The **skrapport** class[*]

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1   Introduction

This document class is intended for simple reports submitted by the author at Chalmers University of Technology. It is small, straightforward and basically a restyling of the standard LaTeX article class. It does, however, offer a different set of options.

2   Usage

2.1   Options

a4paper,a5paper Paper size. Only these two are available; use the geometry package to utilize american or otherwise esoteric paper sizes. Default is a4paper.

10pt,11pt,12pt Font size, exactly like the standard article document class. Default is 11pt.

draft,final Trigger (or untrigger) draft mode, like the standard article class. Default is final.

fleqn,leqno Included for compatibility with article.

bftitles,rmtitles Decides wether to typeset titles using bold fonts or regular ones. Default is rmtitles (i.e. non-bold titles).

swe,eng Tells babel what language to load as the primary one. Both languages are loaded regardless. Default is swe.

lmodern,palatino Decides what font to use. Default is lmodern.

indent,noindent Decides wether to use paragraph indentation or parskip-style paragraphs. Default is noindent.

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[*]This document corresponds to skrapport v0.09, dated 2012/06/07.

onecolumn,twocolumn Decides wether the document has one column (default) or two (implemented using the excellend `multicol` package).

color,nocolor Enables or diables colors and color themes in the document. Default is `color`.

math, nomath Enables or disables loading the skmath package. Default is `math`.

2.2 Useful macros

In general, the class defines the same macros as the article class.

\regarding   The class does add a `\regarding` macro, which is used like the standard `\author` and `\title` macros and should be given an accurate but short description of the purpose of the report (i.e. course name or similar). This is printed along with the date on the top of the title/first page.

onecol   In `twocolumn` mode, the package defines an environment `onecol` which typesets its contents in a single column. Additionally, it redefines `figure` and `table` as \colortheme non-floats, leaving the starred versions intact. If the package is loaded with the `color` option, changing the color theme is possible using `colortheme`, which loads an appropriate package. At the moment, four color themes are available: default, unscathed, cruelwater and violet.

3 Additional information

3.1 Included packages

The document class includes babel, fontenc, icomma, amsmath, amssymb, microtype and hyperref by default, and skmath if it exists.

4 Implementation

Start by including kvoptions and defining some variables for future use.

```
 1 \RequirePackage{xstring}
 2 \RequirePackage{kvoptions}
 3 \SetupKeyvalOptions{family=skrapport,prefix=skrapport@}
 4 \newcommand\@ptsize{}
 5 \IfFileExists{ifxetex.sty}{%
 6   \RequirePackage{ifxetex}%
 7 }{%
 8   \newif\ifxetex\xetexfalse%
 9 }
```

Declare the paper size options.

```
10 \DeclareStringOption[a4paper]{paper}
11 \DeclareVoidOption{a4paper}{\skrapport@SetupPaper}
12 \DeclareVoidOption{a5paper}{\skrapport@SetupPaper}
13 \newcommand*{\skrapport@SetupPaper}{\expandafter\@skrapport@SetupPaper\expandafter{\CurrentOpti
```

14 \newcommand*{\@skrapport@SetupPaper}[1]{\setkeys{skrapport}{paper={#1}}}

Declare point size options.

15 \DeclareStringOption[11pt]{ptsize}
16 \DeclareVoidOption{10pt}{\skrapport@SetupPtsize}
17 \DeclareVoidOption{11pt}{\skrapport@SetupPtsize}
18 \DeclareVoidOption{12pt}{\skrapport@SetupPtsize}
19 \newcommand*{\skrapport@SetupPtsize}{\expandafter\@skrapport@SetupPtsize\expandafter{\CurrentOp
20 \newcommand*{\@skrapport@SetupPtsize}[1]{\setkeys{skrapport}{ptsize={#1}}}

Declare column options.

21 \DeclareBoolOption[false]{twocolumn}
22 \DeclareComplementaryOption{onecolumn}{twocolumn}

Declare draft and final options.

23 \DeclareBoolOption[false]{draft}
24 \DeclareComplementaryOption{final}{draft}

Declare the fleqn and leqno options for compatibility with the article class.

25 \DeclareBoolOption[false]{leqno}
26 \DeclareBoolOption[false]{fleqn}

Declare options for bold/roman section titles.

27 \DeclareStringOption[rm]{titles}
28 \DeclareVoidOption{rmtitles}{\skrapport@SetupTitles}
29 \DeclareVoidOption{bftitles}{\skrapport@SetupTitles}
30 \DeclareVoidOption{sftitles}{\skrapport@SetupTitles}
31 \newcommand*{\skrapport@SetupTitles}{\expandafter\@skrapport@SetupTitles\expandafter{\CurrentOp
32 \newcommand*{\@skrapport@SetupTitles}[1]{%
33 \IfStrEq{#1}{bftitles}{%
34 \setkeys{skrapport}{titles={bf}}%
35 }{\IfStrEq{#1}{sftitles}{%
36 \setkeys{skrapport}{titles={sf}}%
37 }{
38 \setkeys{skrapport}{titles={rm}}%
39 }}}

Declare options for swedish/english babel support.

