 \chapterlistsgap@on{#1}%
18327 \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
18328 \else
18329 \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
18330 \fi
18331 \else
18332 \newfloat@Error{Invalid value `#2' for option `within'}%
18333 \fi
18334 \fi
18335 \fi}

```

124 File `nicematrix-xetex-bidi.def`

```

18336 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix pa
18337 \ExplSyntaxOn
18338 \bidi@patchcmd{\_nicematrix_array:n}{\@tabarray}{%
18339 \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
18340 \@tabarray
18341 }{}{}
18342 \ExplSyntaxOff
18343

```

125 File `ntheorem-xetex-bidi.def`

```

18344 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem packag
18345 \gdef\@thm#1#2#3{%
18346 \if@thmmarks
18347 \stepcounter{end\InTheoType ctr}%
18348 \fi
18349 \renewcommand{\InTheoType}{#1}%
18350 \if@thmmarks
18351 \stepcounter{curr#1ctr}%
18352 \setcounter{end#1ctr}{0}%
18353 \fi
18354 \refstepcounter{#2}%
18355 \theorem@prework
18356 \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
18357 \ifvmode \advance\thm@topsepadd\partopsep\fi
18358 \trivlist
18359 \@topsep \theorem@preskipamount
18360 \@topsepadd \thm@topsepadd % used by \@endparenv
18361 \advance\linewidth -\theorem@indent
18362 \advance\@totalleftmargin \theorem@indent

```




```

18363 \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18364 \ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

126 File ntheorem-hyper-xetex-bidi.def

```

18365 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-
18366 \gdef\@thm#1#2#3{%
18367   \if@thmmarks
18368     \stepcounter{end\InTheoType ctr}%
18369   \fi
18370   \renewcommand{\InTheoType}{#1}%
18371   \if@thmmarks
18372     \stepcounter{curr#1ctr}%
18373     \setcounter{end#1ctr}{0}%
18374   \fi
18375   \refstepcounter{#2}%
18376   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
18377   \ifvmode \advance\thm@topsepadd\partopsep\fi
18378   \trivlist
18379   \@topsep \theorempreskipamount
18380   \@topsepadd \thm@topsepadd % used by \@endparenv
18381   \advance\linewidth -\theorem@indent
18382   \advance\@totalleftmargin \theorem@indent
18383   \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18384   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

127 File overpic-xetex-bidi.def

```

18385 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package
18386 \renewenvironment{overpic}[2][\]{%
18387   \sbox{\z@}{\includegraphics[#1]{#2}}%
18388   \settodepth{\@tempcnta}{\usebox{\z@}}%
18389   \settoheight{\@tempcntb}{\usebox{\z@}}%
18390   \advance\@tempcntb\@tempcnta%
18391   \settowidth{\@tempcnta}{\usebox{\z@}}%
18392   \setlength{\@tempdima}{\unitlength}%
18393   \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
18394 %
18395   \OVP@calc%
18396 %
18397   \begin{picture}(\@tempcnta,\@tempcntb)%
18398     \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
18399     \ifGin@grid%
18400       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18401         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18402     \fi\fi%
18403   % reset the graphics parameter
18404   \let\Gin@outer@scalex\relax
18405   \let\Gin@outer@scaley\relax
18406   \let\Gin@angle\relax
18407   \let\Gin@ewidth\Gin@exclamation
18408   \let\Gin@eheight\Gin@ewidth
18409   \def\Gin@scalex{1}
18410   \let\Gin@scaley\Gin@exclamation

```



```

18411 }{%
18412   \if@RTL\ifGin@grid%
18413     \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
18414       \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
18415   \fi%
18416   \put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}\fi%
18417   \end{picture}%
18418 }%

```

128 File pdfbase-xetex-bidi.def

```

18419 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package]
18420 \ExplSyntaxOn
18421 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
18422 \cs_set_nopar:Npn\@outputpage{
18423   \int_gincr:N\g_pbs_page_int
18424   \box_if_vertical:cTF{\@outputbox}{
18425     \bool_set_true:N\l_pbs_is_vertical_bool
18426   }{
18427     \bool_set_false:N\l_pbs_is_vertical_bool
18428   }
18429   \hbox_set:Nn\@outputbox{
18430     %begin of page
18431     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
18432     \box_use_drop:N\@outputbox
18433     %end of page
18434     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
18435   }
18436   \bool_if:NT\l_pbs_is_vertical_bool{
18437     \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
18438   }
18439   \pbs_outputpage_orig:
18440 }
18441 \ExplSyntaxOff

```

129 File pdfscape-xetex-bidi.def

```

18442 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape package]
18443 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
18444   \if@RTL
18445     \PLS@Rotate{-90}%
18446   \else
18447     \PLS@Rotate{90}%
18448   \fi
18449 }{}{}

```

130 File pgfcorescopes.code-xetex-bidi.def

```

18450 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf package]
18451 \def\pgfpicture{%
18452   \begingroup%
18453   \ifmmode\else\@RTLfalse\beginL\fi%
18454   \pgfpicturetrue%
18455   \global\advance\pgf@picture@serial\count by 1\relax%

```



```

18456 \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
18457 \let\pgf@nodecallback=\pgfutil@gobble%
18458 \pgf@picmaxx=-16000pt\relax%
18459 \pgf@picminx=16000pt\relax%
18460 \pgf@picmaxy=-16000pt\relax%
18461 \pgf@picminy=16000pt\relax%
18462 \pgf@relevantforpicturesizetrue%
18463 \pgf@resetpathsizes%
18464 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
18465 \def\endpgfpicture{%
18466     \ifpgfrememberpicturepositiononpage%
18467         \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
18468     \fi%
18469     % ok, now let's position the box
18470     \ifdim\pgf@picmaxx=-16000pt\relax%
18471         % empty picture. make size 0.
18472         \global\pgf@picmaxx=0pt\relax%
18473         \global\pgf@picminx=0pt\relax%
18474         \global\pgf@picmaxy=0pt\relax%
18475         \global\pgf@picminy=0pt\relax%
18476     \fi%
18477     % Shift baseline outside:
18478     \pgf@relevantforpicturesizefalse%
18479     \pgf@process{\pgf@baseline}%
18480     \xdef\pgf@shift@baseline{\the\pgf@y}%
18481     %
18482     \pgf@process{\pgf@trimleft}%
18483     \global\advance\pgf@x by-\pgf@picminx
18484     % prepare \hskip\pgf@trimleft@final.
18485     % note that \pgf@trimleft@final is also queried
18486     % by the pgf image externalization.
18487     \xdef\pgf@trimleft@final{-\the\pgf@x}%
18488     %
18489     \pgf@process{\pgf@trimright}%
18490     \global\advance\pgf@x by-\pgf@picmaxx
18491     % prepare \hskip\pgf@trimright@final.
18492     % note that \pgf@trimright@final is also queried
18493     % by the pgf image externalization.
18494     \xdef\pgf@trimright@final{\the\pgf@x}%
18495     %
18496     \pgf@remember@layerlist@globally
18497     \endgroup%
18498     \hss%
18499     \egroup%
18500     \pgf@restore@layerlist@from@global
18501     \pgf@insertlayers%
18502     \endgroup%
18503     \pgfsys@discardpath%
18504     \endgroup%
18505     \pgfsys@endscope%
18506     \pgfsys@endpicture%
18507     \endgroup%
18508     \hss
18509 \egroup%

```



```

18510 \pgfsys@typesetpicturebox\pgfpic%
18511 \ifmmode\else\endL\fi%
18512 \endgroup%
18513 }

```

131 File pgfsys-xetex-bidi.def

```

18514 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package fo
18515 \def\pgfsys@shadingoutsidepgfpicture#1{%
18516 \beginL#1\endL%
18517 }
18518
18519

```

132 File picinpar-xetex-bidi.def

```

18520 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar packag
18521 \long\def\@makewincaption#1#2{%
18522 \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
18523 \ifdim\wd\@tempboxa>\picwd
18524 {\footnotesize{\bf #1:\enspace}{#2\par}}
18525 \else
18526 \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
18527 \fi}
18528 \def\endwindow{%
18529 \global\tcd=\tcdsav
18530 \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
18531 \vbadness=10000
18532 \splittopskip=0pt
18533 %
18534 % Typeset the lines above the window
18535 %
18536 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
18537 \tcn=\tcd
18538 \loop\advance\tcn -1
18539 \setbox\fslice=\vsplit\holder to\baselineskip
18540 \prune\fslice\linewidth
18541 \topheight=0pt
18542 \ifnum\dp\fslice>\dp\wstrutbox
18543 \advance\topheight-\dp\fslice
18544 \advance\topheight\dp\wstrutbox
18545 \advance\topheight\ilg\fi
18546 \hbox to\linewidth{\box\fslice}
18547 \vskip-\topheight
18548 \ifdim\ht\holder>0pt\repeat
18549 \fi
18550 %
18551 % Now we build the boxes beside the window
18552 %
18553 \global\topheight=\tcl\baselineskip
18554 \ifnum\cumpartcl>0\global\tcl=\cumtcl
18555 \global\topheight=\vpic
18556 \fi
18557 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi

```



```

18558 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
18559 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
18560 \tcn=\tcl \na=0 \nb=0
18561 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
18562 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
18563 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
18564 \ifnum\na=0\ifnum\nb=0
18565     \setbox\waslice=\vbox to\vpic{\vss}
18566     \setbox\wbslice=\vbox to\vpic{\vss}
18567     \bl=1\br=1
18568     \vskip\ilg
18569 \fi\fi
18570 %
18571 % both sides
18572 %
18573 \ifnum\na>0 \ifnum\nb>0
18574 \loop\advance\nb -1
18575 \advance\na -1
18576 \if@RTL%
18577 \setbox\bslice=\vsplit\holder to\baselineskip
18578 \prune\bslice\rtside
18579 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18580 to\rtside{\box\bslice\hfil}}
18581 \setbox\aslice=\vsplit\holder to\baselineskip
18582 \prune\aslice\lftside
18583 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18584 to\lftside{\box\aslice\hfil}}
18585 \else%
18586 \setbox\aslice=\vsplit\holder to\baselineskip
18587 \prune\aslice\lftside
18588 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18589 to\lftside{\box\aslice\hfil}}
18590 \setbox\bslice=\vsplit\holder to\baselineskip
18591 \prune\bslice\rtside
18592 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18593 to\rtside{\box\bslice\hfil}}
18594 \fi%
18595 \ifnum\nb>0\repeat
18596 \fi\fi
18597 %
18598 % only text on the left side
18599 %
18600 \ifnum\na>0
18601     \loop\advance\na -1
18602     \setbox\aslice=\vsplit\holder to\baselineskip
18603     \prune\aslice\lftside
18604     \setbox\waslice=\vbox{\unvbox\waslice\hbox
18605 to\lftside{\box\aslice\hfil}}
18606     \ifdim\ht\holder>0pt\repeat
18607 \fi
18608 %
18609 % only text on the right side
18610 %
18611 \ifnum\nb>0

```



```

18612 \loop\advance\nb -1
18613 \setbox\bslice=\vsplit\holder to\baselineskip
18614 \prune\bslice\rtside
18615 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18616 to\rtside{\box\bslice\hfil}}
18617 \ifdim\ht\holder>0pt\repeat
18618 \fi
18619 %
18620 % fixing the dimensions of the window part
18621 %
18622 \ifnum\bl=0\topheight=\ht\wbslice
18623 \else\ifnum\br=0\topheight=\ht\waslice
18624 \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
18625 \else\topheight=\ht\wbslice\fi\fi\fi
18626 %
18627 % ship out the window material to the main vertical list
18628 %
18629 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
18630 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
18631 \fi\fi\fi
18632 \setbox>windowbox=\vbox{\hbox to\linewidth{%
18633 \ifnum\bl>0\box\waslice\hfil\fi%
18634 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
18635 \vfill\unvbox\picbox%
18636 \ifnum\picwd>0\vfill\fi%
18637 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
18638 \unvbox>windowbox%
18639 \loop
18640 \setbox\bslice=\vsplit\rawtext to\baselineskip
18641 \prune\bslice\linewidth
18642 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
18643 \unvbox\wbslice
18644 \ifdim\ht\rawtext>0pt
18645 \repeat
18646 }% FINITO

```

133 File plain-xetex-bidi.def

```

18647 \def\TeXXeTOn{\TeXXeTstate=1 }
18648 \def\TeXXeTOff{\TeXXeTstate=0 }
18649 \TeXXeTOn
18650 \def\usebox#1{\leavevmode\copy #1\relax}
18651 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
18652 \let\bidi@o@everypar=\everypar
18653 \newtoks\bidi@n@everypar
18654 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
18655 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
18656 \let\everypar=\bidi@n@everypar
18657 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
18658 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
18659 \protected\def\hboxR{\hbox\bgroup
18660 \everyhbox{%
18661 \aftergroup\egroup
18662 \everyhbox{}}%

```



```

18663 \beginR
18664 \@hboxRconstructtrue
18665 \bgroup
18666 \aftergroup\endR
18667 \aftergroup\egroup
18668 }\hbox}
18669 \protected\def\hboxL{\hbox\bgroup
18670 \everyhbox{%
18671 \aftergroup\egroup
18672 \everyhbox{}}%
18673 \beginL
18674 \@hboxRconstructfalse
18675 \bgroup
18676 \aftergroup\endL
18677 \aftergroup\egroup
18678 }\hbox}
18679 \protected\def\vboxR{\vbox\bgroup
18680 \everyvbox{%
18681 \aftergroup\egroup
18682 \everyvbox{}}%
18683 \@RTLtrue
18684 \bgroup
18685 \aftergroup\egroup
18686 }\vbox}
18687 \protected\def\vboxL{\vbox\bgroup
18688 \everyvbox{%
18689 \aftergroup\egroup
18690 \everyvbox{}}%
18691 \@RTLfalse
18692 \bgroup
18693 \aftergroup\egroup
18694 }\vbox}
18695 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
18696 \def\endLTR{\par}
18697 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
18698 \def\endRTL{\par}
18699 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
18700 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
18701 \let\unsetRTL=\setLTR
18702 \let\unsetLTR=\setRTL
18703 \let\LR=\LRE
18704 \let\RL=\RLE
18705 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
18706 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
18707 \let\@ensure@RL=\@ensure@RTL
18708 \let\@ensure@LR=\@ensure@LTR
18709 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
18710 \let\@ensure@maindir=\@ensure@dir
18711 \def\@RTL{RTL}
18712 \def\@LTR{LTR}
18713 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
18714 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
18715 \let\@TeX\TeX
18716 \def\TeX{\@ensure@LTR{\@TeX}}

```



```

18717 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
18718 \dimen@=\dp\ccclv \unvbox\ccclv % open up \box255
18719 \ifvoid\footins\else % footnote info is present
18720 \vskip\skip\footins
18721 \footnoterule
18722 \unvbox\footins\fi
18723 \ifr@ggedbottom \kern-\dimen@ \vfil \fi
18724 \ifvoid\@bidi@copyins@
18725 \else
18726 \vskip\skip\@bidi@copyins@
18727 \unvbox\@bidi@copyins@
18728 \fi
18729 }
18730 \long\def\bidi@reflect@box#1{%
18731 \leavevmode
18732 \setbox\z@\hbox{{#1}}%
18733 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestor
18734 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}}%
18735 }
18736 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
18737 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
18738 \let\setRL=\setRTL
18739 \let\setLR=\setLTR
18740 \let\unsetRL=\setLTR
18741 \let\bidi@saved@eqno=\eqno
18742 \let\bidi@saved@leqno=\leqno
18743 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
18744 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
18745 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18746 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18747 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

134 File pstricks-xetex-bidi.def

```

18748 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks packag
18749 \bidi@patchcmd\pspicture\beginpgroup{%
18750 \beginpgroup
18751 \ifmmode
18752 \else
18753 \@RTLfalse
18754 \beginL
18755 \fi
18756 }{\bidi@warningno\line{Oops! patching '\string\pspicture' failed}}
18757
18758 \bidi@patchcmd\endpspicture{%
18759 \endpgroup
18760 \psset[pstricks]{shift=0}% reset value
18761 }{%
18762 \ifmmode
18763 \else
18764 \endL
18765 \fi
18766 \endpgroup
18767 \psset[pstricks]{shift=0}% reset value

```




```

18768 }-}{\bidi@warningnoline{Oops! patching '\string\endpspicture' failed}}
18769
18770 \bidi@patchcmd\@@scalebox{%
18771   \special{x: bscale \pst@tempc \pst@tempd}%
18772   \hbox to \z@{\box\pst@hbox\hss}%
18773   \special{x: escale}%
18774 }-}{%
18775   \if@RTL
18776     \special{x: escale}%
18777   \else
18778     \special{x: bscale \pst@tempc \pst@tempd}%
18779   \fi
18780   \hbox to \z@{\box\pst@hbox\hss}%
18781   \if@RTL
18782     \special{x: bscale \pst@tempc \pst@tempd}%
18783   \else
18784     \special{x: escale}%
18785   \fi
18786 }-}{\bidi@warningnoline{Oops! patching '\string\@@scalebox' failed}}
18787 \let\ps@@scalebox\@@scalebox
18788

```

135 File quotchap-xetex-bidi.def

```

18789 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
18790 \renewcommand{\qauthor}[1]{%
18791   \par\smallskip
18792   {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
18793 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
18794   {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
18795     {\chapnumfont
18796       \ifnum \c@secnumdepth >\m@ne%
18797         \if@mainmatter\thechapter%
18798         \fi\fi
18799         \par\nobreak}%
18800     {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
18801     \nobreak\chapterheadendvskip}}
18802 \renewcommand*{\@iprintcites}{%
18803   \vbox to\z@{\leavevmode\copy\@quotebox\vss}
18804   \global\let\@printcites\relax}

```

136 File ragged2e-xetex-bidi.def

```

18805 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
18806 \renewcommand{\Centering}{%
18807   \ifx\\ \@raggedtwoe@savedcr
18808     \let\\ \@centercr
18809   \fi
18810   \let\@gnewline\@raggedtwoe@gnewline
18811   \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
18812   \@rightskip\CenteringRightskip
18813   \if@RTL\leftskip\else\rightskip\fi\@rightskip
18814   \parfillskip\CenteringParfillskip
18815   \parindent\CenteringParindent

```



```

18816 \@raggedtwoe@spaceskiptrue
18817 \@raggedtwoe@everyselectfont
18818 }
18819 \renewcommand{\RaggedLeft}{%
18820 \ifx\\ \@raggedtwoe@savedcr
18821 \let\\ \@centercr
18822 \fi
18823 \let\@gnewline\@raggedtwoe@gnewline
18824 \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
18825 \@rightskip\RaggedLeftRightskip
18826 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18827 \parfillskip\RaggedLeftParfillskip
18828 \parindent\RaggedLeftParindent
18829 \@raggedtwoe@spaceskiptrue
18830 \@raggedtwoe@everyselectfont
18831 }
18832 \renewcommand{\RaggedRight}{%
18833 \ifx\\ \@raggedtwoe@savedcr
18834 \let\\ \@centercr
18835 \fi
18836 \let\@gnewline\@raggedtwoe@gnewline
18837 \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
18838 \@rightskip\RaggedRightRightskip
18839 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18840 \parfillskip\RaggedRightParfillskip
18841 \parindent\RaggedRightParindent
18842 \@raggedtwoe@spaceskiptrue
18843 \@raggedtwoe@everyselectfont
18844 }
18845 \renewcommand{\justifying}{%
18846 \let\\ \@raggedtwoe@savedcr
18847 \let\@gnewline\@raggedtwoe@saved@gnewline
18848 \if@RTL\rightskip\else\leftskip\fi\z@
18849 \@rightskip\z@
18850 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18851 \parfillskip\JustifyingParfillskip
18852 \parindent\JustifyingParindent
18853 \@raggedtwoe@spaceskipfalse
18854 \@raggedtwoe@everyselectfont
18855 }
18856 \def\@raggedtwoe@raggedrightboxes@opt{%
18857 \renewcommand{\@arrayparboxrestore}{%
18858 \let\if@nobreak\iffalse
18859 \let\if@noskipsec\iffalse
18860 \let\par\@par
18861 \let\-\@dischph
18862 \let'\@acci\let\` \@accii\let\=\@acciii
18863 \parskip\z@skip
18864 \everypar{}%
18865 \linewidth\hsize
18866 \@totalleftmargin\z@
18867 \if@RTL
18868 \RaggedLeft
18869 \else

```



```

18870     \RaggedRight
18871     \fi
18872     \lineskip\normallineskip
18873     \baselineskip\normalbaselineskip
18874     \sloppy}%
18875     \let\@raggedtwoe@raggedrightboxes@opt\relax
18876 }
18877 \def\@raggedtwoe@document@opt{%
18878   \AtBeginDocument{\@raggedtwoe@abdhook}%
18879   \@raggedtwoe@raggedrightboxes@opt
18880   \@raggedtwoe@footmisctrue
18881   \let\@raggedtwoe@document@opt\relax
18882 }
18883 \def\@raggedtwoe@abdhook{%
18884   \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
18885     right to left documents and '\string\RaggedRight' for left
18886     to right documents}%
18887   \if@RTL
18888     \RaggedLeft
18889   \else
18890     \RaggedRight
18891   \fi
18892   \@ifundefined{tocrmarg}{\edef\tocrmarg{\tocrmarg plus 2em}}%
18893   \let\@raggedtwoe@abdhook\relax
18894 }
18895 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
18896   \@raggedtwoe@raggedrightboxes@opt
18897 }{}
18898 \@ifpackagewith{ragged2e}{document}{%
18899   \@raggedtwoe@document@opt
18900 }{}
18901 \let\origin@RaggedLeft=\RaggedLeft
18902 \let\origin@RaggedRight=\RaggedRight
18903 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
18904 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

137 File rapport1-xetex-bidi.def

```

18905 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class]
18906 \renewenvironment{theindex}{%
18907   \if@twocolumn
18908     \@restonecolfalse
18909   \else
18910     \@restonecoltrue
18911   \fi
18912   \columnseprule \z@
18913   \columnsep 35\p@
18914   \twocolumn[\@makeschapterhead{\indexname}]{%
18915     \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
18916     \thispagestyle{plain}\parindent\z@
18917     \parskip\z@ \@plus .3\p@\relax
18918     \let\item\@idxitem
18919   }{}
18920   \if@restonecol\onecolumn\else\clearpage\fi}

```



```

18921 \renewcommand*\head@style{%
18922     \interlinepenalty \@M
18923     \hyphenpenalty=\@M \exhyphenpenalty=\@M
18924     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18925 \if@titlepage
18926     \renewenvironment{abstract}{%
18927         \titlepage
18928         \null\vfil
18929         \section*{\SectFont\abstractname}%
18930         \noindent\ignorespaces}
18931     {\par\vfil\null\endtitlepage}
18932 \else
18933     \renewenvironment{abstract}{%
18934         \if@twocolumn
18935             \section*{\abstractname}%
18936         \else
18937             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18938             \section*{\small\SectFont\abstractname}%
18939             \noindent\ignorespaces
18940         \fi}
18941     {\if@twocolumn\else\par\egroup\fi}
18942 \fi
18943 \renewcommand*\@regtocline[3]{%
18944     \ifnum #1>\c@tocdepth
18945     \else
18946         \vskip\z@\@plus.2\p@
18947         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
18948         \if@RTL\rightskip\else\leftskip\fi\unitindent
18949         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
18950         \parfillskip\z@
18951         \@tempdima\unitindent
18952         \parindent\z@
18953         \leavevmode
18954         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
18955         \hskip 1em \nobreak{\slshape #3}\par
18956     }%
18957 \fi}
18958 \if@oldtoc
18959 \renewcommand*\l@part[2]{%
18960     \ifnum \c@tocdepth >-2\relax
18961         \addpenalty{-\@highpenalty}%
18962         \addvspace{2.25em \@plus\p@}%
18963         \begingroup
18964             \setlength\@tempdima{3em}%
18965             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18966             \parfillskip -\@pnumwidth
18967             {\leavevmode
18968                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
18969             \nobreak
18970             \global\@nobreaktrue
18971             \everypar{\global\@nobreakfalse\everypar{}}%
18972         \endgroup
18973     \fi}
18974 \else

```



```

18975 \renewcommand*\l@part{%
18976 \ifnum \c@tocdepth >-2\relax
18977 \addpenalty{-\@highpenalty}%
18978 \addvspace{2.25em \@plus \p@}%
18979 \@regtocline{0}%
18980 \fi}
18981 \fi
18982 \if@oldtoc
18983 \renewcommand*\l@chapter[2]{%
18984 \addpenalty{-\@highpenalty}%
18985 \vskip 1.0em \@plus \p@
18986 \setlength\@tempdima{1.5em}%
18987 \begingroup
18988 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18989 \parfillskip -\@pnumwidth
18990 \leavevmode \bfseries
18991 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
18992 \hskip -\if@RTL\rightskip\else\leftskip\fi
18993 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
18994 \penalty\@highpenalty
18995 \endgroup}
18996 \else
18997 \renewcommand*\l@chapter{\@regtocline{0}}
18998 \fi
18999 \renewcommand*\left@footnoterule{%
19000 \kern-3\p@
19001 \kern.5\baselineskip
19002 \hrule\@width\unitindent
19003 \kern.4\baselineskip
19004 }
19005 \renewcommand*\right@footnoterule{%
19006 \kern-3\p@
19007 \kern.5\baselineskip
19008 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19009 \kern.4\baselineskip}
19010 \renewenvironment{thebibliography}[1]
19011 {\chapter*{\bibname}%
19012 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19013 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19014 \bidi@thebibliography@font@hook%
19015 \list{\@biblabel{\@arabic\c@enumiv}}%
19016 {\settowidth\labelwidth{\@biblabel{#1}}%
19017 \leftmargin\labelwidth
19018 \advance\leftmargin\labelsep
19019 \@openbib@code
19020 \usecounter{enumiv}%
19021 \let\p@enumiv\@empty
19022 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19023 \sloppy\clubpenalty4000\widowpenalty4000%
19024 \sfcode`\.\@m}
19025 {\def\@noitemerr
19026 {\@latex@warning{Empty `thebibliography' environment}}%
19027 \endlist}
19028 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}

```



```

19029 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19030 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19031 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19032 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19033 \renewcommand*\theequation{%
19034   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19035 \renewcommand*\thefigure{%
19036   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
19037 \renewcommand*\thetable{%
19038   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
19039 \if@titlepage
19040 \renewcommand*\TitleFont{\rmfamily}
19041 \renewcommand*\maketitle{%
19042   \begin{titlepage}%
19043     \let\footnotesize\small
19044     \let\right@footnoterule\relax
19045     \let\left@footnoterule\relax
19046     \let\textwidth\footnoterule\relax
19047     \let \footnote \thanks
19048     \long\def\@makefntext##1{\parindent\z@
19049       \def\labelitemi{\textendash}\@revlabeltrue
19050       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19051     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19052     \if@compatibility\setcounter{page}{0}\fi
19053     \null\vfil
19054     \vskip 60\p@
19055     \begin{center}%
19056       \TitleFont
19057       {\LARGE \def\\{\penalty -\@M}
19058         \if@allcaps
19059           \expandafter\uc@nothanks\@title\thanks\relax
19060         \else
19061           \@title
19062           \fi\par}%
19063       \vskip 3em%
19064       {\large
19065         \lineskip .75em \parindent\z@
19066         \begin{tabular}[t]{c}%
19067           \if@allcaps
19068             \expandafter\uc@authornothanks\@author\and\relax
19069           \else
19070             \@author
19071           \fi
19072         \end{tabular}\par}%
19073       \vskip 1.5em%
19074       {\large
19075         \if@allcaps
19076           \uppercase\expandafter{\@date}%
19077         \else
19078           \@date
19079         \fi\par}%
19080       \end{center}\par
19081     \@thanks
19082     \vfil\null

```



```

19083 \end{titlepage}%
19084 \setcounter{footnote}{0}%
19085 \global\let\thanks\relax
19086 \global\let\maketitle\relax
19087 \global\let\@thanks\@empty
19088 \global\let\@author\@empty
19089 \global\let\@title\@empty
19090 \global\let\@date\@empty
19091 \global\let\title\relax
19092 \global\let\author\relax
19093 \global\let\date\relax
19094 \global\let\and\relax
19095 }
19096 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19097 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19098 \futurelet\@tempa\uc@ax}
19099 \def\uc@ax{%
19100 \ifx\@tempa\relax
19101 \else
19102 \\\andname \\\expandafter\uc@authornothanks
19103 \fi}
19104 \def\uc@tx{\ifx\@tempa\relax
19105 \else \expandafter\uc@ty \fi}
19106 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19107 \else
19108 \renewcommand*\maketitle{\par
19109 \begingroup
19110 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19111 \def\@makefnmark{\rlap{%
19112 \textsuperscript{\normalfont\@thefnmark}}}%
19113 \long\def\@makefntext{\@xmakefntext{%
19114 \textsuperscript{\normalfont\@thefnmark}}}%
19115 \if@twocolumn
19116 \ifnum \col@number=\@ne
19117 \@maketitle
19118 \else
19119 \twocolumn[\@maketitle]%
19120 \fi
19121 \else
19122 \newpage
19123 \global\@topnum\z@
19124 \@maketitle
19125 \fi
19126 \thispagestyle{plain}\@thanks
19127 \endgroup
19128 \setcounter{footnote}{0}%
19129 \global\let\thanks\relax
19130 \global\let\maketitle\relax
19131 \global\let\@maketitle\relax
19132 \global\let\@thanks\@empty
19133 \global\let\@author\@empty
19134 \global\let\@title\@empty
19135 \global\let\@date\@empty
19136 \global\let\title\relax

```



```

19137 \global\let\author\relax
19138 \global\let\date\relax
19139 \global\let\and\relax
19140 }
19141 \def\@maketitle{%
19142 \newpage
19143 \null
19144 \vskip 2em%
19145 \begin{center}%
19146 \let \footnote \thanks
19147 {\LARGE \TitleFont \@title \par}%
19148 \vskip 1.5em%
19149 {\large \TitleFont
19150 \lineskip .5em%
19151 \begin{tabular}[t]{c}%
19152 \@author
19153 \end{tabular}\par}%
19154 \vskip 1em%
19155 {\large \TitleFont \@date}%
19156 \end{center}%
19157 \par
19158 \vskip 1.5em}
19159 \fi

```

138 File rapport3-xetex-bidi.def

