

The sblarticle Class

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Abstract

sblarticle provides a LaTeX class for producing articles and papers conforming to the style required by the Society of Biblical Literature. It depends on sblfonts for language support and biblatex-sbl for referencing.

Contents

1	Introduction	2
1.1	Usage	2
1.2	Acknowledgements	2
1.3	Bug Reports and Feature Requests	3
2	Package Commands	3
3	Package Options	3
4	Implementation	4
4.1	Margins	5
4.2	Text layout	5
4.3	Headers and footers	6
4.4	Footnotes	6
4.5	Captions	7
4.6	Block quotes	7
4.7	Title page	9
4.8	Abstract	10
4.9	Section titles	11
4.10	Table of contents and list of figures/tables	14
4.11	Appendices	19
4.12	Bibliography and list of abbreviations	22
4.13	Helper functions	22

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1 Introduction

The `sblarticle` class creates a term paper matching the style specified in the *Student Supplement for The SBL Handbook of Style, Second Edition*. See <https://www.sbl-site.org/wp-content/uploads/2025/04/SBLHSupp2015-02.pdf>.

The class works with both `pdf $\text{latex}$` and the Unicode engines, but in order to make use of the SBL fonts you need to install them and use a Unicode engine (`lualatex` is recommended, especially for Hebrew).

This class is not intended to be a general flexible starting point for the requirements of all theological colleges and seminaries. In such cases you are better off beginning with the article class and loading `biblatex-sbl` and (possibly) `sblfonts` directly. You could use the code in this class as a guide.

1.1 Usage

Load the class using `\documentclass{sblarticle}`. See `sbltex-termpaper.pdf` in the documentation directory for an extended usage example.

The following standard commands and environments have been customised for this class:

- `\author`, `\title`, `\maketitle`
- `\tableofcontents`, `\listoffigure`, `\listoftables`
- `\section`, `\subsection`, `\subsubsection`, `\paragraph`, `\subparagraph`
- `\appendix`
- `\footnote`
- `\caption`
- `\printbibliography`, `\printbiblist{abbreviations}`
- `abstract`, `quotation`, `quote`

American, Greek and Hebrew are set up using `sblfonts` (and `babel`). A different main language can be chosen by passing the `babel` language name to the class.

1.2 Acknowledgements

The `sblarticle` class depends on a number of other packages:

- `sblfonts` (with `fontspec`, `fontenc` and `babel`), `biblatex-sbl` (with `biblatex`)
- `csquotes`, `geometry`, `setspace`, `ragged2e`, `fancyhdr`
- When `\DocumentMetadata` is not in use: `caption`, `footmisc`, `titlesec`, `titletoc`

1.3 Bug Reports and Feature Requests

Bug reports and feature requests can be made at the `sbltex` GitHub repository. See <https://github.com/dcpurton/sbltex>.

Note: This class is compatible with the L^AT_EX tagging project at release time. Although, regular updates will continue to be needed as the tagging project evolves and improves. The demonstration thesis, `sbltex-termpaper.pdf` in the documentation is built with tagging enabled and successfully verifies with VeraPDF.

2 Package Commands

<code>\course</code>	<code>\course {⟨Course name⟩}</code>
----------------------	--------------------------------------

Set the name of the course the paper is for. This is included on the title page.

<code>\institution</code>	<code>\institution {⟨Institution name⟩}</code>
---------------------------	--

Set the name of the institution the paper will be submitted at. This is included on the title page.

<code>\professor</code>	<code>\professor {⟨Professor name⟩}</code>
-------------------------	--

Set the name of the professor the paper will be submitted to. This is included on the title page.

3 Package Options

Items passed to the options below are *appended* to the default options rather than replacing them.

Any unrecognised options passed to the `sblarticle` class are passed through to the article class.

<code>biblatex</code>	<code>biblatex = {⟨arguments⟩}</code>	Default: <code>{style=sbl, language=auto, autolang=hyphen}</code>
-----------------------	---------------------------------------	---

These options are passed to the `biblatex` package.

See the `biblatex-sbl` package documentation for a full description of supported options and usage.

<code>sblfonts</code>	<code>sblfonts = {⟨arguments⟩}</code>
-----------------------	---------------------------------------

Options to pass to the `sblfonts` package.

The defaults depend on whether the engine in use is 8bit or Unicode:

8bit defaults:

```
{
  mainfont=tempora,
  grfont=Alegreya-LF,
  hefont=frank
}
```

Unicode defaults:

```
{
  mainfont=TeXGyreTermesX,
  mainfontoptions={Extension=.otf, UprightFont=*-Regular,
    ItalicFont=*-Italic, BoldFont=*-Bold,
    BoldItalicFont=*-BoldItalic},
  sblfonts=true
}
```

Note that you will need to download and install the SBL fonts yourself from <https://www.sbl-site.org/resources/fonts/>.

See the sblfonts package documentation for a full description of supported options and usage.