40 \DeclareBoolOption[false]{eng}
41 \DeclareComplementaryOption{swe}{eng}

Declare font options.

42 \DeclareStringOption[kpfonts]{font}
43 \DeclareVoidOption{kpfonts}{\skrapport@SetupFont}
44 \DeclareVoidOption{lmodern}{\skrapport@SetupFont}
45 \DeclareVoidOption{palatino}{\skrapport@SetupFont}
46 \DeclareVoidOption{nofont}{\skrapport@SetupFont}
47 \newcommand*{\skrapport@SetupFont}{\expandafter\@skrapport@SetupFont\expandafter{\CurrentOption
48 \newcommand*{\@skrapport@SetupFont}[1]{\setkeys{skrapport}{font={#1}}}

Declare indentation options.

49 \DeclareBoolOption[false]{indent}
50 \DeclareComplementaryOption{noindent}{indent}

Declare color option.

```
51 \DeclareBoolOption[true]{color}
52 \DeclareComplementaryOption{nocolor}{color}
```

Declare math option.

```
53 \DeclareBoolOption[true]{math}
54 \DeclareComplementaryOption{nomath}{math}
```

Execute default options and process given options.

```
55 \ProcessKeyvalOptions*
```

Require packages as per given options.

```
56 \IfStrEq{\skrapport@paper}{a4paper}{%
57 \RequirePackage[a4paper]{geometry}
58 \setlength\paperheight {297mm}
59 \setlength\paperwidth  {210mm}
60 }{\IfStrEq{\skrapport@paper}{a5paper}{%
61 \RequirePackage[a5paper]{geometry}
62 \setlength\paperheight {210mm}
63 \setlength\paperwidth  {148mm}
64 }{%
65 \ClassError{skrapport}{%
66 Option 'paper' has unknown value '\skrapport@paper'
67 }{}
68 }}
69 \IfStrEq{\skrapport@ptsize}{10pt}{%
70 \renewcommand\@ptsize{0}
71 }{%
72 \IfStrEq{\skrapport@ptsize}{11pt}{%
73 \renewcommand\@ptsize{1}
74 }{%
75 \IfStrEq{\skrapport@ptsize}{12pt}{%
76 \renewcommand\@ptsize{2}
77 }{%
78 \ClassError{skrapport}{%
79 Option 'ptsize' has unknown value '\skrapport@ptsize'
80 }{}
81 }
82 }
83 }
84 \ifskrapport@draft
85 \setlength\overfullrule{5pt}
86 \else
87 \setlength\overfullrule{0pt}
88 \fi
89 \ifskrapport@leqno\input{leqno.clo}\fi
90 \ifskrapport@fleqn\input{fleqn.clo}\fi
91 \IfStrEq{\skrapport@titles}{bf}{%
92 \let\@titstyle\bfseries%
93 }{\IfStrEq{\skrapport@titles}{sf}{%
94 \let\@titstyle\sffamily\bfseries%
```

```latex
95 }{%
96 \let\@titstyle\relax%
97 }}
98 \ifxetex
99   \RequirePackage[quiet]{fontspec}
100 \DeclareRobustCommand\nobreakspace{\leavevmode\nobreak\space}
101 \else
102   \RequirePackage[T1]{fontenc}
103 \fi
104 \ifskrapport@color
105 \RequirePackage{etoolbox}
106 \RequirePackage{xcolor}
107 \fi
108 \IfStrEq{\skrapport@font}{nofont}{}{%
109 \IfStrEq{\skrapport@font}{kpfonts}{%
110 \RequirePackage[easyscsl,intlimits,sumlimits]{kpfonts}
111 }{%
112 \IfStrEq{\skrapport@font}{palatino}{%
113 \IfFileExists{tgpagella.sty}{%
114 \RequirePackage{tgpagella}
115 }{%
116 \RequirePackage[sc]{mathpazo}
117 }
118 }{%
119 \IfStrEq{\skrapport@font}{lmodern}{%
120 \RequirePackage{lmodern}
121 }{%
122 \ClassError{skrapport}{%
123 Option 'font' has unknown value '\skrapport@font'
124 }{}
125 }
126 }
127 }
128 }
129 \ifskrapport@eng
130 \ifxetex
131 \RequirePackage{xkeyval}
132 \RequirePackage{polyglossia}
133 \setmainlanguage[variant=british]{english}
134 \setotherlanguage{swedish}
135 \else
136 \RequirePackage[swedish,british]{babel}
137 \fi
138 \else
139 \ifxetex
140 \RequirePackage{xkeyval}
141 \RequirePackage{polyglossia}
142 \setmainlanguage{swedish}
143 \setotherlanguage[variant=british]{english}
144 \else
```

```
145    \RequirePackage[british,swedish]{babel}
146 \fi
147 \fi
148 \ifskrapport@twocolumn
149 \RequirePackage{etoolbox}
150 \RequirePackage{multicol}
151 \fi
```