```

19160 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class]
19161 \renewenvironment{theindex}{%
19162 \if@twocolumn
19163 \@restonecolfalse
19164 \else
19165 \@restonecoltrue
19166 \fi
19167 \columnseprule \z@
19168 \columnsep 35\p@
19169 \twocolumn[\@makeschapterhead{\indexname}]}%
19170 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
19171 \thispagestyle{plain}\parindent\z@
19172 \parskip\z@ \@plus .3\p@\relax
19173 \let\item\@idxitem
19174 }{%
19175 \if@restonecol\onecolumn\else\clearpage\fi}
19176 \if@titlepage
19177 \renewcommand*\TitleFont{\rmfamily}
19178 \renewcommand*\maketitle{%
19179 \begin{titlepage}%
19180 \let\footnotesize\small
19181 \let\right@footnoterule\relax
19182 \let\left@footnoterule\relax
19183 \let\textwidth@footnoterule\relax
19184 \let \footnote \thanks
19185 \let \LTRfootnote \LTRthanks
19186 \let \RTLfootnote \RTLthanks
19187 \long\def\@makefntext##1{\parindent\z@

```




```

19188         \def\labelitemi{\textendash}\@revlabeltrue
19189         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19190 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19191 \if@compatibility\setcounter{page}{0}\fi
19192 \null\vfil
19193 \vskip 60\p@
19194 \begin{center}%
19195   \TitleFont
19196   {\LARGE \def\\{\penalty -\@M}
19197     \if@allcaps
19198       \expandafter\uc@nothanks\@title\thanks\relax
19199     \else
19200       \@title
19201     \fi\par}%
19202 \vskip 3em%
19203 {\large
19204   \lineskip .75em \parindent\z@
19205   \begin{tabular}[t]{c}%
19206     \if@allcaps
19207       \expandafter\uc@authornothanks\@author\and\relax
19208     \else
19209       \@author
19210     \fi
19211   \end{tabular}\par}%
19212 \vskip 1.5em%
19213 {\large
19214   \if@allcaps
19215     \uppercase\expandafter{\@date}%
19216   \else
19217     \@date
19218   \fi\par}%
19219 \end{center}\par
19220 \@thanks
19221 \vfil\null
19222 \end{titlepage}%
19223 \setcounter{footnote}{0}%
19224 \global\let\thanks\relax
19225 \global\let\LTRthanks\relax
19226 \global\let\RTLthanks\relax
19227 \global\let\maketitle\relax
19228 \global\let\@thanks\@empty
19229 \global\let\@author\@empty
19230 \global\let\@title\@empty
19231 \global\let\@date\@empty
19232 \global\let\title\relax
19233 \global\let\author\relax
19234 \global\let\date\relax
19235 \global\let\and\relax
19236 }
19237 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19238 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19239   \futurelet\@tempa\uc@ax}
19240 \def\uc@ax{%
19241   \ifx\@tempa\relax

```



```

19242 \else
19243   \ \ \andname \ \ \expandafter\uc@authornothanks
19244 \fi}
19245 \def\uc@tx{\ifx\@tempa\relax
19246   \else \expandafter\uc@ty \fi}
19247 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19248 \else
19249 \renewcommand*\maketitle{\par
19250   \begin{group}
19251     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19252     \def\@makefnmark{\rlap{%
19253       \@textsuperscript{\normalfont\@thefnmark}}}%
19254     \long\def\@makefntext{\@xmakefntext{%
19255       \@textsuperscript{\normalfont\@thefnmark}}}%
19256     \if@twocolumn
19257       \ifnum \col@number=\@ne
19258         \@maketitle
19259       \else
19260         \twocolumn[\@maketitle]%
19261       \fi
19262     \else
19263       \newpage
19264       \global\@topnum\z@
19265       \@maketitle
19266     \fi
19267     \thispagestyle{plain}\@thanks
19268   \end{group}
19269   \setcounter{footnote}{0}%
19270   \global\let\thanks\relax
19271   \global\let\LTRthanks\relax
19272   \global\let\RTLthanks\relax
19273   \global\let\maketitle\relax
19274   \global\let\@maketitle\relax
19275   \global\let\@thanks\@empty
19276   \global\let\@author\@empty
19277   \global\let\@title\@empty
19278   \global\let\@date\@empty
19279   \global\let\title\relax
19280   \global\let\author\relax
19281   \global\let\date\relax
19282   \global\let\and\relax
19283 }
19284 \def\@maketitle{%
19285   \newpage
19286   \null
19287   \vskip 2em%
19288   \if@titlecentered
19289     \begin{center}%
19290       \let \footnote \thanks
19291       \let \LTRfootnote \LTRthanks
19292       \let \RTLfootnote \RTLthanks
19293       {\LARGE \TitleFont \@title \par}%
19294       \vskip 1.5em%
19295       {\large \TitleFont

```



```

19296     \lineskip .5em%
19297     \begin{tabular}[t]{c}%
19298         \@author
19299     \end{tabular}\par}%
19300     \vskip 1em%
19301     {\large \TitleFont \@date}%
19302     \end{center}%
19303 \else
19304     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
19305     {\large \TitleFont \lineskip .5em \tabcolsep\z@
19306         \def\and{%% \begin{tabular} has already started
19307             \end{tabular}\hskip 1em plus .17fil
19308             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tab
19309             \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}
19310     \vskip 1em {\large \TitleFont \@date}
19311 \fi
19312 \par
19313 \vskip 1.5em}
19314 \fi
19315 \renewcommand*\@regtocline[3]{%
19316     \ifnum #1>\c@tocdepth
19317     \else
19318         \vskip\z@\@plus.2\p@
19319         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
19320         \if@RTL\righskip\else\leftskip\fi\unitindent
19321         \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
19322         \parfillskip\z@
19323         \@tempdima\unitindent
19324         \parindent\z@
19325         \leavevmode
19326         \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
19327         \hskip 1em \nobreak{\slshape #3}\par
19328         }%
19329     \fi}
19330 \if@oldtoc
19331 \renewcommand*\l@part[2]{%
19332     \ifnum \c@tocdepth >-2\relax
19333         \addpenalty{-\@highpenalty}%
19334         \addvspace{2.25em \@plus\p@}%
19335         \begingroup
19336             \setlength\@tempdima{3em}%
19337             \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
19338             \parfillskip -\@pnumwidth
19339             {\leavevmode
19340                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19341                 \nobreak
19342                 \global\@nobreaktrue
19343                 \everypar{\global\@nobreakfalse\everypar{}}%
19344             \endgroup
19345     \fi}
19346 \else
19347     \renewcommand*\l@part{%
19348         \ifnum \c@tocdepth >-2\relax
19349             \addpenalty{-\@highpenalty}%

```



```

19350 \addvspace{2.25em \@plus \p@}%
19351 \@regtocline{0}%
19352 \fi}
19353 \fi
19354 \if@oldtoc
19355 \renewcommand*\l@chapter[2]{%
19356 \addpenalty{-\@highpenalty}%
19357 \vskip 1.0em \@plus \p@
19358 \setlength\@tempdima{1.5em}%
19359 \begingroup
19360 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19361 \parfillskip -\@pnumwidth
19362 \leavevmode \bfseries
19363 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19364 \hskip -\if@RTL\rightskip\else\leftskip\fi
19365 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19366 \penalty\@highpenalty
19367 \endgroup}
19368 \else
19369 \renewcommand*\l@chapter{\@regtocline{0}}
19370 \fi
19371 \renewcommand*\head@style{%
19372 \interlinepenalty \@M
19373 \hyphenpenalty=\@M \exhyphenpenalty=\@M
19374 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
19375 \if@titlepage
19376 \renewenvironment{abstract}{%
19377 \titlepage
19378 \null\vfil
19379 \section*{\SectFont\abstractname}%
19380 \noindent\ignorespaces}
19381 {\par\vfil\null\endtitlepage}
19382 \else
19383 \renewenvironment{abstract}{%
19384 \if@twocolumn
19385 \section*{\abstractname}%
19386 \else
19387 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
19388 \section*{\small\SectFont\abstractname}%
19389 \noindent\ignorespaces
19390 \fi}
19391 {\if@twocolumn\else\par\egroup\fi}
19392 \fi
19393 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19394 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19395 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19396 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19397 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19398 \renewcommand*\thefigure{%
19399 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
19400 \renewcommand*\thetable{%
19401 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
19402 \renewcommand*\theequation{%
19403 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}

```



```

19404 \renewenvironment{thebibliography}[1]
19405     {\chapter*{\bibname}%
19406       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19407       \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19408       \bidi@thebibliography@font@hook%
19409       \list{\@biblabel{\@arabic\c@enumiv}}%
19410         {\settowidth\labelwidth{\@biblabel{#1}}%
19411          \leftmargin\labelwidth
19412          \advance\leftmargin\labelsep
19413          \@openbib@code
19414          \usecounter{enumiv}%
19415          \let\p@enumiv\@empty
19416          \renewcommand*{theenumiv}{\@arabic\c@enumiv}}%
19417       \sloppy\clubpenalty4000\widowpenalty4000%
19418       \sfcode`. \.\@m}
19419     {\def\@noitemerr
19420      {\@latex@warning{Empty `thebibliography' environment}}%
19421      \endlist}
19422 \renewcommand*\left@footnoterule{%
19423   \kern-3\p@
19424   \kern.5\baselineskip
19425   \hrule\@width\unitindent
19426   \kern.4\baselineskip
19427 }
19428 \renewcommand*\right@footnoterule{%
19429   \kern-3\p@
19430   \kern.5\baselineskip
19431   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19432   \kern.4\baselineskip}
19433 \renewcommand*\head@style{%
19434   \interlinepenalty \@M
19435   \hyphenpenalty=\@M \exhyphenpenalty=\@M
19436   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

139 File refrep-xetex-bidi.def

```

19437 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for
19438 \if@titlepage
19439   \renewcommand\maketitle{\begin{titlepage}%
19440     \let\footnotesize\small
19441     \let\right@footnoterule\relax
19442     \let\left@footnoterule\relax
19443     \let\textwidth\footnoterule\relax
19444     \let\footnote\thanks
19445     \let\LTRfootnote\LTRthanks
19446     \let\RTLfootnote\RTLthanks
19447     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19448     \def\@makefnmark%
19449       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19450     \long\def\@makefntext##1{%
19451       \@setpar{\@par
19452         \@tempdima = \hsize
19453         \advance\@tempdima -1em
19454         \parshape \@ne 1em \@tempdima}%

```



```

19455     \par\parindent 1em \noindent
19456     \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19457 \null\vfil
19458 \vskip 60\p@
19459 \begin{center}%
19460   {\LARGE \@title \par}%
19461   \vskip 3em%
19462   {\large
19463     \lineskip .75em%
19464     \begin{tabular}[t]{c}%
19465       \@author
19466     \end{tabular}\par}%
19467   \vskip 1.5em%
19468   {\large \@date \par}%           % Set date in \large size.
19469 \end{center}\par
19470 \@thanks
19471 \vfil\null
19472 \end{titlepage}%
19473 \setcounter{footnote}{0}%
19474 \global\let\thanks\relax
19475 \global\let\LTRthanks\relax
19476 \global\let\RTLthanks\relax
19477 \global\let\maketitle\relax
19478 \global\let\@thanks\@empty
19479 \global\let\@author\@empty
19480 \global\let\@date\@empty
19481 \global\let\@title\@empty
19482 \global\let\title\relax
19483 \global\let\author\relax
19484 \global\let\date\relax
19485 \global\let\and\relax
19486 }
19487 \else
19488 \renewcommand\maketitle{\par
19489   \begingroup
19490     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19491     \def\@makefnmark%
19492       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19493     \long\def\@makefntext##1{%
19494       \setpar{\@par
19495         \@tempdima = \hsize
19496         \advance\@tempdima -1em
19497         \parshape \@ne 1em \@tempdima}%
19498       \par\parindent 1em \noindent
19499       \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19500   \if@twocolumn
19501     \ifnum \col@number=\@ne
19502       \@maketitle
19503     \else
19504       \twocolumn[\@maketitle]%
19505     \fi
19506   \else
19507     \newpage
19508     \global\@topnum\z@           % Prevents figures from going at top of page.

```



```

19509         \@maketitle
19510     \fi
19511     \thispagestyle{empty}\@thanks
19512 \endgroup
19513 \setcounter{footnote}{0}%
19514 \global\let\thanks\relax
19515 \global\let\LTRthanks\relax
19516 \global\let\RTLthanks\relax
19517 \global\let\maketitle\relax
19518 \global\let\@maketitle\relax
19519 \global\let\@thanks\@empty
19520 \global\let\@author\@empty
19521 \global\let\@date\@empty
19522 \global\let\@title\@empty
19523 \global\let\title\relax
19524 \global\let\author\relax
19525 \global\let\date\relax
19526 \global\let\and\relax
19527 }
19528 \def\@maketitle{%
19529     \newpage
19530     \null
19531     \longthickrule\vskip1.5em%
19532     \let \footnote \thanks
19533     \let \LTRfootnote \LTRthanks
19534     \let \RTLfootnote \RTLthanks
19535     {\secshape \parskip\z@ \parindent\z@
19536     \Large\bfseries \@title \par}%
19537     \vskip1.5em\longthickrule\vskip1.5em%
19538     {\normalsize
19539     \lineskip .5em%
19540     \begin{flushright}%
19541         {\slshape\@author\par}
19542         \vskip 1em%
19543         {\@date}%
19544     \end{flushright}\par}%
19545     \vskip 1.5em}
19546 \fi
19547 \renewcommand*\l@part[2]{%
19548     \ifnum \c@tocdepth >-2\relax
19549         \addpenalty{-\@highpenalty}%
19550         \addvspace{2.25em \@plus\p@}%
19551         \begingroup
19552             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19553             \parfillskip -\@pnumwidth
19554             {\leavevmode
19555             \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
19556             \nobreak
19557             \global\@nobreaktrue
19558             \everypar{\global\@nobreakfalse\everypar{}}%
19559         \endgroup
19560     \fi}
19561 \renewcommand*\l@chapter[2]{%
19562     \ifnum \c@tocdepth >\m@ne

```



```

19563 \addpenalty{-\@highpenalty}%
19564 \vskip 1.0em \@plus\p@
19565 \setlength\@tempdima{1.5em}%
19566 \begingroup
19567 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19568 \parfillskip -\@pnumwidth
19569 \leavevmode \bfseries
19570 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19571 \hskip -\if@RTL\rightskip\else\leftskip\fi
19572 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19573 \penalty\@highpenalty
19574 \endgroup
19575 \fi}
19576 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
19577 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
19578 \hyphenpenalty=2000}
19579 \renewcommand\left@footnoterule{%
19580 \kern-3\p@
19581 \hrule\@width.4\columnwidth
19582 \kern 2.6\p@}
19583 \renewcommand\right@footnoterule{%
19584 \kern-3\p@
19585 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19586 \kern2.6\p@}
19587 \renewcommand\theequation
19588 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19589 \renewcommand\thefigure
19590 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19591 \renewcommand\thetable%
19592 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19593 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
19594 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19595 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19596 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19597 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19598 \renewenvironment{thebibliography}[1]
19599 {\chapter*{\bibname
19600 \@mkboth{\bibname}{\bibname}}%
19601 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19602 \bidi@thebibliography@font@hook%
19603 \list{\@biblabel{\@arabic\c@enumiv}}%
19604 {\settowidth\labelwidth{\@biblabel{#1}}%
19605 \leftmargin\labelwidth
19606 \advance\leftmargin\labelsep
19607 \@openbib@code
19608 \usecounter{enumiv}%
19609 \let\p@enumiv\@empty
19610 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19611 \sloppy
19612 \clubpenalty4000
19613 \@clubpenalty \clubpenalty
19614 \widowpenalty4000%
19615 \sfcode\.\@m}
19616 {\def\@noitemerr

```




```

19617         {\@latex@warning{Empty `thebibliography' environment}}%
19618         \endlist}

```

140 File report-xetex-bidi.def

```

19619 \ProvidesFile{report-xetex-bidi.def}[2025/09/04 v1.0 bidi adaptations for standard report c
19620 \renewenvironment{theindex}
19621         {\if@twocolumn
19622           \@restonecolfalse
19623           \else
19624             \@restonecoltrue
19625             \fi
19626           \columnseprule \z@
19627           \columnsep 35\p@
19628           \twocolumn[\@makeschapterhead{\indexname}]}%
19629           \@mkboth{\MakeUppercase\indexname}%
19630                   {\MakeUppercase\indexname}%
19631           \thispagestyle{plain}\parindent\z@
19632           \parskip\z@ \@plus .3\p@\relax
19633           \let\item\@idxitem}
19634         {\if@restonecol\onecolumn\else\clearpage\fi}
19635 \if@titlepage
19636 \renewcommand\maketitle{\begin{titlepage}%
19637 \let\footnotesize\small
19638 \let\right@footnoterule\relax
19639 \let\left@footnoterule\relax
19640 \let\textwidth\footnoterule\relax
19641 \let \footnote \thanks
19642 \let \LTRfootnote \LTRthanks
19643 \let \RTLfootnote \RTLthanks
19644 \null\vfil
19645 \vskip 60\p@
19646 \begin{center}%
19647   {\LARGE \@title \par}%
19648   \vskip 3em%
19649   {\large
19650     \lineskip .75em%
19651     \begin{tabular}[t]{c}%
19652       \@author
19653     \end{tabular}\par}%
19654     \vskip 1.5em%
19655     {\large \@date \par}%           % Set date in \large size.
19656 \end{center}\par
19657 \@thanks
19658 \vfil\null
19659 \end{titlepage}%
19660 \setcounter{footnote}{0}%
19661 \global\let\thanks\relax
19662 \global\let\LTRthanks\relax
19663 \global\let\RTLthanks\relax
19664 \global\let\maketitle\relax
19665 \global\let\@thanks\@empty
19666 \global\let\@author\@empty
19667 \global\let\@date\@empty

```



```

19668 \global\let\@title\@empty
19669 \global\let\title\relax
19670 \global\let\author\relax
19671 \global\let\date\relax
19672 \global\let\and\relax
19673 }
19674 \else
19675 \renewcommand\maketitle{\par
19676 \begin{group}
19677 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19678 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19679 \long\def\@makefntext##1{\parindent 1em\noindent
19680 \hb@xt@1.8em{%
19681 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
19682 \if@twocolumn
19683 \ifnum \col@number=\@ne
19684 \maketitle
19685 \else
19686 \twocolumn[\maketitle]%
19687 \fi
19688 \else
19689 \newpage
19690 \global\@topnum\z@ % Prevents figures from going at top of page.
19691 \maketitle
19692 \fi
19693 \thispagestyle{plain}\@thanks
19694 \end{group}
19695 \setcounter{footnote}{0}%
19696 \global\let\thanks\relax
19697 \global\let\LTRthanks\relax
19698 \global\let\RTLthanks\relax
19699 \global\let\maketitle\relax
19700 \global\let\@maketitle\relax
19701 \global\let\@thanks\@empty
19702 \global\let\@author\@empty
19703 \global\let\@date\@empty
19704 \global\let\@title\@empty
19705 \global\let\title\relax
19706 \global\let\author\relax
19707 \global\let\date\relax
19708 \global\let\and\relax
19709 }
19710 \def\@maketitle{%
19711 \newpage
19712 \null
19713 \vskip 2em%
19714 \begin{center}%
19715 \let \footnote \thanks
19716 \let \LTRfootnote \LTRthanks
19717 \let \RTLfootnote \RTLthanks
19718 {\LARGE \@title \par}%
19719 \vskip 1.5em%
19720 {\large
19721 \lineskip .5em%

```



```

19722 \begin{tabular}[t]{c}%
19723 \@author
19724 \end{tabular}\par}%
19725 \vskip 1em%
19726 {\large \@date}%
19727 \end{center}%
19728 \par
19729 \vskip 1.5em}
19730 \fi
19731 \IfPackageLoadedF{tocloft}{%
19732 \renewcommand*\l@part[2]{%
19733 \ifnum \c@tocdepth >-2\relax
19734 \addpenalty{-\@highpenalty}%
19735 \addvspace{2.25em \@plus\p@}%
19736 \setlength\@tempdima{3em}%
19737 \begingroup
19738 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19739 \parfillskip -\@pnumwidth
19740 {\leavevmode
19741 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19742 \nobreak
19743 \global\@nobreaktrue
19744 \everypar{\global\@nobreakfalse\everypar{}}%
19745 \endgroup
19746 \fi}
19747 \renewcommand*\l@chapter[2]{%
19748 \ifnum \c@tocdepth >\m@ne
19749 \addpenalty{-\@highpenalty}%
19750 \vskip 1.0em \@plus\p@
19751 \setlength\@tempdima{1.5em}%
19752 \begingroup
19753 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19754 \parfillskip -\@pnumwidth
19755 \leavevmode \bfseries
19756 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19757 \hskip -\if@RTL\rightskip\else\leftskip\fi
19758 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19759 \penalty\@highpenalty
19760 \endgroup
19761 \fi}
19762 }
19763 \renewcommand\left@footnoterule{%
19764 \kern-3\p@
19765 \hrule\@width.4\columnwidth
19766 \kern2.6\p@}
19767 \renewcommand\right@footnoterule{%
19768 \kern-3\p@
19769 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19770 \kern2.6\p@}
19771 \renewcommand\theequation
19772 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19773 \renewcommand \thefigure
19774 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19775 \renewcommand \thetable

```



```

19776      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19777 \renewcommand \thechapter {\@arabic\c@chapter}
19778 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
19779 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19780 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19781 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
19782 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
19783 \def\@makechapterhead#1{%
19784   \vspace*{50\p@}%
19785   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
19786     \ifnum \c@secnumdepth >\m@ne
19787       \huge\bfseries \@chapapp\space \thechapter
19788       \par\nobreak
19789       \vskip 20\p@
19790     \fi
19791     \interlinepenalty\@M
19792     \Huge \bfseries #1\par\nobreak
19793     \vskip 40\p@
19794   }}
19795 \def\@makeschapterhead#1{%
19796   \vspace*{50\p@}%
19797   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
19798     \normalfont
19799     \interlinepenalty\@M
19800     \Huge \bfseries #1\par\nobreak
19801     \vskip 40\p@
19802   }}
19803 \IfPackageLoadedF{natbib}{%
19804 \renewenvironment{thebibliography}[1]
19805   {\chapter*{\bibname}%
19806     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19807     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19808     \bidi@thebibliography@font@hook%
19809     \list{\@biblabel{\@arabic\c@enumiv}}%
19810       {\settowidth\labelwidth{\@biblabel{#1}}%
19811         \leftmargin\labelwidth
19812         \advance\leftmargin\labelsep
19813         \@openbib@code
19814         \usecounter{enumiv}%
19815         \let\p@enumiv\@empty
19816         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19817     \sloppy
19818     \clubpenalty4000
19819     \@clubpenalty \clubpenalty
19820     \widowpenalty4000%
19821     \sfcode\.\@m}
19822 {\def\@noitemerr
19823   {\@latex@warning{Empty `thebibliography' environment}}%
19824   \endlist}
19825 }

```

141 File rotating-xetex-bidi.def

```

19826 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]

```



```

19827 \def\end@rotfloat{%
19828   \end{minipage}\end{lrbox}%
19829   \stepcounter{r@tfl@t}%
19830   \rot@label{RF\ther@tfl@t}%
19831   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19832   \edef\@tempa{Adding sideways \@captype\space on page \R@@page\space}
19833   \rot@mess@toks\expandafter{\@tempa}
19834   \wd\rot@float@box\z@
19835   \ht\rot@float@box\z@
19836   \dp\rot@float@box\z@
19837   \vboxL to \textheight{%
19838     \setkeys{Grot}{units=360}%
19839     \if@rot@twoside
19840     \else
19841       \let\R@@page\rot@LR
19842     \fi
19843     \ifthenelse{\isodd{\R@@page}}{%
19844       \if@rot@twoside
19845         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19846       \fi
19847       \vfill
19848       \@@line{%
19849         \hskip\rotFPtop
19850         \rotatebox{90}{\box\rot@float@box}%
19851         \hskip\rotFPbot
19852       }%
19853     }{%
19854       \if@rot@twoside
19855         \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19856       \fi
19857       \@@line{%
19858         \hskip\rotFPbot
19859         \rotatebox{-90}{\box\rot@float@box}%
19860         \hskip\rotFPtop
19861       }%
19862       \vfill
19863     }%
19864     \rot@message{\the\rot@mess@toks}
19865   }%
19866   \end@float
19867 }
19868 \let\endsidewaysfigure\end@rotfloat
19869 \let\endsidewaystable\end@rotfloat
19870 \def\end@rotdblfloat{%
19871   \end{minipage}\end{lrbox}%
19872   \stepcounter{r@tfl@t}%
19873   \rot@label{RF\ther@tfl@t}%
19874   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19875   \edef\@tempa{Adding sideways \@captype\space on page \R@@page\space}
19876   \rot@mess@toks\expandafter{\@tempa}
19877   \@tempdima\ht\rot@float@box
19878   \advance\@tempdima by \dp\rot@float@box
19879   \wd\rot@float@box\z@
19880   \ht\rot@float@box\z@

```



```

19881 \dp\rot@float@box\z@
19882 \vboxL to \textheight{%
19883 \setkeys{Grot}{units=360}%
19884 \if@rot@twoside
19885 \else
19886 \let\R@@page\rot@LR
19887 \fi
19888 \ifthenelse{\isodd{\R@@page}}{%
19889 \ifrot@messages
19890 \if@rot@twoside
19891 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19892 \fi
19893 \fi
19894 \vfill
19895 \@@line{%
19896 \hskip\rotFPtop
19897 \rotatebox{90}{\box\rot@float@box}%
19898 \hskip\rotFPbot
19899 }%
19900 }{%
19901 \ifrot@messages
19902 \if@rot@twoside
19903 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19904 \fi
19905 \fi%
19906 \@@line{%
19907 \hskip\rotFPbot
19908 \rotatebox{-90}{\box\rot@float@box}%
19909 \hskip\rotFPtop
19910 }%
19911 \vfill
19912 }%
19913 \rot@message{\the\rot@mess@toks}%
19914 }%
19915 \end@dblfloat
19916 }
19917 \def\turn#1{%
19918 \Grot@setangle{#1}%
19919 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19920 \def\endturn{%
19921 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19922 \unskip\color@endbox
19923 \Grot@x\z@
19924 \Grot@y\z@
19925 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19926 }
19927 \def\rotate#1{%
19928 \Grot@setangle{#1}%
19929 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19930 \def\endrotate{%
19931 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19932 \unskip\color@endbox
19933 \Grot@x\z@
19934 \Grot@y\z@

```



```

19935 \wd0\z@\dp0\z@\ht0\z@
19936 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19937 }
19938 \def\turnbox#1#2{%
19939 \Grot@setangle{#1}%
19940 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
19941 \Grot@x\z@\Grot@y\z@
19942 \wd0\z@\dp0\z@\ht0\z@
19943 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19944 }
19945 \def\sideways{%
19946 \Grot@setangle{90}%
19947 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19948 \def\endsideways{%
19949 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19950 \unskip\color@endbox
19951 \Grot@x\z@
19952 \Grot@y\z@
19953 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19954 }

```

142 File scrartcl-xetex-bidi.def

```

19955 \ProvidesFile{scrartcl-xetex-bidi.def}[2025/09/20 v1.4 bidi adaptations for scrartcl class]
19956 \newcommand{\scr@saved@LTRfootnotetext}{}
19957 \newcommand{\scr@saved@RTLfootnotetext}{}
19958 \let\scr@saved@footnotetext\@footnotetext
19959 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
19960 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
19961 \renewcommand{\@footnotetext}[1]{%
19962 \scr@saved@footnotetext{#1}%
19963 \csname FN@mf@prepare\endcsname
19964 }
19965 \renewcommand{\@LTRfootnotetext}[1]{%
19966 \scr@saved@LTRfootnotetext{#1}%
19967 \csname FN@mf@prepare\endcsname
19968 }
19969 \renewcommand{\@RTLfootnotetext}[1]{%
19970 \scr@saved@RTLfootnotetext{#1}%
19971 \csname FN@mf@prepare\endcsname
19972 }
19973 \renewcommand\deffootnote[4][1]{%
19974 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
19975 \long\def\@makefn#1{%
19976 \ExecuteDoHook{footnote/text/begin}%
19977 \raggedfootnote
19978 \if@RTL
19979 \rightskip
19980 \else
19981 \leftskip
19982 \fi
19983 #2
19984 \l@addto@macro\@trivlist{%
19985 \ifnum\@listdepth=\@ne

```



```

19986         \if@RTL
19987             \advance\rightmargin #2\relax
19988         \else
19989             \advance\leftmargin #2\relax
19990         \fi
19991     \fi
19992 }%
19993 \parindent #3\noindent
19994 \IfArgIsEmpty{#1}{-}{%
19995     \hskip \dimexpr #1-#2\relax
19996 }%
19997 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
19998 \ExecuteDoHook{footnote/text/end}%
19999 }%
20000 \else
20001 \ClassInfo{\KOMAClassName}{%
20002     Using old \string\@makefnmark\space due to compatibility
20003     level\MessageBreak
20004     less than 3.22}%
20005 \long\def\@makefnmark##1{%
20006     \setlength{\@tempdimc}{#3}%
20007     \def\@tempa{#1}\ifx\@tempa\@empty
20008         \setpar{\@par
20009             \@tempdima = \hsize
20010             \addtolength{\@tempdima}{-#2}%
20011             \if@RTL
20012                 \parshape \@ne \z@ \@tempdima
20013             \else
20014                 \parshape \@ne #2 \@tempdima
20015             \fi}%
20016     \else
20017         \addtolength{\@tempdimc}{#2}%
20018         \addtolength{\@tempdimc}{-#1}%
20019         \setpar{\@par
20020             \@tempdima = \hsize
20021             \addtolength{\@tempdima}{-#1}%
20022             \@tempdimb = \hsize
20023             \addtolength{\@tempdimb}{-#2}%
20024             \if@RTL
20025                 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20026             \else
20027                 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20028             \fi
20029         }%
20030     \fi
20031     \par
20032     \parindent\@tempdimc\noindent
20033     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20034 }%
20035 \fi
20036 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20037 }
20038 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20039 \renewcommand*\left@footnoterule{%

