

The `sblreport` Class

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Abstract

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

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1 Introduction

The `sblreport` class creates a thesis 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 `report` 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{sblreport}`. See `sbltex-thesis.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 `sblreport` 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-thesis.pdf` in the documentation is built with tagging enabled and successfully verifies with VeraPDF.

2 Package Commands

<code>\degree</code>	<code>\degree {\textit{Degree name}}</code>
----------------------	---

Set the name of the degree the thesis is for. This is included on the title page.

<code>\institution</code>	<code>\institution {\textit{Institution name}}</code>
---------------------------	---

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

3 Package Environments

<code>acknowledgements</code>	<code>\begin {\textit{acknowledgements}}</code> <code>\end {\textit{acknowledgements}}</code>
-------------------------------	--

Add an Acknowledgements page to the thesis. The name of the section can be changed by redefining `\acknowledgementsname`.

<code>approvalpage</code>	<code>\begin {\textit{approvalpage}}</code> <code>\end {\textit{approvalpage}}</code>
---------------------------	--

Add an approval page to the thesis. This page is empty by default.

<code>copyrightpage</code>	<code>\begin {\textit{copyrightpage}}</code> <code>\end {\textit{copyrightpage}}</code>
----------------------------	--

Add a copyright page to the thesis. This page is empty by default.

<code>dedication</code>	<code>\begin {\textit{dedication}}</code> <code>\end {\textit{dedication}}</code>
-------------------------	--

Add a dedication to the thesis. This page is empty by default.

<code>epigraph</code>	<code>\begin {\textit{epigraph}}</code> <code>\end {\textit{epigraph}}</code>
-----------------------	--

Add an epigraph to the thesis. This page is empty by default.

<code>preface</code>	<code>\begin {\textit{preface}}</code> <code>\end {\textit{preface}}</code>
----------------------	--

Add an Preface to the thesis. The name of the section can be changed by redefining `\prefacename`.

4 Package Options

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

Any unrecognised options passed to the `sblreport` class are passed through to the report class.

biblatex	<code>biblatex = {\langle arguments \rangle}</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.

sblfonts	<code>sblfonts = {\langle arguments \rangle}</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/>.

5 Implementation

```
1 \*class
2 \@@=sblreport
3 \NeedsTeXFormat{LaTeX2e}
4 \ProvidesExplClass{sblreport}{2026-07-22}{1.1}
5   {Society of Biblical Literature Report Class (DCP)}
6 \clist_new:N \l__sblreport_options_to_report_class_clist
7 \keys_define:nn { sblreport }
8   {
9     , biblatex .clist_set:N = \l__sblreport_options_to_biblatex_clist
10    , sblfonts .clist_set:N = \l__sblreport_options_to_sblfonts_clist
11    , unknown .code:n = {
12      \clist_put_right:No
```

```

13                                     \l__sblreport_options_to_report_class_clist
14                                     { \CurrentOption }
15                                     }
16     }

```

17 \ProcessKeyOptions

Set default options.

```

18 \clist_put_left:Nn \l__sblreport_options_to_report_class_clist
19 {
20     , 12pt
21     , titlepage
22 }

23 \clist_put_left:Nn \l__sblreport_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__sblreport_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__sblreport_options_to_sblfonts_clist
46     {
47         , mainfont = tempora
48         , grfont   = Alegreya-LF
49         , hefont   = frank
50     }
51 }

```

Load report class.

```

52 \exp_args:No \PassOptionsToClass
53 { \l__sblreport_options_to_report_class_clist }
54 { report }
55 \LoadClass { report }

```

Font and language set up.

```

56 \exp_args:No \PassOptionsToPackage
57 { \l__sblreport_options_to_sblfonts_clist }
58 { sblfonts }

```

```
59 \RequirePackage { sblfonts }
```

biblatex set up.