4 Implementation

```
1 <*class>
2 <@@=sblarticle>
3 \NeedsTeXFormat{LaTeX2e}
4 \ProvidesExplClass{sblarticle}{2026-07-22}{1.1}
5 {Society of Biblical Literature Article Class (DCP)}
6 \clist_new:N \l__sblarticle_options_to_article_class_clist
7 \keys_define:nn { sblarticle }
8 {
9   , biblatex .clist_set:N = \l__sblarticle_options_to_biblatex_clist
10  , sblfonts .clist_set:N = \l__sblarticle_options_to_sblfonts_clist
11  , unknown .code:n = {
12    \clist_put_right:No
13      \l__sblarticle_options_to_article_class_clist
14      { \CurrentOption }
15    }
16 }
17 \ProcessKeyOptions
```

Set default options.

```
18 \clist_put_left:Nn \l__sblarticle_options_to_article_class_clist
19 {
20   , 12pt
21   , titlepage
22 }
23 \clist_put_left:Nn \l__sblarticle_options_to_biblatex_clist
24 {
25   , style = sbl
26   , language = auto
27   , autolang = hyphen
28 }
29 \sys_if_engine_opentype:TF
30 {
31   \clist_put_left:Nn \l__sblarticle_options_to_sblfonts_clist
```

```

32     {
33         , mainfont          = TeXGyreTermesX
34         , mainfontoptions = {
35             , Extension      = .otf
36             , UprightFont    = *-Regular
37             , ItalicFont     = *-Italic
38             , BoldFont       = *-Bold
39             , BoldItalicFont = *-BoldItalic
40         }
41         , sblfonts          = true
42     }
43 }
44 {
45     \clist_put_left:Nn \l__sblarticle_options_to_sblfonts_clist
46     {
47         , mainfont = tempora
48         , grfont   = Alegreya-LF
49         , hefont   = frank
50     }
51 }

```

Load article class.

```

52 \exp_args:No \PassOptionsToClass
53 { \l__sblarticle_options_to_article_class_clist }
54 { article }
55 \LoadClass { article }

```

Font and language set up.

```

56 \exp_args:No \PassOptionsToPackage
57 { \l__sblarticle_options_to_sblfonts_clist }
58 { sblfonts }
59 \RequirePackage { sblfonts }

```

biblatex set up.

```

60 \exp_args:No \PassOptionsToPackage
61 { \l__sblarticle_options_to_biblatex_clist }
62 { biblatex }
63 \RequirePackage { biblatex }
64 \RequirePackage { csquotes }

```

4.1 Margins

```

65 \RequirePackage [ margin = 1in, headheight = 14.5pt ] { geometry }

```

4.2 Text layout

```

66 \RequirePackage { setspace }
67 \RequirePackage { ragged2e }
68 \doublespacing
69 \frenchspacing
70 \dim_set:Nn \RaggedRightParindent { 0.5in }
71 \dim_set:Nn \RaggedLeftParindent  { 0.5in }
72 \dim_set:Nn \JustifyingParindent   { 0.5in }
73 \RaggedRight
74 \sloppy

```

```

75 \raggedbottom
76 \sys_if_engine_luatex:F
77 {
78   \AddBabelHook [ hebrew ] { sblarticle } { afterextras }
79   {
80     \raggedleft
81     \parindent 0.5in
82   }
83   \AddBabelHook { sblarticle } { afterextras } { \RaggedRight }
84 }

```

4.3 Headers and footers

```

85 \RequirePackage { fancyhdr }
86 \pagestyle { fancy }
87 \fancyhf { }
88 \fancyhead [ R ] { \thepage }
89 \cs_set_nopar:Npn \headrulewidth { Opt }
90 \cs_set_nopar:Npn \sectionmark #1
91 {
92   \markboth
93   { \int_compare:nNnT
94     { \c@secnumdepth } > { \c_zero_int }
95     { \thesection \skip_horizontal:n { 1em } }
96     #1
97   }
98   { }
99 }

```

4.4 Footnotes

Different handling is required for footnotes when tagging code is loaded.

```

100 \IfDocumentMetadataTF
101 {
102   \hook_gput_code:nnn { fntext / para } { sblarticle }
103   { \RaggedRight }
104   \socket_new_plug:nnn { fntext / mark } { sblarticle }
105   {
106     \skip_horizontal:N \footnotemargin
107     \@thefnmark . \enspace
108   }
109   \socket_assign_plug:nn { fntext / mark } { sblarticle }
110   \socket_assign_plug:nn
111   { build / column / outputbox }
112   { floats-space-footnotes }
113 }
114 {
115   \RequirePackage [ bottom, ragged ] { footmisc }
116   \cs_set_protected:Npn \@makefntext #1
117   {
118     \dim_set_eq:NN \parindent \footnotemargin
119     \@thefnmark . \enspace
120     \footnotelayout #1
121   }
122 }

```

```

123 \dim_set:Nn \footnotemargin { 0.5in }
124 \cs_set:Npn \footnoterule
125 {
126   \kern -3pt
127   \hrule width 2in
128   \kern 2.6pt
129   \vskip -8pt
130 }
131 \dim_set:Nn \footnotesep { 20pt }

```

4.5 Captions

```

132 \skip_set:Nn \abovecaptionskip { 6pt }
133 \skip_set:Nn \belowcaptionskip { 6pt }
134 \cs_set:Npn \thefigure
135 {
136   \arabic { figure }
137 }
138 \cs_set:Npn \thetable
139 {
140   \arabic { table }
141 }
142 \counterwithout { figure } { part }
143 \counterwithout { table } { part }

144 \IfDocumentMetadataTF
145 {
146   \NewSocketPlug { caption / label } { sblarticle }
147   {
148     \small
149     #1:~
150   }
151   \AssignSocketPlug { caption / label } { sblarticle }
152 }
153 {
154   \RequirePackage [ font = small , skip = 6pt ] { caption }
155 }