```




```

20040 \normalsize\ftn@rule@test@values
20041 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20042 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20043 {\usekomafont{footnoterule}{%
20044     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20045 \kern 2.6\p@}
20046 \renewcommand*\right@footnoterule{%
20047     \normalsize\ftn@rule@test@values
20048     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20049     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20050     {\usekomafont{footnoterule}{%
20051         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
20052         \kern 2.6\p@}
20053 \renewcommand*\maketitle[1][1]{%
20054     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20055     \else
20056         \def\and{%
20057             \end{tabular}}%
20058             \hskip 1em \@plus.17fil%
20059             \begin{tabular}[t]{c}%
20060         }%
20061     \fi
20062     \if@titlepage
20063         \begin{titlepage}
20064             \setcounter{page}{%
20065                 #1%
20066             }%
20067             \if@titlepageiscoverpage
20068                 \edef\titlename@restore{%
20069                     \noexpand\endgroup
20070                     \noexpand\global\noexpand\@colht\the\@colht
20071                     \noexpand\global\noexpand\@colroom\the\@colroom
20072                     \noexpand\global\vsizet\the\vsizet
20073                     \noexpand\global\noexpand\@titlepageiscoverpagefalse
20074                     \noexpand\let\noexpand\titlename@restore\noexpand\relax
20075                 }%
20076                 \begingroup
20077                 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20078                 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20079                 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20080                 \textwidth=\dimexpr
20081                 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20082                 \textheight=\dimexpr
20083                 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20084                 \headheight=0pt
20085                 \headsep=0pt
20086                 \footskip=\baselineskip
20087                 \@colht=\textheight
20088                 \@colroom=\textheight
20089                 \vsizet=\textheight
20090                 \columnwidth=\textwidth
20091                 \hsize=\columnwidth
20092                 \linewidth=\hsize
20093     \else

```



```

20094         \let\tITLEPAGE@restore\relax
20095     \fi
20096     \let\footnotesize\small
20097     \let\right@footnoterule\relax
20098     \let\left@footnoterule\relax
20099     \let\textwidth@footnoterule\relax
20100     \let\footnote\thanks
20101     \let\LTRfootnote\LTRthanks
20102     \let\RTLfootnote\RTLthanks
20103     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20104     \let\@oldmakefnmark\@makefnmark
20105     \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20106     \ifx\@extratitle\@empty
20107         \ifx\@frontispiece\@empty
20108             \else
20109                 \if@twoside\mbox{}\next@tpage\fi
20110                 \noindent\@frontispiece\next@tdpage
20111             \fi
20112         \else
20113             \noindent\@extratitle
20114             \ifx\@frontispiece\@empty
20115                 \else
20116                     \next@tpage
20117                     \noindent\@frontispiece
20118                 \fi
20119                 \next@tdpage
20120             \fi
20121     \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20122     \ifx\@titlehead\@empty \else
20123         \begin{minipage}[t]{\textwidth}%
20124             \usekomafont{titlehead}{\@titlehead\par}%
20125         \end{minipage}\par
20126     \fi
20127     \null\vfill
20128     \begin{center}
20129         \ifx\@subject\@empty \else
20130             {\usekomafont{subject}{\@subject\par}}%
20131             \vskip 3em
20132         \fi
20133         {\usekomafont{title}{\huge \@title\par}}%
20134         \vskip 1em
20135         {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20136         \vskip 2em
20137         {%
20138             \usekomafont{author}{%
20139                 \lineskip 0.75em
20140                 \begin{tabular}[t]{c}
20141                     \@author
20142                 \end{tabular}\par
20143             }%
20144             }%
20145             \vskip 1.5em
20146             {\usekomafont{date}{\@date \par}}%
20147             \vskip \z@ \@plus3fill

```



```

20148     {\usekomafont{publishers}{\@publishers \par}}%
20149     \vskip 3em
20150 \end{center}\par
20151 \@thanks\global\let\@thanks\@empty
20152 \vfill\null
20153 \if@twoside
20154     \@tempwattrue
20155     \expandafter\ifnum \@nameuse{scr@v3.12}>\scr@compatibility\relax
20156     \else
20157         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20158             \@tempwafalse
20159         \fi\fi
20160     \fi
20161     \if@tempswa
20162         \next@tpage
20163         \begin{minipage}[t]{\textwidth}
20164             \@uppertitleback
20165         \end{minipage}\par
20166         \vfill
20167         \begin{minipage}[b]{\textwidth}
20168             \@lowertitleback
20169         \end{minipage}\par
20170         \@thanks\global\let\@thanks\@empty
20171     \fi
20172 \else
20173     \ifx\@uppertitleback\@empty\else
20174         \ClassWarning{\KOMAClassName}{%
20175             non empty \string\uppertitleback\space ignored
20176             by \string\maketitle\MessageBreak
20177             in `twoside=false' mode%
20178         }%
20179     \fi
20180     \ifx\@lowertitleback\@empty\else
20181         \ClassWarning{\KOMAClassName}{%
20182             non empty \string\lowertitleback\space ignored
20183             by \string\maketitle\MessageBreak
20184             in `twoside=false' mode%
20185         }%
20186     \fi
20187 \fi
20188 \ifx\@dedication\@empty
20189 \else
20190     \next@tdpage\null\vfill
20191     {\centering\usekomafont{dedication}{\@dedication \par}}%
20192     \vskip \z@ \@plus3fill
20193     \@thanks\global\let\@thanks\@empty
20194     \cleardoubleemptypage
20195 \fi
20196 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20197 \end{titlepage}
20198 \else
20199     \par
20200     \@tempcnta=%
20201     #1%

```



```

20202 \relax\ifnum \@tempcnta=1\else
20203 \ClassWarning{\KOMAClassName}{%
20204   Optional argument of \string\maketitle\space ignored\MessageBreak
20205   in `titlepage=false' mode%
20206 }%
20207 \fi
20208 \ifx \@uppertitleback \@empty\else
20209 \ClassWarning{\KOMAClassName}{%
20210   non empty \string\uppertitleback\space ignored
20211   by \string\maketitle\MessageBreak
20212   in `titlepage=false' mode%
20213 }%
20214 \fi
20215 \ifx \@lowertitleback \@empty\else
20216 \ClassWarning{\KOMAClassName}{%
20217   non empty \string\lowertitleback\space ignored
20218   by \string\maketitle\MessageBreak
20219   in `titlepage=false' mode%
20220 }%
20221 \fi
20222 \beginngroup
20223 \let\titlepage@restore\relax
20224 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20225 \let\@oldmakefnmark\@makefnmark
20226 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20227 \next@tdpage
20228 \if@twocolumn
20229 \ifnum \col@number=\@one
20230 \ifx \@extratitle \@empty
20231 \ifx \@frontispiece \@empty\else\if@twoside\mbox{}\fi\fi
20232 \else
20233 \@makeextratitle
20234 \fi
20235 \ifx \@frontispiece \@empty
20236 \ifx \@extratitle \@empty\else\next@tdpage\fi
20237 \else
20238 \next@tpage
20239 \@makefrontispiece
20240 \next@tdpage
20241 \fi
20242 \@maketitle
20243 \else
20244 \ifx \@extratitle \@empty
20245 \ifx \@frontispiece \@empty\else\if@twoside\mbox{}\fi\fi
20246 \else
20247 \twocolumn[\@makeextratitle]%
20248 \fi
20249 \ifx \@frontispiece \@empty
20250 \ifx \@extratitle \@empty\else\next@tdpage\fi
20251 \else
20252 \next@tpage
20253 \twocolumn[\@makefrontispiece]%
20254 \next@tdpage
20255 \fi

```



```

20256         \twocolumn[\@maketitle]%
20257     \fi
20258 \else
20259     \ifx\@extratitle\@empty
20260         \ifx\@frontispiece\@empty\else \mbox{}\fi
20261     \else
20262         \@makeextratitle
20263     \fi
20264     \ifx\@frontispiece\@empty
20265         \ifx\@extratitle\@empty\else\next@tdpage\fi
20266     \else
20267         \next@tpage
20268         \@makefrontispiece
20269         \next@tdpage
20270     \fi
20271     \@maketitle
20272 \fi
20273 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20274 \@thanks\global\let\@thanks\@empty
20275 \endgroup
20276 \fi
20277 \setcounter{footnote}{0}%
20278 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20279     \let\thanks\relax
20280     \let\LTRthanks\relax
20281     \let\RTLthanks\relax
20282     \let\maketitle\relax
20283     \let\@maketitle\relax
20284     \global\let\@thanks\@empty
20285     \global\let\@author\@empty
20286     \global\let\@date\@empty
20287     \global\let\@title\@empty
20288     \global\let\@subtitle\@empty
20289     \global\let\@extratitle\@empty
20290     \global\let\@frontispiece\@empty
20291     \global\let\@titlehead\@empty
20292     \global\let\@subject\@empty
20293     \global\let\@publishers\@empty
20294     \global\let\@uppertitleback\@empty
20295     \global\let\@lowertitleback\@empty
20296     \global\let\@dedication\@empty
20297     \global\let\author\relax
20298     \global\let\title\relax
20299     \global\let\extratitle\relax
20300     \global\let\titlehead\relax
20301     \global\let\subject\relax
20302     \global\let\publishers\relax
20303     \global\let\uppertitleback\relax
20304     \global\let\lowertitleback\relax
20305     \global\let\dedication\relax
20306     \global\let\date\relax
20307 \fi
20308 \global\let\and\relax
20309 }%

```



```

20310 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20311 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
20312 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
20313 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@section}
20314 \renewcommand*{\thesubsubsection}{%
20315   \thesubsection\@SepMark\@arabic\c@subsubsection
20316 }
20317 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20318 \renewcommand*{\thesubparagraph}{%
20319   \theparagraph\@SepMark\@arabic\c@subparagraph
20320 }
20321 \renewenvironment{thebibliography}[1]{%
20322   \if@bib@break@
20323     \bib@beginhook
20324   \else
20325     \bib@heading
20326     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
20327       \noindent\bibpreamble\par\nobreak
20328     \fi\fi
20329     \bib@beginhook
20330     \bib@before@hook
20331   \fi
20332   \renewcommand{\BreakBibliography}[1]{%
20333     \@bib@break
20334     \end{thebibliography}%
20335     \begingroup ##1\endgroup
20336     \begin{thebibliography}{#1}
20337   }%
20338   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20339   \bidi@thebibliography@font@hook%
20340   \list{%
20341     \@biblabel{\@arabic\c@enumiv}%
20342   }{%
20343     \settowidth\labelwidth{\@biblabel{#1}}%
20344     \leftmargin\labelwidth
20345     \advance\leftmargin\labelsep
20346     \@openbib@code
20347     \if@bib@break@
20348       \edef\@tempa{%
20349         \noexpand\usecounter{enumiv}%
20350         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
20351       }\@tempa
20352       \no@bib@break
20353     \else
20354       \usecounter{enumiv}%
20355     \fi
20356     \let\p@enumiv\@empty
20357     \renewcommand*\theenumiv{\@arabic\c@enumiv}%
20358   }%
20359   \sloppy\clubpenalty4000 \widowpenalty4000
20360   \sfcode`\.\=\@m
20361 }{%
20362   \if@bib@break@
20363     \def\@noitemerr{%

```



```

20364 \latex@warning{%
20365 \string\BreakBibliography\space at begin of `thebibliography'
20366 environment\MessageBreak
20367 or following \string\BreakBibliography}%
20368 }%
20369 \else
20370 \def\@noitemerr{%
20371 \latex@warning{%
20372 Empty `thebibliography' environment or
20373 \string\BreakBibliography\MessageBreak
20374 before end of `thebibliography' environment}%
20375 }%
20376 \fi
20377 \endlist
20378 \if@bib@break@
20379 \else
20380 \bib@after@hook
20381 \let\bib@before@hook\@empty
20382 \let\bib@after@hook\@empty
20383 \fi
20384 \bib@endhook
20385 }
20386 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
20387 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
20388 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
20389 \renewcommand\marginline[1]{%
20390 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
20391 }
20392 \renewcommand{\@@makecaption}[3]{%
20393 \cap@margin
20394 \begingroup
20395 \ifonlinecaptions
20396 \def\stepcounter##1{\advance\value{##1}\@ne}%
20397 \let\refstepcounter\stepcounter
20398 \let\label\@gobble
20399 \let\@footnotetext=\@gobble
20400 \let\@LTRfootnotetext=\@gobble
20401 \let\@RTLfootnotetext=\@gobble
20402 \let\hypertarget\@gobbletwo
20403 \edef\@xnewline{%
20404 \unexpanded{\ClassInfo{\KOMAClassName}{%
20405 Workaround for not recommended usage of \string\\ or\MessageBreak
20406 \string\newline in caption text
20407 }%
20408 \hspace*{\linewidth}\hspace{1sp}%
20409 }%
20410 \unexpanded\expandafter{\@xnewline}%
20411 }%
20412 \edef\@xcentercr{%
20413 \unexpanded{\ClassInfo{\KOMAClassName}{%
20414 Workaround for not recommended usage of \string\\ or\MessageBreak
20415 \string\newline in caption text
20416 }%
20417 \hspace*{\linewidth}\hspace{1sp}%

```



```

20418     }%
20419     \unexpanded\expandafter{\@xcentercr}%
20420   }%
20421   \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20422   \ifdim\@tempdima>\cap@width
20423     \aftergroup\scr@makemultilinecaption
20424   \else
20425     \aftergroup\scr@makesinglelinecaption
20426   \fi
20427 \else
20428   \aftergroup\scr@makemultilinecaption
20429 \fi
20430 \endgroup
20431 {#1}{#2}{#3}%
20432 }
20433 \renewcommand{\scr@makesinglelinecaption}[3]{%
20434   {%
20435     \usefontofkomafont{caption}{%
20436       \hb@xt@ \hsize{%
20437         \cap@left
20438         \if@RTL
20439           \beginR
20440           \fi
20441         \scr@makesinglelinecaption{#1}{#2}{#3}%
20442         \if@RTL
20443           \endR
20444         \fi
20445         \cap@right
20446       }\par\kern\dp\strutbox%
20447     }%
20448   }\kern-\dp\strutbox
20449 }
20450 \renewcommand{\@makecaption}[2]{%
20451   \if@captionabove
20452     \vskip\belowcaptionskip
20453   \else
20454     \vskip\abovecaptionskip
20455   \fi
20456   \@makecaption\@firstofone{#1}{#2}%
20457   \if@captionabove
20458     \vskip\abovecaptionskip
20459   \else
20460     \vskip\belowcaptionskip
20461   \fi
20462 }
20463
20464 \renewcommand{\scr@makesinglelinecaption}[3]{%
20465   {\usekomafont{caption}{\strut\ignorespaces
20466     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20467     \ignorespaces #3\unskip}}%
20468 }
20469
20470 \renewcommand{\scr@makemultilinecaption}[3]{%
20471   {%

```




```

20472 \usefontofkomafont{caption}{%
20473   \hb@xt@{hsize}{%
20474     \cap@left
20475     \vbox{hsize\cap@width\linewidthhsize
20476       \scr@ifundefinedorrelax{capttype}{%
20477         \ClassWarning{KOMAClassName}{%
20478           `string\caption' outside float.\MessageBreak
20479           Seems you are using `string\caption' outside a
20480           float.\MessageBreak
20481           Maybe you are using a package that uses
20482           `string\@makecaption'\MessageBreak
20483           without setting `string\@capttype' before.\MessageBreak
20484           Because I cannot detect the caption type, I'm using
20485           the empty one.%
20486         }%
20487         \let\@capttype\@empty
20488       }{}%
20489     \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
20490       \@nameuse{ragged\@capttype caption}%
20491     }%
20492   \ifdofullc@p
20493     \@hangfrom{%
20494       \strut
20495       \scr@smashdp{%
20496         #1{%
20497           \usekomafont{caption}{%
20498             \usekomafont{captionlabel}{#2\captionformat}%
20499           }%
20500         }%
20501       }%
20502     }%
20503     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
20504   \else
20505     \ifdim\cap@indent<\z@
20506       \strut
20507       #1{%
20508         {\usekomafont{caption}{%
20509           \usekomafont{captionlabel}{#2\captionformat}%
20510         }%
20511       }\par}%
20512       \noindent{\usekomafont{caption}{%
20513         \hspace*{-\cap@indent}#3\scr@endstrut
20514       }}\par}%
20515     \else
20516       \if@capbreak
20517         \strut
20518         #1{%
20519           {\usekomafont{caption}{%
20520             \usekomafont{captionlabel}{#2\captionformat}%
20521           }%
20522         }\par}%
20523         \noindent\@hangfrom{\hspace*{\cap@indent}}%
20524         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
20525       \else

```



```

20526         \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}{%
20527         {%
20528             \hspace{-\cap@indent}%
20529             \scr@smashdp{%
20530                 #1{\usekomafont{caption}}{%
20531                     \usekomafont{captionlabel}{#2\captionformat}}%
20532                 }%
20533             }%
20534         }%
20535         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
20536     }%
20537     \fi
20538 \fi
20539 \fi
20540 }%
20541 \cap@right
20542 }\par\kern\dp\strutbox
20543 }%
20544 }\kern-\dp\strutbox
20545 }
20546
20547 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20548     \if@komalongtable
20549         \renewcommand{\LT@makecaption}[3]{%
20550             \LT@mcol\LT@cols c{%
20551                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
20552                     \if@captionabove\else\vskip\belowcaptionskip\fi
20553                     \@makecaption{#1}{#2}{#3}}%
20554                     \endgraf
20555                     \if@captionabove\vskip\abovecaptionskip\fi
20556                 }%
20557                 \hss
20558             }%
20559         }%
20560     }%
20561     \renewcommand*{\scr@LT@array}{}%
20562     \let\scr@LT@array=\LT@array
20563     \renewcommand*{\LT@array}{%
20564         \def\@capttype{table}%
20565         \ifundefined{LTcapttype}{\fi}%
20566         \Ifstr{\LTcapttype}{\fi}{\let\@capttype\LTcapttype}%
20567     }%
20568     \csname tocbasic_if_caption_above:TF\endcsname
20569     {\@captionabovetrue}{\@captionabovefalse}%
20570     \def\captionabove{\noalign{\global\@captionabovetrue}%
20571         \LT@caption}%
20572     \def\captionbelow{\noalign{\global\@captionabovefalse}%
20573         \LT@caption}%
20574     \scr@LT@array
20575 }%
20576 \ClassInfo{\KOMAClassName}{%
20577     longtable captions redefined%
20578 }%
20579 \fi

```



```

20580 }
20581
20582 \CloneTOCEntryStyle{tocline}{part}
20583 \TOCEntryStyleStartInitCode{part}{%
20584   \expandafter\renewcommand%
20585   \csname scr@tso@#1@linefill\endcsname{\hfill}%
20586   \expandafter\renewcommand%
20587   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20588   \expandafter\renewcommand%
20589   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20590     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20591   \expandafter\renewcommand\expandafter*%
20592   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
20593 }
20594
20595 \CloneTOCEntryStyle{tocline}{section}
20596 \TOCEntryStyleStartInitCode{section}{%
20597   \expandafter\renewcommand%
20598   \csname scr@tso@#1@linefill\endcsname{%
20599     \if@sectionentrywithdots
20600       {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
20601     \else
20602       \hfill
20603     \fi
20604   }%
20605   \expandafter\renewcommand%
20606   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
20607   \expandafter\renewcommand%
20608   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont
20609   \expandafter\renewcommand\expandafter*%
20610   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
20611 }
20612
20613 \CloneTOCEntryStyle{tocline}{subsection}
20614 \TOCEntryStyleStartInitCode{subsection}{%
20615   \expandafter\renewcommand%
20616   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20617   \expandafter\renewcommand%
20618   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20619     {\normalfont\normalcolor ##1}}%
20620 }
20621
20622 \CloneTOCEntryStyle{subsection}{default}
20623
20624 \DeclareSectionCommand[%
20625   style=section,%
20626   level=1,%
20627   indent=\z@,%
20628   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
20629   afterskip=2.3ex \@plus .2ex,%
20630   tocstyle=section,%
20631   tocindent=0pt,%
20632   tocnumwidth=1.5em%
20633 ]{section}

```



```

20634 \DeclareSectionCommand[%
20635   style=part,%
20636   level=\z@,%
20637   tocstyle=part,%
20638   toplevel=\m@ne,%
20639   tocindent=\z@,%
20640   tocnumwidth=2em%
20641 ]{part}
20642 \DeclareSectionCommand[%
20643   style=section,%
20644   level=2,%
20645   indent=\z@,%
20646   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
20647   afterskip=1.5ex \@plus .2ex,%
20648   tocstyle=subsection,%
20649   tocindent=1.5em,%
20650   tocnumwidth=2.3em%
20651 ]{subsection}
20652 \DeclareSectionCommand[%
20653   style=section,%
20654   level=3,%
20655   indent=\z@,%
20656   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
20657   afterskip=1.5ex \@plus .2ex,%
20658   tocstyle=subsection,%
20659   tocindent=3.8em,%
20660   tocnumwidth=3.2em%
20661 ]{subsubsection}
20662 \DeclareSectionCommand[%
20663   style=section,%
20664   level=4,%
20665   indent=\z@,%
20666   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
20667   afterskip=-1em,%
20668   tocstyle=subsection,%
20669   tocindentfollows=subsubsection,%
20670   tocindent=7.0em,%
20671   tocnumwidth=4.1em%
20672 ]{paragraph}
20673 \DeclareSectionCommand[%
20674   style=section,%
20675   level=5,%
20676   indent=\scr@parindent,%
20677   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
20678   afterskip=-1em,%
20679   tocstyle=subsection,%
20680   tocindent=10em,%
20681   tocnumwidth=5em%
20682 ]{subparagraph}

```

143 File scrbook-xetex-bidi.def

```

20683 \ProvidesFile{scrbook-xetex-bidi.def}[2025/09/20 v1.4 bidi adaptations for scrbook class fo
20684 \newcommand{\scr@saved@LTRfootnotetext}{}

```



```

20685 \newcommand{\scr@saved@RTLfootnotetext}{}
20686 \let\scr@saved@footnotetext\@footnotetext
20687 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20688 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20689 \renewcommand{\@footnotetext}[1]{%
20690   \scr@saved@footnotetext{#1}%
20691   \csname FN@mf@prepare\endcsname
20692 }
20693 \renewcommand{\@LTRfootnotetext}[1]{%
20694   \scr@saved@LTRfootnotetext{#1}%
20695   \csname FN@mf@prepare\endcsname
20696 }
20697 \renewcommand{\@RTLfootnotetext}[1]{%
20698   \scr@saved@RTLfootnotetext{#1}%
20699   \csname FN@mf@prepare\endcsname
20700 }
20701 \renewcommand\deffootnote[4][1]{%
20702   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20703     \long\def\@makefnmark##1{%
20704       \ExecuteDoHook{footnote/text/begin}%
20705       \raggedfootnote
20706       \if@RTL
20707         \rightskip
20708       \else
20709         \leftskip
20710       \fi
20711       #2
20712       \l@addto@macro\@trivlist{%
20713         \ifnum\@listdepth=\@ne\advance
20714           \if@RTL
20715             \rightmargin #2\relax
20716           \else
20717             \leftmargin #2\relax
20718           \fi
20719         \fi
20720       }%
20721       \parindent #3\noindent
20722       \IfArgIsEmpty{#1}{}{}%
20723       \hskip \dimexpr #1-#2\relax
20724     }%
20725     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20726     \ExecuteDoHook{footnote/text/end}%
20727   }%
20728 \else
20729   \ClassInfo{\KOMAClassName}{%
20730     Using old \string\@makefnmark space due to compatibility
20731     level\MessageBreak
20732     less than 3.22}%
20733   \long\def\@makefnmark##1{%
20734     \setlength{\@tempdimc}{#3}%
20735     \def\@tempa{#1}\ifx\@tempa\@empty
20736       \setpar{\@par
20737         \@tempdima = \hsize
20738         \addtolength{\@tempdima}{-#2}%

```



```

20739         \if@RTL
20740             \parshape \@ne \z@ \@tempdima
20741         \else
20742             \parshape \@ne #2 \@tempdima
20743         \fi
20744     }%
20745 \else
20746     \addtolength{\@tempdimc}{#2}%
20747     \addtolength{\@tempdimc}{-#1}%
20748     \@setpar{\@par
20749         \@tempdima = \hsize
20750         \addtolength{\@tempdima}{-#1}%
20751         \@tempdimb = \hsize
20752         \addtolength{\@tempdimb}{-#2}%
20753         \if@RTL
20754             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20755         \else
20756             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20757         \fi
20758     }%
20759 \fi
20760 \par
20761 \parindent\@tempdimc\noindent
20762 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20763 }%
20764 \fi
20765 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20766 }
20767 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20768 \renewcommand*\left@footnoterule{%
20769     \normalsize\ftn@rule@test@values
20770     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20771     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20772     {\usekomafont{footnoterule}{%
20773         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20774     \kern 2.6\p@}
20775 \renewcommand*\right@footnoterule{%
20776     \normalsize\ftn@rule@test@values
20777     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20778     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20779     {\usekomafont{footnoterule}{%
20780         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
20781         \kern 2.6\p@}
20782     \renewcommand*\maketitle[1][1]{%
20783         \expandafter\ifnum \cscname scr@v@3.12\endcsname>\scr@compatibility\relax
20784         \else
20785             \def\and{%
20786                 \end{tabular}%
20787                 \hskip 1em \@plus.17fil%
20788                 \begin{tabular}[t]{c}%
20789             }%
20790         \fi
20791         \if@titlepage
20792             \begin{titlepage}

```



```

20793 \setcounter{page}{%
20794 #1%
20795 }%
20796 \if@titlepageiscoverpage
20797 \edef\titlepage@restore{%
20798 \noexpand\endgroup
20799 \noexpand\global\noexpand\@colht\the\@colht
20800 \noexpand\global\noexpand\@colroom\the\@colroom
20801 \noexpand\global\vsizethe\vsizethe
20802 \noexpand\global\noexpand\@titlepageiscoverpagefalse
20803 \noexpand\let\noexpand\titlepage@restore\noexpand\relax
20804 }%
20805 \begingroup
20806 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20807 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20808 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20809 \textwidth=\dimexpr
20810 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20811 \textheight=\dimexpr
20812 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20813 \headheight=0pt
20814 \headsep=0pt
20815 \footskip=\baselineskip
20816 \@colht=\textheight
20817 \@colroom=\textheight
20818 \vsizethe\textheight
20819 \columnwidth=\textwidth
20820 \hsize=\columnwidth
20821 \linewidth=\hsize
20822 \else
20823 \let\titlepage@restore\relax
20824 \fi
20825 \let\footnotesize\small
20826 \let\right@footnoterule\relax
20827 \let\left@footnoterule\relax
20828 \let\textwidth@footnoterule\relax
20829 \let\footnote\thanks
20830 \let\LTRfootnote\LTRthanks
20831 \let\RTLfootnote\RTLthanks
20832 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20833 \let\@oldmakefnmark\@makefnmark
20834 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20835 \ifx\@extratitle\@empty
20836 \ifx\@frontispiece\@empty
20837 \else
20838 \if@twoside\mbox{}\next@tpage\fi
20839 \noindent\@frontispiece\next@tdpage
20840 \fi
20841 \else
20842 \noindent\@extratitle
20843 \ifx\@frontispiece\@empty
20844 \else
20845 \next@tpage
20846 \noindent\@frontispiece

```



```

20847     \fi
20848     \next@tdpage
20849 \fi
20850 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20851 \ifx\@titlehead\@empty \else
20852   \begin{minipage}[t]{\textwidth}%
20853     \usekomafont{titlehead}{\@titlehead\par}%
20854   \end{minipage}\par
20855 \fi
20856 \null\vfill
20857 \begin{center}
20858   \ifx\@subject\@empty \else
20859     {\usekomafont{subject}{\@subject\par}}%
20860     \vskip 3em
20861   \fi
20862   {\usekomafont{title}{\huge \@title\par}}%
20863   \vskip 1em
20864   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20865   \vskip 2em
20866   {%
20867     \usekomafont{author}{%
20868       \lineskip 0.75em
20869       \begin{tabular}[t]{c}
20870         \@author
20871       \end{tabular}\par
20872     }%
20873   }%
20874   \vskip 1.5em
20875   {\usekomafont{date}{\@date \par}}%
20876   \vskip \z@ \@plus3fill
20877   {\usekomafont{publishers}{\@publishers \par}}%
20878   \vskip 3em
20879 \end{center}\par
20880 \@thanks\global\let\@thanks\@empty
20881 \vfill\null
20882 \if@twoside
20883   \@tempwattrue
20884   \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20885   \else
20886     \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20887       \@tempwafalse
20888     \fi\fi
20889   \fi
20890   \if@tempswa
20891     \next@tdpage
20892     \begin{minipage}[t]{\textwidth}
20893       \@uppertitleback
20894     \end{minipage}\par
20895     \vfill
20896     \begin{minipage}[b]{\textwidth}
20897       \@lowertitleback
20898     \end{minipage}\par
20899     \@thanks\global\let\@thanks\@empty
20900   \fi

```




```

20901 \else
20902 \ifx\@uppertitleback\@empty\else
20903 \ClassWarning{\KOMAClassName}{%
20904 non empty \string\uppertitleback\space ignored
20905 by \string\maketitle\MessageBreak
20906 in `twoside=false' mode%
20907 }%
20908 \fi
20909 \ifx\@lowertitleback\@empty\else
20910 \ClassWarning{\KOMAClassName}{%
20911 non empty \string\lowertitleback\space ignored
20912 by \string\maketitle\MessageBreak
20913 in `twoside=false' mode%
20914 }%
20915 \fi
20916 \fi
20917 \ifx\@dedication\@empty
20918 \else
20919 \next@tdpage\null\vfill
20920 {\centering\usekomafont{dedication}{\@dedication \par}}%
20921 \vskip \z@ \@plus3fill
20922 \@thanks\global\let\@thanks\@empty
20923 \cleardoubleemptypage
20924 \fi
20925 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20926 \end{titlepage}
20927 \else
20928 \par
20929 \@tempcnta=
20930 #1%
20931 \relax\ifnum\@tempcnta=1\else
20932 \ClassWarning{\KOMAClassName}{%
20933 Optional argument of \string\maketitle\space ignored\MessageBreak
20934 in `titlepage=false' mode%
20935 }%
20936 \fi
20937 \ifx\@uppertitleback\@empty\else
20938 \ClassWarning{\KOMAClassName}{%
20939 non empty \string\uppertitleback\space ignored
20940 by \string\maketitle\MessageBreak
20941 in `titlepage=false' mode%
20942 }%
20943 \fi
20944 \ifx\@lowertitleback\@empty\else
20945 \ClassWarning{\KOMAClassName}{%
20946 non empty \string\lowertitleback\space ignored
20947 by \string\maketitle\MessageBreak
20948 in `titlepage=false' mode%
20949 }%
20950 \fi
20951 \begingroup
20952 \let\titlepage@restore\relax
20953 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20954 \let\oldmakefnmark\makefnmark

