The **skrapport** document class*†

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Version 0.12

Abstract   A document class intended for simple documents *e.g.* reports handed in to courses and such. It is small, straightforwars and heavily inspired by the PracTEX Journal style.

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*Available on `http://www.ctan.org/pkg/skrapport`.

†Development version available on `https://github.com/urdh/skrapport`.

1 Documentation

The skrapport document class aims to make typesetting simple but stylish documents (mostly reports) as effortless as possible. It does this by mostly reimplementing the default article class in LaTeX3, while making modifications to both form and function along the way.

Because it is reimplemented in LaTeX3, it may be incompatible with any number of packages that patch or otherwise modify internals of article or other document classes. For commonly used packages (especially those used frequently by the author), this shouldn't be a problem. The author gladly accepts reports of any such issues at the project issue tracker — see 'Known issues' on on page 12.

1.1 Options

As with other document classes, the class is loaded, possibly with options, by issuing `\documentclass[⟨options⟩]{skrapport}`. The class has a number of options controlling both form and function, by *e.g.* setting the font size, selecting a font stack, setting the section title style, and so on.

1.1.1 Layout

Two options controlling the overall layout of the document are provided. Collectively they control the paper size and text layout of the document.

paper   a4, a5   (a4)

The `paper` option controls the paper size of the document. Internally, this is set by the typearea package, so in theory many more paper sizes could be available, but the current options cover most useful documents.

twocolumn   The `twocolumn` option sets up a two-column mode. This is not provided by internal LaTeX mechanics as in the original article class, but instead by patching environments and macros and using a combination of the multicol and grid packages. In theory, this means that baselines of adjacent columns should be aligned, and that three- or four-column modes are possible in the future (but that'd be ridiculous).

1.1.2 Style

A couple of options to control the style of the document are provided. Two of them, `leqno` and `fleqn`, are mainly provided for compatibility with the article class.

leqno   This option makes display math environments typeset their labels on the left-hand side of the formula instead of the right-hand side.

fleqn   This option makes display math environments left-align the entire formula as opposed to centering it.

indent   true, false   (false)

The `indent` option enables or disables the indentation of paragraphs, with the default being not to indent anything. The default behaviour

thus is similar to that obtained using the parskip package with the article package.

titles `rm, bf, sf`   `(bf)`

Section titles (and a few other elements) are controlled by this option in that they are typeset either using the regular roman font, the boldfaced roman font or the sans serif font. For historical reasons the default is a boldfaced roman font, but the sans serif option is very handsome.

color ⟨*color theme*⟩   `(default)`

This option tells the class to activate color theme support and optionally load a color theme. Several color themes are available (as detailed by 'Color themes' on page 11), and the special value `false` disables color support entirely (which only means that the xcolor package isn't loaded, and that `\colortheme` remains undefined).

1.1.3 Fonts

Only two options control the font setup of the document class. The class provides the same point sizes as article, but also provides a large number of font stacks to choose from.

ptsize `10pt, 11pt, 12pt`   `(11pt)`

The document class provides the same three point sizes as the article class. There is room for expansion, but there really shouldn't be any reason to use other point sizes.

font `none, kpfonts, lmodern, palatino, minion, skdoc, word` `(kpfonts)`

Several different font stacks, detailed by table 1 on the following page, are provided. Most of these work with pdfLATEX, but there are two special font stacks: `none` and `word`. The former, predictably, loads no fonts whatsoever leaving the document with Computer Modern fonts. This is useful if the fonts are replaced later anyway, such as when using XƎLATEX. The `word` font stack, however, does load a few fonts. The fonts must be present and installed on the system as OTF or TTF fonts, and the font stack requires either XƎLATEX or LuaLATEX.

Table 1: *Font stacks provided by skrapport.*

Font stack	Serif font	Math font	Sans serif font	Monospace font
kpfonts	Kp-Fonts	Kp-Fonts	Kp-Fonts	Kp-Fonts
lmodern	Latin Modern	Latin Modern	Latin Modern	Inconsolata
palatino	TeX Gyre	—	—	Inconsolata
minion	Minion Pro	Minion Pro	—	Inconsolata
skdoc	PT Serif	—	Open Sans	Inconsolata
word	Cambria	Cambria Math	Calibri	Consolas

1.1.4 Functionality

The final three options affect functionality in one way or another. Since skrapport was originally designed for reports written in either swedish or english, the class always loads either babel or polyglossia with either of these languages. Additionally, the class may load the skmath package if desirable.

math   true, false   (true)

When true, the skmath package is loaded, providing improvements to the math functionality of amsmath and friends.

lang   en, sv   (sv)

This option specifies what main language babel or polyglossia set up with. The other language is loaded as well, for use in constructs that allow for a second language.

draft   true, false   (false)

The draft option, much like in article, enables \overfullrules and possibly similar functionality in loaded packages (if they react to the global draft option).

1.2 User-level commands and environments

Philosophy?

1.2.1 The front page

The front page is the part of the document that has seen the most changes in skrapport compared to article. In addition to the new, PracTeX-inspired layout, there are a few additional pieces of information in it. Also, the \author macro has been dramatically improved.

Also mention \title which isn't defined by us.

\date   {⟨*ISO8601 date*⟩}

The \date macro now internally employs isodate to typeset the date of the document. This means that the input must be either the string 'today', the token \today or a date as defined by ISO8601. The mechanisms provided by isodate can be used to affect the output format.

\author   [⟨*email*⟩]{⟨*name*⟩}

In contrast with the article package, the \author macro should no longer be used to typeset several author names at once. Instead, one \author command is to be issued for every author, optionally providing a corresponding email. These are then combined, in the order they are given, to form a list of authors and a corresponding list of email adresses.

\regarding   {⟨*topic*⟩}

This macro defines a topic or other short message detailing the purpose of the document. It is typeset along with the date in the upper left corner of the title page.

\license   {⟨*license name*⟩}

The \license macro defines a short license name to be typeset in the lower right corner of the title page. This mechanism could of course be used to typeset an institution name or similar as well. It is only typeset when also using the titlepage environment described below.

`\maketitle`

As in article, the `\maketitle` macro typesets the information provided by `\title`, `\author` and friends to form a stylish front page. When combined with abstract, titlepage and/or `\tableofcontents`, you get a very good-looking preamble with almost no effort.

`\begin{abstract}`
⟨*abstract text*⟩
`\end{abstract}`

The abstract environment defines an abstract, which is typeset in a block with the `\abstractname` word next to it (see *e.g.* the title page of this manual for an example).

`\begin{titlepage}`
⟨*title page contents*⟩
`\end{titlepage}`

Normally, `\maketitle` doesn't reserve its own page. By enclosing `\maketitle` (and abstract if appropriate) in the titlepage environment, the contents are typeset on their own page, without page numbering and with the `\license` text in the lower right corner (if applicable).

1.2.2 Sectioning

`\section`	*[⟨*short title*⟩]{⟨*title*⟩}
`\subsection`	*[⟨*short title*⟩]{⟨*title*⟩}
`\subsubsection`	*[⟨*short title*⟩]{⟨*title*⟩}
`\paragraph`	*[⟨*short title*⟩]{⟨*title*⟩}
`\subparagraph`	*[⟨*short title*⟩]{⟨*title*⟩}

The sectioning macros are superficially very similar to those provided by article, but have been completely reimplemented in expl3 code. Additionally, the style of these secioning macros, as detailed by the titles option documentation above, can be changed.

All of them have both arguments and behaviour in common, only differing in style. The starred versions are unnumbered, but still accept the opional short title (simply discarding it). The optional short title is used in the table of contents. The secnumdepth counter limits the depth of section numbering.

The first three macros, being section titles, are typeset as actual titles

on their own line with appropriate spacing above and below. The paragraph macros instead typeset run-in titles.

1.2.3 Macros and environments from article

Aside from the `itemize` and `enumerate` envionments and the font selection macros, which are carried without modification from LaTeX 2$_\varepsilon$, a couple of environments and macros are defined.

The old font macros, whose use has been discouraged for a long time, are now deprecated. Instead of functioning correctly, they will emit an error and require user input. Use the *text?? macros instead. For emphasis, use the \emph macro.