Include some essential packages per default.

```
152 \RequirePackage{calc}
153 \AtEndOfClass{
154     \RequirePackage{microtype}
155 \RequirePackage{icomma}
156 \IfStrEq{\skrapport@font}{kpfonts}{}{\RequirePackage[intlimits]{amsmath}}
157 \let\Finv\relax
158 \let\Game\relax
159 \let\beth\relax
160 \let\gimel\relax
161 \let\daleth\relax
162 \IfStrEq{\skrapport@font}{kpfonts}{}{\RequirePackage{amssymb}}
163 \IfStrEq{\skrapport@font}{kpfonts}{}{\RequirePackage{textcomp}}
164 \ifskrapport@math\IfFileExists{skmath.sty}{\RequirePackage{skmath}}{}\fi
165 }
166 \AtBeginDocument{
167 \@ifundefined{urlstyle}{}{\urlstyle{same}}
168 }
```

Include the correct point size `.clo` file from the article class.

```
169 \input{size1\@ptsize.clo}
```

Set some default measurements.

```
170 \addtolength\textwidth{0.5\oddsidemargin}
171 \addtolength\textwidth{0.5\evensidemargin}
172 \addtolength\oddsidemargin{-0.5\oddsidemargin}
173 \addtolength\evensidemargin{-0.5\evensidemargin}
174 \setlength\lineskip{1\p@}
175 \setlength\normallineskip{1\p@}
176 \renewcommand\baselinestretch{}
```

Indentation code. Undo the indentation set by the article class if indentation was requested by the user. See the parskip package for further information. Enable french spacing as well.

```
177 \ifskrapport@indent\else
178         \setlength\parskip{0.5\baselineskip \@plus 2pt}
179 \parindent=\z@
180 \setlength\parfillskip{30\p@ \@plus 1fil}
181 \def\@listI{\leftmargin\leftmargini
182    \topsep\z@ \parsep\parskip \itemsep\z@}
183 \let\@listi\@listI
184 \@listi
185 \def\@listii{\leftmargin\leftmarginii
```

```
186    \labelwidth\leftmarginii\advance\labelwidth-\labelsep
187    \topsep\z@ \parsep\parskip \itemsep\z@}
188 \def\@listiii{\leftmargin\leftmarginiii
189    \labelwidth\leftmarginiii\advance\labelwidth-\labelsep
190    \topsep\z@ \parsep\parskip \itemsep\z@}
191 \partopsep=\z@
192 \@ifundefined{CheckCommand}{}{%
193    \CheckCommand*{\@starttoc}[1]{%
194      \begingroup
195        \makeatletter
196        \@input{\jobname.#1}%
197        \if@filesw
198          \expandafter\newwrite\csname tf@#1\endcsname
199          \immediate\openout \csname tf@#1\endcsname \jobname.#1\relax
200        \fi
201        \@nobreakfalse
202      \endgroup}}
203 \renewcommand*{\@starttoc}[1]{%
204    \begingroup
205      \makeatletter
206      \parskip\z@
207      \@input{\jobname.#1}%
208      \if@filesw
209        \expandafter\newwrite\csname tf@#1\endcsname
210        \immediate\openout \csname tf@#1\endcsname \jobname.#1\relax
211      \fi
212      \@nobreakfalse
213    \endgroup}
214 \fi
215 \frenchspacing
```

Penalties and float settings.

```
216 \@lowpenalty    51
217 \@medpenalty   151
218 \@highpenalty 301
219 \setcounter{topnumber}{2}
220 \setcounter{bottomnumber}{1}
221 \setcounter{totalnumber}{4}
222 \setcounter{dbltopnumber}{2}
223 \renewcommand\topfraction{.75}
224 \renewcommand\bottomfraction{.5}
225 \renewcommand\textfraction{.25}
226 \renewcommand\floatpagefraction{.625}
227 \renewcommand\dbltopfraction{.75}
228 \renewcommand\dblfloatpagefraction{.625}
```

\regarding   This macro is used by \maketitle to insert a simple text into the header on the title page.

```
229 \def\@regarding{\relax}
230 \newcommand{\regarding}[1]{\gdef\@regarding{#1}}
```

`\license` This macro is used by `\maketitle` to insert a license into the footer on the titlepage.

```
231 \def\@copyright{\relax}
232 \newcommand{\license}[1]{\gdef\@copyright{#1}}
```