```



```

20955 \renewcommand*{\@makefnmark}{\rlap{\oldmakefnmark}}%
20956 \next@tdpage
20957 \if@twocolumn
20958 \ifnum \col@number=\@ne
20959 \ifx\@extratitle\@empty
20960 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20961 \else
20962 \@makeextratitle
20963 \fi
20964 \ifx\@frontispiece\@empty
20965 \ifx\@extratitle\@empty\else\next@tdpage\fi
20966 \else
20967 \next@tpage
20968 \@makefrontispiece
20969 \next@tdpage
20970 \fi
20971 \@maketitle
20972 \else
20973 \ifx\@extratitle\@empty
20974 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20975 \else
20976 \twocolumn[\@makeextratitle]%
20977 \fi
20978 \ifx\@frontispiece\@empty
20979 \ifx\@extratitle\@empty\else\next@tdpage\fi
20980 \else
20981 \next@tpage
20982 \twocolumn[\@makefrontispiece]%
20983 \next@tdpage
20984 \fi
20985 \twocolumn[\@maketitle]%
20986 \fi
20987 \else
20988 \ifx\@extratitle\@empty
20989 \ifx\@frontispiece\@empty\else \mbox{}\fi
20990 \else
20991 \@makeextratitle
20992 \fi
20993 \ifx\@frontispiece\@empty
20994 \ifx\@extratitle\@empty\else\next@tdpage\fi
20995 \else
20996 \next@tpage
20997 \@makefrontispiece
20998 \next@tdpage
20999 \fi
21000 \@maketitle
21001 \fi
21002 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21003 \@thanks\global\let\@thanks\@empty
21004 \endgroup
21005 \fi
21006 \setcounter{footnote}{0}%
21007 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21008 \let\thanks\relax

```



```

21009 \let\LTRthanks\relax
21010 \let\RTLthanks\relax
21011 \let\maketitle\relax
21012 \let\@maketitle\relax
21013 \global\let\@thanks\@empty
21014 \global\let\@author\@empty
21015 \global\let\@date\@empty
21016 \global\let\@title\@empty
21017 \global\let\@subtitle\@empty
21018 \global\let\@extratitle\@empty
21019 \global\let\@frontispiece\@empty
21020 \global\let\@titlehead\@empty
21021 \global\let\@subject\@empty
21022 \global\let\@publishers\@empty
21023 \global\let\@uppertitleback\@empty
21024 \global\let\@lowertitleback\@empty
21025 \global\let\@dedication\@empty
21026 \global\let\author\relax
21027 \global\let\title\relax
21028 \global\let\extratitle\relax
21029 \global\let\titlehead\relax
21030 \global\let\subject\relax
21031 \global\let\publishers\relax
21032 \global\let\uppertitleback\relax
21033 \global\let\lowertitleback\relax
21034 \global\let\dedication\relax
21035 \global\let\date\relax
21036 \fi
21037 \global\let\and\relax
21038 }%
21039 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21040 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21041 \renewcommand*\thesection{%
21042 \expandafter\ifnum\scr@v@is>{2.97d}%
21043 \if@mainmatter\thechapter\@SepMark\fi
21044 \else
21045 \thechapter\@SepMark%
21046 \fi
21047 \@arabic\c@section
21048 }
21049 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21050 \renewcommand*{\thesubsubsection}{%
21051 \thesubsection\@SepMark\@arabic\c@subsubsection
21052 }
21053 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21054 \renewcommand*{\thesubparagraph}{%
21055 \theparagraph\@SepMark\@arabic\c@subparagraph
21056 }
21057 \expandafter\ifnum\scr@v@is<{2.97d}%
21058 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21059 \fi
21060 \expandafter\ifnum\scr@v@is<{2.97d}%
21061 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21062 \fi

```



```

21063 \renewcommand*{\theequation}{%
21064   \expandafter\ifnum\scr@v@is@gt{2.97d}%
21065     \if@mainmatter\thechapter\@SepMark\fi
21066   \else
21067     \thechapter\@SepMark%
21068   \fi
21069   \@arabic\c@equation
21070 }
21071 \renewenvironment{thebibliography}[1]{%
21072   \if@bib@break@
21073     \bib@beginhook
21074   \else
21075     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21076       \setchapterpreamble{\bibpreamble}%
21077     \fi\fi
21078     \bib@heading
21079     \bib@beginhook
21080     \bib@before@hook
21081   \fi
21082   \renewcommand{\BreakBibliography}[1]{%
21083     \@bib@break
21084     \end{thebibliography}%
21085     \begingroup ##1\endgroup
21086     \begin{thebibliography}{#1}
21087   }%
21088   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21089   \bidi@thebibliography@font@hook%
21090   \list{%
21091     \@biblabel{\@arabic\c@enumiv}%
21092   }{%
21093     \settowidth\labelwidth{\@biblabel{#1}}%
21094     \leftmargin\labelwidth
21095     \advance\leftmargin\labelsep
21096     \openbib@code
21097     \if@bib@break@
21098       \edef\@tempa{%
21099         \noexpand\usecounter{enumiv}%
21100         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21101       }\@tempa
21102       \no@bib@break
21103     \else
21104       \usecounter{enumiv}%
21105     \fi
21106     \let\p@enumiv\@empty
21107     \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21108   }%
21109   \sloppy\clubpenalty4000 \widowpenalty4000
21110   \sfcode`\.=\@m
21111 }{%
21112   \if@bib@break@
21113     \def\@noitemerr{%
21114       \@latex@warning{%
21115         \string\BreakBibliography\space at begin of `thebibliography'
21116         environment\MessageBreak

```



```

21117         or following \string\BreakBibliography}%
21118     }%
21119 \else
21120     \def\@noitemerr{%
21121         \@latex@warning{%
21122             Empty `thebibliography' environment or
21123             \string\BreakBibliography\MessageBreak
21124             before end of `thebibliography' environment}%
21125     }%
21126 \fi
21127 \endlist
21128 \if@bib@break@
21129 \else
21130     \bib@after@hook
21131     \let\bib@before@hook\@empty
21132     \let\bib@after@hook\@empty
21133 \fi
21134 \bib@endhook
21135 }
21136 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21137 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21138 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21139 \renewcommand\marginline[1]{%
21140     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
21141 }
21142 \renewcommand{\@@makecaption}[3]{%
21143     \cap@margin
21144     \begingroup
21145         \ifonlinecaptions
21146             \def\stepcounter##1{\advance\value{##1}\@ne}%
21147             \let\refstepcounter\stepcounter
21148             \let\label\@gobble
21149             \let\@footnotetext=\@gobble
21150             \let\@LTRfootnotetext=\@gobble
21151             \let\@RTLfootnotetext=\@gobble
21152             \let\hypertarget\@gobbletwo
21153             \edef\xnewline{%
21154                 \unexpanded{\ClassInfo{\KOMAClassName}{%
21155                     Workaround for not recommended usage of \string\\ or\MessageBreak
21156                     \string\newline in caption text
21157                 }}%
21158                 \hspace*{\linewidth}\hspace{1sp}%
21159             }%
21160             \unexpanded\expandafter{\@xnewline}%
21161         }%
21162         \edef\@xcentercr{%
21163             \unexpanded{\ClassInfo{\KOMAClassName}{%
21164                 Workaround for not recommended usage of \string\\ or\MessageBreak
21165                 \string\newline in caption text
21166             }}%
21167             \hspace*{\linewidth}\hspace{1sp}%
21168         }%
21169         \unexpanded\expandafter{\@xcentercr}%
21170     }%

```



```

21171 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21172 \ifdim\@tempdima>\cap@width
21173 \aftergroup\scr@makemultilinecaption
21174 \else
21175 \aftergroup\scr@makesinglelinecaption
21176 \fi
21177 \else
21178 \aftergroup\scr@makemultilinecaption
21179 \fi
21180 \endgroup
21181 {#1}{#2}{#3}%
21182 }
21183 \renewcommand{\scr@makesinglelinecaption}[3]{%
21184 {%
21185 \usefontofkomafont{caption}{%
21186 \hb@xt@{\hsize{%
21187 \cap@left
21188 \if@RTL
21189 \beginR
21190 \fi
21191 \scr@makesinglelinecaption{#1}{#2}{#3}%
21192 \if@RTL
21193 \endR
21194 \fi
21195 \cap@right
21196 }\par\kern\dp\strutbox%
21197 }%
21198 }\kern-\dp\strutbox
21199 }
21200 \renewcommand{\@makecaption}[2]{%
21201 \if@captionabove
21202 \vskip\belowcaptionskip
21203 \else
21204 \vskip\abovecaptionskip
21205 \fi
21206 \@makecaption\@firstofone{#1}{#2}%
21207 \if@captionabove
21208 \vskip\abovecaptionskip
21209 \else
21210 \vskip\belowcaptionskip
21211 \fi
21212 }
21213
21214 \renewcommand{\scr@makesinglelinecaption}[3]{%
21215 {\usekomafont{caption}{\strut\ignorespaces
21216 #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21217 \ignorespaces #3\unskip}}%
21218 }
21219
21220 \renewcommand{\scr@makemultilinecaption}[3]{%
21221 {%
21222 \usefontofkomafont{caption}{%
21223 \hb@xt@{\hsize{%
21224 \cap@left

```



```

21225 \vbox{\hsize\cap@width\linewidth\hsize
21226 \scr@ifundefinedorrelax{@capytype}{%
21227 \ClassWarning{\KOMAClassName}{%
21228 \string\caption' outside float.\MessageBreak
21229 Seems you are using \string\caption' outside a
21230 float.\MessageBreak
21231 Maybe you are using a package that uses
21232 \string\@makecaption'\MessageBreak
21233 without setting \string\capytype' before.\MessageBreak
21234 Because I cannot detect the caption type, I'm using\MessageBreak
21235 the empty one.%
21236 }%
21237 \let@capytype\empty
21238 }{}%
21239 \scr@ifundefinedorrelax{ragged@capytype caption}{\raggedcaption}{%
21240 \@nameuse{ragged@capytype caption}%
21241 }%
21242 \ifdofullc@p
21243 \hangfrom{%
21244 \strut
21245 \scr@smashdp{%
21246 #1{%
21247 \usekomafont{caption}{%
21248 \usekomafont{captionlabel}{#2\captionformat}%
21249 }%
21250 }%
21251 }%
21252 }%
21253 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21254 \else
21255 \ifdim\cap@indent<\z@
21256 \strut
21257 #1{%
21258 {\usekomafont{caption}{%
21259 \usekomafont{captionlabel}{#2\captionformat}%
21260 }%
21261 }\par}%
21262 \noindent{{\usekomafont{caption}{%
21263 \hspace*{-\cap@indent}#3\scr@endstrut
21264 }}\par}%
21265 \else
21266 \if@capbreak
21267 \strut
21268 #1{%
21269 {\usekomafont{caption}{%
21270 \usekomafont{captionlabel}{#2\captionformat}%
21271 }
21272 }\par}%
21273 \noindent\hangfrom{\hspace*{\cap@indent}}%
21274 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21275 \else
21276 \hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21277 {%
21278 \hspace{-\cap@indent}%

```



```

21279         \scr@smashdp{%
21280             #1{\usekomafont{caption}}{%
21281                 \usekomafont{captionlabel}{#2\captionformat}}%
21282             }%
21283         }%
21284     }%
21285     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21286 }%
21287 \fi
21288 \fi
21289 \fi
21290 }%
21291 \cap@right
21292 }\par\kern\dp\strutbox
21293 }%
21294 }\kern-\dp\strutbox
21295 }
21296
21297
21298 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21299     \if@komalongtable
21300         \renewcommand{LT@makecaption}[3]{%
21301             \LT@mcol\LT@cols c{%
21302                 \hbox to\z@{\hss\parbox[t]{linewidth{%
21303                     \if@captionabove\else\vskip\belowcaptionskip\fi
21304                     \@makecaption{#1}{#2}{#3}}%
21305                 \endgraf
21306                 \if@captionabove\vskip\abovecaptionskip\fi
21307             }%
21308             \hss
21309         }%
21310     }%
21311 }%
21312 \renewcommand*{\scr@LT@array}{}%
21313 \let\scr@LT@array=\LT@array
21314 \renewcommand*{\LT@array}{%
21315     \def\@captive{table}%
21316     \ifundefined{LTcaptive}}{}%
21317     \Ifstr{LTcaptive}{}{\let\@captive\LTcaptive}%
21318 }%
21319 \csname tocbasic_if_caption_above:TF\endcsname
21320 {\@captionabovetrue}{\@captionabovetrue}%
21321 \def\captionabove{\noalign{\global\@captionabovetrue}%
21322     \LT@caption}%
21323 \def\captionbelow{\noalign{\global\@captionabovetrue}%
21324     \LT@caption}%
21325 \scr@LT@array
21326 }%
21327 \ClassInfo{\KOMAClassName}{%
21328     longtable captions redefined%
21329 }%
21330 \fi
21331 }
21332

```




```

21333 \CloneTOCEntryStyle{tocline}{part}
21334 \TOCEntryStyleStartInitCode{part}{%
21335   \expandafter\renewcommand%
21336   \csname scr@tso@#1@linefill\endcsname{\hfill}%
21337   \expandafter\renewcommand%
21338   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
21339   \expandafter\renewcommand%
21340   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21341     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21342   \expandafter\renewcommand\expandafter*%
21343   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
21344 }
21345
21346 \CloneTOCEntryStyle{tocline}{chapter}
21347 \TOCEntryStyleStartInitCode{chapter}{%
21348   \expandafter\renewcommand%
21349   \csname scr@tso@#1@linefill\endcsname{%
21350     \if@chapterentrywithdots
21351       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21352     \else
21353       \hfill
21354     \fi
21355   }%
21356   \expandafter\renewcommand%
21357   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
21358   \expandafter\renewcommand%
21359   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21360     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21361   \expandafter\renewcommand\expandafter*%
21362   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
21363 }
21364
21365 \CloneTOCEntryStyle{tocline}{section}
21366 \TOCEntryStyleStartInitCode{section}{%
21367   \expandafter\renewcommand%
21368   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21369   \expandafter\renewcommand%
21370   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21371     {\normalfont\normalcolor ##1}}%
21372 }
21373
21374 \CloneTOCEntryStyle{section}{default}
21375
21376 \DeclareSectionCommand[%
21377   style=chapter,%
21378   level=\z@,%
21379   pagestyle=plain,%
21380   tocstyle=chapter,%
21381   tocindent=\z@,%
21382   tocnumwidth=1.5em%
21383 ]{chapter}
21384 \DeclareSectionCommand[%
21385   style=section,%
21386   level=1,%

```



```

21387 indent=\z@,%
21388 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
21389 afterskip=2.3ex \@plus .2ex,%
21390 tocstyle=section,%
21391 tocindentfollows=chapter,%
21392 tocindent=1.5em,%
21393 tocnumwidth=2.3em%
21394 ]{section}
21395 \DeclareSectionCommand[%
21396 style=part,%
21397 level=\m@ne,%
21398 pagestyle=plain,%
21399 tocstyle=part,%
21400 toplevel=\m@ne,%
21401 tocindent=\z@,%
21402 tocnumwidth=2em%
21403 ]{part}
21404 \DeclareSectionCommand[%
21405 style=section,%
21406 level=2,%
21407 indent=\z@,%
21408 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
21409 afterskip=1.5ex \@plus .2ex,%
21410 tocstyle=section,%
21411 tocindent=3.8em,%
21412 tocnumwidth=3.2em%
21413 ]{subsection}
21414 \DeclareSectionCommand[%
21415 style=section,%
21416 level=3,%
21417 indent=\z@,%
21418 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
21419 afterskip=1.5ex \@plus .2ex,%
21420 tocstyle=section,%
21421 tocindent=7.0em,%
21422 tocnumwidth=4.1em%
21423 ]{subsubsection}
21424 \DeclareSectionCommand[%
21425 style=section,%
21426 level=4,%
21427 indent=\z@,%
21428 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
21429 afterskip=-1em,%
21430 tocindentfollows=subsubsection,%
21431 tocstyle=section,%
21432 tocindent=10em,%
21433 tocnumwidth=5em%
21434 ]{paragraph}
21435 \DeclareSectionCommand[%
21436 style=section,%
21437 level=5,%
21438 indent=\scr@parindent,%
21439 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
21440 afterskip=-1em,%

```



```

21441   tocstyle=section,%
21442   tocindent=12em,%
21443   tocnumwidth=6em%
21444 ]{subparagraph}

```

144 File scrreprt-xetex-bidi.def

```

21445 \ProvidesFile{scrreprt-xetex-bidi.def}[2025/09/20 v1.4 bidi adaptations for scrreprt class
21446 \newcommand{\scr@saved@LTRfootnotetext}{}
21447 \newcommand{\scr@saved@RTLfootnotetext}{}
21448 \let\scr@saved@footnotetext\@footnotetext
21449 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21450 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21451 \renewcommand{\@footnotetext}[1]{%
21452   \scr@saved@footnotetext{#1}%
21453   \csname FN@mf@prepare\endcsname
21454 }
21455 \renewcommand{\@LTRfootnotetext}[1]{%
21456   \scr@saved@LTRfootnotetext{#1}%
21457   \csname FN@mf@prepare\endcsname
21458 }
21459 \renewcommand{\@RTLfootnotetext}[1]{%
21460   \scr@saved@RTLfootnotetext{#1}%
21461   \csname FN@mf@prepare\endcsname
21462 }
21463 \renewcommand\deffootnote[4][1]{%
21464   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21465     \long\def\@makefnmark##1{%
21466       \ExecuteDoHook{footnote/text/begin}%
21467       \raggedfootnote
21468       \if@RTL
21469         \rightskip
21470       \else
21471         \leftskip
21472       \fi
21473       #2
21474       \l@addto@macro\@trivlist{%
21475         \ifnum\@listdepth=\@ne
21476           \if@RTL
21477             \advance\rightmargin #2\relax
21478           \else
21479             \advance\leftmargin #2\relax
21480           \fi
21481         \fi
21482       }%
21483       \parindent #3\noindent
21484       \IfArgIsEmpty{#1}{}{
21485         \hskip \dimexpr #1-#2\relax
21486       }%
21487       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21488       \ExecuteDoHook{footnote/text/end}%
21489     }%
21490   \else
21491     \ClassInfo{\KOMAClassName}{%

```



```

21492     Using old \string\@makefnmark\space due to compatibility
21493     level\MessageBreak
21494     less than 3.22}%
21495 \long\def\@makefnmark##1{%
21496   \setlength{\@tempdimc}{#3}%
21497   \def\@tempa{#1}\ifx\@tempa\@empty
21498     \setpar{\@par
21499       \@tempdima = \hsize
21500       \addtolength{\@tempdima}{-#2}%
21501       \ifRTL
21502         \parshape \@ne \z@ \@tempdima
21503       \else
21504         \parshape \@ne #2 \@tempdima
21505       \fi
21506     }%
21507   \else
21508     \addtolength{\@tempdimc}{#2}%
21509     \addtolength{\@tempdimc}{-#1}%
21510     \setpar{\@par
21511       \@tempdima = \hsize
21512       \addtolength{\@tempdima}{-#1}%
21513       \@tempdimb = \hsize
21514       \addtolength{\@tempdimb}{-#2}%
21515       \ifRTL
21516         \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21517       \else
21518         \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21519       \fi
21520     }%
21521   \fi
21522   \par
21523   \parindent\@tempdimc\noindent
21524   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21525 }%
21526 \fi
21527 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21528 }
21529 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21530 \renewcommand*\left@footnoterule{%
21531   \normalsize\ftn@rule@test@values
21532   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21533   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21534   {\usekomafont{footnoterule}{%
21535     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21536   \kern 2.6\p@}
21537 \renewcommand*\right@footnoterule{%
21538   \normalsize\ftn@rule@test@values
21539   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21540   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21541   {\usekomafont{footnoterule}{%
21542     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
21543     \kern 2.6\p@}
21544   \renewcommand*\maketitle[1][1]{%
21545     \expandafter\ifnum \cscname scr@v03.12\endcsname>\scr@compatibility\relax

```



```

21546 \else
21547 \def\and{%
21548 \end{tabular}%
21549 \hskip 1em \@plus.17fil%
21550 \begin{tabular}[t]{c}%
21551 }%
21552 \fi
21553 \if@titlepage
21554 \begin{titlepage}
21555 \setcounter{page}{%
21556 #1%
21557 }%
21558 \if@titlepageiscoverpage
21559 \edef\titlepage@restore{%
21560 \noexpand\endgroup
21561 \noexpand\global\noexpand\@colht\the\@colht
21562 \noexpand\global\noexpand\@colroom\the\@colroom
21563 \noexpand\global\vsizethe\vsizethe
21564 \noexpand\global\noexpand\@titlepageiscoverpagefalse
21565 \noexpand\let\noexpand\titlepage@restore\noexpand\relax
21566 }%
21567 \begingroup
21568 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21569 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21570 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21571 \textwidth=\dimexpr
21572 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21573 \textheight=\dimexpr
21574 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21575 \headheight=0pt
21576 \headsep=0pt
21577 \footskip=\baselineskip
21578 \@colht=\textheight
21579 \@colroom=\textheight
21580 \vsizethe\textheight
21581 \columnwidth=\textwidth
21582 \hsizethe\columnwidth
21583 \linewidth=\hsizethe
21584 \else
21585 \let\titlepage@restore\relax
21586 \fi
21587 \let\footnotesize\small
21588 \let\right@footnoterule\relax
21589 \let\left@footnoterule\relax
21590 \let\textwidth@footnoterule\relax
21591 \let\footnote\thanks
21592 \let\LTRfootnote\LTRthanks
21593 \let\RTLfootnote\RTLthanks
21594 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21595 \let\@oldmakefnmark\@makefnmark
21596 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
21597 \ifx\@extratitle\@empty
21598 \ifx\@frontispiece\@empty
21599 \else

```



```

21600         \if@twoside\mbox{}\next@tpage\fi
21601         \noindent\@frontispiece\next@tdpage
21602     \fi
21603 \else
21604     \noindent\@extratitle
21605     \ifx\@frontispiece\@empty
21606     \else
21607         \next@tpage
21608         \noindent\@frontispiece
21609     \fi
21610     \next@tdpage
21611 \fi
21612 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21613 \ifx\@titlehead\@empty \else
21614     \begin{minipage}[t]{\textwidth}%
21615         \usekomafont{titlehead}{\@titlehead\par}%
21616     \end{minipage}\par
21617 \fi
21618 \null\vfill
21619 \begin{center}
21620     \ifx\@subject\@empty \else
21621         {\usekomafont{subject}{\@subject\par}}%
21622         \vskip 3em
21623     \fi
21624     {\usekomafont{title}{\huge \@title\par}}%
21625     \vskip 1em
21626     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21627     \vskip 2em
21628     {%
21629         \usekomafont{author}{%
21630             \lineskip 0.75em
21631             \begin{tabular}[t]{c}
21632                 \@author
21633             \end{tabular}\par
21634         }%
21635     }%
21636     \vskip 1.5em
21637     {\usekomafont{date}{\@date \par}}%
21638     \vskip \z@ \@plus3fill
21639     {\usekomafont{publishers}{\@publishers \par}}%
21640     \vskip 3em
21641 \end{center}\par
21642 \@thanks\global\let\@thanks\@empty
21643 \vfill\null
21644 \if@twoside
21645     \@tempswatrue
21646     \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21647     \else
21648         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21649             \@tempswafalse
21650         \fi\fi
21651     \fi
21652     \if@tempswa
21653         \next@tpage

```



```

21654         \begin{minipage}[t]{\textwidth}
21655             \@uppertitleback
21656         \end{minipage}\par
21657         \vfill
21658         \begin{minipage}[b]{\textwidth}
21659             \@lowertitleback
21660         \end{minipage}\par
21661         \@thanks\global\let\@thanks\@empty
21662     \fi
21663 \else
21664     \ifx\@uppertitleback\@empty\else
21665         \ClassWarning{\KOMAClassName}{%
21666             non empty \string\uppertitleback\space ignored
21667             by \string\maketitle\MessageBreak
21668             in `twoside=false' mode%
21669         }%
21670     \fi
21671     \ifx\@lowertitleback\@empty\else
21672         \ClassWarning{\KOMAClassName}{%
21673             non empty \string\lowertitleback\space ignored
21674             by \string\maketitle\MessageBreak
21675             in `twoside=false' mode%
21676         }%
21677     \fi
21678 \fi
21679 \ifx\@dedication\@empty
21680 \else
21681     \next@tdpage\null\vfill
21682     {\centering\usekomafont{dedication}{\@dedication \par}}%
21683     \vskip \z@ \@plus3fill
21684     \@thanks\global\let\@thanks\@empty
21685     \cleardoubleemptypage
21686 \fi
21687 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21688 \end{titlepage}
21689 \else
21690     \par
21691     \@tempcnta=%
21692     #1%
21693     \relax\ifnum\@tempcnta=1\else
21694         \ClassWarning{\KOMAClassName}{%
21695             Optional argument of \string\maketitle\space ignored\MessageBreak
21696             in `titlepage=false' mode%
21697         }%
21698     \fi
21699     \ifx\@uppertitleback\@empty\else
21700         \ClassWarning{\KOMAClassName}{%
21701             non empty \string\uppertitleback\space ignored
21702             by \string\maketitle\MessageBreak
21703             in `titlepage=false' mode%
21704         }%
21705     \fi
21706     \ifx\@lowertitleback\@empty\else
21707         \ClassWarning{\KOMAClassName}{%

```



```

21708         non empty \string\lowertitleback\space ignored
21709         by \string\maketitle\MessageBreak
21710         in `titlepage=false' mode%
21711     }%
21712 \fi
21713 \begingroup
21714     \let\titlepage@restore\relax
21715     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21716     \let\oldmakefnmark\@makefnmark
21717     \renewcommand*{\@makefnmark}{\rlap\oldmakefnmark}%
21718     \next@tdpage
21719     \if@twocolumn
21720         \ifnum \col@number=\@ne
21721             \ifx\@extratitle\@empty
21722                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21723             \else
21724                 \@makeextratitle
21725             \fi
21726             \ifx\@frontispiece\@empty
21727                 \ifx\@extratitle\@empty\else\next@tdpage\fi
21728             \else
21729                 \next@tpage
21730                 \@makefrontispiece
21731                 \next@tdpage
21732             \fi
21733             \@maketitle
21734         \else
21735             \ifx\@extratitle\@empty
21736                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21737             \else
21738                 \twocolumn[\@makeextratitle]%
21739             \fi
21740             \ifx\@frontispiece\@empty
21741                 \ifx\@extratitle\@empty\else\next@tdpage\fi
21742             \else
21743                 \next@tpage
21744                 \twocolumn[\@makefrontispiece]%
21745                 \next@tdpage
21746             \fi
21747             \twocolumn[\@maketitle]%
21748         \fi
21749     \else
21750         \ifx\@extratitle\@empty
21751             \ifx\@frontispiece\@empty\else \mbox{}\fi
21752         \else
21753             \@makeextratitle
21754         \fi
21755         \ifx\@frontispiece\@empty
21756             \ifx\@extratitle\@empty\else\next@tdpage\fi
21757         \else
21758             \next@tpage
21759             \@makefrontispiece
21760             \next@tdpage
21761         \fi

```




```

21762         \@maketitle
21763     \fi
21764     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21765     \@thanks\global\let\@thanks\@empty
21766 \endgroup
21767 \fi
21768 \setcounter{footnote}{0}%
21769 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21770     \let\thanks\relax
21771     \let\LTRthanks\relax
21772     \let\RTLthanks\relax
21773     \let\maketitle\relax
21774     \let\@maketitle\relax
21775     \global\let\@thanks\@empty
21776     \global\let\@author\@empty
21777     \global\let\@date\@empty
21778     \global\let\@title\@empty
21779     \global\let\@subtitle\@empty
21780     \global\let\@extratitle\@empty
21781     \global\let\@frontispiece\@empty
21782     \global\let\@titlehead\@empty
21783     \global\let\@subject\@empty
21784     \global\let\@publishers\@empty
21785     \global\let\@uppertitleback\@empty
21786     \global\let\@lowertitleback\@empty
21787     \global\let\@dedication\@empty
21788     \global\let\author\relax
21789     \global\let\title\relax
21790     \global\let\extratitle\relax
21791     \global\let\titlehead\relax
21792     \global\let\subject\relax
21793     \global\let\publishers\relax
21794     \global\let\uppertitleback\relax
21795     \global\let\lowertitleback\relax
21796     \global\let\dedication\relax
21797     \global\let\date\relax
21798 \fi
21799 \global\let\and\relax
21800 }%
21801 \def\raggedsection{\ifRTL\raggedleft\else\raggedright\fi}
21802 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21803 \renewcommand*\thesection{%
21804     \thechapter\@SepMark%
21805     \@arabic\c@section
21806 }
21807 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21808 \renewcommand*{\thesubsubsection}{%
21809     \thesubsection\@SepMark\@arabic\c@subsubsection
21810 }
21811 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21812 \renewcommand*{\thesubparagraph}{%
21813     \theparagraph\@SepMark\@arabic\c@subparagraph
21814 }
21815 \expandafter\ifnum\scr@v@is@le{2.97d}%