```

4.6 Block quotes

```

156 \IfDocumentMetadataTF
157 {
158   \EditInstance { blockenv } { quotation }
159   {
160     , final-code = \singlespacing
161                   \vspace* { -5pt }
162                   \ignorespaces
163   }
164   \EditInstance { block } { quotation-1 }
165   {
166     , begin-extra-vspace = 0pt
167     , begin-vspace       = 0pt
168     , left-margin        = 0.5in
169     , right-margin       = 0pt
170     , para-indent        = 0.5in

```

```

171     , para-vspace      = Opt
172   }
173   \EditInstance { blockenv } { quote }
174   {
175     , final-code = \singlespacing
176                  \vspace* { -5pt }
177                  \ignorespaces
178   }
179   \EditInstance { block } { quote-1 }
180   {
181     , begin-extra-vspace = Opt
182     , begin-vspace      = Opt
183     , left-margin       = 0.5in
184     , right-margin      = Opt
185     , para-indent       = Opt
186     , para-vspace       = 7pt
187   }
188 }
189 {
190   \renewenvironment { quotation }
191   {
192     \list { }
193     {
194       \dim_set:Nn \leftmargin { 0.5in }
195       \dim_zero:N \rightmargin
196       \dim_zero:N \topsep
197       \dim_zero:N \partopsep
198       \dim_zero:N \itemsep
199       \dim_zero:N \parsep
200       \dim_set:Nn \itemindent { 0.5in }
201       \dim_set:Nn \listparindent { 0.5in }
202     }
203     \item \relax
204     \singlespacing
205     \vspace* { -5pt }
206   }
207   {
208     \endlist
209   }
210   \renewenvironment { quote }
211   {
212     \list { }
213     {
214       \dim_set:Nn \leftmargin { 0.5in }
215       \dim_zero:N \rightmargin
216       \dim_zero:N \topsep
217       \dim_zero:N \partopsep
218       \dim_zero:N \itemsep
219       \dim_set:Nn \parsep { 7pt }
220       \dim_zero:N \itemindent
221       \dim_zero:N \listparindent
222     }
223     \item \relax
224     \singlespacing

```



```

225         \vspace* { -5pt }
226     }
227     {
228         \endlist
229     }
230 }

```

4.7 Title page

```

231 \tl_new:N \g__sblarticle_course_tl
232 \tl_new:N \g__sblarticle_institution_tl
233 \tl_new:N \g__sblarticle_professor_tl

234 \cs_new_protected:Npn \course #1
235 {
236     \tl_gset:Nn \g__sblarticle_course_tl { #1 }
237 }

238 \cs_new_protected:Npn \institution #1
239 {
240     \tl_gset:Nn \g__sblarticle_institution_tl { #1 }
241 }

242 \cs_new_protected:Npn \professor #1
243 {
244     \tl_gset:Nn \g__sblarticle_professor_tl { #1 }
245 }

246 \author { [Your ~ Name] }
247 \title { Title ~ of ~ Paper }
248 \tl_gset:Nn \g__sblarticle_course_tl { [Course ~ Number ~ and ~ Title] }
249 \tl_gset:Nn \g__sblarticle_institution_tl { [Name ~ of ~ Institution] }
250 \tl_gset:Nn \g__sblarticle_professor_tl { [Name ~ of ~ Professor] }

251 \NewTaggingSocket{ sblarticle / flatblock / begin } { 1 }
252 \NewTaggingSocket{ sblarticle / flatblock / end } { 0 }
253 \NewTaggingSocketPlug { sblarticle / flatblock / begin } { default }
254 {
255     \tag_struct_begin:n
256     {
257         tag = #1
258     }
259     \tagpdfsetup { para / flattened = true }
260 }
261 \NewTaggingSocketPlug { sblarticle / flatblock / end } { default }
262 {
263     \para_end:
264     \tag_struct_end:
265 }
266 \AssignTaggingSocketPlug { sblarticle / flatblock / begin } { default }
267 \AssignTaggingSocketPlug { sblarticle / flatblock / end } { default }

268 \cs_set_protected:Npn \maketitle
269 {
270     \newgeometry { top=2in, bottom=2in }
271     \pagenumbering { roman }
272     \thispagestyle { empty }
273     \group_begin:

```

```

274 \UseTaggingSocket { sblarticle / flatblock / begin }
275 { \UseStructureName { title / block } }
276 \singlespacing
277 \centering
278 \MakeUppercase { \g__sblarticle_institution_tl } \para_end:
279 \vfill
280 \doublespacing
281 \IfDocumentMetadataTF
282 {
283   \UseTaggingSocket { title } { } { \MakeUppercase { \@title } }
284 }
285 {
286   \MakeUppercase { \@title }
287 }
288 \para_end:
289 \vfill
290 \singlespacing
291 \MakeUppercase
292 { Submitted ~ to ~ \g__sblarticle_professor_tl } \para_end:
293 \MakeUppercase { in ~ Partial ~ Fulfilment ~ of } \para_end:
294 \MakeUppercase { \g__sblarticle_course_tl } \para_end:
295 \vfill
296 \MakeUppercase { By } \para_end:
297 \MakeUppercase { \@author } \para_end:
298 \MakeUppercase { \@date } \para_end:
299 \UseTaggingSocket { sblarticle / flatblock / end }
300 \group_end:
301 \restoregeometry
302 }