The standard `\maketitle` command as taken from the article class but with some basic restyling.

```
233 \let\@smallprintstyle\relax
234 \newcommand\maketitle{\par%
235   \begingroup
236     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
237     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
238     \long\def\@makefntext##1{\parindent 1em\noindent%
239       \hb@xt@1.8em{\hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
240     \newpage
241     \global\@topnum\z@
242     \@maketitle
243     \thispagestyle{plain}\@thanks
244   \endgroup
245   \setcounter{footnote}{0}%
246 }
247 \def\@maketitle{%
248   \newpage
249   \null
250   \begin{flushleft}%
251 \vspace{-\headsep}
252     {\small%
253       \@smallprintstyle
254       \if\@regarding\relax\else\@regarding{, }\fi%
255       \@date\par%
256     }%
257     \vspace{1.5cm}%
258     {\Huge\@titstyle\@title\par}%
259     \vspace{.125cm}%
260     {\Large\@titstyle\@author}%
261     \vspace{.75cm}%
262   \end{flushleft}%
263   \par%
264 }
```

Sectioning commands.

```
265 \setcounter{secnumdepth}{3}
266 \newcounter{section}
267 \newcounter{subsection}[section]
268 \newcounter{subsubsection}[subsection]
269 \newcounter{paragraph}[subsubsection]
270 \newcounter{subparagraph}[paragraph]
271 \renewcommand\thesection{\@arabic\c@section}
272 \renewcommand\thesubsection{\thesection.\@arabic\c@subsection}
273 \renewcommand\thesubsubsection{\thesubsection.\@arabic\c@subsubsection}
```

```
274 \renewcommand\theparagraph{\thesubsubsection.\@arabic\c@paragraph}
275 \renewcommand\thesubparagraph{\theparagraph.\@arabic\c@subparagraph}
276 \newcommand\section{\@startsection{section}{1}{\z@}%
277   {-4ex \@plus 1ex \@minus -1ex}%
278   {.5ex \@plus.5ex}%
279   {\normalfont\LARGE\@titstyle}}
280 \newcommand\subsection{\@startsection{subsection}{2}{\z@}%
281   {-3ex \@plus 1ex \@minus -1ex}%
282   {.25ex \@plus.25ex}%
283   {\normalfont\Large\@titstyle}}
284 \newcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
285   {-2ex \@plus .5ex \@minus -.5ex}%
286   {.125ex \@plus.125ex}%
287   {\normalfont\large\@titstyle}}
288 \newcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
289   {1ex \@plus .25ex \@minus -.25ex}%
290   {-1em}%
291   {\normalfont\normalsize\bfseries}}
292 \newcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
293   {1ex \@plus .25ex \@minus -.25ex}%
294   {-1em}%
295   {\normalfont\normalsize\itshape}}
```

Itemization commands.

```
296 \setlength\leftmargini{2em}
297 \leftmargin\leftmargini
298 \setlength\leftmarginii{2em}
299 \setlength\leftmarginiii{1.5em}
300 \setlength\leftmarginiv{1.5em}
301 \setlength\leftmarginv{1em}
302 \setlength\leftmarginvi{1em}
303 \setlength\labelsep{.5em}
304 \setlength\labelwidth{\leftmargini}
305 \addtolength\labelwidth{-\labelsep}
306 \@beginparpenalty -\@lowpenalty
307 \@endparpenalty   -\@lowpenalty
308 \@itempenalty     -\@lowpenalty
309 \renewcommand\theenumi{\@arabic\c@enumi}
310 \renewcommand\theenumii{\@alph\c@enumii}
311 \renewcommand\theenumiii{\@roman\c@enumiii}
312 \renewcommand\theenumiv{\@Alph\c@enumiv}
313 \newcommand\labelenumi{\theenumi.}
314 \newcommand\labelenumii{\theenumii)}
315 \newcommand\labelenumiii{\theenumiii.}
316 \newcommand\labelenumiv{\theenumiv.}
317 \renewcommand\p@enumii{\theenumi}
318 \renewcommand\p@enumiii{\theenumi(\theenumii)}
319 \renewcommand\p@enumiv{\p@enumiii\theenumiii}
320 \newcommand\labelitemi{\textbullet}
321 \newcommand\labelitemii{\textopenbullet}
```

```
322 \newcommand\labelitemiii{\normalfont\bfseries\textendash}
323 \newcommand\labelitemiv{\textrightarrow}
324 \newenvironment{description}
325   {\list{}{\labelwidth\z@\itemindent-\leftmargin
326     \let\makelabel\descriptionlabel}}{\endlist}
327 \newcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\bfseries #1}
```

Standard restyled `abstract` environment from the `article` class.

```
328 \newenvironment{abstract}{\newlength\skrapport@abstract@tw\newlength\skrapport@abstract@aw\sett
```

Quotation environments.

```
329 \newenvironment{quote}{\list{}{\rightmargin\leftmargin}\item\relax\itshape}{\endlist}
330 \newenvironment{quotation}{\bigskip\begin{quote}}{\end{quote}\bigskip}
331 \newenvironment{verse}{\begin{quote}}{\end{quote}}
```