```



```

21816 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21817 \fi
21818 \expandafter\ifnum\scr@v@is@le{2.97d}%
21819 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21820 \fi
21821 \renewcommand*\theequation{%
21822 \thechapter\@SepMark%
21823 \@arabic\c@equation
21824 }
21825 \renewenvironment{thebibliography}[1]{%
21826 \if@bib@break@
21827 \bib@beginhook
21828 \else
21829 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21830 \setchapterpreamble{\bibpreamble}%
21831 \fi\fi
21832 \bib@heading
21833 \bib@beginhook
21834 \bib@before@hook
21835 \fi
21836 \renewcommand{\BreakBibliography}[1]{%
21837 \@bib@break
21838 \end{thebibliography}%
21839 \begingroup ##1\endgroup
21840 \begin{thebibliography}{#1}
21841 }%
21842 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21843 \bidi@thebibliography@font@hook%
21844 \list{%
21845 \@biblabel{\@arabic\c@enumiv}%
21846 }{%
21847 \settowidth\labelwidth{\@biblabel{#1}}%
21848 \leftmargin\labelwidth
21849 \advance\leftmargin\labelsep
21850 \@openbib@code
21851 \if@bib@break@
21852 \edef\@tempa{%
21853 \noexpand\usecounter{enumiv}%
21854 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21855 }\@tempa
21856 \no@bib@break
21857 \else
21858 \usecounter{enumiv}%
21859 \fi
21860 \let\p@enumiv\@empty
21861 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21862 }%
21863 \sloppy\clubpenalty4000 \widowpenalty4000
21864 \sfcode`\.\@m
21865 }{%
21866 \if@bib@break@
21867 \def\@noitemerr{%
21868 \@latex@warning{%
21869 \string\BreakBibliography\space at begin of `thebibliography'

```



```

21870         environment\MessageBreak
21871         or following \string\BreakBibliography}%
21872     }%
21873 \else
21874     \def\@noitemerr{%
21875         \@latex@warning{%
21876             Empty `thebibliography' environment or
21877             \string\BreakBibliography\MessageBreak
21878             before end of `thebibliography' environment}%
21879     }%
21880 \fi
21881 \endlist
21882 \if@bib@break@
21883 \else
21884     \bib@after@hook
21885     \let\bib@before@hook\@empty
21886     \let\bib@after@hook\@empty
21887 \fi
21888 \bib@endhook
21889 }
21890 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21891 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21892 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21893 \renewcommand\marginline[1]{%
21894     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
21895 }
21896 \renewcommand{\@makecaption}[3]{%
21897     \cap@margin
21898     \begingroup
21899     \ifonlinecaptions
21900         \def\stepcounter##1{\advance\value{##1}\@ne}%
21901         \let\refstepcounter\stepcounter
21902         \let\label\@gobble
21903         \let\@footnotetext=\@gobble
21904         \let\@LTRfootnotetext=\@gobble
21905         \let\@RTLfootnotetext=\@gobble
21906         \let\hypertarget\@gobbletwo
21907         \edef\xnewline{%
21908             \unexpanded{\ClassInfo{\KOMAClassName}{%
21909                 Workaround for not recommended usage of \string\\ or\MessageBreak
21910                 \string\newline in caption text
21911             }}%
21912             \hspace*{\linewidth}\hspace{1sp}%
21913         }%
21914         \unexpanded\expandafter{\xnewline}%
21915     }%
21916     \edef\@xcentercr{%
21917         \unexpanded{\ClassInfo{\KOMAClassName}{%
21918             Workaround for not recommended usage of \string\\ or\MessageBreak
21919             \string\newline in caption text
21920         }}%
21921         \hspace*{\linewidth}\hspace{1sp}%
21922     }%
21923     \unexpanded\expandafter{\@xcentercr}%

```



```

21924     }%
21925     \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21926     \ifdim\@tempdima>\cap@width
21927         \aftergroup\scr@makemultilinecaption
21928     \else
21929         \aftergroup\scr@makesinglelinecaption
21930     \fi
21931 \else
21932     \aftergroup\scr@makemultilinecaption
21933 \fi
21934 \endgroup
21935 {#1}{#2}{#3}%
21936 }
21937 \renewcommand{\scr@makesinglelinecaption}[3]{%
21938     {%
21939         \usefontofkomafont{caption}{%
21940             \hb@xt@ \hsiz{%
21941                 \cap@left
21942                 \if@RTL
21943                     \beginR
21944                     \fi
21945                 \scr@makesinglelinecaption{#1}{#2}{#3}%
21946                 \if@RTL
21947                     \endR
21948                 \fi
21949                 \cap@right
21950             }\par\kern\dp\strutbox%
21951         }%
21952     }\kern-\dp\strutbox
21953 }
21954 \renewcommand{\@makecaption}[2]{%
21955     \if@captionabove
21956         \vskip\belowcaptionskip
21957     \else
21958         \vskip\abovecaptionskip
21959     \fi
21960     \@makecaption\@firstofone{#1}{#2}%
21961     \if@captionabove
21962         \vskip\abovecaptionskip
21963     \else
21964         \vskip\belowcaptionskip
21965     \fi
21966 }
21967
21968 \renewcommand{\scr@makesinglelinecaption}[3]{%
21969     {\usekomafont{caption}{\strut\ignorespaces
21970         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21971     \ignorespaces #3\unskip}}%
21972 }
21973
21974 \renewcommand{\scr@makemultilinecaption}[3]{%
21975     {%
21976         \usefontofkomafont{caption}{%
21977             \hb@xt@ \hsiz{%

```



```

21978 \cap@left
21979 \vbox{\hsize\cap@width\linewidth\hsize
21980 \scr@ifundefinedorrelax{@capttype}{%
21981 \ClassWarning{\KOMAClassName}{%
21982 `\'string\caption' outside float.\MessageBreak
21983 Seems you are using `\'string\caption' outside a
21984 float.\MessageBreak
21985 Maybe you are using a package that uses
21986 `\'string\@makecaption'\MessageBreak
21987 without setting `\'string\@capttype' before.\MessageBreak
21988 Because I cannot detect the caption type, I'm using\MessageBreak
21989 the empty one.%
21990 }%
21991 \let\@capttype\empty
21992 }-}%
21993 \scr@ifundefinedorrelax{ragged\@capttype caption}{\raggedcaption}{%
21994 \@nameuse{ragged\@capttype caption}%
21995 }%
21996 \ifdofullc@p
21997 \@hangfrom{%
21998 \strut
21999 \scr@smashdp{%
22000 #1{%
22001 \usekomafont{caption}{%
22002 \usekomafont{captionlabel}{#2\captionformat}%
22003 }%
22004 }%
22005 }%
22006 }%
22007 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22008 \else
22009 \ifdim\cap@indent<\z@
22010 \strut
22011 #1{%
22012 {\usekomafont{caption}{%
22013 \usekomafont{captionlabel}{#2\captionformat}%
22014 }%
22015 }\par}%
22016 \noindent{{\usekomafont{caption}{%
22017 \hspace*{-\cap@indent}#3\scr@endstrut
22018 }}\par}%
22019 \else
22020 \if@capbreak
22021 \strut
22022 #1{%
22023 {\usekomafont{caption}{%
22024 \usekomafont{captionlabel}{#2\captionformat}%
22025 }%
22026 }\par}%
22027 \noindent\@hangfrom{\hspace*{\cap@indent}}%
22028 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22029 \else
22030 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22031 {%

```



```

22032         \hspace{-\cap@indent}%
22033         \scr@smashdp{%
22034             #1{\usekomafont{caption}}{%
22035                 \usekomafont{captionlabel}{#2\captionformat}}%
22036             }%
22037         }%
22038     }%
22039     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22040 }%
22041 \fi
22042 \fi
22043 \fi
22044 }%
22045 \cap@right
22046 }\par\kern\dp\strutbox
22047 }%
22048 }\kern-\dp\strutbox
22049 }
22050
22051
22052 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22053     \if@komalongtable
22054         \renewcommand{\LT@makecaption}[3]{%
22055             \LT@mc@col\LT@cols c{%
22056                 \hbox to\z@{\hss\parbox[t]{\linewidth{%
22057                     \if@captionabove\else\vskip\belowcaptionskip\fi
22058                     \@makecaption{#1}{#2}{#3}}%
22059                 }\endgraf
22060                 \if@captionabove\vskip\abovecaptionskip\fi
22061             }%
22062             \hss
22063         }%
22064     }%
22065 }%
22066 \renewcommand*{\scr@LT@array}{}%
22067 \let\scr@LT@array=\LT@array
22068 \renewcommand*{\LT@array}{%
22069     \def\@c@p@t@y@p@e{table}%
22070     \@ifundefined{LTc@p@t@y@p@e}{}{%
22071         \Ifstr{\LTc@p@t@y@p@e}{}{}{\let\@c@p@t@y@p@e\LTc@p@t@y@p@e}%
22072     }%
22073     \csname tocbasic_if_caption_above:TF\endcsname
22074     {\@captionabovetrue}{\@captionabovefalse}%
22075     \def\captionabove{\noalign{\global\@captionabovetrue}%
22076         \LT@caption}%
22077     \def\captionbelow{\noalign{\global\@captionabovefalse}%
22078         \LT@caption}%
22079     \scr@LT@array
22080 }%
22081 \ClassInfo{\KOMAClassName}{%
22082     longtable captions redefined%
22083 }%
22084 \fi
22085 }

```



```

22086
22087 \CloneTOCEntryStyle{tocline}{part}
22088 \TOCEntryStyleStartInitCode{part}{%
22089   \expandafter\renewcommand%
22090   \csname scr@tso@#1@linefill\endcsname{\hfill}%
22091   \expandafter\renewcommand%
22092   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22093   \expandafter\renewcommand%
22094   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22095     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22096   \expandafter\renewcommand\expandafter*%
22097   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
22098 }
22099
22100 \CloneTOCEntryStyle{tocline}{chapter}
22101 \TOCEntryStyleStartInitCode{chapter}{%
22102   \expandafter\renewcommand%
22103   \csname scr@tso@#1@linefill\endcsname{%
22104     \ifchapterentrywithdots
22105       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22106     \else
22107       \hfill
22108     \fi
22109   }%
22110   \expandafter\renewcommand%
22111   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22112   \expandafter\renewcommand%
22113   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22114     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22115   \expandafter\renewcommand\expandafter*%
22116   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
22117 }
22118
22119 \CloneTOCEntryStyle{tocline}{section}
22120 \TOCEntryStyleStartInitCode{section}{%
22121   \expandafter\renewcommand%
22122   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22123   \expandafter\renewcommand%
22124   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22125     {\normalfont\normalcolor ##1}}%
22126 }
22127
22128 \CloneTOCEntryStyle{section}{default}
22129
22130 \DeclareSectionCommand[%
22131   style=chapter,%
22132   level=\z@,%
22133   pagestyle=plain,%
22134   tocstyle=chapter,%
22135   tocindent=\z@,%
22136   tocnumwidth=1.5em%
22137 ]{chapter}
22138 \DeclareSectionCommand[%
22139   style=section,%

```



```

22140 level=1,%
22141 indent=\z@,%
22142 beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22143 afterskip=2.3ex \@plus .2ex,%
22144 tocstyle=section,%
22145 tocindentfollows=chapter,%
22146 tocindent=1.5em,%
22147 tocnumwidth=2.3em%
22148 ]{section}
22149 \DeclareSectionCommand[%
22150 style=part,%
22151 level=\m@ne,%
22152 pagestyle=plain,%
22153 tocstyle=part,%
22154 toplevel=\m@ne,%
22155 tocindent=\z@,%
22156 tocnumwidth=2em%
22157 ]{part}
22158 \DeclareSectionCommand[%
22159 style=section,%
22160 level=2,%
22161 indent=\z@,%
22162 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22163 afterskip=1.5ex \@plus .2ex,%
22164 tocstyle=section,%
22165 tocindent=3.8em,%
22166 tocnumwidth=3.2em%
22167 ]{subsection}
22168 \DeclareSectionCommand[%
22169 style=section,%
22170 level=3,%
22171 indent=\z@,%
22172 beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
22173 afterskip=1.5ex \@plus .2ex,%
22174 tocstyle=section,%
22175 tocindent=7.0em,%
22176 tocnumwidth=4.1em%
22177 ]{subsubsection}
22178 \DeclareSectionCommand[%
22179 style=section,%
22180 level=4,%
22181 indent=\z@,%
22182 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22183 afterskip=-1em,%
22184 tocindentfollows=subsubsection,%
22185 tocstyle=section,%
22186 tocindent=10em,%
22187 tocnumwidth=5em%
22188 ]{paragraph}
22189 \DeclareSectionCommand[%
22190 style=section,%
22191 level=5,%
22192 indent=\scr@parindent,%
22193 beforekip=3.25ex \@plus 1ex \@minus .2ex,%

```




```

22194  afterskip=-1em,%
22195  tostyle=section,%
22196  tocindent=12em,%
22197  tocnumwidth=6em%
22198 ]{subparagraph}

```

145 File sidecap-xetex-bidi.def

```

22199 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package
22200 \RequirePackage{ragged2e}
22201 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
22202   \isSC@ODD{{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
22203   \isSC@ODD{{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
22204 \renewcommand*{\SC@justify@caption}{\if@RTL%
22205   \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
22206   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
22207
22208 \@ifpackagewith{sidecap}{innercaption}{%
22209   \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
22210     \isSC@ODD{{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
22211     \renewcommand*{\SC@justify@caption}%
22212     \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
22213     \renewcommand*{\SC@FLOAT}[2]{%
22214       \isSC@ODD{{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
22215       \renewcommand*{\SC@justify@caption}%
22216       \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
22217 }{}
22218
22219 \@ifpackagewith{sidecap}{rightcaption}{%
22220   \if@RTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
22221   \def\SC@justify@caption{\RaggedLeft}\else%
22222   \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
22223   \def\SC@justify@caption{\RaggedRight}\fi%
22224 }{}
22225
22226 \@ifpackagewith{sidecap}{leftcaption}{%
22227   \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
22228   \def\SC@justify@caption{\RaggedRight}\else%
22229   \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
22230   \def\SC@justify@caption{\RaggedLeft}\fi%
22231 }{}

```

146 File soul-xetex-bidi.def

```

22232 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for Xe
22233 \long\def\SOUL@start#1{%
22234   \let\bidi@RTL@everypar\@empty
22235   \let\<\SOUL@lowerthan
22236   \let\>\empty
22237   \def\soulomit{\noexpand\soulomit}%
22238   \gdef\SOUL@eventuallyexhyphen#1{%
22239     \let\SOUL@soeventuallyskip\relax
22240     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@\font
22241     \@minus\fontdimen4\font

```



```

22242 \SOUL@ignorespacesfalse
22243 \leavevmode
22244 \SOUL@preamble
22245 \SOUL@lasttoken={}%
22246 \SOUL@word={}%
22247 \SOUL@minus\z@
22248 \SOUL@comma\z@
22249 \SOUL@apo\z@
22250 \SOUL@grave\z@
22251 \SOUL@do{#1}%
22252 \SOUL@postamble
22253 }}
22254 \def\SOUL@ulunderline#1{%
22255 \setbox\z@\hbox{#1}%
22256 \dimen@=\wd\z@
22257 \dimen@i=\SOUL@uloverlap
22258 \advance\dimen@2\dimen@i
22259 \if@RTL
22260 \unhcopy\z@
22261 \llap{%
22262 \null
22263 \kern-\dimen@i
22264 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22265 }%
22266 \else
22267 \rlap{%
22268 \null
22269 \kern-\dimen@i
22270 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22271 }%
22272 \unhcopy\z@
22273 \fi
22274 }}
22275 \def\bidi@SOUL@ulleaders{%
22276 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\
22277 }
22278 \def\SOUL@uleveryspace#1{%
22279 \if@RTL
22280 #1%
22281 \bidi@SOUL@ulleaders
22282 \hskip\spaceskip
22283 \else
22284 \SOUL@ulcolor{%
22285 #1%
22286 \SOUL@ulleaders
22287 \hskip\spaceskip
22288 }%
22289 \fi
22290 \null
22291 }

```

147 File stabular-xetex-bidi.def

22292 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]



```

22293 \def\@stabular{%
22294   \leavevmode \bgroup \if@RTLtab\beginR \fi
22295   \let\@acol\@tabacol
22296   \let\@classz\@tabclassz
22297   \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
22298 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
22299   \egroup \if@RTLtab\endR\fi\egroup}
22300 \expandafter \let \csname endstabular*\endcsname = \endstabular
22301 \def\@sarray[#1]#2{%
22302   \bgroup
22303   \setbox\@arstrutbox\hbox{%
22304     \vrule \@height\arraystretch\ht\strutbox
22305     \depth\arraystretch \dp\strutbox
22306     \width\z@}%
22307   \@mkpream{#2}%
22308   \edef\@preamble{%
22309     \ialign \noexpand\@halignto
22310       \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
22311   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22312   \let\@tabularnewline\\
22313   \let\@sharp##%
22314   \set@typeset@protect
22315   \lineskip\z@skip\baselineskip\z@skip
22316   \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
22317   \@preamble}

```

148 File subfigure-xetex-bidi.def

```

22318 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure pack
22319 \AtBeginDocument{%
22320 \let\p@subfigure=\thefigure
22321 \let\p@subtable=\thetable%
22322 }

```

149 File tabs-xetex-bidi.def

```

22323 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for
22324 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
22325
22326 \expandafter\let\csname endtabular*\endcsname=\endtabular
22327
22328 \def\endarray{\ifvmode\csname crr\endcsname % just do \crr if \ given
22329   \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
22330   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
22331
22332 \def\@array[#1]#2{% remember global variables to allow recursion:
22333   \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
22334     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
22335   \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
22336   \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
22337   \else \let\@tarlinesep\tablinesep \fi
22338   \divide\@tarlinesep\tw@ % half sep is applied to height & depth
22339   \let\@seesize\relax \let\@rememsize\relax \@mkpream{#2}%
22340   \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox

```



```

22341 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
22342 \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@@size
22343 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
22344 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
22345 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
22346 \let\protect\noexpand
22347 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
22348 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
22349 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22350 \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
22351 \bgroup \let\par\@empty
22352 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
22353 \advance\extrarulesep.5\arrayrulewidth
22354 \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
22355 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \box \fi\bgroup\fi
22356 \@preamble}

```

150 File tabularx-xetex-bidi.def

```

22357 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
22358 \def\TX@endtabularx{%
22359 \expandafter\expandafter\expandafter
22360 \TX@find@endtabularxa\csname end\TX@\endcsname
22361 \endtabularx\TX@\endtabularx\TX@find@endtabularxa
22362 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
22363 \let\verb\TX@verb
22364 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
22365 \edef\TX@ckpt{\cl@ckpt}%
22366 \let\@elt\relax
22367 \TX@old@table\maxdimen
22368 \TX@col@width\TX@target
22369 \global\TX@cols\@ne
22370 \TX@typeout@
22371 {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
22372 \TX@trial{\def\NC@rewrite@X{%
22373 \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
22374 \loop
22375 \TX@arith
22376 \ifTX@
22377 \TX@trial{}%
22378 \repeat
22379 {\let\@footnotetext\TX@fnttext\let\@xfootnotenext\TX@xftntext
22380 \let\@LTRfootnotetext\TX@LTRfnttext\let\@xLTRfootnotenext\TX@xLTRfnttext
22381 \let\@RTLfootnotetext\TX@RTLfnttext\let\@xRTLfootnotenext\TX@xRTLfnttext
22382 \csname tabular*\expandafter\endcsname\expandafter\TX@target
22383 \the\toks@
22384 \csname endtabular*\endcsname}%
22385 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
22386 \ifnum0=`{\fi}%
22387 \expandafter\expandafter\expandafter
22388 \TX@find@endtabularxbb
22389 \expandafter\end\expandafter{\TX@}%
22390 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
22391 }

```



```

22392
22393 \def\TX@trial#1{%
22394   \setbox\@tempboxa\hbox{%
22395     #1\relax
22396   \let\@footnotetext\TX@trial@ftn
22397   \let\@LTRfootnotetext\TX@trial@ftn
22398   \let\@RTLfootnotetext\TX@trial@ftn
22399   \let\TX@vwarn\@empty
22400   \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
22401   \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
22402   \def\write{\begingroup
22403     \def\let{\afterassignment\endgroup\toks@}%
22404     \afterassignment\let\count@}%
22405     \hbadness\@M
22406     \hfuzz\maxdimen
22407     \let\hbadness\@tempcnta
22408     \let\hfuzz\@tempdima
22409     \expandafter\tabular\the\toks@
22410     \endtabular}%
22411   \TX@ckpt
22412   \TX@typeout{\@spaces
22413     \expandafter\TX@align
22414     \the\wd\@tempboxa\space\space\space\space\space\@@
22415     \expandafter\TX@align
22416     \the\TX@col@width\space\space\space\space\space\@@
22417     \@spaces\the\TX@cols}}
22418
22419 \long\def\TX@LTRftntext#1{%
22420   \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
22421     [\the\csname c@\@mpfn\endcsname]]}%
22422   \global\TX@ftn\expandafter{\@tempa{#1}}}%
22423 \long\def\TX@xLTRftntext[#1]#2{%
22424   \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
22425
22426 \long\def\TX@RTLftntext#1{%
22427   \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
22428     [\the\csname c@\@mpfn\endcsname]]}%
22429   \global\TX@ftn\expandafter{\@tempa{#1}}}%
22430 \long\def\TX@xRTLftntext[#1]#2{%
22431   \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

151 File tabulary-xetex-bidi.def

```

22432 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
22433 \def\@testpach{\@chclass
22434   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
22435   \ifnum \@lastchclass=7 5 \else
22436   \ifnum \@lastchclass=8 \tw@ \else
22437   \ifnum \@lastchclass=9 \thr@@
22438   \else \z@
22439   \ifnum \@lastchclass = 10 \else
22440   \edef\@nextchar{\expandafter\string\@nextchar}%
22441   \@chnum
22442   \if \@nextchar c\z@ \else

```



```

22443 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
22444 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
22445 \if \@nextchar C7 \else
22446 \if \@nextchar L8 \else
22447 \if \@nextchar R9 \else
22448 \if \@nextchar J10 \else
22449 \z@ \@chclass
22450 \if \@nextchar |\@ne \else
22451 \if \@nextchar !6 \else
22452 \if \@nextchar @7 \else
22453 \if \@nextchar <8 \else
22454 \if \@nextchar >9 \else
22455 10
22456 \@chnum
22457 \if \@nextchar m\thr@@\else
22458 \if \@nextchar p4 \else
22459 \if \@nextchar b5 \else
22460 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi
22461 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

152 File tc-xetex-xetex-bidi.def

```

22462 \ProvidesFile{tc-xetex-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver]
22463 \def\@cliptoboxdim#1{%
22464   \setbox#1=\hbox{%
22465     \Gin@defaultbp\WIDTH{\wd#1}%
22466     \Gin@defaultbp\DEPTH{\dp#1}%
22467     \@tempdima\ht#1%
22468     \advance\@tempdima\dp#1%
22469     \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
22470     \beginL\special{pdf:bcontent }%
22471     \special{%
22472       pdf:literal direct
22473       0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
22474     }%
22475     \special{pdf:literal direct W }%
22476     \special{pdf:literal direct n }%
22477     \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
22478     \special{pdf:econtent }\endL%
22479   }%
22480 }

```

153 File tcolorbox-xetex-bidi.def

```

22481 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox package]
22482 \let\endtcbox@lrbox=\endminipage
22483 \let\endtcbox@savebox=\endtcbox@lrbox
22484
22485 \bidi@patchcmd{\tcboxvbox}{}%
22486 \let\@footnotetext\@mpfootnotetext%
22487 }{%
22488 \let\@footnotetext\@mpfootnotetext%
22489 \let\@LTRfootnotetext\@mpLTRfootnotetext%
22490 \let\@RTLfootnotetext\@mpRTLfootnotetext%

```



```

22491 }{}{}
22492
22493 \bidi@patchcmd{\endtcbox@vbox}{%
22494     \footnoterule%
22495 }{%
22496     \bidi@mpfootnoterule%
22497 }{}{}
22498 \bidi@apptocmd\tcb@icolorbox{%
22499     \@bidi@list@minipage@parboxfalse
22500 }{}{}

```

154 File thmbox-xetex-bidi.def

```

22501 \ProvidesFile{thmbox-xetex-bidi.def}[2025/09/04 v0.1 bidi adaptations for thmbox package fo
22502 \renewenvironment{thmbox}[2][]{%
22503     \parskip\z@%
22504     \setkeys{thmbox}{#1}%
22505     \ifx\thmbox@style S\else\ifx\thmbox@style M\else\ifx\thmbox@style L\else%
22506         \PackageWarning{thmbox}{\thmbox@style\ is not a valid style for
22507             \string\thmbox, using M}%
22508         \let\thmbox@style=M%
22509     \fi\fi\fi%
22510     \thmbox@head{{#2}}\nobreak\relax%
22511     \thmbox@dim=\hsize%
22512     \advance\thmbox@dim-\leftskip%
22513     \advance\thmbox@dim-\rightskip%
22514     \setbox\thmbox@box=\vbox\bgroup%
22515     \if@RTL
22516         \@hboxRconstructtrue
22517     \fi
22518     \hsize=\thmbox@dim%
22519     \advance\hsize -\thmbox@leftmargin%
22520     \advance\hsize -\thmbox@rightmargin%
22521     \textwidth=\hsize%
22522     \linewidth=\hsize%
22523     \vskip\thmbox@vskip%
22524     \begingroup{\endgroup%
22525         \vskip\thmbox@vskip%
22526     \egroup%
22527     \thmbox@start%
22528     \ifx\thmbox@style S\else\thmbox@tail\fi%
22529     \@endparenv}

```

155 File titlesec-xetex-bidi.def

```

22530 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec packag
22531 \renewcommand\filright{%
22532     \gdef\ttl@filleft##1{\hskip##1}%
22533     \gdef\ttl@filright##1{\hfill}%
22534     \let\\\@centercr
22535     \advance\rightskip\z@ \@plus 1fil
22536     \parfillskip\z@}
22537 \def\ttlhang#1#2#3#4#5#6#7#8{%
22538     \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%

```



```

22539 \setlength\leftskip{#6}%
22540 \setlength\rightskip{#7}%
22541 \interlinepenalty\@M
22542 \ttl@changecentercr
22543 \ttl@beginlongest
22544 #1{\ifhmode\ttl@hmode@error\fi
22545 \ttl@glcmds
22546 \parindent\z@
22547 \leavevmode
22548 \begingroup
22549 \ifttl@label
22550 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
22551 \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
22552 \llap{\box\z@}%
22553 \fi
22554 #4{#8}%
22555 \kern\z@\strut\@par
22556 \endgroup
22557 \nobreak\ttl@midlongest#5\@par}%
22558 \ttl@endlongest}

```

156 File titletoc-xetex-bidi.def

```

22559 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
22560 \renewcommand\filright{%
22561 \gdef\ttl@filleft##1{\hskip##1}%
22562 \gdef\ttl@filright##1{\hfill}%
22563 \let\\\@centercr
22564 \advance\rightskip\z@ \@plus 1fil
22565 \parfillskip\z@}
22566 \renewcommand\contentspush[1]{%
22567 \sbox\z@{#1}%
22568 \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
22569 \aftergroup\ttl@b
22570 \leavevmode\llap{\box\z@}}
22571 \def\ttl@outnoblock#1#2#3{%
22572 \begingroup
22573 \ifnum\ttl@b>\ttl@a
22574 \nobreak
22575 \else\ifnum\ttl@b<\ttl@a
22576 \addpenalty{\@secpenalty}%
22577 \else
22578 \addpenalty{\z@}%
22579 \fi\fi
22580 \ttl@contentsstretch
22581 \nobreak
22582 \ifcase#1\relax\else\interlinepenalty\@M\fi
22583 \parindent\z@
22584 \ifx\@nil#2%
22585 \PackageError{titletoc}{Unimplemented}%
22586 {The optional argument is currently mandatory}%
22587 \else
22588 \if@RTL\setlength\rightskip{#2}\else
22589 \setlength\leftskip{#2}\fi%

```




```

22590 \fi
22591 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
22592 \let\contentsmargin\ttl@margin
22593 \def\ttl@makeline##1{##1}%
22594 #3%
22595 \addtolength{\parfillskip}{-\ttl@corr}%
22596 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
22597 \let\ttl@leaders\leaders}
22598 \renewcommand\ttl@margin[2][\z@]{%
22599 \def\ttl@corr{#1}%
22600 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
22601 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
22602 \def\@pnumwidth{#2}}
22603 \let\ttl@savel@part\l@part
22604 \def\l@part{\ttl@lselect{part}}
22605
22606 \let\ttl@savel@chapter\l@chapter
22607 \def\l@chapter{\ttl@lselect{chapter}}

```

157 File tocbibind-xetex-bidi.def

```

22608 \ProvidesFile{tocabibind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibind pack
22609 \IfClassLoadedT{memoir}{\endinput}
22610 \if@dotocbib
22611 \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
22612 \renewcommand{\bibsection}{\tcb@bchapsec}
22613 \renewenvironment{thebibliography}[1]{%
22614 \bibsection
22615 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
22616 \renewenvironment{thebibitemlist}[1]{
22617 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22618 \bidi@thebibliography@font@hook%
22619 \list{\@biblabel{\@arabic\c@enumiv}}%
22620 {\settowidth\labelwidth{\@biblabel{#1}}%
22621 \leftmargin\labelwidth
22622 \advance\leftmargin\labelsep
22623 \@openbib@code
22624 \usecounter{enumiv}%
22625 \let\p@enumiv\@empty
22626 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
22627 \sloppy
22628 \clubpenalty4000
22629 \@clubpenalty \clubpenalty
22630 \widowpenalty4000%
22631 \sfcode`\.\@m}
22632 {\def\@noitemerr
22633 {\@latex@warning{Empty `thebibliography' environment}}%
22634 \endlist}
22635
22636 \ApplyPatchCodeToPackage{chapterbib}{%
22637 \@ifpackagewith{chapterbib}{sectionbib}%
22638 {\renewcommand{\sectionbib}[2]{}}%
22639 {}%
22640 }