```

4.8 Abstract

_sblarticle_abstract_protected_end:n {<abstract>}

This function is used to inject _sblarticle_frontmatter_peek:

```

303 \cs_set_eq:Nc \_sblarticle_orig_protected_end:n { end~ }
304 \cs_new_protected_nopar:Nn \_sblarticle_abstract_protected_end:n
305 {
306   \_sblarticle_orig_protected_end:n { #1 }
307   \tl_if_eq:nnT { #1 } { abstract }
308   {
309     \cs_gset_eq:cN { end~ } \_sblarticle_orig_protected_end:n
310     \peek_remove_spaces:n
311     {
312       \peek_analysis_map_inline:n
313       {
314         \exp_args:No \token_if_eq_meaning:NNF { ##1 } \para_end:
315         {
316           \peek_analysis_map_break:n
317           {
318             \exp_after:wN
319             \_sblarticle_frontmatter_peek:
320             ##1
321           }
322         }
323       }
324     }
325   }
326 }

```

```

322         }
323         ##1
324     }
325 }
326 }
327 }

(End of definition for \_sblarticle_abstract_protected_end:n.)

328 \renewenvironment { abstract }
329 {
330     \part* { \abstractname }
331     \addcontentsline { toc } { part } { \abstractname }
332     \cs_gset_eq:cN { end~ } \_sblarticle_abstract_protected_end:n
333 }
334 {
335     \par
336     \clearpage
337     \pagestyle { fancy }
338 }

```

4.9 Section titles

```

339 \int_set:Nn \c@secnumdepth { -2 }
340 \cs_set_nopar:Npn \thepart
341 {
342     \@arabic \c@part
343 }

```

These two functions ensure consistent spacing after section headings whether body paragraph text follows or another section heading follows.

```

344 \cs_new_nopar:Nn \_sblarticle_before_head_correction:
345 {
346     \hook_gclear_next_code:n { para / before }
347 }

348 \cs_new_nopar:Nn \_sblarticle_after_head_correction:
349 {
350     \vspace* { -5.5pt }
351     \hook_gput_next_code:nn { para / before } { \vspace* { 5.5pt } }
352 }

```

For documents using \DocumentMetadata use standard kernel commands to redefine section headings, otherwise use the titlesec package.

```

353 \IfDocumentMetadataTF
354 {
355     \EditInstance { heading } { part }
356     {
357         , placement           = top
358         , after-penalty-vspace = 41pt
359         , after-vspace        = 37pt
360         , number-format       =
361         , prefix               =
362         , heading-decls       = \singlespacing
363                               \normalfont \normalsize

```

```

364                                     \centering
365     , title-decls                     =
366 }
367 \EditInstance { headformat } { part }
368 {
369     , title-format = \MakeUppercase {#1}
370     , number-title-sep = 12pt
371 }
372 \DeclareDocumentCommand \part { s = { shorttitle } o m }
373 {
374     \bool_if:nTF {#1}
375     {
376         \ParseLaTeXeHeading { part } {#1} {#2} {#3}
377     }
378     {
379         \tl_if_novalue:nTF {#2}
380         {
381             \ParseLaTeXeHeading { part } { \c_true_bool }
382             { shorttitle = {#3} } {#3}
383         }
384         {
385             \ParseLaTeXeHeading { part } { \c_true_bool }
386             {#2} {#3}
387         }
388     }
389     \__sblarticle_after_head_correction:
390 }
391 \EditInstance { heading } { section }
392 {
393     , before-vspace = 37pt
394     , after-vspace = 0pt
395     , heading-decls = \singlespacing
396                     \normalfont \normalsize \bfseries
397                     \centering
398 }
399 \EditInstance { heading } { subsection }
400 {
401     , before-vspace = 37pt
402     , after-vspace = 0pt
403     , heading-decls = \singlespacing
404                     \normalfont \normalsize
405                     \centering
406 }
407 \EditInstance { heading } { subsubsection }
408 {
409     , before-vspace = 37pt
410     , after-vspace = 0pt
411     , heading-decls = \singlespacing
412                     \normalfont \normalsize \bfseries \itshape
413 }
414 \DeclareInstance { heading } { paragraph } { display }
415 {
416     , name = paragraph
417     , parent-name = subsubsection