\emph {⟨*text*⟩}

Emphasized text will be typeset in italic, or bold italic if the macro is used in a context where italic is already used (such as inside another \emph invokation).

\begin{description}
\item[⟨*item*⟩] ⟨*description*⟩
\end{description}

The description environment behaves as expected, typesetting a list of descriptions as in the article class.

\begin{quote}
⟨*short quote*⟩
\end{quote}

Intended for short quotes, the quote environment simply typesets a centered block of italic text.

\begin{quotation}
⟨*long quote*⟩
\end{quotation}

Longer quoted passages are typeset using the quotation environment. This is simply a quote environment with additional spacing above and below.

\begin{verse}
⟨*pretentious poetry*⟩
\end{verse}

The verse environment is intended for poetry and other text where line breaks are critical. Use \\ to break lines.

\appendix

This macro signals the end of the main matter and the start of the appendix. In essence, it resets the section numbering counter and changes the section numbering to the upper-case alphabetic sequence.

1.2.4 Floats

Both the `figure` and `table` float environments accept an optional positioning argument. The default positioning is `tp`. Both environments also have starred variants, which do nothing in one-column mode while typesetting the figure across both columns in two-column mode. As usual, `\centering`, `\caption` and `\label` should be used inside the floats.

`\begin{figure}` `[position]`
`⟨content⟩` This float environment is intended for figures. The most common con-
`\end{figure}` tents are `\includegraphics` statements or `tikzpicture` environments.

`\begin{table}` `[position]`
`⟨content⟩` A float intended for tables. Probably contains `tabular`s.
`\end{table}`

1.2.5 Table of contents

\tableofcontents

The table of contents are typeset using this macro. The `tocdepth` counter limits the depth of the table of contents, but for stylistic reasons values higher than 3 are unsupported.

1.2.6 Miscellaneous

\comment	*{⟨*comment*⟩}}
\note	*{⟨*comment*⟩}}
\com	*{⟨*comment*⟩}}

These macros, the two latter being aliases of the first one, typeset an author's comment in the document. The starred variants typeset the comment inline with a red background, while the unstarred variant typesets the comment in a \marginpar.

1.2.7 Color theme support

\colortheme {⟨*theme*⟩}

The \colortheme macro, which is only available when the color option is true, applies a color theme to the document. For a list of available color themes, see 'Color themes' on the next page.

1.2.8 Font size macros

The font size macros, expectedly, set the size of the text. They do not take arguments, instead affecting all subsequent text of the current TeX group, so use braces to provide and limit context. Also note that unlike article, these macros are *all* available, regardless of point size option.

\tiny

Typesets tiny text.

\scriptsize

Typesets script-size text.

\footnotesize

Typesets footnote-sized text.

`\small`

        Typesets small text.

`\normalsize`

        Typesets normal text.

`\large`

        Typesets large text.

`\Large`

        Typesets slightly larger text.

`\LARGE`

        Typesets even larger text.

`\huge`

        Typesets huge text.

`\Huge`

        Typesets really huge text.

1.3 Color themes

`\colortheme`   {⟨*theme*⟩}

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   The default theme is fairly conservative, only coloring hyperef links with more readable, slightly darker colors than the standard ones. It should print well even on non-color printers.

unscathed   The unscathed theme is based on a palette with the same name on COLOURlovers[1], and applies a dark brown color to emphasized text, a rusty color to links, a darker rust color to titles and a lighter brown to quotes.

cruelwater   The cruelwater theme is also based on a palette from COLOURlovers[2], and applies a dark blue color to bold text and captions, a slightly less dark blue to titles and emphasized text, a light gray color to small print and a darker gray to quotes.

violet   The violet theme, like unscathed and cruelwater, is based on a COLOURlovers palette[3]. It colors all links bright purple, applies a dark puple color to titles, bold text and captions, a grayish purple to small print, a dark brown color to quotes and a pastel violet color to emphasized text.

skdoc   The skdoc theme is loosely based on the skdoc document class, with which this documentation is typeset.

2 Known issues

A list of current issues is available in the Github repository of this package[4], but as of the release of v0.12, there is one known issue:

– If a \subsubsection is the last item of the Table of Contents, it will not be indented properly.

If you discover any bugs in this package, please report them to the issue tracker in the skrapport Github repository.

3 Implementation

Start by including expl3, l3keys2e and some other useful packages, as well as declaring the class.

⟨class⟩   1   \RequirePackage{expl3,l3keys2e,xparse,xstring,etoolbox}

---

[1] http://www.colourlovers.com/palette/1440498/unscathed
[2] http://www.colourlovers.com/palette/126030/Cruel_Water_at_Night
[3] http://www.colourlovers.com/palette/1831303/Violet_White_Bedrm
[4] https://github.com/urdh/skrapport/issues

```
 2  \RequirePackage[replace]{l3ctr2e}
 3  \ProvidesExplClass{skrapport}%
 4      {2013/05/15}{0.12}{stylish report document class}
```

3.1 Messages

Tons of messages are declared for future use.

⟨class⟩
```
 5  \msg_new:nnnn{skrapport}{option-deprecated}{Option~'#1'~deprecated!}
 6      {Please~use~'#2'~instead.}
 7  \msg_new:nnnn{skrapport}{option-no-effect}{Option~'#1'~deprecated!}
 8      {It~has~no~effect;~simply~use~nothing~instead.}
 9  \msg_new:nnnn{skrapport}{invalid-paper-size}{Invalid~paper~size~'#1'!}
10      {\token_to_str:N\__skrapport_setup_paper:n~was~invoked~with~an~
11       invalid~argument;~paper~size~will~remain~unchanged.}
12  \msg_new:nnnn{skrapport}{invalid-point-size}{Invalid~point~size~'#1'!}
13      {\token_to_str:N\__skrapport_setup_ptsize:n~was~invoked~with~an~
14       invalid~argument;~cannot~continue~without~setting~a~valid~point~
15       size.~Please~fix~the~issue~before~typesetting~again.}
16  \msg_new:nnnn{skrapport}{invalid-titles}{Invalid~title~type~'#1'!}
17      {\token_to_str:N\__skrapport_setup_titles:n~was~invoked~with~an~
18       invalid~argument;~falling~back~to~'#2'.}
19  \msg_new:nnnn{skrapport}{invalid-lang}{Invalid~language~'#1'!}
20      {\token_to_str:N\__skrapport_setup_lang:n~was~invoked~with~an~
21       invalid~argument;~'babel'~and/or~'polyglossia'~will~remain~
22      unloaded.}
23  \msg_new:nnnn{skrapport}{invalid-font}{Invalid~font~'#1'!}
24      {\token_to_str:N\__skrapport_setup_font:n~was~invoked~with~an~
25       invalid~argument;~no~font~package~has~been~loaded.~This~may~result~
26       in~bad~rendering~due~to~old~Computer~Modern~fonts.}
27  \msg_new:nnnn{skrapport}{noop-call}{No-op~invokation~of~macro!}
28      {\token_to_str:N#1~was~invoked,~but~circumstances~dictate~that~the~
29      macro~should~do~nothing.~Will~do~\token_to_str:N\prg_do_nothing:~
30      instead.}
31  \msg_new:nnnn{skrapport}{old-font-deprecated}{Deprecated~macro~\token_to_str:N#1!}
32      {The~old~font~macro~\token_to_str:N#1~is~deprecated!~Use~
```

```
33    \token_to_str:N#2~instead.}
34 \msg_new:nnnn{skrapport}{color-patch-failed}{Could~not~patch~macro~\token_to_str:N#1
35    {The~macro~\token_to_str:N#1~could~not~be~patched!~Color~theme~
36    support~may~be~incomplete.}
37 \msg_new:nnnn{skrapport}{license-not-printed}{Detected~\token_to_str:N\license~but~
38    {The~text~provided~by~\token_to_str:N\license~is~only~printed~when~
39    the~'titlepage'~environment~is~used,~but~it~seems~to~be~missing.}
40 \msg_new:nnnn{skrapport}{font-requires-xetex}{The~'font=#1'~option~requires~XeTeX~o
41    {Please~choose~another~font~setup~or~compile~the~document~with~
42    either~xelatex~or~lualatex.}
43 \msg_new:nnnn{skrapport}{tocdepth-too-deep}{TOC~depth~is~too~deep!}
44    {The~current~tocdepth,~#1,~is~not~supported.~Please~redefine~the~
45    \token_to_str:N#2~macro~to~enable~support.}
```

This message should probably not be used at all. Except in development versions straight off Github, of course.