```



```

22641
22642 \fi
22643 \if@inltxdoc\else
22644   \renewenvironment{theindex}%
22645     {\if@twocolumn
22646       \@restonecolfalse
22647     \else
22648       \@restonecoltrue
22649     \fi
22650   \if@bibchapter
22651     \if@donumindex
22652       \refstepcounter{chapter}
22653       \twocolumn[\vspace*{2\topskip}%
22654         \@makechapterhead{\indexname}}%
22655       \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
22656       \chaptermark{\indexname}
22657     \else
22658       \if@dotocind
22659         \twocolumn[\vspace*{2\topskip}%
22660           \@makeschapterhead{\indexname}}%
22661         \prw@mkboth{\indexname}
22662         \addcontentsline{toc}{chapter}{\indexname}
22663       \else
22664         \twocolumn[\vspace*{2\topskip}%
22665           \@makeschapterhead{\indexname}}%
22666         \prw@mkboth{\indexname}
22667       \fi
22668     \fi
22669   \else
22670     \if@donumindex
22671       \twocolumn[\vspace*{-1.5\topskip}%
22672         \@nameuse{@tocextra}{\indexname}}%
22673       \csname \@tocextra mark\endcsname{\indexname}
22674     \else
22675       \if@dotocind
22676         \twocolumn[\vspace*{-1.5\topskip}%
22677           \toc@headstar{\@tocextra}{\indexname}}%
22678         \prw@mkboth{\indexname}
22679         \addcontentsline{toc}{\@tocextra}{\indexname}
22680       \else
22681         \twocolumn[\vspace*{-1.5\topskip}%
22682           \toc@headstar{\@tocextra}{\indexname}}%
22683         \prw@mkboth{\indexname}
22684       \fi
22685     \fi
22686   \fi
22687   \thispagestyle{plain}\parindent\z@
22688   \parskip\z@ \@plus .3\p@\relax
22689   \let\item\@idxitem}
22690   {\if@restonecol\onecolumn\else\clearpage\fi}
22691 \fi

```

158 File tocloft-xetex-bidi.def



```

22692 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package]
22693 \IfClassLoadedT{memoir}{\endinput}
22694 \renewcommand{\cftpnumalign}{\if@RTL l\else r\fi}
22695 \let\cftdot\@SepMark
22696 \if@cfthaspart
22697 \renewcommand*{\l@part}[2]{
22698   \@cftdopartfalse
22699   \ifnum \c@tocdepth >-2\relax
22700     \if@cfthaschapter
22701       \@cftdoparttrue
22702     \fi
22703     \ifnum \c@tocdepth >\m@ne
22704       \if@cfthaschapter\else
22705         \@cftdoparttrue
22706       \fi
22707     \fi
22708   \fi
22709   \if@cftdopart
22710     \if@cfthaschapter
22711       \addpenalty{-\@highpenalty}
22712     \else
22713       \addpenalty\@secpenalty
22714     \fi
22715     \addvspace{\cftbeforepartskip}
22716     \begingroup
22717       {\if@RTL\righskip\else\leftskip\fi \cftpartindent\relax
22718        \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22719        \parfillskip -\if@RTL\leftskip\else\righskip\fi
22720        \parindent \cftpartindent\relax\@afterindenttrue
22721        \interlinepenalty\@M
22722        \leavevmode
22723        \@tempdima \cftpartnumwidth\relax
22724        \let\@cftbsnum \cftpartpresnum
22725        \let\@cftasnum \cftpartaftersnum
22726        \let\@cftasnumb \cftpartaftersnumb
22727        \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\r
22728        {\cftpartfont \cftpartpresnum #1}
22729        \cftpartfillnum{#2}}
22730     \nobreak
22731     \if@cfthaschapter
22732       \global\@nobreaktrue
22733       \everypar{\global\@nobreakfalse\everypar{}}
22734     \else
22735       \if@compatibility
22736         \global\@nobreaktrue
22737         \everypar{\global\@nobreakfalse\everypar{}}
22738       \fi
22739     \fi
22740   \endgroup
22741 \fi}
22742 \fi
22743 \if@cfthaschapter
22744 \renewcommand*{\l@chapter}[2]{
22745   \ifnum \c@tocdepth >\m@ne

```



```

22746 \addpenalty{-\@highpenalty}
22747 \vskip \cftbeforechapskip
22748 {\if@RTL\rightright\else\leftskip\fi \cftchapindent\relax
22749 \if@RTL\leftskip\else\rightright\fi \@tocrmarg
22750 \parfillskip -\if@RTL\leftskip\else\rightright\fi
22751 \parindent \cftchapindent\relax\@afterindenttrue
22752 \interlinepenalty\@M
22753 \leavevmode
22754 \@tempdima \cftchapnumwidth\relax
22755 \let\@cftbsnum \cftchappresnum
22756 \let\@cftasnum \cftchapaftersnum
22757 \let\@cftasnumb \cftchapaftersnumb
22758 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
22759 {\cftchapfont #1}\nobreak
22760 \cftchapfillnum{#2}}
22761 \fi}
22762 \fi
22763 \renewcommand*{\l@section}[2]{%
22764 \ifnum \c@tocdepth >\z@
22765 \if@cfthaschapter
22766 \vskip \cftbeforesecskip
22767 \else
22768 \addpenalty\@secpenalty
22769 \addvspace{\cftbeforesecskip}
22770 \fi
22771 {\if@RTL\rightright\else\leftskip\fi \cftsecindent\relax
22772 \if@RTL\leftskip\else\rightright\fi \@tocrmarg
22773 \parfillskip -\if@RTL\leftskip\else\rightright\fi
22774 \parindent \cftsecindent\relax\@afterindenttrue
22775 \interlinepenalty\@M
22776 \leavevmode
22777 \@tempdima \cftsecnumwidth\relax
22778 \let\@cftbsnum \cftsecpresnum
22779 \let\@cftasnum \cftsecaftersnum
22780 \let\@cftasnumb \cftsecaftersnumb
22781 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
22782 {\cftsecfont #1}\nobreak
22783 \cftsecfillnum{#2}}
22784 \fi}
22785 \renewcommand*{\l@subsection}[2]{%
22786 \ifnum \c@tocdepth >\@ne
22787 \vskip \cftbeforesubsecskip
22788 {\if@RTL\rightright\else\leftskip\fi \cftsubsecindent\relax
22789 \if@RTL\leftskip\else\rightright\fi \@tocrmarg
22790 \parfillskip -\if@RTL\leftskip\else\rightright\fi
22791 \parindent \cftsubsecindent\relax\@afterindenttrue
22792 \interlinepenalty\@M
22793 \leavevmode
22794 \@tempdima \cftsubsecnumwidth\relax
22795 \let\@cftbsnum \cftsubsecpresnum
22796 \let\@cftasnum \cftsubsecaftersnum
22797 \let\@cftasnumb \cftsubsecaftersnumb
22798 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
22799 {\cftsubsecfont #1}\nobreak

```



```

22800     \cftsubsecfillnum{#2}}
22801   \fi}
22802 \renewcommand*{\l@subsubsection}[2]{%
22803   \ifnum \c@tocdepth >\tw@
22804     \vskip \cftbeforesubsubsecskip
22805     {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
22806     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22807     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22808     \parindent \cftsubsubsecindent\relax\@afterindenttrue
22809     \interlinepenalty\@M
22810     \leavevmode
22811     \@tempdima \cftsubsubsecnumwidth\relax
22812     \let\@cftbsnum \cftsubsubsecpresnum
22813     \let\@cftasnum \cftsubsubsecaftersnum
22814     \let\@cftasnumb \cftsubsubsecaftersnumb
22815     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22816     {\cftsubsubsecfont #1}\nobreak
22817     \cftsubsubsecfillnum{#2}}
22818   \fi}
22819 \renewcommand*{\l@paragraph}[2]{%
22820   \ifnum \c@tocdepth >3\relax
22821     \vskip \cftbeforeparaskip
22822     {\if@RTL\righskip\else\leftskip\fi \cftparaindent\relax
22823     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22824     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22825     \parindent \cftparaindent\relax\@afterindenttrue
22826     \interlinepenalty\@M
22827     \leavevmode
22828     \@tempdima \cftparanumwidth\relax
22829     \let\@cftbsnum \cftparapresnum
22830     \let\@cftasnum \cftparaaftersnum
22831     \let\@cftasnumb \cftparaaftersnumb
22832     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22833     {\cftparafont #1}\nobreak
22834     \cftparafillnum{#2}}
22835   \fi}
22836 \renewcommand*{\l@subparagraph}[2]{%
22837   \ifnum \c@tocdepth >4\relax
22838     \vskip \cftbeforesubparaskip
22839     {\if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
22840     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22841     \parfillskip -\if@RTL\leftskip\else\righskip\fi
22842     \parindent \cftsubparaindent\relax\@afterindenttrue
22843     \interlinepenalty\@M
22844     \leavevmode
22845     \@tempdima \cftsubparanumwidth\relax
22846     \let\@cftbsnum \cftsubparapresnum
22847     \let\@cftasnum \cftsubparaaftersnum
22848     \let\@cftasnumb \cftsubparaaftersnumb
22849     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22850     {\cftsubparafont #1}\nobreak
22851     \cftsubparafillnum{#2}}
22852   \fi}
22853 \renewcommand*{\l@figure}[2]{%

```



```

22854 \ifnum \c@lofdepth >\z@
22855 \vskip \cftbeforefigskip
22856 {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
22857 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22858 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22859 \parindent \cftfigindent\relax\@afterindenttrue
22860 \interlinepenalty\@M
22861 \leavevmode
22862 \@tempdima \cftfignumwidth\relax
22863 \let\@cftbsnum \cftfigpresnum
22864 \let\@cftasnum \cftfigaftersnum
22865 \let\@cftasnumb \cftfigaftersnumb
22866 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22867 {\cftfigfont #1}\nobreak
22868 \cftfigfillnum{#2}}
22869 \fi
22870 }
22871 \renewcommand*{\l@table}[2]{%
22872 \ifnum\c@lotdepth >\z@
22873 \vskip \cftbeforetabskip
22874 {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
22875 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22876 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22877 \parindent \cfttabindent\relax\@afterindenttrue
22878 \interlinepenalty\@M
22879 \leavevmode
22880 \@tempdima \cfttabnumwidth\relax
22881 \let\@cftbsnum \cfttabpresnum
22882 \let\@cftasnum \cfttabaftersnum
22883 \let\@cftasnumb \cfttabaftersnumb
22884 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22885 {\cfttabfont #1}\nobreak
22886 \cfttabfillnum{#2}}
22887 \fi
22888 }
22889 \renewcommand{\@cftl@subfig}{
22890 \renewcommand*{\l@subfigure}[2]{%
22891 \ifnum \c@lofdepth > \toclevel@subfigure
22892 \vskip \cftbeforesubfigskip
22893 {\if@RTL\righskip\else\leftskip\fi \cftsubfigindent\relax
22894 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22895 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22896 \parindent \cftsubfigindent\relax\@afterindenttrue
22897 \interlinepenalty\@M
22898 \leavevmode
22899 \@tempdima \cftsubfignumwidth\relax
22900 \let\@cftbsnum \cftsubfigpresnum
22901 \let\@cftasnum \cftsubfigaftersnum
22902 \let\@cftasnumb \cftsubfigaftersnumb
22903 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22904 {\cftsubfigfont ##1}\nobreak
22905 \cftsubfigfillnum{##2}}
22906 \fi
22907 }

```



```

22908 }
22909 \renewcommand{\@cftl@subtab}{
22910 \renewcommand*{\l@subtable}[2]{%
22911 \ifnum \c@lotdepth > \toclevel@subtable
22912 \vskip \cftbeforesubtabskip
22913 {\if@RTL\righskip\else\leftskip\fi \cftsubtabindent\relax
22914 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22915 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22916 \parindent \cftsubtabindent\relax\@afterindenttrue
22917 \interlinepenalty\@M
22918 \leavevmode
22919 \@tempdima \cftsubtabnumwidth\relax
22920 \let\@cftbsnum \cftsubtabpresnum
22921 \let\@cftasnum \cftsubtabaftersnum
22922 \let\@cftasnumb \cftsubtabaftersnumb
22923 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22924 {\cftsubtabfont ##1}\nobreak
22925 \cftsubtabfillnum{##2}}
22926 \fi
22927 }
22928 }
22929 \renewcommand{\newlistentry}[4][\@empty]{%
22930 \ifundefined{c@#2}{% check & set the counter
22931 \ifx \@empty#1\relax
22932 \newcounter{#2}
22933 \else
22934 \ifundefined{c@#1}{\PackageWarning{tocloft}%
22935 {#1 has no counter for use as a `within'}
22936 \newcounter{#2}}%
22937 {\newcounter{#2}[#1}%
22938 \expandafter\edef\csname the#2\endcsname{%
22939 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
22940 \fi
22941 \setcounter{#2}{0}
22942 }
22943 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
22944
22945 \@namedef{l@#2}##1##2{%
22946 \ifnum \@nameuse{c@#3depth} > #4\relax
22947 \vskip \@nameuse{cftbefore#2skip}
22948 {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
22949 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22950 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22951 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
22952 \interlinepenalty\@M
22953 \leavevmode
22954 \@tempdima \@nameuse{cft#2numwidth}\relax
22955 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
22956 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
22957 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
22958 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22959 {\@nameuse{cft#2font}##1}\nobreak
22960 \@nameuse{cft#2fillnum}{##2}}
22961 \fi

```



```

22962 } % end of \l@#2
22963
22964 \expandafter\newlength\csname cftbefore#2skip\endcsname
22965 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
22966 \expandafter\newlength\csname cft#2indent\endcsname
22967 \expandafter\newlength\csname cft#2numwidth\endcsname
22968 \ifcase #4\relax % 0
22969 \setlength{\@nameuse{cft#2indent}}{0em}
22970 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
22971 \or % 1
22972 \setlength{\@nameuse{cft#2indent}}{1.5em}
22973 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
22974 \or % 2
22975 \setlength{\@nameuse{cft#2indent}}{3.8em}
22976 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
22977 \or % 3
22978 \setlength{\@nameuse{cft#2indent}}{7.0em}
22979 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
22980 \else % anything else
22981 \setlength{\@nameuse{cft#2indent}}{10.0em}
22982 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
22983 \fi
22984 \@namedef{cft#2font}{\normalfont}
22985 \@namedef{cft#2presnum}{\}
22986 \@namedef{cft#2aftersnum}{\}
22987 \@namedef{cft#2aftersnumb}{\}
22988 \@namedef{cft#2dotsep}{\cftdotsep}
22989 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
22990 \@namedef{cft#2pagefont}{\normalfont}
22991 \@namedef{cft#2afterpnum}{\}
22992 \@namedef{toclevel@#2}{#4}
22993 \@namedef{cft#2fillnum}##1{%
22994 {\@nameuse{cft#2leader}}\nobreak
22995 \hb@xt@{\@pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
22996 } % end \newlistentry
22997 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
22998 {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
22999 \advance\if@RTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
23000 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
23001 \textit{#1}\protect\par}}}}

```

159 File tocbasic-xetex-bidi.def

```

23002 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
23003 \bidi@undef\scr@dte@def@l@undottedtoctline
23004 \bidi@undef\scr@dte@undottedtoctline@init
23005 \DeclareTOCEntryStyle{undottedtoctline}{\%
23006 \DefineTOCEntryLengthOption{indent}{%
23007 {\scr@tso@}{@indent}{entry indent}}%
23008 \DefineTOCEntryLengthOption{numwidth}{%
23009 {\scr@tso@}{@numwidth}{entry number width}}%
23010 \@ifundefined{#1tocdepth}{\%
23011 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{\%
23012 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{\%

```




```

23013 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23014 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23015 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23016 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23017 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23018 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23019 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23020 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23021 \csname #1numdepth\endcsname
23022 }%
23023 }%
23024 }%
23025 }%
23026 }%
23027 }%
23028 }%
23029 }%
23030 }%
23031 }{}%
23032 \@ifundefined{scr@tso@#1@indent}{%
23033 \@ifundefined{scr@#1@tocindent}{%
23034 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23035 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23036 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23037 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23038 \scr@ifundefined{relax}{1@chapter}{%
23039 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23040 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23041 \Ifstr{#1}{subsubsection}{%
23042 \@namedef{scr@tso@#1@indent}{3.8em}%
23043 }{%
23044 \Ifstr{#1}{paragraph}{%
23045 \@namedef{scr@tso@#1@indent}{7em}%
23046 }{%
23047 \Ifstr{#1}{subparagraph}{%
23048 \@namedef{scr@tso@#1@indent}{10em}%
23049 }{%
23050 }%
23051 }%
23052 }%
23053 }%
23054 }%
23055 }{%
23056 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23057 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23058 \Ifstr{#1}{subsubsection}{%
23059 \@namedef{scr@tso@#1@indent}{7.0em}%
23060 }{%
23061 \Ifstr{#1}{paragraph}{%
23062 \@namedef{scr@tso@#1@indent}{10em}%
23063 }{%
23064 \Ifstr{#1}{subparagraph}{%
23065 \@namedef{scr@tso@#1@indent}{12em}%
23066 }{%

```



```

23067             }%
23068         }%
23069     }%
23070 }%
23071 }%
23072 }%
23073 }%
23074 }%
23075 }%
23076 }%
23077 }{%
23078     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23079 }%
23080 }{%}%
23081 \@ifundefined{scr@tso@#1@numwidth}{%
23082     \@ifundefined{scr@#1@tocnumwidth}{%
23083         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23084             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23085                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23086                     \scr@ifundefinedorrelax{chapter}{%
23087                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23088                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23089                                 \Ifstr{#1}{subsubsection}{%
23090                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
23091                                 }{%
23092                                     \Ifstr{#1}{paragraph}{%
23093                                         \@namedef{scr@tso@#1@numwidth}{4.1em}%
23094                                     }{%
23095                                         \Ifstr{#1}{subparagraph}{%
23096                                             \@namedef{scr@tso@#1@numwidth}{5m}%
23097                                         }{%
23098                                             }%
23099                                         }%
23100                                     }%
23101                                 }%
23102                             }%
23103                         }{%
23104                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23105                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23106                                     \Ifstr{#1}{subsubsection}{%
23107                                         \@namedef{scr@tso@#1@numwidth}{3.1em}%
23108                                     }{%
23109                                         \Ifstr{#1}{paragraph}{%
23110                                             \@namedef{scr@tso@#1@numwidth}{5em}%
23111                                         }{%
23112                                             \Ifstr{#1}{subparagraph}{%
23113                                                 \@namedef{scr@tso@#1@numwidth}{6em}%
23114                                             }{%
23115                                                 }%
23116                                             }%
23117                                         }%
23118                                     }%
23119                                 }%
23120                             }%

```



```

23121         }%
23122     }%
23123 }%
23124 }{%
23125     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23126 }%
23127 }{}%
23128 }]{%
23129     \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23130     \ifnum \@nameuse{#1tocdepth}<\@ne
23131         \scr@ifundefinedorrelax{chapter}{%
23132             \addpenalty\@secpenalty
23133             \addvspace{1.0em \@plus\p@}%
23134         }{%
23135             \addpenalty{-\@highpenalty}%
23136             \vskip 1.0em \@plus\p@
23137         }%
23138     \else
23139         \addpenalty\@secpenalty
23140         \addvspace{1.0em \@plus\p@}%
23141     \fi
23142     \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
23143     \begingroup
23144         \parindent \z@ \bidi@rightskip \@pnumwidth
23145         \parfillskip -\@pnumwidth
23146         \leavevmode
23147         \bfseries
23148         \advance\bidi@leftskip\@tempdima
23149         \If TocFeature{\@currentx}{noindent}{%
23150             \hskip -\bidi@leftskip
23151         }{%
23152             \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23153             \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
23154         }%
23155         ##1%
23156         \nobreak
23157         \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23158         \par
23159         \penalty\@highpenalty
23160     \endgroup
23161 \fi
23162 }
23163
23164 \bidi@undef\scr@dte@def@l@largetocline
23165 \bidi@undef\scr@dte@largetocline@init
23166 \DeclareTOCEntryStyle{largetocline}[{%
23167     \DefineTOCEntryLengthOption{indent}%
23168     {scr@tso@}{@indent}{entry indent}%
23169     \@ifundefined{#1tocdepth}{%
23170         \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23171             \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23172                 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23173                     \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23174                         \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%

```



```

23175 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23176 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23177 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23178 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23179 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23180 \csname #1numdepth\endcsname
23181 }%
23182 }%
23183 }%
23184 }%
23185 }%
23186 }%
23187 }%
23188 }%
23189 }%
23190 }{}%
23191 \@ifundefined{scr@tso@#1@indent}{%
23192 \@ifundefined{scr@#1@tocindent}{%
23193 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23194 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23195 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23196 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23197 \scr@ifundefinedorrelax{1@chapter}{%
23198 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23199 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23200 \Ifstr{#1}{subsubsection}{%
23201 \@namedef{scr@tso@#1@indent}{3.8em}%
23202 }{%
23203 \Ifstr{#1}{paragraph}{%
23204 \@namedef{scr@tso@#1@indent}{7em}%
23205 }{%
23206 \Ifstr{#1}{subparagraph}{%
23207 \@namedef{scr@tso@#1@indent}{10em}%
23208 }{%
23209 }%
23210 }%
23211 }%
23212 }%
23213 }%
23214 }{}%
23215 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23216 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23217 \Ifstr{#1}{subsubsection}{%
23218 \@namedef{scr@tso@#1@indent}{7.0em}%
23219 }{%
23220 \Ifstr{#1}{paragraph}{%
23221 \@namedef{scr@tso@#1@indent}{10em}%
23222 }{%
23223 \Ifstr{#1}{subparagraph}{%
23224 \@namedef{scr@tso@#1@indent}{12em}%
23225 }{%
23226 }%
23227 }%
23228 }%

```



```

23229             }%
23230         }%
23231     }%
23232 }%
23233 }%
23234 }%
23235 }%
23236 }{%
23237     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23238 }%
23239 }{%
23240 }]{%
23241     \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23242     \ifnum \@nameuse{#1tocdepth}<\@ne
23243         \scr@ifundefinedorrelax{chapter}{%
23244             \addpenalty\@secpenalty
23245             \addvspace{2.25em \@plus\p@}%
23246         }{%
23247             \addpenalty{-\@highpenalty}%
23248             \addvspace{2.25em \@plus\p@}%
23249         }%
23250     \else
23251         \addpenalty\@secpenalty
23252         \addvspace{2.25em \@plus\p@}%
23253     \fi
23254     \setlength\@tempdima{3em}%
23255     \begingroup
23256         \parindent \z@ \bidi@rightskip \@pnumwidth
23257         \parfillskip -\@pnumwidth
23258         \leavevmode
23259         \large
23260         \bfseries
23261         \Iftocfeature{\@currentx}{noindent}{%
23262         }{%
23263             \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23264         }%
23265         ##1%
23266         \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23267         \par
23268         \nobreak
23269         \ifnum 0=
23270             \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
23271             \global\@nobreaktrue
23272             \everypar{\global\@nobreakfalse\everypar{}}%
23273         \fi
23274     \endgroup
23275 \fi
23276 }
23277
23278 \renewcommand*{\scr@dte@tocline}[3]{%
23279     \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
23280     \else
23281         \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
23282         \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax

```



```

23283 \@nameuse{Ifscr@tso@#1@dynindent}{%
23284 \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
23285 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
23286 \else
23287 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
23288 \@for \reserved@a:=\reserved@a\do {%
23289 \scr@trim@spaces\reserved@a
23290 \ifx\reserved@a\@empty\else
23291 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
23292 }{%
23293 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
23294 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
23295 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
23296 \scr@ifundefinedorrelax
23297 {scr@dte@\reserved@a @lastmaxnumwidth}{%
23298 \advance\@tempdima
23299 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23300 }{%
23301 \advance\@tempdima
23302 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
23303 }%
23304 }{%
23305 \advance\@tempdima
23306 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23307 }%
23308 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
23309 \expandafter\edef\csname scr@tso@#1@indent\endcsname
23310 {\the\@tempdima}%
23311 \fi
23312 \fi
23313 }%
23314 \fi
23315 }%
23316 \fi
23317 }{}%
23318 {%
23319 \Iftocfeature{\@currentx}{noindent}{%
23320 \bidi@leftskip \z@
23321 }{%
23322 \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
23323 }%
23324 \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
23325 \parfillskip -\bidi@rightskip
23326 \@nameuse{Ifscr@tso@#1@raggedpage}{%
23327 \addtolength{\parfillskip}{\z@ \@plus 1fil}%
23328 }{}%
23329 \Iftocfeature{\@currentx}{noindent}{%
23330 \parindent \z@
23331 }{%
23332 \parindent \@nameuse{scr@tso@#1@indent}\relax
23333 }%
23334 \@afterindenttrue
23335 \interlinepenalty\M
23336 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright

```



```

23337     \addtolength\bidirightskip\@flushglue
23338 \else
23339     \def\reserved@a{\raggedright}%
23340     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23341     \addtolength\bidirightskip\@flushglue
23342 \else
23343     \renewcommand\reserved@a{\raggedright}%
23344     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23345     \addtolength\bidirightskip\@flushglue
23346 \fi
23347 \fi
23348 \fi
23349 \leavevmode
23350 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
23351 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
23352     \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}%
23353     \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
23354     \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
23355 \fi
23356 }%
23357 }{%
23358 \advance\bidileftskip \@tempdima
23359 \null\nobreak\hskip -\bidileftskip
23360 {%
23361     \usetocbasicnumberline
23362     \let\scr@dte@numberline@box\numberline@box
23363     \def\numberline@box##1{%
23364         \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
23365         \global\scr@dte@tocline@numberwidth
23366         \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
23367         \relax
23368         \ifdim \scr@dte@tocline@numberwidth
23369             >\@nameuse{scr@dte@#1@maxnumwidth}\relax
23370         \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
23371 \fi
23372 \@nameuse{Ifscr@tso@#1@dynnumwidth}{}%
23373     \ifdim \scr@dte@tocline@numberwidth
23374         >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
23375             +\@nameuse{scr@tso@#1@numsep}\relax\relax
23376     \PackageWarning{tocbasic}{%
23377         number width of #1 toc entries should be
23378         increased!\MessageBreak
23379         Currently used number width =
23380         \the\wd\scr@dte@tocline@numbox,\MessageBreak
23381         Wanted number separation
23382         \space\space\space =
23383         \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
23384         Reserved number width \space\space\space\space\space =
23385         \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
23386     }%
23387 \fi
23388 }%
23389 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
23390 \@nameuse{Ifscr@tso@#1@breakafternumber}{%

```



```

23391         {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
23392     }{}%
23393 }%
23394 {\@nameuse{scr@tso@#1@entryformat}}{%
23395     #2%
23396     \nobreak
23397     {%
23398         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
23399     \nobreak
2400     \expandafter\let\expandafter\scr@dte@pagenumberwidth
2401     \csname scr@tso@#1@pagenumberwidth\endcsname
2402     \@nameuse{scr@tso@#1@pagenumberbox}}{%
2403     \@nameuse{scr@tso@#1@pagenumberformat}}{#3}%
2404 }%
2405 }%
2406 }}\@par
2407 }%
2408 }%
2409 \tocbasic@SetPenaltyByTOCLevel{#1}%
2410 \fi
2411 }
2412
2413
2414 \bidi@undef\scr@dte@def@l@tocline
2415 \bidi@undef\scr@dte@tocline@init
2416 \DeclareTOCEntryStyle{tocline}[{%
2417     \DefineTOCEntryLengthOption{beforeskip}%
2418     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
2419     \DefineTOCEntryIfOption{breakafternumber}%
2420     {scr@tso@}{@breakafternumber}{line break after number flag}%
2421     \DefineTOCEntryIfOption{dynnumwidth}%
2422     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
2423     \DefineTOCEntryListOption{indentfollows}%
2424     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
2425     \DefineTOCEntryIfOption{dynindent}%
2426     {scr@tso@}{@dynindent}{dynamic indent width flag}%
2427     \DefineTOCEntryCommandOption{entryformat}%
2428     {scr@tso@}{@entryformat}[1]{entry format}%
2429     \DefineTOCEntryCommandOption{entrynumberformat}%
2430     {scr@tso@}{@numberformat}[1]{entry number format}%
2431     \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
2432     {scr@tso@}{@linefill}{filling between text and page number}%
2433     \DefineTOCEntryLengthOption{numsep}%
2434     {scr@tso@}{@numsep}{entry number separation}%
2435     \DefineTOCEntryCommandOption{onstarthigherlevel}%
2436     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
2437     \DefineTOCEntryCommandOption{onstartlowerlevel}%
2438     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
2439     \DefineTOCEntryCommandOption{onstartsamelevel}%
2440     {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
2441     \DefineTOCEntryCommandOption{pagenumberbox}%
2442     {scr@tso@}{@pagenumberbox}[1]{page number box}%
2443     \DefineTOCEntryCommandOption{pagenumberformat}%
2444     {scr@tso@}{@pagenumberformat}[1]{page number format}%

```




```

23445 \DefineTOCEntryLengthOption{pagenumberwidth}%
23446 {scr@tso@}{@pagenumberwidth}{width of page number box}%
23447 \DefineTOCEntryLengthOption{rightindent}%
23448 {scr@tso@}{@rightindent}{entry's text right indent}%
23449 \DefineTOCEntryOption{raggedentrytext}[true]{%
23450 \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
23451 \ifx\FamilyKeyState\FamilyKeyStateProcessed
23452 \if@tempswa
23453 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23454 \raggedright
23455 \else
23456 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23457 \relax
23458 \fi
23459 \fi
23460 }%
23461 \DefineTOCEntryIfOption{raggedpagenumber}%
23462 {scr@tso@}{@raggedpage}{page number ragged flag}%
23463 \DefineTOCEntryLengthOption{indent}%
23464 {scr@tso@}{@indent}{entry indent}%
23465 \DefineTOCEntryLengthOption{numwidth}%
23466 {scr@tso@}{@numwidth}{entry number width}%
23467 \scr@ifundefinedorrelax{#1tocdepth}{%
23468 \Ifstrstart{#1}{sub}{%
23469 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
23470 \expandafter\edef\csname #1tocdepth\endcsname{%
23471 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
23472 }%
23473 }%
23474 }{}%
23475 }{}%
23476 \@ifundefined{#1tocdepth}{%
23477 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23478 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23479 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23480 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23481 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23482 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23483 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23484 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23485 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23486 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23487 \csname #1numdepth\endcsname
23488 }%
23489 }%
23490 }%
23491 }%
23492 }%
23493 }%
23494 }%
23495 }%
23496 }%
23497 }{}%
23498 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%