Titlepage environment.

```
332 \newcommand\ps@skrapport@titlepage{\def\@oddhead{}\def\@evenhead{}\def\@oddfoot{\begin{minipage
333 \newenvironment{titlepage}{\cleardoublepage\setcounter{page}\@ne}{\thispagestyle{skrapport@titl
```

Appendix macro.

```
334 \newcommand\appendix{\par\setcounter{section}{0}\setcounter{subsection}{0}\gdef\thesection{\@Al
```

Figure and table floats.

```
335 \setlength\arraycolsep{5\p@}
336 \setlength\tabcolsep{6\p@}
337 \setlength\arrayrulewidth{.4\p@}
338 \setlength\doublerulesep{2\p@}
339 \setlength\tabbingsep{\labelsep}
340 \skip\@mpfootins=\skip\footins
341 \setlength\fboxsep{3\p@}
342 \setlength\fboxrule{.4\p@}
343 \renewcommand\theequation{\@arabic\c@equation}
344 \newcounter{figure}\renewcommand\thefigure{\@arabic\c@figure}
345 \def\fps@figure{tb}
346 \def\ftype@figure{1}
347 \def\ext@figure{lof}
348 \def\fnum@figure{\figurename~\thefigure}
349 \newenvironment{figure}{\@float{figure}}{\end@float}
350 \newenvironment{figure*}{\@dblfloat{figure}}{\end@dblfloat}
351 \newcounter{table}\renewcommand\thetable{\@arabic\c@table}
352 \def\fps@table{tb}
353 \def\ftype@table{2}
354 \def\ext@table{lot}
355 \def\fnum@table{\tablename~\thetable}
356 \newenvironment{table}{\@float{table}}{\end@float}
357 \newenvironment{table*}{\@dblfloat{table}}{\end@dblfloat}
```

Captions.

```
358 \let\@captionstyle\relax
359 \newlength\abovecaptionskip\setlength\abovecaptionskip{10\p@}
360 \newlength\belowcaptionskip\setlength\belowcaptionskip{10\p@}
361 \long\def\@makecaption#1#2{%
```

```
362 \vskip\abovecaptionskip
363 \sbox\@tempboxa{\small{\bfseries#1:} \itshape#2}%
364 \ifdim \wd\@tempboxa >\hsize
365 \small{\bfseries\@captionstyle#1:} \itshape#2\par
366 \else
367 \global \@minipagefalse
368 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
369 \fi
370 \vskip\belowcaptionskip}
```

Old font commands.

```
371 \DeclareOldFontCommand{\rm}{\normalfont\rmfamily}{\mathrm}
372 \DeclareOldFontCommand{\sf}{\normalfont\sffamily}{\mathsf}
373 \DeclareOldFontCommand{\tt}{\normalfont\ttfamily}{\mathtt}
374 \DeclareOldFontCommand{\bf}{\normalfont\bfseries}{\mathbf}
375 \DeclareOldFontCommand{\it}{\normalfont\itshape}{\mathit}
376 \DeclareOldFontCommand{\sl}{\normalfont\slshape}{\@nomath\sl}
377 \DeclareOldFontCommand{\sc}{\normalfont\scshape}{\@nomath\sc}
```

Redefining the \emph style to be bold when nested.

```
378 \let\@emstyle\relax
379 \DeclareRobustCommand\em{%
380 \@nomath\em%
381 \ifdim \fontdimen\@ne\font >\z@%
382 \itshape\bfseries%
383 \else%
384 \itshape%
385 \fi%
386 \@emstyle%
387 }
```

Table of contents code.

```
388 \newcommand\@pnumwidth{1.55em}
389 \newcommand\@tocrmarg{2em}
390 \newcommand\@dotsep{1.7}
391 \setcounter{tocdepth}{5}
392 \newcommand\tableofcontents{%
393   \section*{\contentsname
394     \@mkboth{\MakeUppercase\contentsname}{\MakeUppercase\contentsname}
395   }%
396 \vskip\baselineskip%
397   \@starttoc{toc}%
398 }
399 \newcommand*\l@section{\@dottedtocline{1}{0em}{1.3em}}
400 \newcommand*\l@subsection{\@dottedtocline{2}{1.3em}{2em}}
401 \newcommand*\l@subsubsection{\@dottedtocline{3}{3.3em}{3.15em}}
402 \newcommand*\l@paragraph{\@dottedtocline{4}{6.45em}{4.15em}}
403 \newcommand*\l@subparagraph{\@dottedtocline{5}{10.6em}{5.15em}}
```

Fix for e.g. tocloft package

```
404 \let\l@figure\@empty
405 \let\l@table\@empty
```