⟨class⟩
```
46 \msg_new:nnn{skrapport}{not-implemented}
47    {Unimplemented~macro~\token_to_str:N#1!}
```

3.2 Options

First, a few booleans used by parts of the option handling code.

_skrapport_draft_bool   (no arguments)

Are we in draft mode?

⟨class⟩
```
48 \bool_new:N\g__skrapport_draft_bool
```

_skrapport_color_bool   (no arguments)

Are we supposed to be using colors?

⟨class⟩
```
49 \bool_new:N\g__skrapport_color_bool
```

_has_polyglossia_bool   (no arguments)

Has polyglossia been loaded?

⟨class⟩ 50 `\bool_new:N\g__skrapport_has_polyglossia_bool`

3.2.1 Option setup macros

In this section, all options declared in the previous section are implemented using setup macros. Some of these may have to be called in an appropriate order, but I haven't checked that yet.

`rapport_setup_paper:n` #1: Paper size (a4 or a5)

Note the extra integer, which is set up for use with grid.

⟨class⟩ 51 `\int_new:N\g__skrapport_grid_lines_int`

⟨class⟩ 52 `\cs_new:Npn\__skrapport_setup_paper:n#1{`
         53 `    \str_case:nnn{#1}{`

The two options simply consist of passing the appropriate option to the typearea package. Note that the use of typearea mean that we theoretically could accept more paper size options.

⟨class⟩ 54 `        {a4}{`
         55 `            \PassOptionsToPackage{paper=A4}{typearea}`
         56 `            \int_gset:Nn\g__skrapport_grid_lines_int{40}`
         57 `        }`
         58 `        {a5}{`
         59 `            \PassOptionsToPackage{paper=A5}{typearea}`
         60 `            \int_gset:Nn\g__skrapport_grid_lines_int{28}`
         61 `        }`
         62 `    }{`

Invalid paper sizes (such calls should never happen) are handled by issuing a warning and hoping that the default paper size is acceptable.

⟨class⟩ 63 `        \msg_warning:nnn{skrapport}{invalid-paper-size}{#1}`
         64 `    }`

The typearea package is loaded with the options specified earlier through `\PassOptionsToPackage`, and some additional ones.

⟨class⟩ 65 `    \AtEndOfClass{\RequirePackage[DIV=calc]{typearea}}`

In case the point size changes later, or two column mode is activated, we recalculate the typearea just before the typesetting begins.

⟨class⟩ 66   `\AtBeginDocument{\recalctypearea}`
67 `}`

`apport_setup_ptsize:n` #1: Point size (10pt, 11pt or 12pt)

The standard point sizes are defined much like in the article class, *i.e.* by saving a number and loading `size10.clo`, `size11.clo` or `size12.clo` as appropriate

⟨class⟩ 68 `\cs_new:Npn\__skrapport_setup_ptsize:n#1{`
69   `\str_case:nnn{#1}{`

⟨class⟩ 70   `{10pt}{\token_new:Nn\c__skrapport_ptsize_token{0}}`
71   `{11pt}{\token_new:Nn\c__skrapport_ptsize_token{1}}`
72   `{12pt}{\token_new:Nn\c__skrapport_ptsize_token{2}}`

⟨class⟩ 73   `}{`

Invalid point sizes are critical errors, since we can't recover from them in any reasonable way. Loading a default point size is unreasonable, since all in-class calls to this macro should know what sizes are available, and if you're calling it with invalid parameters from elsewhere, you should be punished.

⟨class⟩ 74   `\msg_critical:nnn{skrapport}{invalid-point-size}{#1}`
75   `}`
76   `\file_input:n{skrapport-size#1.clo}`
77 `}`

`ort_setup_twocolumn:` (no arguments)

Setting up for twocolumn mode is slightly compliacted. Note that this macro should be called from `\AtEndClass` to ensure that we patch everything correctly. Note also that multicol is always loaded as it is used for the theindex environment.

⟨class⟩ 78 `\cs_new:Nn\__skrapport_setup_twocolumn:{`
79   `\RequirePackage{etoolbox}`

```
80    \AtBeginDocument{
81        \KOMAoptions{twocolumn=true}
82    }
```

We include the grid package in two-column mode, because it looks way better that way.

```
⟨class⟩  83    \int_set:Nn\l_tmpa_int{1\c__skrapport_ptsize_token}
         84    \int_set:Nn\l_tmpb_int{1.2*\l_tmpa_int}
         85    \RequirePackage[fontsize=\l_tmpa_int pt,
         86                    baseline=\l_tmpb_int pt,
         87                    lines=\g__skrapport_grid_lines_int]{grid}
```

Now, we patch commands. First up is abstract.

```
⟨class⟩  88    \RenewDocumentEnvironment{abstract}{}{\section*{\abstractname}}{}
```

Then document (kind of, at least) and \maketitle.

```
⟨class⟩  89    \AfterEndPreamble{\begin{multicols}{2}}
         90    \AtEndDocument{\end{multicols}}
         91    \pretocmd{\maketitle}{\end{multicols}}{}{}
         92    \apptocmd{\maketitle}{\begin{multicols}{2}}{}{}
```

Always typeset equation and friends outside the grid:

```
⟨class⟩  93    \BeforeBeginEnvironment{equation}{\begin{gridenv}}
         94    \AfterEndEnvironment{equation}{\end{gridenv}}
         95    \BeforeBeginEnvironment{equation*}{\begin{gridenv}}
         96    \AfterEndEnvironment{equation*}{\end{gridenv}}
         97    \BeforeBeginEnvironment{multline}{\begin{gridenv}}
         98    \AfterEndEnvironment{multline}{\end{gridenv}}
         99    \BeforeBeginEnvironment{multline*}{\begin{gridenv}}
        100    \AfterEndEnvironment{multline*}{\end{gridenv}}
        101    \BeforeBeginEnvironment{gather}{\begin{gridenv}}
        102    \AfterEndEnvironment{gather}{\end{gridenv}}
        103    \BeforeBeginEnvironment{gather*}{\begin{gridenv}}
        104    \AfterEndEnvironment{gather*}{\end{gridenv}}
        105    \BeforeBeginEnvironment{align}{\begin{gridenv}}
        106    \AfterEndEnvironment{align}{\end{gridenv}}
        107    \BeforeBeginEnvironment{align*}{\begin{gridenv}}
```

```
108    \AfterEndEnvironment{align*}{\end{gridenv}}
109    \BeforeBeginEnvironment{flalign}{\begin{gridenv}}
110    \AfterEndEnvironment{flalign}{\end{gridenv}}
111    \BeforeBeginEnvironment{flalign*}{\begin{gridenv}}
112    \AfterEndEnvironment{flalign*}{\end{gridenv}}
113    \BeforeBeginEnvironment{alignat}{\begin{gridenv}}
114    \AfterEndEnvironment{alignat}{\end{gridenv}}
115    \BeforeBeginEnvironment{alignat*}{\begin{gridenv}}
116    \AfterEndEnvironment{alignat*}{\end{gridenv}}
```

The `figure` environment is patched…

```
⟨class⟩  117    \cs_set_eq:Nc\__skrapport_old_figurest:{figure*}
         118    \cs_set_eq:Nc\__skrapport_old_endfigurest:{endfigure*}
         119    \RenewDocumentEnvironment{figure}{o}{
         120        \begin{gridenv}
         121            \vspace{\intextsep}
         122            \begin{minipage}{\linewidth}
         123                \cs_set:Nn\@captype{figure}
         124    }{
         125            \end{minipage}
         126            \vspace{\intextsep}
         127        \end{gridenv}
         128    }
         129    \RenewDocumentEnvironment{figure*}{o}{
         130        \begin{onecol}
         131        \__skrapport_old_figurest:
         132    }{
         133        \__skrapport_old_endfigurest:
         134        \end{onecol}
         135    }
```