```

```

418         , level = 4
419         , before-vspace = 37pt
420         , after-vspace = 0pt
421         , heading-decls = \singlespacing
422                           \normalfont \normalsize
423         , mark-cmd = \paragraphmark {#1}
424         , headformat-instance = paragraph
425     }
426 \DeclareInstanceCopy { headformat } { paragraph } { std }
427 \EditInstance { heading } { subparagraph }
428 {
429     , before-vspace = 37pt
430     , after-vspace = 1em
431     , heading-decls = \normalfont \normalsize \bfseries
432 }
433 \EditInstance { headformat } { subparagraph }
434 {
435     , heading-indent = 0pt
436 }
437 \hook_gput_code:nnn { cmd / section / before } { sblarticle }
438 { \_sblarticle_before_head_correction: }
439 \hook_gput_code:nnn { cmd / subsection / before } { sblarticle }
440 { \_sblarticle_before_head_correction: }
441 \hook_gput_code:nnn { cmd / subsubsection / before } { sblarticle }
442 { \_sblarticle_before_head_correction: }
443 \hook_gput_code:nnn { cmd / paragraph / before } { sblarticle }
444 { \_sblarticle_before_head_correction: }
445 \hook_gput_code:nnn { cmd / section / after } { sblarticle }
446 { \_sblarticle_after_head_correction: }
447 \hook_gput_code:nnn { cmd / subsection / after } { sblarticle }
448 { \_sblarticle_after_head_correction: }
449 \hook_gput_code:nnn { cmd / subsubsection / after } { sblarticle }
450 { \_sblarticle_after_head_correction: }
451 }
452 {
453 \RequirePackage [ newparttoc ] { titlesec }
454 \titleclass { \part } [ 0 ] { top }
455 \titlespacing* { \part } { 0pt } { 41pt } { 37pt }
456 \titlespacing* { \section } { 0pt } { 37pt } { 0pt }
457 \titlespacing* { \subsection } { 0pt } { 37pt } { 0pt }
458 \titlespacing* { \subsubsection } { 0pt } { 37pt } { 0pt }
459 \titlespacing* { \paragraph } { 0pt } { 37pt } { 0pt }
460 \titlespacing* { \subparagraph } { 0pt } { 37pt } { 1em }
461 \titleformat
462 { \part }
463 [ block ]
464 {
465     \cs_if_exist_use:N \phantomsection
466     \normalfont \normalsize \singlespacing \filcenter
467 }
468 { }
469 { 12pt }
470 { \MakeUppercase }

```

```

471     [ \__sblarticle_after_head_correction: ]
472 \titleformat
473 { \section }
474 [ block ]
475 {
476     \__sblarticle_before_head_correction:
477     \normalfont \normalsize \singlespacing \bfseries \filcenter
478 }
479 { \thesection }
480 { 1em }
481 { }
482 [ \__sblarticle_after_head_correction: ]
483 \titleformat
484 { \subsection }
485 [ block ]
486 {
487     \__sblarticle_before_head_correction:
488     \normalfont \normalsize \singlespacing \filcenter
489 }
490 { \thesubsection }
491 { 1em }
492 { }
493 [ \__sblarticle_after_head_correction: ]
494 \titleformat
495 { \subsubsection }
496 [ block ]
497 {
498     \__sblarticle_before_head_correction:
499     \normalfont \normalsize \singlespacing \bfseries \itshape \filright
500 }
501 { \thesubsubsection }
502 { 1em }
503 { }
504 [ \__sblarticle_after_head_correction: ]
505 \titleformat
506 { \paragraph }
507 [ block ]
508 {
509     \__sblarticle_before_head_correction:
510     \normalfont \normalsize \singlespacing \filright
511 }
512 { \theparagraph }
513 { 1em }
514 { }
515 \titleformat
516 { \subparagraph }
517 [ runin ]
518 { \normalfont \normalsize \bfseries }
519 { \thesubparagraph }
520 { 1em }
521 { }
522 }

```

4.10 Table of contents and list of figures/tables

```

523 \int_set:Nn \c@tocdepth { 2 }
524 \IfDocumentMetadataT
525 {
526   \hook_gput_code:nnn { cmd / @starttoc / before } { sblarticle }
527   {
528     \hook_gput_next_code:nn { cmd / @input / before }
529     { \singlespacing }
530   }
531 }

532 \cs_set_protected:Npn \tableofcontents
533 {
534   \part* { \contentsname }
535   \@mkboth
536     { \contentsname }
537     { \contentsname }
538   \@starttoc { toc }
539   \clearpage
540   \__sblarticle_frontmatter_peek:
541 }

542 \cs_set_protected:Npn \listoffigures
543 {
544   \part* { \listfigurename }
545   \addcontentsline { toc } { part } { \listfigurename }
546   \@mkboth
547     { \listfigurename }
548     { \listfigurename }
549   \@starttoc { lof }
550   \clearpage
551   \__sblarticle_frontmatter_peek:
552 }

553 \cs_set_protected:Npn \listoftables
554 {
555   \part* { \listtablename }
556   \addcontentsline { toc } { part } { \listtablename }
557   \@mkboth
558     { \listtablename }
559     { \listtablename }
560   \@starttoc { lot }
561   \clearpage
562   \__sblarticle_frontmatter_peek:
563 }

```

For documents using `\DocumentMetadata` use standard kernel commands to redefine table of contents lines, otherwise use the `titletoc` package.

```

564 \IfDocumentMetadataTF
565 {
566   \text_declare_expand_equivalent:Nn \numberline
567   {
568     \exp_not:n { \numberline }
569   }
570   \hook_gput_code:nnn { cmd / @dottedtocline / before }
571   { sblarticle }