Bibliography code.

```
406 \newdimen\bibindent
407 \setlength\bibindent{2em}
408 \newenvironment{thebibliography}[1]
409 {\section*{\refname}%
410 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
411 \list{\@biblabel{\@arabic\c@enumiv}}%
412 {\settowidth\labelwidth{\@biblabel{#1}}%
413 \leftmargin\labelwidth
414 \advance\leftmargin\labelsep
415 \@openbib@code
416 \usecounter{enumiv}%
417 \let\p@enumiv\@empty
418 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
419 \sloppy
420 \clubpenalty4000
421 \@clubpenalty \clubpenalty
422 \widowpenalty4000}%
423 {\def\@noitemerr
424 {\@latex@warning{Empty thebibliography environment}}%
425 \endlist}
426 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
427 \let\@openbib@code\@empty
428 \newenvironment{theindex}
429 {\twocolumn[\section*{\indexname}]%
430 \@mkboth{\MakeUppercase\indexname}%
431 {\MakeUppercase\indexname}%
432 \thispagestyle{plain}\parindent\z@
433 \parskip\z@ \@plus .3\p@\relax
434 \columnseprule \z@
435 \columnsep 35\p@
436 \let\item\@idxitem}
437 {\onecolumn}
438 \newcommand\@idxitem{\par\hangindent 40\p@}
439 \newcommand\subitem{\@idxitem \hspace*{20\p@}}
440 \newcommand\subsubitem{\@idxitem \hspace*{30\p@}}
441 \newcommand\indexspace{\par \vskip 10\p@ \@plus5\p@ \@minus3\p@\relax}
```

Footnote code.

```
442 \renewcommand\footnoterule{%
443 \kern-3\p@
444 \hrule\@width.4\columnwidth
445 \kern2.6\p@}
446 \newcommand\@makefntext[1]{%
447 \parindent 1em%
448 \noindent
449 \hb@xt@1.8em{\hss\@makefnmark}#1}
```

Basic translatable texts.

```
450 \newcommand\contentsname{Innehll}
```

```latex
451 \newcommand\refname{Referenser}
452 \newcommand\figurename{Figur}
453 \newcommand\tablename{Tabell}
454 \newcommand\appendixname{Bilaga}
455 \newcommand\abstractname{Sammanfattning}
456 \def\today{\year--\month--\day}
```

The twocolumn hacks implemented.

```latex
457 \ifskrapport@twocolumn
458 \AtBeginDocument{
459 \IfStrEq{\skrapport@ptsize}{10pt}{
460 \RequirePackage[fontsize=10pt,baseline=12pt]{grid}
461 }{
462 \IfStrEq{\skrapport@ptsize}{11pt}{
463 \RequirePackage[fontsize=11pt,baseline=13.2pt]{grid}
464 }{
465 \RequirePackage[fontsize=12pt,baseline=14.4pt]{grid}
466 }
467 }
468 % Redefining abstract
469 \renewenvironment{abstract}{\section*{\abstractname}}{}
470 % Patching \env{document} and \cs{maketitle}
471 \AfterEndPreamble{\begin{multicols}{2}}
472 \AtEndDocument{\end{multicols}}
473 \pretocmd{\maketitle}{\end{multicols}}{}{}
474 \apptocmd{\maketitle}{\begin{multicols}{2}}{}{}
475 % Patching \env{equation}
476 \BeforeBeginEnvironment{equation}{\begin{gridenv}}
477 \AfterEndEnvironment{equation}{\end{gridenv}}
478 \BeforeBeginEnvironment{equation*}{\begin{gridenv}}
479 \AfterEndEnvironment{equation*}{\end{gridenv}}
480 % Patching \env{multline}
481 \BeforeBeginEnvironment{multline}{\begin{gridenv}}
482 \AfterEndEnvironment{multline}{\end{gridenv}}
483 \BeforeBeginEnvironment{multline*}{\begin{gridenv}}
484 \AfterEndEnvironment{multline*}{\end{gridenv}}
485 % Patching \env{gather}
486 \BeforeBeginEnvironment{gather}{\begin{gridenv}}
487 \AfterEndEnvironment{gather}{\end{gridenv}}
488 \BeforeBeginEnvironment{gather*}{\begin{gridenv}}
489 \AfterEndEnvironment{gather*}{\end{gridenv}}
490 % Patching \env{align}
491 \BeforeBeginEnvironment{align}{\begin{gridenv}}
492 \AfterEndEnvironment{align}{\end{gridenv}}
493 \BeforeBeginEnvironment{align*}{\begin{gridenv}}
494 \AfterEndEnvironment{align*}{\end{gridenv}}
495 % Patching \env{flalign}
496 \BeforeBeginEnvironment{flalign}{\begin{gridenv}}
497 \AfterEndEnvironment{flalign}{\end{gridenv}}
498 \BeforeBeginEnvironment{flalign*}{\begin{gridenv}}
```

```latex
499 \AfterEndEnvironment{flalign*}{\end{gridenv}}
500 % Patching \env{alignat}
501 \BeforeBeginEnvironment{alignat}{\begin{gridenv}}
502 \AfterEndEnvironment{alignat}{\end{gridenv}}
503 \BeforeBeginEnvironment{alignat*}{\begin{gridenv}}
504 \AfterEndEnvironment{alignat*}{\end{gridenv}}
505 % Patching \env{figure}
506 \renewenvironment{figure}{%
507 \begin{gridenv}%
508 \vspace{\intextsep}%
509 \begin{minipage}{\linewidth}%
510 \def\@captype{figure}%
511 }{%
512 \end{minipage}%
513 \vspace{\intextsep}%
514 \end{gridenv}%
515 }
516 % Patching \env{table}
517 \renewenvironment{table}{%
518 \begin{gridenv}%
519 \vspace{\intextsep}%
520 \begin{minipage}{\linewidth}%
521 \def\@captype{table}%
522 \let\@old@caption\caption%
523 \renewcommand{\caption}[1]{%
524 \setlength{\@tempdima}{\abovecaptionskip}%
525 \setlength{\abovecaptionskip}{\belowcaptionskip}%
526 \setlength{\belowcaptionskip}{\@tempdima}%
527 \@old@caption{##1}%
528 \vspace{\belowcaptionskip}%
529 }%
530 }{%
531 \end{minipage}%
532 \vspace{\intextsep}%
533 \end{gridenv}%
534 }
535 \let\oldoldtablest\oldtablest
536 \renewcommand{\oldtablest}{%
537 \oldoldtablest%
538 \let\@old@caption\caption%
539 \renewcommand{\caption}[1]{%
540 \setlength{\@tempdima}{\abovecaptionskip}%
541 \setlength{\abovecaptionskip}{\belowcaptionskip}%
542 \setlength{\belowcaptionskip}{\@tempdima}%
543 \@old@caption{##1}%
544 \vspace{\belowcaptionskip}%
545 }%
546 }
547 % Providing \env{onecol}
548 \newenvironment{onecol}{\end{multicols}}{\begin{multicols}{3}}
```

```
549 }
550 \fi
```