…as is `table`.

```
⟨class⟩  136    \cs_set_eq:Nc\__skrapport_old_tablest:{table*}
         137    \cs_set_eq:Nc\__skrapport_old_endtablest:{endtable*}
         138    \RenewDocumentEnvironment{table}{o}{%
         139        \begin{gridenv}
```

```
140         \vspace{\intextsep}
141         \begin{minipage}{\linewidth}
142             \cs_set:Nn\@captype{table}
143             \cs_set_eq:NN\__skrapport_old_caption:\caption
144             \RenewDocumentCommand{\caption}{om}{%
145                 \skip_set_eq:NN\l_tmpa_skip\abovecaptionskip
146                 \skip_set_eq:NN\abovecaptionskip\belowcaptionskip
147                 \skip_set_eq:NN\belowcaptionskip\l_tmpa_skip
148                 \vspace{\abovecaptionskip}
149                 \__skrapport_old_caption:[##1]{##2}
150                 \vspace{\belowcaptionskip}
151             }
152     }{
153         \end{minipage}
154         \vspace{\intextsep}
155     \end{gridenv}
156     }
157     \cs_set_eq:NN\__skrapport_old_tablest:\__skrapport_old_old_tablest:
158     \cs_set:Nn\__skrapport_old_tablest:{
159         \__skrapport_old_old_tablest:
160         \cs_set_eq:NN\__skrapport_old_caption:\caption
161         \RenewDocumentCommand{\caption}{om}{%
162             \skip_set_eq:NN\l_tmpa_skip\abovecaptionskip
163             \skip_set_eq:NN\abovecaptionskip\belowcaptionskip
164             \skip_set_eq:NN\belowcaptionskip\l_tmpa_skip
165             \vspace{\abovecaptionskip}
166             \__skrapport_old_caption:[##1]{##2}
167             \vspace{\belowcaptionskip}
168         }
169     }
170     \RenewDocumentEnvironment{table*}{o}{
171         \begin{onecol}
172         \__skrapport_old_tablest:
173     }{
174         \__skrapport_old_endtablest:
175         \end{onecol}
```

onecol   (no arguments)

Finally, we define an environment onecol that typesets arbitrary material in a single column. This is a bit tricky to do, and probably cargo-cult as well. We define the start of the environment to immediately end itself (with the empty ending), then end the multiols environment, redefine our end macro to start multicols as well as redefining the start of onecol to simply reset itself, then start the environment again only to have it ended at once.

Basically, we trick LaTeX into thinking that we have an empty onecol environment at the end of the first multicols, then some content inside a fake onecol, then an empty onecol at the start of the next multicols. Voil, no wierd group errors!

⟨class⟩ 177   \DeclareDocumentEnvironment{onecol}{
     178   \end{onecol}
     179   \end{multicols}
     180   \group_begin:
     181   \cs_set:Nn\endonecol{
     182   \group_end:
     183   \begin{multicols}{2}
     184   \cs_set_eq:NN__skrapport_old_onecol:\onecol
     185   \cs_set:Nn\onecol{
     186   \cs_set_eq:NN\onecol__skrapport_old_onecol:
     187   }
     188   \begin{onecol}
     189   }
     190   \cs_set:Nn\onecol{}
     191   \begin{onecol}
     192   }{}

⟨class⟩ 193 }

skrapport_setup_leqno: (no arguments)

Instead of loading leqno.clo, we reimplement the (tiny) file as LaTeX3 code and include it directly. It's not terribly advanced.

```
⟨class⟩ 194 \cs_new:Nn\__skrapport_setup_leqno:{
        195     \RenewDocumentCommand\@eqnnum{}{
        196         \hbox_to_wd:nn{.01pt}{}
        197         \hbox_overlap_right:n{
        198             \normalfont\normalcolor
        199             \skip_horizontal:n{-\displaywidth}
        200             (\theequation)
        201         }
        202     }
        203 }
```

krapport_setup_fleqn: (no arguments)

The fleqn.clo functionality is more complex, so we include the file instead of reimplementing.

```
⟨class⟩ 204 \cs_new:Nn\__skrapport_setup_fleqn:{
        205     \file_input:n{fleqn.clo}
        206 }
```

apport_setup_titles:n #1: Title style (rm, bf or sf)

The title styles are implemented by creating a new macro __skrapport_title_style: which will later be used by \section and friends.

```
⟨class⟩ 207 \cs_new:Npn\__skrapport_setup_titles:n#1{
        208     \str_case:nnn{#1}{
```

```
⟨class⟩ 209         {rm}{\cs_new_protected:Nn\__skrapport_title_style:{\rmfamily}}
        210         {bf}{\cs_new_protected:Nn\__skrapport_title_style:{\bfseries}}
        211         {sf}{\cs_new_protected:Nn\__skrapport_title_style:{\sffamily}}
```

The fall-back for incorrect parameters is an informational message along with setting up for \rmfamily titles.

```
⟨class⟩ 212     }{
        213         \msg_info:nnnn{skrapport}{invalid-titles}{#1}{rm}
        214         \__skrapport_setup_titles:n{rm}
```

```
215        }
216  }
```

`krapport_setup_lang:n`   #1: Language (sv or en)

Thus far only two language options are implemented, each of them setting the other as the 'other' language. We check if polyglossia has been loaded (this is done by `\__skrapport_setup_xelatex:`): if it has, we use the polyglossia interface for setting languages, otherwise we load the babel package with appropriate options.

```
⟨class⟩ 217  \cs_new:Npn\__skrapport_setup_lang:n#1{
       218      \str_case:nnn{#1}{
       219          {sv}{
       220              \bool_if:NTF\g__skrapport_has_polyglossia_bool{
       221                  \setmainlanguage{swedish}
       222                  \setotherlanguage[variant=british]{english}
       223              }{
       224                  \RequirePackage[british,swedish]{babel}
       225              }

⟨class⟩ 226              \cs_gset:Nn\__skrapport_and_word:{och}
       227              \cs_gset:Nn\__skrapport_Email_word:{E-post}
       228              \cs_gset:Nn\__skrapport_Comment_word:{Kommentar}
       229              \cs_gset:Npn\contentsname{Innehll}
       230              \cs_gset:Npn\refname{Referenser}
       231              \cs_gset:Npn\figurename{Figur}
       232              \cs_gset:Npn\tablename{Tabell}
       233              \cs_gset:Npn\appendixname{Bilaga}
       234              \cs_gset:Npn\abstractname{Sammanfattning}
       235              \cs_gset:Npn\today
       236                  {\int_use:N\year--\int_use:N\month--\int_use:N\day}

⟨class⟩ 237              \PassOptionsToPackage{iso,swedish}{isodate}
       238          }
       239          {en}{
       240              \bool_if:NTF\g__skrapport_has_polyglossia_bool{
       241                  \setmainlanguage[variant=british]{english}
```

```
242                          \setotherlanguage{swedish}
243                      }{
244                          \RequirePackage[swedish,british]{babel}
245                      }
⟨class⟩ 246              \cs_gset:Nn\__skrapport_and_word:{and}
247                      \cs_gset:Nn\__skrapport_Email_word:{Email}
248                      \cs_gset:Nn\__skrapport_Comment_word:{Comment}
249                      \cs_gset:Npn\contentsname{Contents}
250                      \cs_gset:Npn\refname{References}
251                      \cs_gset:Npn\figurename{Figurr}
252                      \cs_gset:Npn\tablename{Table}
253                      \cs_gset:Npn\appendixname{Appendix}
254                      \cs_gset:Npn\abstractname{Abstract}
255                      \cs_gset:Npn\today
256                          {\int_use:N\year--\int_use:N\month--\int_use:N\day}

⟨class⟩ 257              \PassOptionsToPackage{iso,british}{isodate}
258                  }
259              }{
```

Fallback prints an informational message and leaves both babel and polyglossia unloaded.

```
⟨class⟩ 260              \msg_info:nnn{skrapport}{invalid-lang}{#1}
261          }
262  }

⟨class⟩ 263  \cs_new:Npn\__skrapport_after_ams_hook:{}
```

krapport_setup_font:n #1: Font (none, kpfonts, lmodern, palatino, minion or skdoc)

We set up the somewhat involved font stack.

```
⟨class⟩ 264  \cs_new:Npn\__skrapport_setup_font:n#1{
265      \PassOptionsToPackage{intlimits}{amsmath}
266      \PassOptionsToPackage{full}{textcomp}
267      \str_case:nnn{#1}{
```

The none font stack does literally nothing.