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

5.1 Margins

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

5.2 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 ] { sblreport } { afterextras }
79   {
80     \raggedleft
81     \parindent 0.5in
82   }
83   \AddBabelHook { sblreport } { afterextras } { \RaggedRight }
84 }
```

5.3 Headers and footers

```
85 \RequirePackage { fancyhdr }
86 \pagestyle { fancy }
87 \fancyhf { }
88 \fancyhead [ R ] { \thepage }
89 \cs_set_nopar:Npn \headrulewidth { 0pt }
90 \cs_set_nopar:Npn \sectionmark #1
91 {
92   \markboth
93   { \int_compare:nNt
94     { \c@secnumdepth } > { \c_zero_int }
95     { \thesection \skip_horizontal:n { 1em } }
96     #1
97   }
98   { }
99 }
```

5.4 Footnotes

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

```

100 \IfDocumentMetadataTF
101 {
102   \hook_gput_code:nnn { fntext / para } { sblreport }
103   { \RaggedRight }
104   \socket_new_plug:nnn { fntext / mark } { sblreport }
105   {
106     \skip_horizontal:N \footnotemargin
107     \@thefnmark . \enspace
108   }
109   \socket_assign_plug:nn { fntext / mark } { sblreport }
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 }

```

5.5 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 } { chapter }
143 \counterwithout { table } { chapter }

144 \IfDocumentMetadataTF
145 {
146   \NewSocketPlug { caption / label } { sblreport }
147   {
148     \small
149     #1:~

```

```

150     }
151     \AssignSocketPlug { caption / label } { sblreport }
152   }
153   {
154     \RequirePackage [ font = small , skip = 6pt ] { caption }
155   }

```

5.6 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        = 0pt
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 = 0pt
182     , begin-vspace       = 0pt
183     , left-margin        = 0.5in
184     , right-margin       = 0pt
185     , para-indent        = 0pt
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 }

```

5.7 Title page

```

231 \tl_new:N \g__sblreport_degree_tl
232 \tl_new:N \g__sblreport_institution_tl
233 \cs_new_protected:Npn \degree #1
234 {
235     \tl_gset:Nn \g__sblreport_degree_tl { #1 }
236 }
237 \cs_new_protected:Npn \institution #1
238 {
239     \tl_gset:Nn \g__sblreport_institution_tl { #1 }
240 }
241 \author { [Your ~ Name] }
242 \title { Title ~ of ~ Paper }
243 \tl_gset:Nn \g__sblreport_degree_tl { [Degree ~ Name] }
244 \tl_gset:Nn \g__sblreport_institution_tl { [Name ~ of ~ Institution] }
245 \NewTaggingSocket{ sblreport / flatblock / begin } { 1 }
246 \NewTaggingSocket{ sblreport / flatblock / end } { 0 }
247 \NewTaggingSocketPlug { sblreport / flatblock / begin } { default }
248 {
249     \tag_struct_begin:n
250     {

```

```

251         tag = #1
252     }
253     \tagpdfsetup { para / flattened = true }
254 }
255 \NewTaggingSocketPlug { sblreport / flatblock / end } { default }
256 {
257     \para_end:
258     \tag_struct_end:
259 }
260 \AssignTaggingSocketPlug { sblreport / flatblock / begin } { default }
261 \AssignTaggingSocketPlug { sblreport / flatblock / end } { default }
262 \cs_set_protected:Npn \maketitle
263 {
264     \newgeometry { top=2in, bottom=2in }
265     \pagenumbering { roman }
266     \thispagestyle { empty }
267     \group_begin:
268         \UseTaggingSocket { sblreport / flatblock / begin }
269         { \UseStructureName { title / block } }
270         \singlespacing
271         \centering
272         \MakeUppercase { \g__sblreport_institution_tl } \para_end:
273         \vfill
274         \doublespacing
275         \IfDocumentMetadataTF
276         {
277             \UseTaggingSocket { title } { } { \MakeUppercase { \@title } }
278         }
279         {
280             \MakeUppercase { \@title }
281         }
282         \para_end:
283         \vfill
284         \singlespacing
285         \MakeUppercase { Submitted ~ to ~ the ~ Faculty } \para_end:
286         \MakeUppercase { in ~ Partial ~ Fulfilment ~ of ~ the } \para_end:
287         \MakeUppercase { Requirements ~ for ~ the ~ Degree } \para_end:
288         \MakeUppercase { \g__sblreport_degree_tl } \para_end:
289         \vfill
290         \MakeUppercase { By } \para_end:
291         \MakeUppercase { \@author } \para_end:
292         \MakeUppercase { \@date } \para_end:
293         \UseTaggingSocket { sblreport / flatblock / end }
294     \group_end:
295     \restoregeometry
296 }

```

5.8 Front matter environments