```

```

572     {
573       \addvspace { 14.5pt }
574     }
575     \hook_gput_code_with_args:nnn { contentsline / text / after }
576     { sblarticle }
577     {
578       \int_compare:nNnT {#1} > { -1 }
579       {
580         \cs_set_nopar:Npn \leaders ##1 ##2 { }
581       }
582     }
583     \cs_set_nopar:cpn { contentsline@text@-1@format }
584     { \MakeUppercase }
585     \socket_new:nn { sblarticle / numberline } { 1 }
586     \socket_new_plug:nnn { sblarticle / numberline }
587     { default }
588     {
589       \hook_use:nnw { contentsline / number / before } { 1 } {#1}
590       #1 \skip_horizontal:n { 1em }
591       \hook_use:nnw { contentsline / number / after } { 1 } {#1}
592     }
593     \socket_new_plug:nnn { sblarticle / numberline }
594     { part }
595     {
596       \hook_use:nnw { contentsline / number / before } { 1 } {#1}
597       \int_compare:nNnT { \sblarticle@appendices } = { 1 }
598       {
599         \MakeUppercase { \appendixname }
600         \int_compare:nNnT { \sblarticle@appendix@state } > { 1 }
601         {
602           \skip_horizontal:n
603           {
604             \InstanceValue { headformat } { part } { prefix-number-sep }
605           }
606           #1
607         }
608         : \enspace
609       }
610       \hook_use:nnw { contentsline / number / after } { 1 } {#1}
611     }
612     \socket_assign_plug:nn
613     { sblarticle / numberline } { default }
614     \cs_set_nopar:Npn \numberline #1
615     {
616       \socket_use:n { sblarticle / numberline } {#1}
617     }
618     \cs_set_nopar:Npn \l@part
619     {
620       \socket_assign_plug:nn { sblarticle / numberline } { part }
621       \@dottedtocline { -1 } { 0em } { 0em }
622     }
623     \cs_set_nopar:Npn \l@section
624     {
625       \socket_assign_plug:nn { sblarticle / numberline } { default }

```



```

626     \@dottedtocline { 1 } { 1em } { 0em }
627 }
628 \cs_set_nopar:Npn \l@subsection
629 {
630     \socket_assign_plug:nn { sblarticle / numberline } { default }
631     \@dottedtocline { 2 } { 2em } { 0em }
632 }
633 \cs_set_nopar:Npn \l@subsubsection
634 {
635     \socket_assign_plug:nn { sblarticle / numberline } { default }
636     \@dottedtocline { 3 } { 3em } { 0em }
637 }
638 \cs_set_nopar:Npn \l@paragraph
639 {
640     \socket_assign_plug:nn { sblarticle / numberline } { default }
641     \@dottedtocline { 4 } { 4em } { 0em }
642 }
643 \cs_set_nopar:Npn \l@subparagraph
644 {
645     \socket_assign_plug:nn { sblarticle / numberline } { default }
646     \@dottedtocline { 5 } { 5em } { 0em }
647 }
648 \cs_set_nopar:Npn \l@figure
649 {
650     \socket_assign_plug:nn { sblarticle / numberline } { default }
651     \@dottedtocline { 1 } { 0em } { 0em }
652 }
653 \cs_set_eq:NN \l@table \@figure
654 }
655 {
656     \RequirePackage { titletoc }

```

`\_sblarticle_hyperlink:nn` $\{\langle link \rangle\} \{\langle text \rangle\}$

A convenience version of `\hyperlink` that just uses $\langle text \rangle$ if `hyperref` isn't loaded.

```

657 \cs_new_protected:Nn \_sblarticle_hyperlink:nn
658 {
659     \cs_if_exist_use:NTF \hyperlink
660     { { #1 } { #2 } }
661     { #2 }
662 }

```

(End of definition for `\_sblarticle_hyperlink:nn`.)

```

663 \titlecontents { figure }
664 [ 2em ]
665 { \singlespacing \filright }
666 {
667     \_sblarticle_hyperlink:nn
668     { \Hy@tocdestname }
669     { \makebox [ 2em ] [ l ] { \thecontentslabel . \enspace } }
670 }
671 { }
672 { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
673 \titlecontents { table }

```

```

674     [ 2em ]
675     { \singlespacing \filright }
676     {
677         \__sblarticle_hyperlink:nn
678         { \Hy@tocdestname }
679         { \makebox [ 2em ] [ l ] { \thecontentslabel . \enspace } }
680     }
681     { }
682     { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
683 \titlecontents { part }
684     [ Opt ]
685     { \singlespacing \filright }
686     { \MakeUppercase }
687     { \MakeUppercase }
688     { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
689 \titlecontents { section }
690     [ 1em ]
691     { \singlespacing \filright }
692     {
693         \__sblarticle_hyperlink:nn
694         { \Hy@tocdestname }
695         { \thecontentslabel \hspace { 1em } }
696     }
697     { }
698     { \hfill \contentspage }
699 \titlecontents { subsection }
700     [ 2em ]
701     { \singlespacing \filright }
702     {
703         \__sblarticle_hyperlink:nn
704         { \Hy@tocdestname }
705         { \thecontentslabel \hspace { 1em } }
706     }
707     { }
708     { \hfill \contentspage }
709 \titlecontents { subsubsection }
710     [ 3em ]
711     { \singlespacing \filright }
712     {
713         \__sblarticle_hyperlink:nn
714         { \Hy@tocdestname }
715         { \thecontentslabel \hspace { 1em } }
716     }
717     { }
718     { \hfill \contentspage }
719 \titlecontents { paragraph }
720     [ 4em ]
721     { \singlespacing \filright }
722     {
723         \__sblarticle_hyperlink:nn
724         { \Hy@tocdestname }
725         { \thecontentslabel \hspace { 1em } }
726     }
727     { }

```

```

728     { \hfill \contentspage }
729 \titlecontents { subparagraph }
730   [ 5em ]
731   { \singlespacing \filright }
732   {
733     \__sblarticle_hyperlink:nn
734     { \Hy@tocdestname }
735     { \thecontentslabel \hspace { 1em } }
736   }
737   { }
738   { \hfill \contentspage }
739 }