〈class〉 268   `{none}{\prg_do_nothing:}`

The `kpfonts` font stack simply loads kpfonts...

〈class〉 269   `{kpfonts}{`
270   `\RequirePackage[easyscsl,intlimits,sumlimits]{kpfonts}`
271   `}`

...and the `lmodern` font stack loads lmodern.

〈class〉 272   `{lmodern}{`
273   `\RequirePackage{lmodern}`
274   `}`

The `palatino` font stack loads tgpagella if available, but falls back to mathpazo otherwise.

〈class〉 275   `{palatino}{`
276   `\file_if_exist:nTF{tgpagella.sty}{`
277   `\RequirePackage{tgpagella}`
278   `}{`
279   `\RequirePackage[osf]{mathpazo}`
280   `}`
281   `}`

Minion Pro, provided by the `minion` font stack, loads both minionpro (the font) and MnSymbol (appropriate math symbols).

〈class〉 282   `{minion}{`
283   `\RequirePackage{minionpro}`
284   `\RequirePackage{MnSymbol}`
285   `}`

Finally, the `skdoc` font stack loads PTSerif and opensans, inspired by the style of the skdoc class.

〈class〉 286   `{skdoc}{`
287   `\RequirePackage{PTSerif}`
288   `\RequirePackage[defaultsans,osfigures,scale=0.95]{opensans}`
289   `}`

The `word` font stack mimics recent versions of Microsoft Word, using Cambria, Consolas and Calibri. This requires a modern engine that

supports fontspec.

```
⟨class⟩ 290        {word}{
       291            \bool_if:nF{\luatex_if_engine_p: || \xetex_if_engine_p:}{
       292                \msg_fatal:nnn{skrapport}{font-requires-xetex}{word}
       293            }
       294            \setmainfont[Numbers={OldStyle,Proportional},Ligatures=TeX]{Cambria}
       295            \setsansfont[Numbers={OldStyle,Proportional},Ligatures=TeX]{Calibri}
       296            \setmonofont[Scale=0.95]{Consolas}
       297            \apptocmd{\__skrapport_after_ams_hook:}{
       298                \setmathfont{Cambria Math}
       299            }{}{}
       300        }
       301    }{
```

As a fallback, we print a waning and load no font packages.

```
⟨class⟩ 302        \msg_warning:nnn{skrapport}{invalid-font}{#1}
       303    }
       304    \str_if_eq:nnF{#1}{none}{
```

All font stacks except none and kpfonts require additional packages. Or, rather, none can't load these packages by definition, and kpfonts already loads them internally[5]. They are always useful.

We also load inconsolata as our monospace font. But we don't load it when using the none font stack.

```
⟨class⟩ 305        \str_if_eq:nnF{#1}{kpfonts}{
       306            \str_if_eq:nnF{#1}{word}{
       307                \RequirePackage[scaled=1.03]{inconsolata}
       308            }
       309            \AtEndOfClass{
       310                \RequirePackage{amsmath}
       311                \RequirePackage{amssymb}
       312                \RequirePackage{textcomp}
       313            }
       314        }
```

---

[5]Caignaert 2010, p. 1.

```
315     }
316     \AtEndOfClass{\__skrapport_after_ams_hook:}
317 }
```

skrapport_setup_parskip: (no arguments)

This part mixes LaTeX 2ε and LaTeX3, which may not be a good thing. On the other hand, it seems hard to avoid. Most of the code is half-lifted from parskip and converted to LaTeX3.

⟨class⟩
```
318 \cs_new:Nn\__skrapport_setup_parskip:{
319     \skip_gset:Nn\parskip{0.5\baselineskip~plus~2pt}
320     \dim_gzero:N\parindent
321     \skip_gset:Nn\parfillskip{30pt~plus~1fil}
```

⟨class⟩
```
322     \cs_gset:Npn\@listI{
323         \dim_set_eq:NN\leftmargin\leftmargini
324         \dim_set_eq:NN\parsep\parskip
325         \dim_zero:N\topsep
326         \dim_zero:N\itemsep
327     }
328     \cs_gset_eq:NN\@listi\@listI
```

⟨class⟩
```
329     \dim_gset_eq:NN\leftmargin\leftmargini
330     \dim_gset_eq:NN\parsep\parskip
331     \dim_gzero:N\topsep
332     \dim_gzero:N\itemsep
```

⟨class⟩
```
333     \cs_gset:Npn\@listii{
334         \dim_set_eq:NN\leftmargin\leftmarginii
335         \dim_set_eq:NN\labelwidth\leftmarginii
336         \dim_set_eq:NN\parsep\parskip
337         \dim_sub:Nn\labelwidth{-\labelsep}
338         \dim_zero:N\topsep
339         \dim_zero:N\itemsep
340     }
```

⟨class⟩
```
341     \cs_gset:Npn\@listiii{
```

```
342        \dim_set_eq:NN\leftmargin\leftmarginiii
343        \dim_set_eq:NN\labelwidth\leftmarginiii
344        \dim_set_eq:NN\parsep\parskip
345        \dim_sub:Nn\labelwidth{-\labelsep}
346        \dim_zero:N\topsep
347        \dim_zero:N\itemsep
348      }
```

⟨class⟩ 349 `\dim_gzero:N\partopsep`

```
⟨class⟩ 350      \RenewDocumentCommand\@starttoc{m}{
351          \group_begin:
352          \dim_zero:N\parskip
353          \file_if_exist:nT{\c_job_name_tl.##1}{
354              \file_input:n{\c_job_name_tl.##1}
355          }
356          \if@filesw
357              \iow_new:c{tf@##1}
358              \iow_open:cn{tf@##1}{\c_job_name_tl.##1}
359          \fi
360          \@nobreakfalse
361          \group_end:
362      }
```

⟨class⟩ 363 `}`

---

skrapport_setup_math: (no arguments)

This is the simplest option, only loading skmath if it exists.

```
⟨class⟩ 364 \cs_new:Nn\__skrapport_setup_math:{
365      \file_if_exist:nT{skmath.sty}{\RequirePackage{skmath}}
366 }
```

krapport_setup_draft: (no arguments)

Setting up the draft mode is also fairly easy, as we only need wider (wider than 0 pt, that is) \overfullrules.

```
⟨class⟩  367  \cs_new:Nn\__skrapport_setup_draft:{
         368      \bool_if:NTF\g__skrapport_draft_bool{
         369          \dim_gset:Nn\overfullrule{5pt}
         370      }{
         371          \msg_log:nnn{skrapport}{noop-call}{\__skrapport_setup_draft:}
         372          \prg_do_nothing:
         373      }
         374  }
```

krapport_setup_color: (no arguments)

Setting up colors is also fairly easy, as we only have to load the xcolor
package. All the other color-related code is in other places, utilizing the
\g__skdoc_color_bool boolean.

```
⟨class⟩  375  \cs_new:Nn\__skrapport_setup_color:{
         376      \bool_if:NTF\g__skrapport_color_bool{
         377          \RequirePackage{xcolor}
         378          \PassOptionsToPackage{
         379              labelfont+={bf,color=skrapport@captioncolor}
         380          }{caption}
         381      }{
         382          \msg_log:nnn{skrapport}{noop-call}{\__skrapport_setup_color:}
         383          \prg_do_nothing:
         384      }
         385  }
```

rapport_setup_color:n   (no arguments)

We may also set up a specific color theme using options. This is
easily done by first calling __skrapport_setup_color:, then calling
\colortheme at \BeginDocument.

```
⟨class⟩  386  \cs_new:Npn\__skrapport_setup_color:n#1{
         387      \__skrapport_setup_color:
         388      \bool_if:NTF\g__skrapport_color_bool{
         389          \AtBeginDocument{\colortheme{#1}}
         390      }{
```

```
391        \msg_log:nnn{skrapport}{noop-call}{\__skrapport_setup_color:n}
392        \prg_do_nothing:
393    }
394 }
```

apport_setup_xelatex: (no arguments)

This macro contains special setup code for the X∃TEX and LuaTEX engines, such as loading fontspec, providing missing commands (which have been replaced by equivalent Unicode characters, apparently) and loading polyglossia.