```

297 \RenewDocumentEnvironment { abstract } { }
298 {
299     \chapter* { \abstractname }
300     \addcontentsline { toc } { chapter } { \abstractname }
301 }

```

```

302 { }

303 \cs_set_nopar:Npn \acknowledgementsname { Acknowledgements }
304 \NewDocumentEnvironment { acknowledgements } { }
305 {
306   \chapter* { \acknowledgementsname }
307   \addcontentsline { toc } { chapter } { \acknowledgementsname }
308 }
309 { }

310 \cs_set_nopar:Npn \prefacename { Preface }
311 \NewDocumentEnvironment { preface } { }
312 {
313   \chapter* { \prefacename }
314   \addcontentsline { toc } { chapter } { \prefacename }
315 }
316 { }

317 \NewDocumentEnvironment { copyrightpage } { }
318 {
319   \clearpage
320   \thispagestyle { empty }
321   \UseTaggingSocket { sblreport / flatblock / begin } { text-unit }
322 }
323 {
324   \UseTaggingSocket { sblreport / flatblock / end }
325 }

326 \NewDocumentEnvironment { approvalpage } { }
327 {
328   \clearpage
329   \thispagestyle { empty }
330   \UseTaggingSocket { sblreport / flatblock / begin } { text-unit }
331 }
332 {
333   \UseTaggingSocket { sblreport / flatblock / end }
334 }

335 \NewDocumentEnvironment { dedication } { }
336 {
337   \clearpage
338   \thispagestyle { empty }
339   \UseTaggingSocket { sblreport / flatblock / begin } { text-unit }
340 }
341 {
342   \UseTaggingSocket { sblreport / flatblock / end }
343 }

344 \NewDocumentEnvironment { epigraph } { }
345 {
346   \clearpage
347   \thispagestyle { empty }
348   \UseTaggingSocket { sblreport / flatblock / begin } { text-unit }
349 }
350 {
351   \UseTaggingSocket { sblreport / flatblock / end }
352 }

```

5.9 Section titles

```
353 \int_set:Nn \c@secnumdepth { 0 }
354 \cs_set_nopar:Npn \thepart { \arabic { part } }
```

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

```
355 \cs_new_nopar:Nn \__sblreport_before_head_correction:
356 {
357   \hook_gclear_next_code:n { para / before }
358 }

359 \cs_new_nopar:Nn \__sblreport_after_head_correction:
360 {
361   \vspace* { -5.5pt }
362   \hook_gput_next_code:nn { para / before } { \vspace* { 5.5pt } }
363 }
```

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

```
364 \IfDocumentMetadataTF
365 {
366   \EditInstance { heading } { part }
367   {
368     , heading-decls      = \singlespacing
369                           \normalfont \normalsize
370                           \centering
371     , prefix             = \MakeUppercase { \partname }
372     , title-decls        =
373     , start-code         = \cleardoublepage
374                           \thispagestyle { empty }
375                           \null \vfil
376   }
377   \EditInstance { headformat } { part }
378   {
379     , title-format       = \MakeUppercase {#1}
380     , number-title-sep   = 12pt
381   }
382   \DeclareDocumentCommand \part { s = { shorttitle } o m }
383   {
384     \ParseLaTeXeHeading { part } {#1} {#2} {#3}
385   }
386   \EditInstance { heading } { chapter }
387   {
388     , placement          = top
389     , after-penalty-vspace = 35.7pt
390     , after-vspace        = 37pt
391     , prefix              = \MakeUppercase { \chaptername }
392     , heading-decls       = \singlespacing
393                           \normalfont \normalsize
394                           \centering
395     , title-decls         =
396   }
397   \EditInstance { headformat } { chapter }
398   {
```