Color theme setup. Start by patching commands and declaring default colors.
Not implemented: background colors for e.g. quote environments and sections
headings, different colors for the different sectioning levels.

```
551 \ifskrapport@color
552 \apptocmd{\bfseries}{\color{skrapport@boldcolor}}{}{\ClassError{skrapport}{Could not patch \pro
553 \apptocmd{\itshape}{\color{skrapport@italiccolor}}{}{\ClassError{skrapport}{Could not patch \pr
554 \if\@titstyle\relax
555 \def\@titstyle{\color{skrapport@titlecolor}}
556 \else
557 \apptocmd{\@titstyle}{\color{skrapport@titlecolor}}{}{\ClassError{skrapport}{Could not patch \p
558 \fi
559 \def\@smallprintstyle{\color{skrapport@smallprintcolor}}
560 \AtBeginDocument{%
561 \let\@abstractname\abstractname
562 \def\abstractname{\color{skrapport@titlecolor}\@abstractname}
563 }
564 \apptocmd{\quote}{\color{skrapport@quotecolor}}{}{}
565 \def\@captionstyle{\color{skrapport@captioncolor}}
566 \def\@emstyle{\color{skrapport@emphcolor}}
567 \ifskrapport@twocolumn\AtBeginDocument{%
568 \renewcommand\section{\@startsection {section}{1}{\z@}%
569          {-.999\baselineskip}{0.001\baselineskip}{\bfseries\mathversion{bold}\color{skrapport@t
570 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
571 {\baselineskip}{-.35\baselineskip}{\bfseries\color{skrapport@titlecolor}\unskip}}
572 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
573 {\baselineskip}{-.35\baselineskip}{\itshape\color{skrapport@titlecolor}\unskip}}
574 }\fi
575 \renewcommand\paragraph{\@startsection{paragraph}{4}{\z@}%
576 {1ex \@plus .25ex \@minus -.25ex}{-1em}{\normalfont\normalsize\bfseries\color{skrapport@titleco
577 \renewcommand\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
578 {1ex \@plus .25ex \@minus -.25ex}{-1em}{\normalfont\normalsize\itshape\color{skrapport@titlecol
579 \AtBeginDocument{\@ifpackageloaded{hyperref}{%
580 \hypersetup{%
581 citebordercolor=skrapport@citecolor,citecolor=skrapport@citecolor,%
582 filebordercolor=skrapport@filecolor,filecolor=skrapport@filecolor,%
583 linkbordercolor=skrapport@linkcolor,linkcolor=skrapport@linkcolor,%
584 menubordercolor=skrapport@menucolor,menucolor=skrapport@menucolor,%
585 urlbordercolor=skrapport@urlcolor,urlcolor=skrapport@urlcolor,%
586 runbordercolor=skrapport@runcolor,runcolor=skrapport@runcolor%
587 }
588 }{}}
589 \AtBeginDocument{\color{skrapport@defaultcolor}}
```

Loading color themes

```
590 \newcommand\colortheme[1]{\usepackage{skrapport-colortheme-#1}}
591 \colortheme{default}
592 \fi
```