⟨class⟩ 395 `\cs_new:Nn\__skrapport_setup_xelatex:{`
```
396        \RequirePackage[quiet]{fontspec}
397        \cs_gset:Nn\__skrapport_after_ams_hook:{
398            \RequirePackage{unicode-math}
399            \unimathsetup {
400                math-style     = ISO,
401                bold-style     = ISO,
402                sans-style     = italic,
403                nabla          = upright,
404                partial        = italic,
405                vargreek-shape = unicode
406            }
407        }
```

\nobreakspace   (no arguments)

⟨class⟩ 408   `\DeclareDocumentCommand\nobreakspace{}{\leavevmode\nobreak\space}`

⟨class⟩ 409   `\RequirePackage{polyglossia}`
```
410        \bool_gset_true:N\g__skrapport_has_polyglossia_bool
411 }
```

rapport_setup_pdftex: (no arguments)

This macro contains special setup code for the pdfTEX engine. Currently, it only sets the font encoding to T1.

⟨class⟩ 412 `\cs_new:Nn\__skrapport_setup_pdftex:{`
413 `    \RequirePackage[T1]{fontenc}`
414 `    \bool_gset_false:N\g__skrapport_has_polyglossia_bool`
415 `}`

`etup_engine_specific:`   (no arguments)

This macro detects the current engine and calls the appropriate engine setup macro.

⟨class⟩ 416 `\cs_new:Nn\__skrapport_setup_engine_specific:{`
417 `    \bool_if:nTF{\luatex_if_engine_p: || \xetex_if_engine_p:}{`
418 `        \__skrapport_setup_xelatex:`
419 `    }{`
420 `        \__skrapport_setup_pdftex:`
421 `    }`
422 `}`

Variants with expandable arguments   Some option setup macros accept arguments, but those arguments are not expanded. Here, we provide variants which expand the parameters properly using the excellent l3prg functionality.

`apport_setup_ptsize:x`   (no arguments)

⟨class⟩ 423 `\cs_generate_variant:Nn\__skrapport_setup_ptsize:n{ x }`

`apport_setup_titles:x`   (no arguments)

⟨class⟩ 424 `\cs_generate_variant:Nn\__skrapport_setup_titles:n{ x }`

`krapport_setup_lang:x`   (no arguments)

⟨class⟩ 425 `\cs_generate_variant:Nn\__skrapport_setup_lang:n{ x }`

`krapport_setup_font:x`   (no arguments)

⟨class⟩ 426 `\cs_generate_variant:Nn\__skrapport_setup_font:n{ x }`

3.2.2 Key-value system

Let's define some l3keys corresponding to the options. Note that most of them just refer to a macro in their `.code:n` block — these macros were defined earlier.

⟨class⟩ 427 `\keys_define:nn{skrapport}{`

paper Option with values `a4paper, a5paper, a4, a5`

a4paper (option)

a5paper (option)

Declare the paper size options. Note that having to handle the deprecated `a4paper` and `a5paper` values of the `paper` option makes the code less readable. In a few versions, when these options are removed, the code should probably be refactored to look something like the `ptsize` option below.

```
⟨class⟩ 428     paper .choice:,
       429     paper / a4 .code:n =
       430         {\__skrapport_setup_paper:n{a4}},
       431     paper / a5 .code:n =
       432         {\__skrapport_setup_paper:n{a5}},
       433     paper / a4paper .code:n =
       434         {\msg_warning:nnnn{skrapport}{option-deprecated}
       435             {paper=a4paper}{paper=a4}
       436          \keys_set:nn{skrapport}{paper=a4}},
       437     paper / a5paper .code:n =
       438         {\msg_warning:nnnn{skrapport}{option-deprecated}
       439             {paper=a5paper}{paper=a5}
       440          \keys_set:nn{skrapport}{paper=a4}},
       441     paper .value_required:,
       442     a4paper .code:n =
       443         {\msg_warning:nnnn{skrapport}{option-deprecated}
       444             {a4paper}{paper=a4}
```

```
445        \keys_set:nn{skrapport}{paper=a4}},
446      a5paper .code:n =
447          {\msg_warning:nnnn{skrapport}{option-deprecated}
448             {a5paper}{paper=a5}
449             \keys_set:nn{skrapport}{paper=a5}},
```

ptsize   Option with values `10pt, 11pt, 12pt`

10pt   (option)

11pt   (option)

12pt   (option)

Declare point size options. Note that we don't deprecate the non-`ptsize` aliases as they are much easier to type.

```
⟨class⟩ 450      ptsize .choices:nn =
        451          { 10pt, 11pt, 12pt }
        452          {\__skrapport_setup_ptsize:x{\tl_use:N\l_keys_choice_tl}},
        453      ptsize .value_required:,
        454      10pt .meta:n = {ptsize=10pt},
        455      11pt .meta:n = {ptsize=11pt},
        456      12pt .meta:n = {ptsize=12pt},
```

twocolumn   (option)

Declare column options. The code here should be run through `\AtEndClass` so that the setup code can patch everythin properly.

onecolumn   (option)

The `onecolumn` option has no effect and is deprecated.

```
⟨class⟩ 457      twocolumn .code:n =
        458          {\AtEndClass{\__skrapport_setup_twocolumn:}},
        459      onecolumn .code:n =
        460          {\msg_warning:nnn{skrapport}{option-no-effect}{onecolumn}},
```

draft   Option with values `true, false`

final   (option)

Declare `draft` and `final` options. Note that even if the `final` option does absolutely nothing, users may expect it to be there and as such it is not deprecated.

⟨class⟩ 461   `draft .choice:,`
462   `draft / true .code:n =`
463   `{\bool_gset_true:N\g__skrapport_draft_bool`
464   `\__skrapport_setup_draft:},`
465   `draft / false .code:n =`
466   `{\bool_gset_false:N\g__skrapport_draft_bool},`
467   `draft .default:n = true,`
468   `final .code:n = {\prg_do_nothing:},`

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

`leqno` (option)

⟨class⟩ 469   `leqno .code:n =`
470   `{\__skrapport_setup_leqno:},`

`fleqn` (option)

⟨class⟩ 471   `fleqn .code:n =`
472   `{\__skrapport_setup_fleqn:},`

`titles`   Option with values `rm, bf, sf`

Declare options for section titles. The old `??titles` aliases are deprecated and will be removed in a future version.

`rmtitles` (option)

`bftitles` (option)

`sftitles` (option)

⟨class⟩ 473   `titles .choices:nn =`
474   `{ rm, bf, sf }`
475   `{\__skrapport_setup_titles:x{\tl_use:N\l_keys_choice_tl}},`
476   `titles .value_required:,`
477   `rmtitles .code:n =`
478   `{\msg_warning:nnnn{skrapport}{option-deprecated}`

```
479          {rmtitles}{titles=rm}
480        \keys_set:nn{skrapport}{titles=rm}},
481      bftitles .code:n =
482        {\msg_warning:nnnn{skrapport}{option-deprecated}
483          {bftitles}{titles=bf}
484        \keys_set:nn{skrapport}{titles=bf}},
485      sftitles .code:n =
486        {\msg_warning:nnnn{skrapport}{option-deprecated}
487          {sftitles}{titles=sf}
488        \keys_set:nn{skrapport}{titles=sf}},
```

lang Option with values `sv, en`

swe (option)

eng (option)

Declare options for swedish/english babel or polyglossia support. Again, the old swe and eng aliases are deprecated and will be removed.