```

399     , title-format      = \MakeUppercase {#1}
400     , number-title-sep = 12pt
401   }
402   \DeclareDocumentCommand \chapter { s = { shorttitle } o m }
403   {
404     \IfBooleanF {#1}
405     {
406       \__sblreport_if_page_numbering:nT { roman }
407       {
408         \cleardoublepage
409         \pagenumbering { arabic }
410       }
411     }
412     \ParseLaTeXeHeading { chapter } {#1} {#2} {#3}
413     \__sblreport_after_head_correction:
414   }
415   \EditInstance { heading } { section }
416   {
417     , before-vspace = 37pt
418     , after-vspace  = 0pt
419     , heading-decls = \singlespacing
420                     \normalfont \normalsize \bfseries
421                     \centering
422   }
423   \EditInstance { heading } { subsection }
424   {
425     , before-vspace = 37pt
426     , after-vspace  = 0pt
427     , heading-decls = \singlespacing
428                     \normalfont \normalsize
429                     \centering
430   }
431   \EditInstance { heading } { subsubsection }
432   {
433     , before-vspace = 37pt
434     , after-vspace  = 0pt
435     , heading-decls = \singlespacing
436                     \normalfont \normalsize \bfseries \itshape
437   }
438   \DeclareInstance { heading } { paragraph } { display }
439   {
440     , name           = paragraph
441     , parent-name    = subsubsection
442     , level          = 4
443     , before-vspace  = 37pt
444     , after-vspace   = 0pt
445     , heading-decls  = \singlespacing
446                     \normalfont \normalsize
447     , mark-cmd       = \paragraphmark {#1}
448     , headformat-instance = paragraph
449   }
450   \DeclareInstanceCopy { headformat } { paragraph } { std }
451   \EditInstance { heading } { subparagraph }
452   {

```

```

453     , before-vspace = 37pt
454     , after-vspace = 1em
455     , heading-decls = \normalfont \normalsize \bfseries
456   }
457   \EditInstance { headformat } { subparagraph }
458   {
459     , heading-indent = 0pt
460   }
461   \hook_gput_code:nnn { cmd / section / before } { sblreport }
462   { \_sblreport_before_head_correction: }
463   \hook_gput_code:nnn { cmd / subsection / before } { sblreport }
464   { \_sblreport_before_head_correction: }
465   \hook_gput_code:nnn { cmd / subsubsection / before } { sblreport }
466   { \_sblreport_before_head_correction: }
467   \hook_gput_code:nnn { cmd / paragraph / before } { sblreport }
468   { \_sblreport_before_head_correction: }
469   \hook_gput_code:nnn { cmd / section / after } { sblreport }
470   { \_sblreport_after_head_correction: }
471   \hook_gput_code:nnn { cmd / subsection / after } { sblreport }
472   { \_sblreport_after_head_correction: }
473   \hook_gput_code:nnn { cmd / subsubsection / after } { sblreport }
474   { \_sblreport_after_head_correction: }
475 }
476 {
477   \RequirePackage [ newparttoc ] { titlesec }
478   \titleclass { \part } { page }
479   \assignpagestyle { \part } { empty }
480   \titlespacing* { \part } { 0pt } { 0pt } { 0pt }
481   \titlespacing* { \chapter } { 0pt } { 35.7pt } { 37pt }
482   \titlespacing* { \section } { 0pt } { 37pt } { 0pt }
483   \titlespacing* { \subsection } { 0pt } { 37pt } { 0pt }
484   \titlespacing* { \subsubsection } { 0pt } { 37pt } { 0pt }
485   \titlespacing* { \paragraph } { 0pt } { 37pt } { 0pt }
486   \titlespacing* { \subparagraph } { 0pt } { 37pt } { 1em }
487   \titleformat
488   { \part }
489   [ display ]
490   {
491     \cs_if_exist_use:N \phantomsection
492     \vfil \normalfont \normalsize \singlespacing \filcenter
493   }
494   {
495     \MakeUppercase { \partname } \space \thepart
496   }
497   { 12pt }
498   { \MakeUppercase }
499   [ \vfil ]
500   \titleformat
501   { \chapter }
502   [ display ]
503   { \normalfont \normalsize \singlespacing \filcenter }
504   {
505     \_sblreport_if_page_numbering:nT { roman }

```