```

4.11 Appendices

Set up appendix headings and table of contents.

```

740 \cs_set_eq:NN \sblarticle@hyperlink \__sblarticle_hyperlink:nn

```

Create a state flag indicating if `\appendix` has been called. Within appendices, this flag is set to a value of 1. This is only used when `\DocumentMetadata` is in use.

```

741 \int_new:N \sblarticle@appendices

```

Create a state flag for number of appendices. A value of 0 indicates there are no appendices, 1 indicates one appendix and 2 indicates multiple appendices.

```

742 \int_new:N \sblarticle@appendix@state

```

```

743 \hook_gput_code:nnn { enddocument / afterlastpage } { sblarticle }
744 {
745   \protected@write \@auxout
746   { }
747   {
748     \exp_not:N \global
749     \exp_not:N \sblarticle@appendix@state
750     \int_use:N \sblarticle@appendix@state
751   }
752 }

```

```

753 \cs_new_protected:Nn \__sblarticle_set_up_appendices:
754 {
755   \int_compare:nNnT { \c@secnumdepth } < { \c_zero_int }
756   {
757     \int_set:Nn \c@secnumdepth { 0 }
758   }
759   \int_compare:nNnT { \sblarticle@appendix@state } = { 1 }
760   { \int_gzero:N \sblarticle@appendix@state }
761   \cs_if_exist_use:NT \hypersetup
762   {
763     {
764       target-prefix = { part } { \Hy@appendixstring }
765     }
766   }
767   \cs_set_nopar:Npn \thepart { \arabic { part } }
768   \cs_set_nopar:Npn \thesection { \arabic { section } }
769   \int_zero:N \c@part

```

```

770 \IfDocumentMetadataTF
771 {
772   \addtocontents { toc } { \sblarticle@appendices 1 }
773   \cs_new:Nn \__sblarticle_appendix_number_format:n
774   {
775     \int_compare:nNnT
776     { \sblarticle@appendix@state } > { 1 }
777     { \theheading }
778   }
779   \cs_new:Nn \__sblarticle_appendix_prefix_number_sep:
780   {
781     \int_compare:nNnTF
782     { \sblarticle@appendix@state } > { 1 }
783     { 0.5em }
784     { 0em }
785   }
786   \EditInstance { heading } { part }
787   {
788     , after-penalty-vspace = 35.7pt
789     , number-format        = \__sblarticle_appendix_number_format:n
790     , prefix               = \MakeUppercase { \appendixname }
791   }
792   \EditInstance { headformat } { part }
793   {
794     , title-format        = \MakeUppercase {##1}
795     , number-title-sep    = 12pt
796     , prefix-number-sep   = \__sblarticle_appendix_prefix_number_sep:
797   }
798   \DeclareDocumentCommand \part { s = { shorttitle } o m }
799   {
800     \bool_if:nF {##1}
801     {
802       \int_compare:nNnT { \sblarticle@appendix@state } < { 2 }
803       { \int_gincr:N \sblarticle@appendix@state }
804     }
805     \ParseLaTeXeHeading { part } {##1} {##2} {##3}
806     \__sblarticle_after_head_correction:
807   }
808   \DeclareDocumentCommand \section { s = { shorttitle } o m }
809   {
810     \bool_if:nF {##1}
811     {
812       \int_compare:nNnT { \sblarticle@appendix@state } < { 2 }
813       { \int_gincr:N \sblarticle@appendix@state }
814     }
815     \ParseLaTeXeHeading { part } {##1} {##2} {##3}
816     \__sblarticle_after_head_correction:
817   }
818   \DeclareDocumentCommand \subsection { s = { shorttitle } o m }
819   {
820     \__sblarticle_before_head_correction:
821     \ParseLaTeXeHeading { section } {##1} {##2} {##3}
822     \__sblarticle_after_head_correction:
823   }

```

```

824 \DeclareDocumentCommand \subsubsection { s = { shorttitle } o m }
825 {
826   \_sblarticle_before_head_correction:
827   \ParseLaTeXeHeading { subsection } {##1} {##2} {##3}
828   \_sblarticle_after_head_correction:
829 }
830 \DeclareDocumentCommand \paragraph { s = { shorttitle } o m }
831 {
832   \_sblarticle_before_head_correction:
833   \ParseLaTeXeHeading { subsubsection } {##1} {##2} {##3}
834   \_sblarticle_after_head_correction:
835 }
836 \DeclareDocumentCommand \subparagraph { s = { shorttitle } o m }
837 {
838   \_sblarticle_before_head_correction:
839   \ParseLaTeXeHeading { paragraph } {##1} {##2} {##3}
840 }
841 }
842 {
843   \titlespacing* { \part } { Opt } { 35.7pt } { 37pt }
844   \cs_set_eq:NN \subparagraph \paragraph
845   \cs_set_eq:NN \paragraph \subsubsection
846   \cs_set_eq:NN \subsubsection \subsection
847   \cs_set_eq:NN \subsection \section
848   \cs_set_eq:NN \section \part
849   \titleformat
850   { \part }
851   [ display ]
852   {
853     \cs_if_exist_use:N \phantomsection
854     \singlespacing \normalfont \normalsize \filcenter
855   }
856   {
857     \int_compare:nNnT { \sblarticle@appendix@state } < { 2 }
858     { \int_gincr:N \sblarticle@appendix@state }
859     \MakeUppercase { \appendixname }
860     \int_compare:nNnT { \sblarticle@appendix@state } > { 1 }
861     { \space \thepart }
862   }
863   { 12pt }
864   { \MakeUppercase }
865   [ \_sblarticle_after_head_correction: ]
866 \titlecontents { part }
867 [ Opt ]
868 { \singlespacing \filright }
869 {
870   \sblarticle@hyperlink
871   { \Hy@tocdestname }
872   {
873     \MakeUppercase { \appendixname }
874     \ifnum \sblarticle@appendix@state > 1
875       \strut \space \thecontentslabel
876     \fi
877     : \enspace