Final page setup

```
593 \setlength\columnsep{10\p@}
594 \setlength\columnseprule{0\p@}
595 \pagestyle{plain}
596 \pagenumbering{arabic}
597 \raggedbottom
598 \onecolumn
```

4.1   Color themes

4.1.1   Default color theme

```
599 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
600 \ProvidesPackage{skrapport-colortheme-default}
601     [2012/06/07 v1.0 skrapport color theme default]
602 \definecolor{skrapport@citecolor}{named}{green}
603 \definecolor{skrapport@filecolor}{named}{teal}
604 \definecolor{skrapport@linkcolor}{named}{red}
605 \definecolor{skrapport@menucolor}{named}{red}
606 \definecolor{skrapport@urlcolor}{named}{cyan}
607 \definecolor{skrapport@runcolor}{named}{teal}
608 \definecolor{skrapport@boldcolor}{named}{black}
609 \definecolor{skrapport@titlecolor}{named}{black}
610 \definecolor{skrapport@italiccolor}{named}{black}
611 \definecolor{skrapport@smallprintcolor}{named}{black}
612 \definecolor{skrapport@quotecolor}{named}{black}
613 \definecolor{skrapport@captioncolor}{named}{black}
614 \definecolor{skrapport@emphcolor}{named}{black}
615 \definecolor{skrapport@defaultcolor}{named}{black}
```

4.1.2   Unscathed color theme

```
616 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
617 \ProvidesPackage{skrapport-colortheme-unscathed}
618     [2012/06/07 v1.0 skrapport color theme unscathed]
619 \definecolor{skrapport@citecolor}{named}{skrapport@defaultcolor}
620 \definecolor{skrapport@filecolor}{named}{skrapport@defaultcolor}
621 \definecolor{skrapport@menucolor}{named}{skrapport@defaultcolor}
622 \definecolor{skrapport@runcolor}{named}{skrapport@defaultcolor}
623 \definecolor{skrapport@emphcolor}{HTML}{463335}
624 \definecolor{skrapport@linkcolor}{HTML}{CF5D3B}
625 \definecolor{skrapport@urlcolor}{named}{skrapport@linkcolor}
626 \definecolor{skrapport@titlecolor}{HTML}{B34430}
627 \definecolor{skrapport@captioncolor}{named}{skrapport@titlecolor}
628 \definecolor{skrapport@quotecolor}{HTML}{70524A}
629 \definecolor{skrapport@smallprintcolor}{named}{skrapport@quotecolor}
```

4.1.3   Cruelwater color theme

```
630 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
631 \ProvidesPackage{skrapport-colortheme-cruelwater}
```

```
632     [2012/06/07 v1.0 skrapport color theme cruelwater]
633 \definecolor{skrapport@citecolor}{named}{black}
634 \definecolor{skrapport@filecolor}{named}{black}
635 \definecolor{skrapport@linkcolor}{named}{black}
636 \definecolor{skrapport@menucolor}{named}{black}
637 \definecolor{skrapport@urlcolor}{named}{black}
638 \definecolor{skrapport@runcolor}{named}{black}
639 \definecolor{skrapport@boldcolor}{HTML}{030C22}
640 \definecolor{skrapport@titlecolor}{HTML}{20293F}
641 \definecolor{skrapport@italiccolor}{named}{black}
642 \definecolor{skrapport@smallprintcolor}{HTML}{A9B0B3}
643 \definecolor{skrapport@quotecolor}{HTML}{404749}
644 \definecolor{skrapport@captioncolor}{HTML}{030C22}
645 \definecolor{skrapport@emphcolor}{HTML}{20293F}
646 \definecolor{skrapport@defaultcolor}{named}{black}
```

4.1.4   Violet color theme

```
647 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
648 \ProvidesPackage{skrapport-colortheme-violet}
649     [2012/06/07 v1.0 skrapport color theme violet]
650 \definecolor{skrapport@citecolor}{HTML}{932444}
651 \definecolor{skrapport@filecolor}{HTML}{932444}
652 \definecolor{skrapport@linkcolor}{HTML}{932444}
653 \definecolor{skrapport@menucolor}{HTML}{932444}
654 \definecolor{skrapport@urlcolor}{HTML}{932444}
655 \definecolor{skrapport@runcolor}{HTML}{932444}
656 \definecolor{skrapport@boldcolor}{HTML}{311A2A}
657 \definecolor{skrapport@titlecolor}{HTML}{311A2A}
658 \definecolor{skrapport@italiccolor}{named}{black}
659 \definecolor{skrapport@smallprintcolor}{HTML}{D6CBCF}
660 \definecolor{skrapport@quotecolor}{HTML}{463335}
661 \definecolor{skrapport@captioncolor}{HTML}{311A2A}
662 \definecolor{skrapport@emphcolor}{HTML}{98758D}
663 \definecolor{skrapport@defaultcolor}{named}{black}
```