```

506         { \pagenumbering { arabic } }
507     \MakeUppercase { \chaptername } \space \thechapter
508 }
509 { 12pt }
510 { \MakeUppercase }
511 [ \_sblreport_after_head_correction: ]
512 \titleformat
513 { \section }
514 [ block ]
515 {
516     \_sblreport_before_head_correction:
517     \normalfont \normalsize \singlespacing \bfseries \filcenter
518 }
519 { \thesection }
520 { 1em }
521 { }
522 [ \_sblreport_after_head_correction: ]
523 \titleformat
524 { \subsection }
525 [ block ]
526 {
527     \_sblreport_before_head_correction:
528     \normalfont \normalsize \singlespacing \filcenter
529 }
530 { \thesubsection }
531 { 1em }
532 { }
533 [ \_sblreport_after_head_correction: ]
534 \titleformat
535 { \subsubsection }
536 [ block ]
537 {
538     \_sblreport_before_head_correction:
539     \normalfont \normalsize \singlespacing \bfseries \itshape \filright
540 }
541 { \thesubsubsection }
542 { 1em }
543 { }
544 [ \_sblreport_after_head_correction: ]
545 \titleformat
546 { \paragraph }
547 [ block ]
548 {
549     \_sblreport_before_head_correction:
550     \normalfont \normalsize \singlespacing \filright
551 }
552 { \theparagraph }
553 { 1em }
554 { }
555 \titleformat
556 { \subparagraph }
557 [ runin ]
558 { \normalfont \normalsize \bfseries }
559 { \thesubparagraph }

```

```

560     { 1em }
561     { }
562 }

```

5.10 Table of contents and list of figures/tables

```

563 \int_set:Nn \c@tocdepth { 2 }

564 \IfDocumentMetadataT
565 {
566   \hook_gput_code:nnn { cmd / @starttoc / before } { sblreport }
567   {
568     \hook_gput_next_code:nn { cmd / @input / before }
569     { \singlespacing }
570   }
571 }

572 \cs_set:Npn \tableofcontents
573 {
574   \chapter* { \contentsname }
575   \mkboth
576   { \contentsname }
577   { \contentsname }
578   \@starttoc { toc }
579 }

580 \cs_set:Npn \listoffigures
581 {
582   \chapter* { \listfigurename }
583   \addcontentsline { toc } { chapter } { \listfigurename }
584   \mkboth
585   { \listfigurename }
586   { \listfigurename }
587   \@starttoc { lof }
588 }

589 \cs_set:Npn \listoftables
590 {
591   \chapter* { \listtablename }
592   \addcontentsline { toc } { chapter } { \listtablename }
593   \mkboth
594   { \listtablename }
595   { \listtablename }
596   \@starttoc { lot }
597 }

```

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

```

598 \IfDocumentMetadataTF
599 {
600   \text_declare_expand_equivalent:Nn \numberline
601   {
602     \exp_not:n { \numberline }
603   }
604   \hook_gput_code:nnn { cmd / @dottedtocline / before }
605   { sblreport }
606   {

```

```

607     \addvspace { 14.5pt }
608   }
609   \hook_gput_code_with_args:nnn { contentsline / text / after }
610   { sblreport }
611   {
612     \int_compare:nNnT {#1} > { \c_zero_int }
613     {
614       \cs_set_nopar:Npn \leaders ##1 ##2 { }
615     }
616   }
617   \cs_set_nopar:cpn { contentsline@text@0@format }
618   { \MakeUppercase }
619   \socket_new:nn { sblreport / numberline } { 1 }
620   \socket_new_plug:nnn { sblreport / numberline }
621   { default }
622   {
623     \hook_use:nnw { contentsline / number / before } { 1 } {#1}
624     #1 \skip_horizontal:n { 1em }
625     \hook_use:nnw { contentsline / number / after } { 1 } {#1}
626   }
627   \socket_new_plug:nnn { sblreport / numberline }
628   { chapter }
629   {
630     \hook_use:nnw { contentsline / number / before } { 1 } {#1}
631     \int_compare:nNnTF { \int_use:N \sblreport@appendices } = { 1 }
632     {
633       \InstanceValue { heading } { chapter } { prefix }
634       \int_compare:nNnT { \sblreport@appendix@state } > { 1 }
635       {
636         \skip_horizontal:n
637         {
638           \InstanceValue
639             { headformat } { chapter } { prefix-number-sep }
640         }
641         #1
642       }
643     }
644     {
645       \InstanceValue { heading } { chapter } { prefix }
646       \skip_horizontal:n
647       {
648         \InstanceValue { headformat } { chapter } { prefix-number-sep }
649       }
650       #1
651     }
652     : \enspace
653     \hook_use:nnw { contentsline / number / after } { 1 } {#1}
654   }
655   \socket_new_plug:nnn { sblreport / numberline }
656   { part }
657   {
658     \hook_use:nnw { contentsline / number / before } { 1 } {#1}
659     \InstanceValue { heading } { part } { prefix }
660     \skip_horizontal:n

```