```

```

878         }
879         \MakeUppercase
880     }
881     { \MakeUppercase }
882     { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
883 }
884 }
885 \hook_gput_code:nnn
886 { cmd / appendix / after }
887 { sblarticle }
888 { \_sblarticle_set_up_appendices: }

```

4.12 Bibliography and list of abbreviations

```

889 \DefineBibliographyStrings { english }
890 {
891     shorthands = { List-of~Abbreviations }
892 }
893 \cs_set_nopar:Npn \bibsetup { \singlespacing }
894 \dim_set:Nn \bibhang { 0.5in }
895 \dim_set:Nn \bibitemsep { 12pt }
896 \dim_set:Nn \biblabelsep { 0.5in }
897 \defbibheading { bibliography } [ \bibname ]
898 {
899     \part* {#1}
900 }
901 \defbibheading { bibintoc } [ \bibname ]
902 {
903     \part* {#1}
904     \addcontentsline { toc } { part } {#1}
905 }
906 \defbibheading { biblist } [ \biblistname ]
907 {
908     \part* {#1}
909 }
910 \defbibheading { biblistintoc } [ \biblistname ]
911 {
912     \part* {#1}
913     \addcontentsline { toc } { part } {#1}
914 }

```

Peeking ahead from the end of `\printbiblist` is slightly more complicated because we only want to do so when it's in the front matter and it's defined with `\newrobustcmd*` with optional arguments.

```

915 \cs_new_protected:Npn \sblarticle@printbiblist@frontmatter@peek
916 {
917     \_sblarticle_if_page_numbering:nT { roman }
918     {
919         \_sblarticle_frontmatter_peek:
920     }
921 }

```

4.13 Helper functions

```

922 \ExplSyntaxOff
923 \expandafter\apptocmd\csname\string\printbiblist\endcsname
924   {\sblarticle@printbiblist@frontmatter@peek}
925   {}
926   {}
927 \ExplSyntaxOn

```

`\_sblarticle_if_page_numbering:nT` $\{\langle\textit{numbering style}\rangle\} \{\langle\textit{code if true}\rangle\}$

Test if the current page numbering style matches a particular style. (e.g., arabic or roman).

```

928 \prg_new_protected_conditional:Npnn \_sblarticle_if_page_numbering:n #1 { T }
929 {
930   \cs_set_nopar:Nn \_sblarticle_thepage_test:
931     { \csname @ #1 \endcsname \c@page }
932   \if_meaning:w \thepage \_sblarticle_thepage_test:
933     \prg_return_true:
934   \else:
935     \prg_return_false:
936   \fi:
937 }

```

(End of definition for `\_sblarticle_if_page_numbering:nT`.)

`\_sblarticle_frontmatter_peek:` Peek ahead and insert the title of the paper at the start of the main matter.

```

938 \cs_new_protected:Nn \_sblarticle_frontmatter_peek:
939 {
940   \peek_analysis_map_inline:n
941   {

```

Test if the next token is a control sequence of not.

```

942     \int_compare:nNnTF {##2} = { -1 }
943     {
944       \exp_args:No \token_if_eq_meaning:NnF {##1} \par
945       {
946         \bool_case:nTF
947         {
948           {
949             \exp_args:No \token_if_eq_meaning_p:NN
950               {##1} \begin
951           }
952           { }
953         }
954         {
955           \exp_args:No \token_if_eq_meaning_p:NN
956             {##1} \tableofcontents
957         }
958         {
959           \exp_args:No \token_if_eq_meaning_p:NN
960             {##1} \listoffigures
961         }
962         { }
963       }
964       \exp_args:No \token_if_eq_meaning_p:NN

```

```

965         {##1} \listoftables
966     }
967     { }
968     {
969         \exp_args:No \token_if_eq_meaning_p:NN
970         {##1} \printbiblist
971     }
972     { }
973 }
974 { \peek_analysis_map_break:n {##1} }
975 {

```

Insert the paper title if some control sequence other than the above is found.

```

976         \peek_analysis_map_break:n
977         {
978             \part { \@title }
979             \pagenumbering { arabic }
980             ##1
981         }
982     }
983 }
984 }
985 {

```

Ignore spaces and insert the paper title if a token other than a control sequence is found.

```

986         \exp_args:No \token_if_space:NF {##1}
987         {
988             \peek_analysis_map_break:n
989             {
990                 \part { \@title }
991                 \pagenumbering { arabic }
992                 ##1
993             }
994         }
995     }
996 }
997 }

```

(End of definition for _sblarticle_frontmatter_peek:.)

Add the code to peek ahead after maketitle at the end of preamble because hyperref (if loaded) takes over things.

```

998 \hook_gput_code:nnn
999 { begindocument / before }
1000 { sblarticle }
1001 {
1002     \g@addto@macro \maketitle { \_sblarticle_frontmatter_peek: }
1003 }
1004 \endinput
1005 </class>

```