⟨class⟩
```
489      lang .choices:nn =
490        { sv, en }
491        {\__skrapport_setup_lang:x{\tl_use:N\l_keys_choice_tl}},
492      lang .value_required:,
493      swe .code:n =
494        {\msg_warning:nnnn{skrapport}{option-deprecated}
495          {swe}{lang=sv}
496        \keys_set:nn{skrapport}{lang=sv}},
497      eng .code:n =
498        {\msg_warning:nnnn{skrapport}{option-deprecated}
499          {eng}{lang=en}
500        \keys_set:nn{skrapport}{lang=en}},
```

font Option with values `none, kpfonts, lmodern, palatino, minion, skdoc`

Declare font options. Again, aliases are deprecated.

kpfonts (option)

lmodern (option)

palatino (option)

minion (option)

skdoc (option)

nofont (option)

⟨class⟩
```
501    font .choices:nn =
502        { none, kpfonts, lmodern, palatino, minion, skdoc, word }
503        {\__skrapport_setup_font:x{\tl_use:N\l_keys_choice_tl}},
504    font .value_required:,
505    nofont .code:n =
506        {\msg_warning:nnnn{skrapport}{option-deprecated}
507            {nofont}{font=none}
508        \keys_set:nn{skrapport}{font=none}},
509    kpfonts .code:n =
510        {\msg_warning:nnnn{skrapport}{option-deprecated}
511            {kpfonts}{font=kpfonts}
512        \keys_set:nn{skrapport}{font=kpfonts}},
513    lmodern .code:n =
514        {\msg_warning:nnnn{skrapport}{option-deprecated}
515            {lmodern}{font=lmodern}
516        \keys_set:nn{skrapport}{font=lmodern}},
517    palatino .code:n =
518        {\msg_warning:nnnn{skrapport}{option-deprecated}
519            {palatino}{font=palatino}
520        \keys_set:nn{skrapport}{font=palatino}},
521    minion .code:n =
522        {\msg_warning:nnnn{skrapport}{option-deprecated}
523            {minion}{font=minion}
524        \keys_set:nn{skrapport}{font=minion}},
525    skdoc .code:n =
526        {\msg_warning:nnnn{skrapport}{option-deprecated}
527            {skdoc}{font=skdoc}
528        \keys_set:nn{skrapport}{font=skdoc}},
```

indent Option with values `true, false`

noindent (option)

Declare indentation options. Since the `noindent` option technically has no effect and is an alias of `indent=false`, it has been deprecated.

⟨class⟩ 529   `indent .choice:,`
530   `indent / true .code:n = {\prg_do_nothing:},`
531   `indent / false .code:n = {\__skrapport_setup_parskip:},`
532   `indent .default:n = true,`
533   `noindent .code:n =`
534   `{\msg_warning:nnn{skrapport}{option-no-effect}{noindent}},`

color   Option with values `true, false`

nocolor (option)

Declare color options. Note that we explicitly set the boolean `\g__skrapport_color_bool` as well as setting up the colors through `\__skrapport_setup_color:n`, so that we can keep track of the color usage even after the options have been set up.

⟨class⟩ 535   `color .code:n =`
536   `{\str_if_eq:nnTF{#1}{false}`
537   `{\bool_gset_false:N\g__skrapport_color_bool}`
538   `{\bool_gset_true:N\g__skrapport_color_bool`
539   `\str_if_eq:nnTF{#1}{true}`
540   `{\__skrapport_setup_color:n{default}}`
541   `{\__skrapport_setup_color:n{#1}}}},`
542   `color .default:n = true,`
543   `nocolor .meta:n = {color=false},`

nomath Option with values `true, false`

math (option)

Declare math options. As with the `noindent` option, `math` has been deprecated since it is an alias and has no effect.

⟨class⟩ 544   `nomath .choice:,`
545   `nomath / false .code:n = {\__skrapport_setup_math:},`
546   `nomath / true .code:n = {\prg_do_nothing:},`
547   `nomath .default:n = true,`
548   `math .code:n =`

```
549         {\msg_warning:nnn{skrapport}{option-no-effect}{math}},
```

That's it, we're done setting up the l3keys for the options.

⟨class⟩ 550 `}`

We will now define a 'defaults' key-value system because `.initial:n` doesn't work they way we want it to. This key-value system will be used to set flags with which we will determine wether to set certain default options.

port_setup_defaults: (no arguments)

```
⟨class⟩ 551 \cs_new:Nn\__skrapport_setup_defaults:{
    552     \bool_new:N\l__skrapport_has_option_indent_bool
    553     \bool_new:N\l__skrapport_has_option_nomath_bool
    554     \bool_new:N\l__skrapport_has_option_color_bool
    555     \bool_new:N\l__skrapport_has_option_font_bool
    556     \bool_new:N\l__skrapport_has_option_lang_bool
    557     \bool_new:N\l__skrapport_has_option_titles_bool
    558     \bool_new:N\l__skrapport_has_option_draft_bool
    559     \bool_new:N\l__skrapport_has_option_ptsize_bool
    560     \bool_new:N\l__skrapport_has_option_paper_bool
    561     \keys_define:nn{skrapport-default}{
    562         indent .code:n =
    563             {\bool_set_true:N\l__skrapport_has_option_indent_bool},
    564         nomath .code:n =
    565             {\bool_set_true:N\l__skrapport_has_option_nomath_bool},
    566         color .code:n =
    567             {\bool_set_true:N\l__skrapport_has_option_color_bool},
    568         font .code:n =
    569             {\bool_set_true:N\l__skrapport_has_option_font_bool},
    570         lang .code:n =
    571             {\bool_set_true:N\l__skrapport_has_option_lang_bool},
    572         titles .code:n =
    573             {\bool_set_true:N\l__skrapport_has_option_titles_bool},
    574         draft .code:n =
    575             {\bool_set_true:N\l__skrapport_has_option_draft_bool},
```

```
576    ptsize .code:n =
577        {\bool_set_true:N\l__skrapport_has_option_ptsize_bool},
578    paper .code:n =
579        {\bool_set_true:N\l__skrapport_has_option_paper_bool},
```

The following keys correspond to deprecated options. They should be removed when the corresponding options are removed.

```
⟨class⟩ 580    nofont .code:n =   {\keys_set:nn{skrapport-default}{font}},
581    kpfonts .code:n =  {\keys_set:nn{skrapport-default}{font}},
582    lmodern .code:n =  {\keys_set:nn{skrapport-default}{font}},
583    palatino .code:n = {\keys_set:nn{skrapport-default}{font}},
584    minion .code:n =   {\keys_set:nn{skrapport-default}{font}},
585    skdoc .code:n =    {\keys_set:nn{skrapport-default}{font}},
586    swe .code:n =      {\keys_set:nn{skrapport-default}{lang}},
587    eng .code:n =      {\keys_set:nn{skrapport-default}{lang}},
588    rmtitles .code:n = {\keys_set:nn{skrapport-default}{titles}},
589    bftitles .code:n = {\keys_set:nn{skrapport-default}{titles}},
590    sftitles .code:n = {\keys_set:nn{skrapport-default}{titles}},
591    10pt .code:n =     {\keys_set:nn{skrapport-default}{ptsize}},
592    11pt .code:n =     {\keys_set:nn{skrapport-default}{ptsize}},
593    12pt .code:n =     {\keys_set:nn{skrapport-default}{ptsize}},
594    a4paper .code:n =  {\keys_set:nn{skrapport-default}{paper}},
595    a5paper .code:n =  {\keys_set:nn{skrapport-default}{paper}},
⟨class⟩ 596    }
597    \ProcessKeysOptions{skrapport-default}
598    \bool_if:NF\l__skrapport_has_option_indent_bool{
599        \keys_set:nn{skrapport}{indent=false}
600    }
601    \bool_if:NF\l__skrapport_has_option_nomath_bool{
602        \keys_set:nn{skrapport}{nomath=false}
603    }
604    \bool_if:NF\l__skrapport_has_option_color_bool{
605        \keys_set:nn{skrapport}{color=true}
606    }
607    \bool_if:NF\l__skrapport_has_option_font_bool{
```

```
608        \keys_set:nn{skrapport}{font=kpfonts}
609    }
610    \bool_if:NF\l__skrapport_has_option_lang_bool{
611        \keys_set:nn{skrapport}{lang=sv}
612    }
613    \bool_if:NF\l__skrapport_has_option_titles_bool{
614        \keys_set:nn{skrapport}{titles=bf}
615    }
616    \bool_if:NF\l__skrapport_has_option_draft_bool{
617        \keys_set:nn{skrapport}{draft=false}
618    }
619    \bool_if:NF\l__skrapport_has_option_ptsize_bool{
620        \keys_set:nn{skrapport}{ptsize=11pt}
621    }
622    \bool_if:NF\l__skrapport_has_option_paper_bool{
623        \keys_set:nn{skrapport}{paper=a4}
624    }
625 }
```

Finally, we process the class options using the keys defined earlier. We also run the engine-specific code implemented above, and the fake key system used to define defaults.

```
⟨class⟩ 626 \__skrapport_setup_engine_specific:
        627 \ProcessKeysOptions{skrapport}
        628 \__skrapport_setup_defaults:
```

3.3 Required packages

We also include some essential packages per default. The calc package, for instance, is essential in later definitions.

```
⟨class⟩ 629 \RequirePackage{calc,isodate,multicol}
```

At the end of the class definition we load a couple of very useful packages that improve typesetting. These are microtype, icomma.

```
⟨class⟩ 630 \AtEndOfClass{
```

```
631      \RequirePackage{microtype}
632      \RequirePackage{icomma}
633  }
```

When the document starts, we set the URL style if the user has loaded the url package.

```
⟨class⟩ 634  \AtBeginDocument{
        635      \cs_if_exist:NT\urlstyle{\urlstyle{same}}
        636  }
```

3.4 Utilities

We define useful LaTeX3 replacements of LaTeX 2_ε stuff that hasn't made its way into interface3. This includes a \settowidth clone and possibly more stuff later.