```



```

23499 \@ifundefined{scr@#1@tocindent}{%
23500 \Ifstrstart{#1}{sub}{%
23501 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
23502 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%}{%
23503 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23504 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23505 \relax
23506 }%
23507 }%
23508 }{%
23509 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23510 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23511 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
23512 \relax
23513 }%
23514 }{%
23515 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23516 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
23517 +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23518 \relax
23519 }%
23520 }%
23521 }%
23522 }{}%
23523 }{%
23524 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23525 }%
23526 }{}%
23527 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
23528 \Ifstrstart{#1}{sub}{%
23529 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
23530 \namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23531 }{%
23532 \expandafter\let
23533 \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
23534 \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
23535 }%
23536 }{%
23537 \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23538 }%
23539 }{}%
23540 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
23541 \Ifstrstart{#1}{sub}{%
23542 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
23543 \namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23544 }{%
23545 \expandafter\let
23546 \csname scr@tso@#1@rightindent\expandafter\endcsname
23547 \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
23548 }%
23549 }{%
23550 \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23551 }%
23552 }{}%

```



```

23553 \@ifundefined{scr@tso@#1@indent}{%
23554   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23555     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23556       \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23557         \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23558           \scr@ifundefinedorrelax{1@chapter}{%
23559             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23560               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23561                 \Ifstr{#1}{subsubsection}{%
23562                   \@namedef{scr@tso@#1@indent}{3.8em}%
23563                 }{%
23564                   \Ifstr{#1}{paragraph}{%
23565                     \@namedef{scr@tso@#1@indent}{7em}%
23566                   }{%
23567                     \Ifstr{#1}{subparagraph}{%
23568                       \@namedef{scr@tso@#1@indent}{10em}%
23569                     }{%
23570                       }%
23571                     }%
23572                   }%
23573                 }%
23574               }%
23575             }{%
23576               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23577                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23578                   \Ifstr{#1}{subsubsection}{%
23579                     \@namedef{scr@tso@#1@indent}{7.0em}%
23580                   }{%
23581                     \Ifstr{#1}{paragraph}{%
23582                       \@namedef{scr@tso@#1@indent}{10em}%
23583                     }{%
23584                       \Ifstr{#1}{subparagraph}{%
23585                         \@namedef{scr@tso@#1@indent}{12em}%
23586                       }{%
23587                         }%
23588                       }%
23589                     }%
23590                   }%
23591                 }%
23592               }%
23593             }%
23594           }%
23595         }%
23596       }%
23597     }{%
23598       \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
23599         \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
23600           \Ifstrstart{#1}{sub}{%
23601             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23602               \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
23603                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23604                   +.9em%
23605               }
23606             \relax
23607           }%

```



```

23607         }%
23608     }{}%
23609 }{%
23610     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23611 }%
23612 }{}%
23613 \@ifundefined{scr@tso@#1@numwidth}{%
23614     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23615         \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23616             \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23617                 \scr@ifundefinedorrelax{chapter}{%
23618                     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23619                         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23620                             \Ifstr{#1}{subsubsection}{%
23621                                 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23622                             }{%
23623                                 \Ifstr{#1}{paragraph}{%
23624                                     \@namedef{scr@tso@#1@numwidth}{4.1em}%
23625                                 }{%
23626                                     \Ifstr{#1}{subparagraph}{%
23627                                         \@namedef{scr@tso@#1@numwidth}{5em}%
23628                                     }{%
23629                                         }%
23630                                     }%
23631                                 }%
23632                             }%
23633                         }%
23634                     }{%
23635                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23636                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23637                                 \Ifstr{#1}{subsubsection}{%
23638                                     \@namedef{scr@tso@#1@numwidth}{3.1em}%
23639                                 }{%
23640                                     \Ifstr{#1}{paragraph}{%
23641                                         \@namedef{scr@tso@#1@numwidth}{5em}%
23642                                     }{%
23643                                         \Ifstr{#1}{subparagraph}{%
23644                                             \@namedef{scr@tso@#1@numwidth}{6em}%
23645                                         }{%
23646                                             }%
23647                                         }%
23648                                     }%
23649                                 }%
23650                             }%
23651                         }%
23652                     }%
23653                 }%
23654             }%
23655         }{}%
23656     \expandafter\renewcommand%
23657     \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
23658     \expandafter\renewcommand%
23659     \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
23660     \expandafter\renewcommand%

```



```

23661 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
23662 \@ifundefined{scr@tso@#1@beforeskip}{%
23663   \Ifstr{#1}{part}{%
23664     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
23665   }{%
23666     \Ifstr{#1}{chapter}{%
23667       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23668     }{%
23669       \Ifstr{#1}{section}{%
23670         \scr@ifundefinedorrelax{1@chapter}{%
23671           \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23672         }{}%
23673       }{}%
23674     }%
23675   }%
23676   \expandafter\renewcommand\expandafter*%
23677   \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
23678 }{}%
23679 \@ifundefined{scr@dte@#1@maxnumwidth}{%
23680   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
23681   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
23682 }{}%
23683 \renewcommand*{\scr@dte@donumwidth}{}%
23684 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
23685 \expandafter\renewcommand\expandafter*%
23686 \csname scr@tso@#1@numsep\endcsname{.4em}%
23687 \expandafter\renewcommand%
23688 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
23689 \Ifstr{#1}{part}{%
23690   \expandafter\providecommand%
23691   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
23692 }{%
23693   \Ifstr{#1}{chapter}{%
23694     \expandafter\providecommand%
23695     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23696   }{%
23697     \scr@ifundefinedorrelax{1@chapter}{%
23698       \Ifstr{#1}{section}{%
23699         \expandafter\providecommand%
23700         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23701       }{}%
23702     }{}%
23703     \expandafter\providecommand%
23704     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
23705   }%
23706 }%
23707 \expandafter\renewcommand
23708 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
23709 \@ifundefined{scr@tso@#1@linefill}{%
23710   \Ifstr{#1}{part}{%
23711     \@namedef{scr@tso@#1@linefill}{\hfill}%
23712   }{}%
23713   \Ifstr{#1}{chapter}{%
23714     \@namedef{scr@tso@#1@linefill}{\hfill}%

```



```

23715 }{%
23716 \scr@ifundefinedorrelax{1@chapter}{%
23717 \Ifstr{#1}{section}{%
23718 \@namedef{scr@tso@#1@linefill}{\hfill}%
23719 }{}%
23720 }{}%
23721 \expandafter\renewcommand%
23722 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23723 }%
23724 }%
23725 }{}%
23726 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
23727 \Ifstr{#1}{part}{%
23728 \expandafter\providecommand%
23729 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
23730 }{%
23731 \Ifstr{#1}{chapter}{%
23732 \expandafter\providecommand%
23733 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23734 }{%
23735 \scr@ifundefinedorrelax{1@chapter}{%
23736 \Ifstr{#1}{section}{%
23737 \expandafter\providecommand%
23738 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23739 }{}%
23740 }{}%
23741 \expandafter\providecommand%
23742 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23743 {\normalfont\normalcolor ##1}}%
23744 }%
23745 }%
23746 \expandafter\renewcommand%
23747 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
23748 \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
23749 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
23750 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
23751 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
23752 \Ifstrstart{#1}{sub}{%
23753 \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
23754 \scr@dte@nosub{#1}%
23755 }%
23756 }{}%
23757 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
23758 }%
23759 }{}%
23760 }]{%
23761 \scr@dte@tocline{#1}{##1}{##2}%
23762 }
23763
23764 \if@bidi\csdef{scr@tso@figure@pagenumberformat}{%
23765 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
23766 {\normalfont\normalcolor #1}%
23767 }%
23768 }{}

```



```

23769
23770 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
23771   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
23772     {\normalfont\normalcolor #1}%
23773   }%
23774 }{}
23775

```

160 File tocstyle-xetex-bidi.def

```

23776 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
23777 \renewcommand*{\tocstyle@dottedtocline}[5]{%
23778   \let\numberline\tocstyle@numberline
23779   \ifnum #1>\c@tocdepth \else
23780     \if@tocstyle@penalties
23781       \begingroup
23782         \@tempcnta 20010
23783         \advance \@tempcnta by -#1
23784         \ifnum \@tempcnta>\lastpenalty
23785           \aftergroup\penalty\aftergroup\@lowpenalty
23786         \fi
23787       \endgroup
23788     \fi
23789     \edef\tocstyledepth{#1}%
23790     \tocstyle@activate@features
23791     \ifx\tocstyle@feature@entryvskip\relax
23792       \vskip \z@ \@plus.2\p@
23793     \else
23794       \addvspace{\tocstyle@feature@entryvskip}%
23795     \fi
23796   {%
23797     \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
23798     \tocstyle@feature@raggedhook
23799     \@tempdima #3\relax
23800     \@tempdimb #2\relax
23801     \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23802     \ifnum #1>\z@\relax
23803       \@tempcnta #1\relax \advance\@tempcnta \m@ne
23804       \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23805         \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23806           \@tempdimb
23807           \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23808           \advance\@tempdimb
23809           \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23810         \fi
23811       \fi
23812     \fi
23813     \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23814     \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
23815       \ifdim \@tempdimb>
23816         \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
23817         \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23818           @#1\endcsname{\the\@tempdimb}%
23819       \fi

```



```

23820 \else
23821 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23822 @#1\endcsname{\the\@tempdimb}%
23823 \fi
23824 \iftocstyle@autolength
23825 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23826 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23827 \relax
23828 \fi
23829 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23830 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23831 \relax
23832 \fi
23833 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23834 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23835 \else
23836 \@tempdimb #2\relax
23837 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23838 \fi
23839 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
23840 \ifdim \@tempdima>
23841 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
23842 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23843 @\endcsname{\the\@tempdima}%
23844 \fi
23845 \else
23846 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23847 @\endcsname{\the\@tempdima}%
23848 \fi
23849 \ifcase\tocstyle@indentstyle\relax\else
23850 \@tempdimb \z@
23851 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23852 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23853 \relax
23854 \fi
23855 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23856 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23857 \fi
23858 \advance\parindent \@tempdimb\@afterindenttrue
23859 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
23860 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
23861 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
23862 \ifx\tocstyle@feature@parfillskip\relax\else
23863 \advance\parfillskip \tocstyle@feature@parfillskip\relax
23864 \fi
23865 \interlinepenalty\@M
23866 \leavevmode
23867 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
23868 \null\nobreak
23869 \iftocstyle@indentnotnumbered\else
23870 \hskip -\if@RTL\rightskip\else\leftskip\fi
23871 \fi
23872 \tocstyle@feature@entryhook
23873 {#4}\nobreak

```




```

23874 \ifx\tocstyle@feature@leaders\relax
23875 \leaders\hbox{$\m@th
23876 \mkern \dotsep mu\hbox{\tocstyle@feature@dothook .}%
23877 \mkern \dotsep mu$}\hfill
23878 \else
23879 \tocstyle@feature@leaders
23880 \fi
23881 \nobreak
23882 \ifx\tocstyle@feature@pagenumberbox\relax
23883 \hb@xt@\pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
23884 \else
23885 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
23886 \fi
23887 \par
23888 }%
23889 \if@tocstyle@penalties
23890 \bgroup
23891 \@tempcnta 20009
23892 \advance\@tempcnta by -#1
23893 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
23894 \reserved@a
23895 \fi
23896 \fi}
23897 \renewcommand*{\tocstyle@numberline}[1]{%
23898 \begingroup
23899 \ifx\tocstyle@feature@spaceafternumber\relax
23900 \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
23901 \else
23902 \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
23903 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
23904 \fi
23905 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
23906 \ifdim \@tempdima >
23907 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
23908 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23909 @\tocstyledepth\endcsname{\the\@tempdima}%
23910 \fi
23911 \else
23912 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23913 @\tocstyledepth\endcsname{\the\@tempdima}%
23914 \fi
23915 \endgroup
23916 \iftocstyle@indentnotnumbered
23917 \hskip -\if@RTL\righskip\else\leftskip\fi
23918 \fi
23919 \ifcase \tocstyle@indentstyle
23920 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
23921 \or
23922 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
23923 \else
23924 \ifx\tocstyle@feature@spaceafternumber\relax
23925 \hbox{\tocstyle@@numberline{#1}\enskip}%
23926 \else
23927 \hbox{\tocstyle@@numberline{#1}\hskip

```



```

23928         \tocstyle@feature@spaceafternumber\relax}%
23929     \fi
23930 \fi
23931 }
23932 \AtBeginDocument{%
23933     \ifcsname l@part\endcsname
23934         \ifcsname l@chapter\endcsname
23935             \setbox\@tempboxa\vbox{\hsize\maxdimen
23936                 \l@part{\tocstyle@l@define{part}{-1}}{}}}%
23937         \else
23938             \setbox\@tempboxa\vbox{\hsize\maxdimen
23939                 \l@part{\tocstyle@l@define{part}{0}}{}}}%
23940         \fi
23941     \fi
23942     \ifcsname l@chapter\endcsname
23943         \setbox\@tempboxa\vbox{\hsize\maxdimen
23944             \l@chapter{\tocstyle@l@define{chapter}{0}}{}}}%
23945     \fi
23946     \ifcsname l@section\endcsname
23947         \setbox\@tempboxa\vbox{\hsize\maxdimen
23948             \l@section{\tocstyle@l@define{section}{1}}{}}}%
23949     \fi
23950     \ifcsname l@subsection\endcsname
23951         \setbox\@tempboxa\vbox{\hsize\maxdimen
23952             \l@subsection{\tocstyle@l@define{subsection}{2}}{}}}%
23953     \fi
23954     \ifcsname l@subsubsection\endcsname
23955         \setbox\@tempboxa\vbox{\hsize\maxdimen
23956             \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}}%
23957     \fi
23958     \ifcsname l@paragraph\endcsname
23959         \setbox\@tempboxa\vbox{\hsize\maxdimen
23960             \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}}%
23961     \fi
23962     \ifcsname l@subparagraph\endcsname
23963         \setbox\@tempboxa\vbox{\hsize\maxdimen
23964             \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}}%
23965     \fi
23966     \ifcsname l@table\endcsname
23967         \setbox\@tempboxa\vbox{\hsize\maxdimen
23968             \l@table{\tocstyle@l@define{table}{1}}{}}}%
23969     \fi
23970     \ifcsname l@figure\endcsname
23971         \setbox\@tempboxa\vbox{\hsize\maxdimen
23972             \l@figure{\tocstyle@l@define{figure}{1}}{}}}%
23973     \fi
23974     \def\@tempa#1#2#3#4#5{%
23975         \ifnum #1>\c@tocdepth \else
23976             \vskip \z@ \@plus.2\p@
23977             {\ifRTL\rightskip\else\leftskip\fi #2\relax \ifRTL\leftskip\else\rightskip\fi \@toc
23978             \parindent #2\relax\@afterindenttrue
23979             \interlinepenalty\@M
23980             \leavevmode
23981             \@tempdima #3\relax

```



```

23982 \advance\if@RTL\rightrightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\r
23983 {#4}\nobreak
23984 \leaders\hbox{$\m@th
23985 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
23986 mu$}\hfill
23987 \nobreak
23988 \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
23989 \par}%
23990 \fi}%
23991 \ifx\@dottedtocline\@tempa\else
23992 \tocstyle@macrochangewarning\@dottedtocline
23993 \fi
23994 \let\tocstyle@saved\@dottedtocline\@dottedtocline
23995 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
23996 \ifx\numberline\@tempa\else
23997 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
23998 \ifx\numberline\@tempa\else
23999 \tocstyle@macrochangewarning\numberline
24000 \fi
24001 \fi
24002 \let\tocstyle@saved\@numberline\@numberline
24003 }
24004 \renewcommand*{\tocstyle@l@define}[2]{%
24005 \advance\if@RTL\rightrightskip\else\leftskip\fi-\@tempdima
24006 \edef\@tempa{%
24007 \noexpand\global\noexpand\let
24008 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
24009 \expandafter\noexpand\csname l@#1\endcsname
24010 \noexpand\gdef
24011 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
24012 \noexpand\@dottedtocline{#2}{\the\if@RTL\rightrightskip\else\leftskip\fi}{\the\@tempdima}}%
24013 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l@%
24014 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
24015 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
24016 }%
24017 }%
24018 \PackageInfo{tocstyle}{prepare \expandafter\string
24019 \csname l@#1\endcsname\space for redefinition}%
24020 \@tempa
24021 }

```

161 File todonotes-xetex-bidi.def

```

24022 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes pack
24023 \newif\if@bidi@todonotes@textdirection@RTL
24024 \newif\if@bidi@todonotes@figposition@right
24025 \newcommand{\@bidi@todonotes@align}{}%
24026 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
24027 \newcommand{\@bidi@todonotes@textdirection}{}%
24028 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{rig
24029 \ifcase\@bidi@todonotes@tempb\relax
24030 \@bidi@todonotes@textdirection@RTLtrue
24031 \let\@bidi@todonotes@textdirection\@RLE
24032 \or

```



```

24033 \@bidi@todonotes@textdirection@RTLfalse
24034 \let\@bidi@todonotes@textdirection\LRE
24035 \fi}
24036 \define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right
24037 \ifcase\bidi@todonotes@tempb\relax
24038 \@bidi@todonotes@figposition@righttrue
24039 \or
24040 \@bidi@todonotes@figposition@rightfalse
24041 \fi}
24042 \if@todonotes@disabled%
24043 \else % \if@todonotes@disabled
24044 \renewcommand{\@todonotes@drawInlineNote}{%
24045 \if@todonotes@dviStyle%
24046 {\par\noindent\begin{tikzpicture}[remember picture]%
24047 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24048 \if@todonotes@authorgiven%
24049 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
24050 \else%
24051 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24052 \fi
24053 {\par\noindent\begin{tikzpicture}[remember picture]%
24054 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24055 \else%
24056 {\par\noindent\begin{tikzpicture}[remember picture]%
24057 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24058 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@
24059 \if@todonotes@authorgiven%
24060 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@tex
24061 \else%
24062 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24063 \fi};%
24064 \end{tikzpicture}\par}%
24065 \fi}%
24066 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
24067 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
24068 \node [coordinate] (inText) {};%
24069 \end{tikzpicture}%
24070 \marginpar[{\% Draw note in left margin
24071 \@todonotes@drawMarginNote%
24072 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
24073 }]{\% Draw note in right margin
24074 \@todonotes@drawMarginNote%
24075 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
24076 }%
24077 }%
24078 \renewcommand{\@todonotes@drawMarginNote}{%
24079 \if@todonotes@dviStyle%
24080 \begin{tikzpicture}[remember picture]%
24081 \draw node[notestyle] {};%
24082 \end{tikzpicture}\\%
24083 \begin{minipage}{\@todonotes@textwidth}%
24084 \if@todonotes@authorgiven%
24085 \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
24086 \else%

```



```

24087 \@todonotes@sizecommand \@todonotes@text%
24088 \fi%
24089 \end{minipage}\%
24090 \begin{tikzpicture}[remember picture]%
24091 \draw node[notestyle] (inNote) {};%
24092 \end{tikzpicture}%
24093 \else%
24094 \let\originalHbadness\hbadness%
24095 \hbadness 100000%
24096 \begin{tikzpicture}[remember picture,baseline=(X.base)]%
24097 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24098 \node(X){\vphantom{X}};%
24099 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonot
24100 {\@todonotes@text};%
24101 \if@todonotes@authorgiven%
24102 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@tod
24103 {\@todonotes@sizecommand\@todonotes@author};%
24104 \node(Y)[below=of X]{};%
24105 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@tod
24106 {\@todonotes@text};%
24107 \else%
24108 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@tod
24109 {\@todonotes@text};%
24110 \fi%
24111 \end{tikzpicture}%
24112 \hbadness \originalHbadness%
24113 \fi}%
24114 \renewcommand{\missingfigure}[2][]{%
24115 \setkeys{todonotes}{#1}%
24116 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
24117 \par
24118 \noindent
24119 \begin{tikzpicture}
24120 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
24121 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
24122 \if@bidi@todonotes@figposition@right%
24123 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24124 \fi%
24125 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
24126 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
24127 \if@bidi@todonotes@figposition@right%
24128 \end{scope}
24129 \begin{scope}[xshift=-3.8cm]
24130 \fi%
24131 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24132 \draw (2, -0.3) node[right, text
24133 width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
24134 \if@bidi@todonotes@figposition@right%
24135 \end{scope}
24136 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24137 \fi%
24138 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonot
24139 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todono
24140 \if@bidi@todonotes@figposition@right%

```



```

24141 \end{scope}
24142 \fi%
24143 \end{tikzpicture}\hfill
24144 }% Ending \missingfigure command
24145 \fi % Ending \@todonotes@ifdisabled
24146 \presetkeys%
24147   {todonotes}%
24148   {align=left,%
24149    textdirection=lefttoright,%
24150    figposition=left}{}%

```

162 File wrapfig-xetex-bidi.def

```

24151 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package]
24152 \let\WF@everypar\ bidi@n@everypar
24153 \def\WF@putfigmaybe{%
24154 \ifinner
24155   \vskip-\parskip \global\WF@floatfalse
24156   \let\pagetotal\maxdimen % kludge flag for "not top of page"
24157 \else % outer page
24158   \@tempdima\pagedepth % save page depth
24159   {\advance\parskip\@tempdima\ifRTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
24160   \penalty\interlinepenalty % update pg. parameters
24161   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
24162   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
24163     \global\WF@floatfalse
24164     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
24165   \else
24166     \ifdim\WF@size>\@tempdimb
24167       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
24168       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
24169       \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
24170       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
24171       \advance\dimen@.5\baselineskip
24172       \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
24173         \global\WF@floatfalse \pagebreak
24174       \fi
24175     \else % \WF@info{Fits in \the\@tempdimb;}%
24176       \global\WF@floatfalse
24177     \fi\fi
24178     \vskip\@tempdima\relax % (return erased page depth)
24179 \fi
24180 \noindent
24181 \ifWF@float
24182   \WF@fltmes
24183 \else % putting here;
24184   \WF@info{Put \WF@wfname here;}%
24185   {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
24186    \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
24187    \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
24188    \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
24189      \@tempdima\wd\WF@box \@tempdimb\WF@ovh
24190      \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
24191      \@tempdimb\hsize \advance\@tempdimb-\@tempdima

```



```

24192 \xdef\WF@adjlw{\the\@tempdima}%
24193 \ifnum `l=\WF@place % fig on left
24194 \if@RTL%
24195 \kern\@tempdimb \kern\columnsep
24196 \def\@tempa{\hss}% position to left of the gap
24197 \else%
24198 \hss % figure overlaps space to the left
24199 \def\@tempa{\kern\columnsep}% position to left of the gap
24200 \fi%
24201 \else % fig on right
24202 \if@RTL%
24203 \hss
24204 \@tempdima\z@
24205 \def\@tempa{\kern\columnsep}
24206 \else%
24207 \@tempdima\z@ % no left indentation
24208 \kern\@tempdimb \kern\columnsep
24209 \def\@tempa{\hss}% figure overlaps space to the right
24210 \fi%
24211 \fi
24212 \ifdim\@tempdimb<\hsize
24213 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
24214 \xdef\WF@adjtlm{\the\@tempdima}%
24215 \else
24216 \xdef\WF@wrapil{\z@ \the\hsize}%
24217 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
24218 \fi
24219 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
24220 \global\advance\WF@size-\intextsep
24221 \else % \WF@info{Putting \WF@wfname in middle of page}%
24222 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
24223 \fi \dp\WF@box\z@ \box\WF@box \@tempa
24224 }% end \hbox to 0pt
24225 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
24226 \fi}

```

163 File xcolor-xetex-bidi.def

```

24227 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
24228 \long\def\color@b@x#1#2#3%
24229 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
24230 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}
24231 \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
24232 \dimen@ \dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
24233 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
24234 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
24235 \DeclareRobustCommand\color
24236 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor
24237 \def\@undeclaredcolor[#1]#2%
24238 {\begingroup
24239 \let\@cls\@empty
24240 \XC@getmodclr12{#1}{#2}{}%
24241 {\ifblendcolors
24242 \ifx\colorblend\@empty\else

```



```

24243     \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
24244     \XC@coremodel\@mod\@clr\xcolor@{}{}\@mod\@clr
24245     \fi
24246   \fi
24247   \ifconvertcolorsU
24248     \edef\@tmp{\XC@tgt@mod{\@mod}}%
24249     \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24250   \fi
24251   \ifmaskcolors
24252     \convertcolorspec\@mod\@clr\XC@mmod\@clr
24253     \let\@mod\XC@mmod
24254     \XC@inflate\@mod\XC@mclr\@clr\@tmp
24255     \expandafter\XC@mul\@tmp,\@clr
24256   \fi
24257   \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
24258   \expandafter\endgroup\@tmp}}
24259 \def\@declaredcolor#1%
24260 { \XC@edef\XC@tmp{#1}\XC@tstfalse
24261   \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24262     \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24263     \ifconvertcolorsU\XC@tsttrue\fi
24264   \fi
24265   \ifXC@tst
24266     \expandafter\XC@declaredcolor\else
24267     \expandafter\XC@declaredcolor\fi}
24268 \def\XC@undeclaredcolor#1#2%
24269 {\@ifundefinedmodel{#1}%
24270  {\color@error{model `#1'}}%
24271  {\@nameuse{color@#1}\current@color{#2}%
24272   \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24273   \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24274 \def\XC@declaredcolor
24275 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
24276  \edef\current@color{\XC@current@color}%
24277  \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24278 \DeclareRobustCommand\bidicolor
24279 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
24280 \def\@bidiundeclaredcolor[#1]#2%
24281 {\beginR
24282  \let\@cls\@empty
24283  \XC@getmodclr12{#1}{#2}{}%
24284  {\ifblendcolors
24285   \ifx\colorblend\@empty\else
24286     \edef\@mix{\expandafter\@gobble\colorblend}\@tempswafalse
24287     \XC@coremodel\@mod\@clr\xcolor@{}{}\@mod\@clr
24288   \fi
24289   \fi
24290   \ifconvertcolorsU
24291     \edef\@tmp{\XC@tgt@mod{\@mod}}%
24292     \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24293   \fi
24294   \ifmaskcolors
24295     \convertcolorspec\@mod\@clr\XC@mmod\@clr
24296     \let\@mod\XC@mmod

```




```

24297 \XC@inflate\@@mod\XC@mclr\@@clr\@@tmp
24298 \expandafter\XC@mul\@@tmp,\@@clr
24299 \fi
24300 \edef\@@tmp{\noexpand\XC@bidiundeclaredcolor{\@@mod}{\@@clr}}%
24301 \expandafter\endgroup\@@tmp}}
24302 \def\XC@bidiundeclaredcolor#1#2%
24303 {\@ifundefinedmodel{#1}%
24304 {\c@lor@error{model `#1'}}%
24305 {\@nameuse{color@#1}\current@color{#2}}%
24306 \edef\XC@current@color{\noexpand\xcolor@{\current@color}{#1}{#2}}%
24307 \XC@display}}
24308 \def\@bidideclaredcolor#1%
24309 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24310 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24311 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24312 \ifconvertcolorsU\XC@tsttrue\fi
24313 \fi
24314 \ifXC@tst
24315 \expandafter\XC@bidideclaredcolor\else
24316 \expandafter\XC@bidideclaredc@lor\fi}
24317 \def\XC@bidideclaredcolor
24318 {\XC@split\XC@tmp
24319 \edef\@@tmp{\noexpand\@bidiundeclaredcolor[\@@mod]{\@@clr}}%
24320 \expandafter\endgroup\@@tmp}
24321 \def\XC@bidideclaredc@lor
24322 {\XC@let\Nc\XC@current@color{\string\color\XC@tmp}%
24323 \edef\current@color{\XC@current@color}%
24324 \XC@display}
24325 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
24326 \def\color@fbox#1#2#3#4{\protect\color@fb@x{#1}{#2}{#3}}
24327 \def\color@fb@x#1#2#3#4%
24328 {\color@b@x{\fboxsep\z@\bidicolor#1{#2}\XC@fbox}%
24329 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
24330 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmo

```

164 File latex-xetex-bidi.def

```

24331 \ProvidesFile{latex-xetex-bidi.def}[2025/09/20 v1.5.3 bidi adaptations for `latex.ltx' for
24332 \newcommand{\TeXXeTOn}{\TeXXeTstate\@ne}
24333 \newcommand{\TeXXeTOff}{\TeXXeTstate\z@}
24334 \TeXXeTOn
24335 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\useb
24336 \let\bidi@o@everypar=\everypar
24337 \newtoks\bidi@n@everypar
24338 \bidi@n@everypar\expandafter\the\bidi@o@everypar}
24339 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
24340 \let\everypar=\bidi@n@everypar
24341 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
24342 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
24343 \protected\def\hboxR{\hbox\bgroup
24344 \everyhbox{%
24345 \aftergroup\egroup
24346 \everyhbox{}}%
24347 \beginR

```



```

24348 \@hboxRconstructtrue
24349 \bgroup
24350 \aftergroup\endR
24351 \aftergroup\egroup
24352 }\hbox}
24353 \protected\def\hboxL{\hbox\bgroup
24354 \everyhbox{%
24355 \aftergroup\egroup
24356 \everyhbox{}}%
24357 \beginL
24358 \@hboxRconstructfalse
24359 \bgroup
24360 \aftergroup\endL
24361 \aftergroup\egroup
24362 }\hbox}
24363 \protected\def\vboxR{\vbox\bgroup
24364 \everyvbox{%
24365 \aftergroup\egroup
24366 \everyvbox{}}%
24367 \@RTLtrue
24368 \@RTLtabtrue
24369 \bgroup
24370 \aftergroup\egroup
24371 }\vbox}
24372 \protected\def\vboxL{\vbox\bgroup
24373 \everyvbox{%
24374 \aftergroup\egroup
24375 \everyvbox{}}%
24376 \@RTLfalse
24377 \@RTLtabfalse
24378 \bgroup
24379 \aftergroup\egroup
24380 }\vbox}
24381 \newcommand*{\bidi@leftskip}{\if@RTL\righskip\else\leftskip\fi}
24382 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\righskip\fi}
24383 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beame
24384 \def\endLTR{\par}
24385 \newenvironment{LTR*}{\LTR
24386 \everypar{%
24387 {\setbox\z@\lastbox
24388 \ifvoid\z@
24389 \kern-\parindent
24390 \fi}%
24391 }%
24392 }\endLTR\@endpetrue}
24393 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beame
24394 \def\endRTL{\par}
24395 \newenvironment{RTL*}{\RTL
24396 \everypar{%
24397 {\setbox\z@\lastbox
24398 \ifvoid\z@
24399 \kern-\parindent
24400 \fi}%
24401 }%