```

661         {
662             \InstanceValue { headformat } { part } { prefix-number-sep }
663         }
664         #1
665         : \enspace
666         \hook_use:nnw { contentsline / number / after } { 1 } {#1}
667     }
668     \socket_assign_plug:nn
669     { sblreport / numberline } { default }
670     \cs_set_nopar:Npn \numberline #1
671     {
672         \socket_use:n { sblreport / numberline } {#1}
673     }
674     \cs_set_nopar:cpn { contentsline@text@-1@format }
675     { \MakeUppercase }
676     \cs_set_nopar:Npn \l@part #1#2
677     {
678         \socket_assign_plug:nn { sblreport / numberline } { part }
679         \addpenalty { -\@highpenalty }
680         \addvspace { 14.5pt }
681         \group_begin:
682             \centering
683             \skip_set:Nn \leftskip { \@pnumwidth plus 1.0fil }
684             \skip_set_eq:NN \rightskip \leftskip
685             {
686                 \mode_leave_vertical:
687                 \hook_use:nnw { contentsline / text / before } { 4 }
688                     { \toclevel@part }
689                     {#1}
690                     {#2}
691                     { \@contentsline@destination }
692                 \use:c { contentsline@text@-1@format } {#1}
693                 \hook_use:nnw { contentsline / text / after } { 4 }
694                     { \toclevel@part }
695                     {#1}
696                     {#2}
697                     { \@contentsline@destination }
698                 \hook_use:nnw { contentsline / page / before } { 4 }
699                     { \toclevel@part }
700                     {#1}
701                     {#2}
702                     { \@contentsline@destination }
703                 \hook_use:nnw { contentsline / page / after } { 4 }
704                     { \toclevel@part }
705                     {#1}
706                     {#2}
707                     { \@contentsline@destination }
708             }
709             \par
710             \nobreak
711         \group_end:
712     }
713     \cs_set_nopar:Npn \l@chapter
714     {

```

```

715     \socket_assign_plug:nn { sblreport / numberline } { chapter }
716     \@dottedtocline { 0 } { 0em } { 0em }
717   }
718   \cs_set_nopar:Npn \l@section
719   {
720     \socket_assign_plug:nn { sblreport / numberline } { default }
721     \@dottedtocline { 1 } { 1em } { 0em }
722   }
723   \cs_set_nopar:Npn \l@subsection
724   {
725     \socket_assign_plug:nn { sblreport / numberline } { default }
726     \@dottedtocline { 2 } { 2em } { 0em }
727   }
728   \cs_set_nopar:Npn \l@subsubsection
729   {
730     \socket_assign_plug:nn { sblreport / numberline } { default }
731     \@dottedtocline { 3 } { 3em } { 0em }
732   }
733   \cs_set_nopar:Npn \l@paragraph
734   {
735     \socket_assign_plug:nn { sblreport / numberline } { default }
736     \@dottedtocline { 4 } { 4em } { 0em }
737   }
738   \cs_set_nopar:Npn \l@subparagraph
739   {
740     \socket_assign_plug:nn { sblreport / numberline } { default }
741     \@dottedtocline { 5 } { 5em } { 0em }
742   }
743   \cs_set_nopar:Npn \l@figure
744   {
745     \socket_assign_plug:nn { sblreport / numberline } { default }
746     \@dottedtocline { 1 } { 0em } { 0em }
747   }
748   \cs_set_eq:NN \l@table \l@figure
749 }
750 {
751   \RequirePackage { titletoc }

```

`\_sblreport_hyperlink:nn` `{<link>}{<text>}`

A convenience version of `\hyperlink` that just uses `<text>` if `hyperref` isn't loaded.

```

752   \cs_new_protected:Nn \_sblreport_hyperlink:nn
753   {
754     \cs_if_exist_use:NTF \hyperlink
755     { { #1 } { #2 } }
756     { #2 }
757   }

```

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

```

758   \titlecontents { figure }
759   [ Opt ]
760   { \singlepadding \filright }
761   {
762     \_sblreport_hyperlink:nn

```

```

763         { \Hy@tocdestname }
764         { \makebox [ 2em ] [ r ] { \thecontentslabel . \enspace } }
765     }
766     { }
767     { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
768 \titlecontents { table }
769 [ Opt ]
770 { \singlespacing \filright }
771 {
772     \__sblreport_hyperlink:nn
773     { \Hy@tocdestname }
774     { \makebox [ 2em ] [ r ] { \thecontentslabel . \enspace } }
775 }
776 { }
777 { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
778 \titlecontents { part }
779 [ Opt ]
780 { \singlespacing \filcenter }
781 {
782     \__sblreport_hyperlink:nn
783     { \Hy@tocdestname }
784     {
785         \MakeUppercase { \partname } \space
786         \thecontentslabel : \enspace
787     }
788     \MakeUppercase
789 }
790 { \MakeUppercase }
791 { }
792 \titlecontents { chapter }
793 [ Opt ]
794 { \singlespacing \filright }
795 {
796     \__sblreport_hyperlink:nn
797     { \Hy@tocdestname }
798     {
799         \MakeUppercase { \chaptername } \space
800         \thecontentslabel : \enspace
801     }
802     \MakeUppercase
803 }
804 { \MakeUppercase }
805 { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
806 \titlecontents { section }
807 [ 1em ]
808 { \singlespacing \filright }
809 {
810     \__sblreport_hyperlink:nn
811     { \Hy@tocdestname }
812     { \thecontentslabel \hspace { 1em } }
813 }
814 { }
815 { \hfill \contentspage }
816 \titlecontents { subsection }

```

```

817 [ 2em ]
818 { \single spacing \filright }
819 {
820   \_sblreport\_hyperlink:nn
821   { \Hy@tocdestname }
822   { \thecontentslabel \hspace { 1em } }
823 }
824 { }
825 { \hfill \contentspage }
826 \titlecontents { subsubsection }
827 [ 3em ]
828 { \single spacing \filright }
829 {
830   \_sblreport\_hyperlink:nn
831   { \Hy@tocdestname }
832   { \thecontentslabel \hspace { 1em } }
833 }
834 { }
835 { \hfill \contentspage }
836 \titlecontents { paragraph }
837 [ 4em ]
838 { \single spacing \filright }
839 {
840   \_sblreport\_hyperlink:nn
841   { \Hy@tocdestname }
842   { \thecontentslabel \hspace { 1em } }
843 }
844 { }
845 { \hfill \contentspage }
846 \titlecontents { subparagraph }
847 [ 5em ]
848 { \single spacing \filright }
849 {
850   \_sblreport\_hyperlink:nn
851   { \Hy@tocdestname }
852   { \thecontentslabel \hspace { 1em } }
853 }
854 { }
855 { \hfill \contentspage }
856 }

```

5.11 Appendices

Set up appendix headings and table of contents.

```
857 \cs_set_eq:NN \sblreport@hyperlink \_sblreport\_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.

```
858 \int_new:N \sblreport@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.