```



```

24402 }{\endRTL\@endpetrue}
24403 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\@bidi@beamer@ragged}
24404 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTL@tabfalse\@bidi@beamer@ragged}
24405 \let\unsetRTL=\setLTR
24406 \let\unsetLTR=\setRTL
24407 \let\LR=\LRE
24408 \let\RL=\RLE
24409 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
24410 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
24411 \let\@ensure@RL=\@ensure@RTL
24412 \let\@ensure@LR=\@ensure@LTR
24413 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
24414 \let\@ensure@maindir=\@ensure@dir
24415 \def\@RTL{RTL}
24416 \def\@LTR{LTR}
24417 \def\save@dir{\if@RTL\gdef\save@@dir{RTL}\else\gdef\save@@dir{LTR}\fi}
24418 \def\reset@dir{\ifx\save@@dir\@RTL\setRTL\else\ifx\save@@dir\@LTR\setLTR\else\relax\fi}
24419 \let\@TeX\TeX
24420 \def\TeX{\@ensure@LTR{\@TeX}}
24421 \let\@LaTeX\LaTeX
24422 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
24423 \let\@LaTeXe\LaTeXe
24424 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
24425 \long\def\@bidi@reflect@box#1{%
24426   \leavevmode
24427   \setbox\z@\hbox{#1}%
24428   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}
24429   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}}%
24430 }
24431 \if@bidi@csundef{XeTeX}{%
24432 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24433   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}%
24434 }{%
24435 \let\@bidi@orig@XeTeX\XeTeX
24436 \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
24437 }
24438 \if@bidi@csundef{XeLaTeX}{%
24439 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24440   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}%
24441 }{%
24442 \let\@bidi@orig@XeLaTeX\XeLaTeX
24443 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
24444 }
24445 \let\setRL=\setRTL
24446 \let\setLR=\setLTR
24447 \let\unsetRL=\setLTR
24448 \def\@bidi@tabular@RTLCases{\let\@halignto\@empty\@bidi@tabular@RTLCases}
24449 \ApplyPatchIfPackageLoaded{array}{%
24450 \def\@bidi@tabular@RTLCases{\@RTL@tabtrue%
24451   \leavevmode
24452   \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
24453   \let\dollarend\endgroup
24454   \@tabarray}
24455 \def\endbidi@tabular@RTLCases{\endarray \right\rbrace$\egroup}

```



```

24456 }{%
24457 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24458   \leavevmode \hbox \bgroup
24459   $\left.\let\@acol\@tabacol
24460   \let\@classz\@tabclassz
24461   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24462
24463 \def@endbidi@tabular@RTLcases{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
24464   \egroup\right\rbrace $\egroup}}
24465 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
24466   \ialign{##\hfil$&\quad{##}\hfil\crrc#1\crrc}}\,\right\}}
24467 \renewenvironment{RTLcases}{%
24468   \bidi@matrix@check\RTLcases\env@RTLcases
24469 }{%
24470   \endbidi@tabular@RTLcases%
24471 }
24472 \def\env@RTLcases{%
24473   \let\@ifnextchar\bidi@new@ifnextchar
24474   \def\arraystretch{1.2}%
24475   \bidi@tabular@RTLcases{\@{}r@{\quad}r@{}}%
24476 }
24477 \def\SepMark#1{\gdef\@SepMark{#1}}
24478 \SepMark{.}
24479 \def\@thmcountersep{\@SepMark}
24480 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
24481 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
24482 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
24483 \newcommand*{\bidi@thebibliography@font@hook}{ }
24484 \def\list#1#2{%
24485   \ifnum \@listdepth >5\relax
24486     \@toodeep
24487   \else
24488     \global\advance\@listdepth\@ne
24489     \fi
24490     \rightmargin\z@
24491     \listparindent\z@
24492     \itemindent\z@
24493     \csname @list\romannumeral\the\@listdepth\endcsname
24494     \def\@itemlabel{#1}%
24495     \let\makelabel\@mklab
24496     \@nbrlistfalse
24497     #2\relax
24498     \@trivlist
24499     \parskip\parsep
24500     \parindent\listparindent
24501     \advance\linewidth -\rightmargin
24502     \advance\linewidth -\leftmargin
24503     \if@bidi@list@minipage@parbox
24504       \if@RTL
24505         \advance\@totalleftmargin \leftmargin
24506       \else
24507         \advance\@totalleftmargin \rightmargin
24508       \fi
24509     \else

```



```

24510 \if@hboxRconstruct
24511 \if@bidi@list@minipage@parbox@not@nob
24512 \if@RTL
24513 \advance\@totalleftmargin \rightmargin
24514 \else
24515 \advance\@totalleftmargin \leftmargin
24516 \fi
24517 \else
24518 \if@RTL
24519 \advance\@totalleftmargin \leftmargin
24520 \else
24521 \advance\@totalleftmargin \rightmargin
24522 \fi\fi
24523 \else
24524 \if@RTL
24525 \advance\@totalleftmargin \rightmargin
24526 \else
24527 \advance\@totalleftmargin \leftmargin
24528 \fi\fi\fi
24529 \parshape \@ne \@totalleftmargin \linewidth
24530 \ignorespaces}
24531 \long\def\@iiiparbox#1#2[#3]#4#5{%
24532 \leavevmode
24533 \@pboxswfalse
24534 \if@hboxRconstruct
24535 \@bidi@list@minipage@parbox@not@nobtrue
24536 \fi
24537 \if@RTL
24538 \ifx#1t%
24539 \@bidi@list@minipage@parboxtrue
24540 \else
24541 \ifx#1b%
24542 \@bidi@list@minipage@parboxtrue
24543 \fi
24544 \fi
24545 \fi
24546 \setlength\@tempdima{#4}%
24547 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
24548 \ifx\relax#2\else
24549 \setlength\@tempdimb{#2}%
24550 \edef\@parboxto{to\the\@tempdimb}%
24551 \fi
24552 \if#1b\vbox
24553 \else\if #1t\vtop
24554 \else\ifmmode\vcenter
24555 \else\@pboxswtrue $\vcenter
24556 \fi\fi\fi
24557 \@parboxto{\let\hss\vss\let\unhbox\unvbox
24558 \csname bm@#3\endcsname}%
24559 \if@pboxsw \m@th$\fi
24560 \@end@tempboxa}
24561 \newenvironment{LTRitems}
24562 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
24563 \if@bidi@list@minipage@parbox

```



```

24564 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24565 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24566 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24567 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24568 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24569 \ignorespaces}{\vskip\z@}
24570 \newenvironment{RTLitems}
24571 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24572 \if@bidi@list@minipage@parbox
24573 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24574 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24575 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24576 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24577 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24578 \ignorespaces}{\vskip\z@}
24579 \newenvironment{LTRbibitems}
24580 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24581 \if@bidi@list@minipage@parbox
24582 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24583 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24584 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24585 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24586 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24587 \ignorespaces}{\vskip\z@}
24588 \newenvironment{RTLbibitems}
24589 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24590 \if@bidi@list@minipage@parbox
24591 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24592 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24593 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24594 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24595 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24596 \ignorespaces}{\vskip\z@}
24597 \def\raggedright{%
24598 \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
24599 \leftskip\z@skip
24600 \parindent\z@\parfillskip\z@skip}
24601 \let\@bidi@orig@raggedleft\raggedleft
24602 \let\@bidi@orig@raggedright\raggedright
24603 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob\@bidi@orig@raggedleft\else\if@hboxRconstruct\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRconstruct\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRconstruct\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\fi}
24604 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRconstruct\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRconstruct\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRconstruct\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\fi}
24605 \newcommand{\bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
24606 \newcommand{\bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
24607 \DeclareRobustCommand\centerline[1]{%
24608 \if@RTL@@@line{\hss\beginR#1\endR\hss}
24609 \else@@@line{\hss#1\hss}\fi}
24610 \def\bidi@orig@leftline#1{%
24611 \if@RTL@@@line{\beginR#1\endR\hss}
24612 \else@@@line{#1\hss}\fi}
24613 \def\bidi@orig@rightline#1{%
24614 \if@RTL@@@line{\hss\beginR#1\endR}
24615 \else@@@line{\hss#1}\fi}
24616 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\bidi@orig@rightline{#1}\else\bidi@orig@leftline{#1}\fi}
24617 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\bidi@orig@leftline{#1}\else\bidi@orig@rightline{#1}\fi}

```



```

24618 \DeclareRobustCommand\bidirlap[1]{\hb@xt@\z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
24619 \DeclareRobustCommand\bidillap[1]{\hb@xt@\z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
24620 \def\@hangfrom#1{\setbox\@tempboxa\hbox{\{#1\}}%
24621     \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
24622 \def\narrower{%
24623     \advance\if@RTL\righskip\else\leftskip\fi\parindent
24624     \advance\if@RTL\leftskip\else\righskip\fi\parindent}
24625 \DeclareRobustCommand\underline[1]{%
24626     \relax
24627     \ifmmode\@@underline{#1}%
24628     \else
24629     \if@RTL $@@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
24630     \else
24631     $@@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
24632 \if@compatibility
24633     \let\underline=\underline
24634 \fi
24635 \def\@tabular{%
24636     \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
24637     $\let\@acol\@tabacol
24638     \let\@classz\@tabclassz
24639     \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24640 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
24641     \egroup $\if@RTLtab\endR\fi\egroup}
24642 \expandafter \let \csname endtabular*\endcsname = \endtabular
24643 \def\@array[#1]#2{%
24644     \if #1t\top \else \if#1b\vbox \else \vcenter \fi\fi
24645     \bgroup
24646     \setbox\@arstrutbox\hbox{%
24647         \vrule \@height\arraystretch\ht\strutbox
24648         \@depth\arraystretch \dp\strutbox
24649         \@width\z@}%
24650     \mkpream{#2}%
24651     \edef\@preamble{%
24652         \ialign \noexpand\@halignto
24653         \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
24654     \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
24655     \let\@tabularnewline\\%
24656     \let\par\@empty
24657     \let\@sharp##%
24658     \set@typeset@protect
24659     \lineskip\z@skip\baselineskip\z@skip
24660     \ifhmode \@preamerr\z@ \@@par\fi
24661     \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
24662     \@preamble}
24663 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
24664     \let\@classiv\@arrayclassiv
24665     \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
24666 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
24667     \ifnum \@lastchclass=3 5 \else
24668     \z@ \if #1c\@chnum \z@ \else
24669         \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
24670         \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
24671     \@chclass \if #1|\@ne \else

```



```

24672             \if #1@tw@ \else
24673             \if #1p3 \else \z@ \@preamerr 0\fi
24674 \fi \fi \fi \fi \fi \fi
24675 \fi}
24676 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
24677 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
24678 \def\bm@t{\unhbox\@tempboxa\hss}
24679 \def\bm@b{\hss\unhbox\@tempboxa}
24680 \def\@dottedtocline#1#2#3#4#5{%
24681   \ifnum #1>\c@tocdepth \else
24682     \vskip \z@ \@plus.2\p@
24683     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrm
24684     \parindent #2\relax\@afterindenttrue
24685     \interlinepenalty\@M
24686     \leavevmode
24687     \@tempdima #3\relax
24688     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24689     {#4}\nobreak
24690     \leaders\hbox{$\m@th
24691       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
24692       mu$}\hfill
24693     \nobreak
24694     \hb@xt@{\pnumwidth{\hfil\normalfont \normalcolor #5}}%
24695     \par}%
24696 \fi}
24697
24698 \newcount\ bidi@column@check@number
24699
24700 \def\ bidi@column@status#1{\gdef\ bidi@current@column@status{#1}}
24701
24702 \def\ bidi@set@column@status#1#2{%
24703   \global\expandafter\let\csname #1\endcsname\ bidi@current@column@status}
24704
24705 \if@twocolumn
24706 \newcommand\DetectColumn[3][1]{%
24707   \ifx\ bidi@firstcolumn@status@write\relax
24708     \PackageError{bidi}%
24709     {Option 'DetectColumn' not selected}%
24710     {\string\DetectColumn\space
24711     requires the use of the 'DetectColumn'
24712     option on the package}%
24713 \fi
24714 \global\advance\ bidi@column@check@number\@ne
24715 \edef\ bidi@column@type{\expandafter\ifx
24716   \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
24717   0\else
24718   \csname bidi@column-\the\ bidi@column@check@number\endcsname
24719   \fi}%
24720 \ifcase \ bidi@column@type\relax
24721   \ifcase #1\or #2\or#3\fi % 0 not known use first column as default
24722 \or
24723   #2% % 1 First column
24724 \or
24725   #3% % 2 Second (Last column)

```




```

24726 \else
24727 \ERROR
24728 \fi
24729 \edef\next{\write\@auxout
24730 {\string\bidisetcolumnstatus{\bidicolumn-\the\bidicolumnchecknumber}%
24731 {\bidicolumn@type}}}%
24732 \next
24733 }
24734
24735 \AtEndDocument{\def\bidisetcolumnstatus#1#2{%
24736 \ifnum #2=\bidicurrentcolumnstatus\else
24737 \@tempswatrue
24738 \fi}%
24739 }
24740 \fi
24741
24742 \def\RTL@outputdblcol{%
24743 \if@firstcolumn
24744 \global\@firstcolumnfalse
24745 \global\setbox\@leftcolumn\copy\@outputbox
24746 \splitmaxdepth\maxdimen
24747 \vbadness\maxdimen
24748 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24749 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24750 \toks@\expandafter{\topmark}%
24751 \xdef\@firstcoltopmark{\the\toks@}%
24752 \toks@\expandafter{\splitfirstmark}%
24753 \xdef\@firstcolfirstmark{\the\toks@}%
24754 \ifx\@firstcolfirstmark\@empty
24755 \global\let\@setmarks\relax
24756 \else
24757 \gdef\@setmarks{%
24758 \let\firstmark\@firstcolfirstmark
24759 \let\topmark\@firstcoltopmark}%
24760 \fi
24761 \else
24762 \global\@firstcolumntrue
24763 \setbox\@outputbox\vbox{%
24764 \hb@xt@\textwidth{%
24765 \hskip \columnwidth
24766 \hfil
24767 {\normalcolor\vrule \@width\columnseprule}%
24768 \hfil
24769 \hb@xt@\columnwidth{%
24770 \bidifirstcolumnstatus@write%
24771 \box\@leftcolumn \hss}%
24772 \hskip -\textwidth
24773 \hb@xt@\columnwidth{%
24774 \bidilastcolumnstatus@write%
24775 \box\@outputbox \hss}%
24776 \hskip \columnsep
24777 \hskip \columnwidth }}%
24778 \@combinedblfloats
24779 \@setmarks

```



```

24780 \outputpage
24781 \begingroup
24782 \dblfloatplacement
24783 \startdblcolumn
24784 \whiles\if@fcolmade \fi{\outputpage
24785 \startdblcolumn}%
24786 \endgroup
24787 \fi}%
24788
24789 \def\LTR@outputdblcol{%
24790 \if@firstcolumn
24791 \global\@firstcolumnfalse
24792 \global\setbox\@leftcolumn\copy\@outputbox
24793 \splitmaxdepth\maxdimen
24794 \vbadness\maxdimen
24795 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24796 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24797 \toks@\expandafter{\topmark}%
24798 \xdef\@firstcoltopmark{\the\toks@}%
24799 \toks@\expandafter{\splitfirstmark}%
24800 \xdef\@firstcolfirstmark{\the\toks@}%
24801 \ifx\@firstcolfirstmark\@empty
24802 \global\let\@setmarks\relax
24803 \else
24804 \gdef\@setmarks{%
24805 \let\firstmark\@firstcolfirstmark
24806 \let\topmark\@firstcoltopmark}%
24807 \fi
24808 \else
24809 \global\@firstcolumntrue
24810 \setbox\@outputbox\vbox{%
24811 \hb@xt@\textwidth{%
24812 \hb@xt@\columnwidth{%
24813 \bidi@firstcolumn@status@write%
24814 \box\@leftcolumn \hss}%
24815 \hfil
24816 {\normalcolor\vrule \@width\columnseprule}%
24817 \hfil
24818 \hb@xt@\columnwidth{%
24819 \bidi@lastcolumn@status@write%
24820 \box\@outputbox \hss}}}%
24821 \@combinedblfloats
24822 \@setmarks
24823 \outputpage
24824 \begingroup
24825 \dblfloatplacement
24826 \startdblcolumn
24827 \whiles\if@fcolmade \fi{\outputpage
24828 \startdblcolumn}%
24829 \endgroup
24830 \fi}%
24831
24832
24833 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}

```



```

24834 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
24835 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
24836
24837 \bidi@appto\@outputbox@appendfootnotes{%
24838   \ifvoid\@bidi@copyins@
24839   \else
24840     \@outputbox@append{%
24841       \vskip \skip\@bidi@copyins@
24842       \color@begingroup
24843       \normalcolor
24844       \unvbox \@bidi@copyins@
24845       \color@endgroup
24846     }%
24847   \fi
24848 }
24849
24850 \def\LTRmarginpar{%
24851   \ifhmode
24852     \@bsphack
24853     \@floatpenalty -\@Mii
24854   \else
24855     \@floatpenalty-\@Miii
24856   \fi
24857   \ifinner
24858     \@parmoderr
24859     \@floatpenalty\z@
24860   \else
24861     \@next\@currbox\@freelist{}{}%
24862     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24863     {\@floatpenalty\z@
24864       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24865   \fi
24866   \@ifnextchar [\@LTRxmpar\@LTRympar}
24867 \long\def\@LTRxmpar[#1]#2{%
24868   \@LTRsavemarbox\@marbox{#1}%
24869   \@LTRsavemarbox\@currbox{#2}%
24870   \@xympar}
24871 \long\def\@LTRympar#1{%
24872   \@LTRsavemarbox\@marbox{#1}%
24873   \global\setbox\@currbox\copy\@marbox
24874   \@xympar}
24875 \long\def \@LTRsavemarbox #1#2{%
24876   \global\setbox #1%
24877     \color@vbox
24878     \vtop{%
24879       \hsize\marginparwidth
24880       \@parboxrestore
24881       \@LTRmarginparreset
24882       #2%
24883       \@minipagefalse
24884       \outer@nobreak
24885     }%
24886   \color@endbox
24887 }

```



```

24888 \def \@LTRmarginparreset {%
24889     \reset@font
24890     \normalsize
24891     \@minipagetrue
24892     \everypar{\@minipagefalse\everypar{}\beginL}%
24893 }
24894 \def\RTLmarginpar{%
24895     \ifhmode
24896         \@bsphack
24897         \@floatpenalty -\@Mii
24898     \else
24899         \@floatpenalty-\@Miii
24900     \fi
24901     \ifinner
24902         \@parmoderr
24903         \@floatpenalty\z@
24904     \else
24905         \@next\@currbox\@freelist{}\{}%
24906         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24907         {\@floatpenalty\z@
24908         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24909     \fi
24910     \ifnextchar [\@RTLxmpar\@RTLympar}
24911 \long\def\@RTLxmpar[#1]#2{%
24912     \@RTLSavemarbox\@marbox{#1}%
24913     \@RTLSavemarbox\@currbox{#2}%
24914     \@xympar}
24915 \long\def\@RTLympar#1{%
24916     \@RTLSavemarbox\@marbox{#1}%
24917     \global\setbox\@currbox\copy\@marbox
24918     \@xympar}
24919 \long\def \@RTLSavemarbox #1#2{%
24920     \global\setbox #1%
24921         \color@vbox
24922         \vtop{%
24923             \hsize\marginparwidth
24924             \@parboxrestore
24925             \@LTRmarginparreset
24926             #2%
24927             \@minipagefalse
24928             \outer@nobreak
24929             }%
24930     \color@endbox
24931 }
24932 \def \@RTLmarginparreset {%
24933     \reset@font
24934     \normalsize
24935     \@minipagetrue
24936     \everypar{\@minipagefalse\everypar{}\beginR}%
24937 }
24938 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
24939     \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
24940     \if@twocolumn
24941         \if@firstcolumn \@tempcnta\m@ne \fi

```



```

24942 \else
24943 \if@mparswitch
24944 \ifodd\c@page \else\@tempcnta\m@ne \fi
24945 \fi
24946 \if@reversemargin \@tempcnta -\@tempcnta \fi
24947 \fi
24948 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
24949 \@tempdima\@mparbottom
24950 \advance\@tempdima -\@pageht
24951 \advance\@tempdima\ht\@marbox
24952 \ifdim\@tempdima >\z@
24953 \latex@warning@no@line {Marginpar on page \thepage\space moved}%
24954 \else
24955 \@tempdima\z@
24956 \fi
24957 \global\@mparbottom\@pageht
24958 \global\advance\@mparbottom\@tempdima
24959 \global\advance\@mparbottom\dp\@marbox
24960 \global\advance\@mparbottom\marginparpush
24961 \advance\@tempdima -\ht\@marbox
24962 \global\setbox \@marbox
24963 \vbox {\vskip \@tempdima
24964 \box \@marbox}%
24965 \global \ht\@marbox \z@
24966 \global \dp\@marbox \z@
24967 \kern -\@pagedp
24968 \nointerlineskip
24969 \hb@xt@\columnwidth
24970 {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL\fi
24971 \hskip\columnwidth \hskip\marginparsep
24972 \else
24973 \hskip -\marginparsep \hskip -\marginparwidth
24974 \fi
24975 \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endL\fi
24976 \nointerlineskip
24977 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
24978 \long\def\@ympar#1{%
24979 \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar\@RTLtrue\fi\else\if@LTRmarginpar\@LTRfalse\fi}%
24980 \global\setbox\@currbox\copy\@marbox
24981 \@xympar}
24982 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
24983 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
24984 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
24985 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
24986 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
24987 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
24988 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
24989 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
24990 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
24991 \fi}
24992
24993 \newcommand*{\bidi@font@outputpage}{%
24994
24995 \def\@outputpage{%

```



```

24996 \begingroup          % the \endgroup is put in by \aftergroup
24997 \let \protect \noexpand
24998 \@resetactivechars
24999 \global\let\@if@newlist\if@newlist
25000 \global\@newlistfalse
25001 \@parboxrestore
25002 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
25003 \bidi@beforeoutputpageshipouthook
25004 \shipout \vbox{%
25005   \set@typeset@protect
25006   \aftergroup \endgroup
25007   \aftergroup \set@typeset@protect
25008                               % correct? or just restore by ending
25009                               % the group?
25010 \if@specialpage
25011   \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
25012 \fi
25013 \if@twoside
25014   \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
25015   \if@RTLmain
25016     \let\@themargin\evensidemargin
25017   \else
25018     \let\@themargin\oddsidemargin
25019   \fi
25020 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
25021   \if@RTLmain
25022     \let\@themargin\oddsidemargin
25023   \else
25024     \let\@themargin\evensidemargin
25025   \fi
25026 \fi
25027 \ifx\@thehead\@empty \let\@thehead\hfil \fi
25028 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
25029 \else %% not @twoside
25030 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
25031 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
25032 \fi
25033 \reset@font
25034 \normalsize
25035 \bidi@font@@outputpage
25036 \normalsfcodes
25037 \let\label\@gobble
25038 \let\index\@gobble
25039 \let\glossary\@gobble
25040 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
25041 \@beginndvi
25042 \vskip \topmargin
25043 \moveright\@themargin \vbox {%
25044   \global\let\@bidi@BeforeHeader\@firstofone
25045   \bidi@beforeheaderhook
25046   \setbox\@tempboxa \vbox to\headheight{%
25047     \vfil
25048     \color@hbox
25049     \normalcolor

```



```

25050      \hb@xt@{\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\fi}}
25051      \color@endbox
25052      }%
25053      \dp\@tempboxa \z@
25054      \box\@tempboxa
25055      \vskip \headsep
25056      \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
25057      \bidi@beforeoutputboxoutputpagehook
25058      \box\@outputbox
25059      \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
25060      \bidi@afteroutputboxoutputpagehook
25061      \global\let\@bidi@BeforeFooter\@firstofone
25062      \bidi@beforefooterhook
25063      \baselineskip \footskip
25064      \color\@hbox
25065      \normalcolor
25066      \hb@xt@{\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
25067      \color@endbox
25068      \global\let\@bidi@AfterFooter\@firstofone
25069      \bidi@afterfooterhook
25070      }%
25071      }%
25072      \global\let\@bidi@AfterOutputPageShipOut\@firstofone
25073      \bidi@afteroutputpageshipouthook
25074      \global\let\if@newlist\@if@newlist
25075      \global \colht \textheight
25076      \stepcounter{page}%
25077      \let\firstmark\botmark
25078      \global\let\@bidi@AtEndOutputPage\@firstofone
25079      \bidi@atendoutputpagehook
25080 }
25081 \long\def\@makecaption#1#2{%
25082   \vskip\abovecaptionskip
25083   \sbox\@tempboxa{#1: #2}%
25084   \ifdim \wd\@tempboxa >\hsize
25085     \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
25086   \else
25087     \global \@minipagefalse
25088     \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
25089     \fi
25090     \vskip\belowcaptionskip}
25091 \let\@bidi@samed@eqno=\eqno
25092 \let\@bidi@samed@leqno=\leqno
25093 \def\eqno{\ifnum\predisplaydirection<\z@ \@bidi@samed@leqno \else \@bidi@samed@eqno \fi}
25094 \def\leqno{\ifnum\predisplaydirection<\z@ \@bidi@samed@eqno \else \@bidi@samed@leqno \fi}
25095 \ApplyPatchIfPackageLoadedF{amsmath}{
25096 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
25097 }
25098 \input{footnote-xetex-bidi.def}
25099 \if@twocolumn
25100   \let\autofootnoterule\relax
25101   \let\leftfootnoterule\relax
25102   \let\rightfootnoterule\relax
25103   \textwidthfootnoterule

```



```

25104 \fi
25105 \if@bidi@csundef{@idxitem}{-}{%
25106 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p@}%
25107 }
25108
25109 \ApplyPatchToClassesIfPackageLoadedF{%
25110   book, %
25111   report %
25112 }{flowfram}
25113
25114 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
25115
25116 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
25117   fleqn, %
25118   leqno%
25119 }[clo]
25120
25121 \ApplyPatchToClasses{%
25122   amsart, %
25123   amsbook, %
25124   article, %
25125   artikel1, %
25126   artikel2, %
25127   artikel3, %
25128   beamer, %
25129   boek, %
25130   boek3, %
25131   bookest, %
25132   combine, %
25133   extbook, %
25134   extletter, %
25135   extarticle, %
25136   extreport, %
25137   imsproc, %
25138   letter, %
25139   memoir, %
25140   rapport1, %
25141   rapport3, %
25142   refrep, %
25143   scrartcl, %
25144   scrbook, %
25145   scrreprt %
25146 }
25147
25148 \ApplyPatchToPackages{%
25149   algorithm2e, %
25150   amsmath, %
25151   amstext, %
25152   amsthm, %
25153   arydshln, %
25154   array, %
25155   beamerbaseauxtemplates, %
25156   beamerbaseboxes, %
25157   beamerbasecolor, %

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25158 beamerbasecompatibility, %
 25159 beamerbaseframecomponents, %
 25160 beamerbaseframesize, %
 25161 beamerbaselocalstructure, %
 25162 beamerbasemisc, %
 25163 beamerbasenavigation, %
 25164 beamerbaseoverlay, %
 25165 beamerinnerthemecircles, %
 25166 beamerinnerthemedefault, %
 25167 beamerinnerthemefocus, %
 25168 beamerinnerthemeinmargin, %
 25169 beamerinnerthememetropolis, %
 25170 beamerinnerthemerectangles, %
 25171 beamerinnerthemrounded, %
 25172 beamerouterthemedefault, %
 25173 beamerouterthemefocus, %
 25174 beamerouterthemeinfolines, %
 25175 beamerouterthememetropolis, %
 25176 beamerouterthememiniframes, %
 25177 beamerouterthemesidebar, %
 25178 beamerouterthemesplit, %
 25179 beamerouterthemeshadow, %
 25180 beamerouterthesmoothbars, %
 25181 beamerouterthesmoothtree, %
 25182 beamerouterthemetree, %
 25183 beamerthemeHannover, %
 25184 beamerthemeSingapore, %
 25185 breqn, %
 25186 calcs, %
 25187 caption, %
 25188 caption3, %
 25189 color, %
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 25191 crop, %
 25192 cuted, %
 25193 cutwin, %
 25194 dblfnote, %
 25195 diagbox, %
 25196 draftwatermark, %
 25197 eso-pic, %
 25198 empheq, %
 25199 fancybox, %
 25200 fancyhdr, %
 25201 fix2col, %
 25202 float, %
 25203 floatrow, %
 25204 flowfram, %
 25205 fnpct, %
 25206 footnotebackref, %
 25207 framed, %
 25208 ftnright, %
 25209 geometry, %
 25210 graphicx, %
 25211 hvfloat, %



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25212 hyperref, %
25213 lettrine, %
25214 lineno, %
25215 listings, %
25216 longtable, %
25217 lscape, %
25218 mathtools, %
25219 mdframed, %
25220 media9, %
25221 midfloat, %
25222 minitoc, %
25223 multicol, %
25224 adjmulticol, %
25225 multienum, %
25226 natbib, %
25227 newfloat, %
25228 nicematrix, %
25229 ntheorem, %
25230 ntheorem-hyper, %
25231 overpic, %
25232 pdfbase, %
25233 pdflscape, %
25234 pgfsys, %
25235 picinpar, %
25236 quotchap, %
25237 ragged2e, %
25238 rotating, %
25239 sidecap, %
25240 soul, %
25241 stabular, %
25242 subfigure, %
25243 tabs, %
25244 tabularx, %
25245 tabulary, %
25246 tcolorbox, %
25247 thmbox, %
25248 titlesec, %
25249 titletoc, %
25250 tocbasic, %
25251 tocbibind, %
25252 tocloft, %
25253 toctstyle, %
25254 todonotes, %
25255 wrapfig, %
25256 xcolor, %
25257 xltextra %
25258 }
25259
25260 \ApplyPatchToFiles{%
25261   pgfcorescopes.code, %
25262   pstricks %
25263 }[tex]
25264
25265 \ApplyPatchToFiles{%

```



```

25266 hgeneric-testphase, %
25267 tc-xetex %
25268 }
25269

```

165 File xltextra-xetex-bidi.def

```

25270 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package
25271 \let\@XeTeX\XeTeX
25272 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
25273 \let\@XeLaTeX\XeLaTeX
25274 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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