```
859 \int_new:N \sblreport@appendix@state
```

```

860 \hook_gput_code:nnn { enddocument / afterlastpage } { sblreport }
861 {
862   \protected@write \@auxout
863   { }
864   {
865     \exp_not:N \global
866     \exp_not:N \sblreport@appendix@state
867     \int_use:N \sblreport@appendix@state
868   }
869 }

870 \cs_new_protected:Nn \__sblreport_set_up_appendices:
871 {
872   \int_compare:nNnT { \sblreport@appendix@state } = { 1 }
873   { \int_gzero:N \sblreport@appendix@state }
874   \cs_set_nopar:Npn \thechapter { \arabic { chapter } }
875   \IfDocumentMetadataTF
876   {
877     \addtocontents { toc } { \sblreport@appendices 1 }
878     \addtocontents { toc }
879     { \def \protect \chaptername { \appendixname } }
880     \cs_new:Nn \__sblreport_appendix_number_format:n
881     {
882       \int_compare:nNnT
883       { \sblreport@appendix@state } > { 1 }
884       { \theheading }
885     }
886     \cs_new:Nn \__sblreport_appendix_prefix_number_sep:
887     {
888       \int_compare:nNnTF
889       { \sblreport@appendix@state } > { 1 }
890       { 0.5em }
891       { 0em }
892     }
893     \EditInstance { heading } { chapter }
894     {
895       , number-format = \__sblreport_appendix_number_format:n
896       , prefix        = \MakeUppercase { \appendixname }
897     }
898     \EditInstance { headformat } { chapter }
899     {
900       , prefix-number-sep = \__sblreport_appendix_prefix_number_sep:
901     }
902     \DeclareDocumentCommand \chapter { s = { shorttitle } o m }
903     {
904       \bool_if:nF {##1}
905       {
906         \int_compare:nNnT { \sblreport@appendix@state } < { 2 }
907         { \int_gincr:N \sblreport@appendix@state }
908       }
909       \ParseLaTeXeHeading { chapter } {##1} {##2} {##3}
910       \__sblreport_after_head_correction:
911     }
912   }
913   {

```

```

914 \titleformat
915 { \chapter }
916 [ display ]
917 {
918 \singlespacing \normalfont \normalsize \filcenter
919 }
920 {
921 \int_compare:nNnT { \sblreport@appendix@state } < { 2 }
922 { \int_gincr:N \sblreport@appendix@state }
923 \MakeUppercase { \appendixname }
924 \int_compare:nNnT { \sblreport@appendix@state } > { 1 }
925 {
926 \space \thechapter
927 }
928 }
929 { 12pt }
930 { \MakeUppercase }
931 [ \_sblreport\_after\_head\_correction: ]
932 \titlecontents { chapter }
933 [ Opt ]
934 { \singlespacing \filright }
935 {
936 \sblreport@hyperlink
937 { \Hy@tocdestname }
938 {
939 \MakeUppercase { \appendixname }
940 \ifnum \sblreport@appendix@state > 1
941 \strut \space \thecontentslabel
942 \fi
943 : \enspace
944 }
945 \MakeUppercase
946 }
947 { \MakeUppercase }
948 { \hspace { 0.5em } \titlerule* [ 0.65pc ] { . } \contentspage }
949 }
950 }

951 \hook_gput_code:nnn
952 { cmd / appendix / after }
953 { sblreport }
954 { \_sblreport\_set\_up\_appendices: }

```

5.12 Bibliography and list of abbreviations

```

955 \DefineBibliographyStrings { english }
956 {
957 shorthands = { List~of~Abbreviations }
958 }
959 \cs_set_nopar:Npn \bibsetup { \singlespacing }
960 \dim_set:Nn \bibhang { 0.5in }
961 \dim_set:Nn \bibitemsep { 12pt }
962 \dim_set:Nn \biblabelsep { 0.5in }

```

5.13 Helper functions

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

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

```
963 \prg_new_protected_conditional:Npnn \_sblreport_if_page_numbering:n #1 { T }
964 {
965   \cs_set_nopar:Nn \_sblreport_thepage_test:
966   { \csname @ #1 \endcsname \c@page }
967   \if_meaning:w \thepage \_sblreport_thepage_test:
968     \prg_return_true:
969   \else:
970     \prg_return_false:
971   \fi:
972 }
```

(End of definition for _sblreport_if_page_numbering:nT.)

```
973 \endinput
974 \</class>
```