\dim_set_to_wd:Nn   (no arguments)

```
⟨class⟩ 637  \cs_new:Npn\dim_set_to_wd:Nn#1#2{
        638      \hbox_set:Nn\l_tmpa_box{#2}
        639      \dim_set:Nn#1{\box_wd:N\l_tmpa_box}
        640      \box_clear:N\l_tmpa_box
        641  }
```

3.5 Hidden things

Set some default measurements (should probably be replaced with simply loading typearea).

```
⟨class⟩ 642  \dim_add:Nn\textwidth{0.5\oddsidemargin}
        643  \dim_add:Nn\textwidth{0.5\evensidemargin}
        644  \dim_add:Nn\oddsidemargin{-0.5\oddsidemargin}
        645  \dim_add:Nn\evensidemargin{-0.5\evensidemargin}
        646  \dim_gset:Nn\lineskip{1pt}
        647  \dim_gset:Nn\normallineskip{1pt}
```

`\baselinestretch` (no arguments)

> Note that we can't use `\RenewDocumentCommand` as that yields an infinite loop before or at document.

⟨class⟩ 648 `\cs_set:Npn\baselinestretch{}`

3.5.1 Penalties

⟨class⟩ 649 `\int_gset:Nn\@lowpenalty  {51}`
650 `\int_gset:Nn\@medpenalty {151}`
651 `\int_gset:Nn\@highpenalty{301}`
652 `\ctr_gset:nn{topnumber}{2}`
653 `\ctr_gset:nn{bottomnumber}{1}`
654 `\ctr_gset:nn{totalnumber}{4}`
655 `\ctr_gset:nn{dbltopnumber}{2}`

`\topfraction` (no arguments)

⟨class⟩ 656 `\RenewDocumentCommand\topfraction{}{.75}`

`\bottomfraction` (no arguments)

⟨class⟩ 657 `\RenewDocumentCommand\bottomfraction{}{.5}`

`\textfraction` (no arguments)

⟨class⟩ 658 `\RenewDocumentCommand\textfraction{}{.25}`

`\floatpagefraction` (no arguments)

⟨class⟩ 659 `\RenewDocumentCommand\floatpagefraction{}{.625}`

`\dbltopfraction` (no arguments)

⟨class⟩ 660 `\RenewDocumentCommand\dbltopfraction{}{.75}`

\dblfloatpagefraction   (no arguments)

⟨class⟩ 661 `\RenewDocumentCommand\dblfloatpagefraction{}{.625}`

3.6 User-level commands and environments

3.6.1 The front page

\title   #1: Title of the document

⟨class⟩ 662 `\tl_new:N\g__skrapport_title_tl`

⟨class⟩ 663 `\DeclareDocumentCommand\title{m}{`
    664   `\tl_gset:Nn\g__skrapport_title_tl{#1}`
    665 `}`

\date #1: Date in ISO8601 format

    The `\date` macro sets the current date of the document. It only accepts dates accepted by isodate (or the special value 'today'). Dates are always printed using the current format as specified by the isodate package. The default value of the date (if `\date` isn't used) is `\today`.

⟨class⟩ 666 `\tl_new:N\g__skrapport_date_tl`
    667 `\tl_gset:Nn\g__skrapport_date_tl{\today}`

⟨class⟩ 668 `\DeclareDocumentCommand\date{m}{`
    669   `\str_if_eq:nnTF{#1}{today}{`
    670   `\tl_gset:Nn\g__skrapport_date_tl{\today}`
    671   `}{`
    672   `\if_meaning:w \today #1`
    673   `\tl_gset:Nn\g__skrapport_date_tl{\today}`
    674   `\else:`
    675   `\tl_gset:Nn\g__skrapport_date_tl{\printdate{#1}}`
    676   `\fi:`
    677   `}`
    678 `}`

\author#1: Optional email address

#2: Author name

The \author macro is redefined to accept an optional argument and to be used multiple times. The \skrapport@email helper macro typesets an email address using hyperref if that package is used. This is suboptimal, the macro behaves differently with respect to special characters depending on wether hyperref is loaded or not.

⟨class⟩ 679 `\cs_new_nopar:Npn\__skrapport_email:n#1{`
680 `    \texttt{#1}`
681 `}`
682 `\AtBeginDocument{`
683 `    \cs_if_exist:NT\href{`
684 `        \cs_gset_nopar:Npn\__skrapport_email:n#1{`
685 `            \href{mailto:#1}{\nolinkurl{#1}}`
686 `        }`
687 `    }`
688 `}`

⟨class⟩ 689 `\clist_new:N\g__skrapport_author_clist`

⟨class⟩ 690 `\clist_new:N\g__skrapport_email_clist`

⟨class⟩ 691 `\DeclareDocumentCommand\author{om}{%`
692 `    \clist_gput_right:Nn\g__skrapport_author_clist{#2}`
693 `    \clist_gput_right:Nn\g__skrapport_email_clist{#1}`
694 `}`

krapport_author_list: (no arguments)

This macro lists all the authors in the comma-separated list \g__skrapport_author_clist, separating them with a comma or the word 'and' (in the appropriate language).

⟨class⟩ 695 `\cs_new:Nn\__skrapport_author_list:{`
696 `    \int_zero:N\l_tmpa_int`
697 `    \int_set:Nn\l_tmpb_int{\clist_count:N\g__skrapport_author_clist}`
698 `    \clist_map_inline:Nn\g__skrapport_author_clist{`

```
699        \int_compare:nT{\l_tmpa_int>\c_zero}{~}
700        ##1
701        \int_incr:N\l_tmpa_int
702        \int_compare:nT{\l_tmpa_int<\l_tmpb_int}{
703            \int_compare:nTF{\l_tmpa_int=\l_tmpb_int-1}
704                {~\__skrapport_and_word:}{,}
705        }
706    }
707 }
```

skrapport_email_list: (no arguments)

This macro lists the email addresses in the comma-separated list
\g__skrapport_email_clist by applying __skrapport_email: if ap-
propriate (or printing an em-dash if no value exists) and separating
them with commas.

⟨class⟩ 708 `\cs_new:Nn\__skrapport_email_list:{`
```
709        \int_compare:nT{\clist_count:N\g__skrapport_author_clist>\c_zero}{
710            \bool_set_false:N\l_tmpa_bool
711            \clist_map_inline:Nn\g__skrapport_email_clist{
712                \bool_if:NT\l_tmpa_bool{\\}
713                \IfNoValueTF{##1}{
714                    \textemdash
715                }{
716                    \__skrapport_email:n{##1}
717                }
718                \bool_set_true:N\l_tmpa_bool
719            }
720        }
721 }
```

\regarding#1: Text snippet

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

⟨class⟩ 722 `\tl_new:N\g__skrapport_regarding_tl`

```
723  \DeclareDocumentCommand\regarding{m}{
724      \tl_gset:Nn\g__skrapport_regarding_tl{#1}
725  }
```

\license#1: Short license description

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

⟨class⟩ 726 `\bool_new:N\g__skrapport_copyright_unprinted_bool`
727 `\AtEndDocument{`
728 `    \bool_if:NT\g__skrapport_copyright_unprinted_bool`
729 `        {\msg_warning:nn{skrapport}{license-not-printed}}`
730 `}`

⟨class⟩ 731 `\tl_new:N\g__skrapport_copyright_tl`
732 `\DeclareDocumentCommand\license{m}{`
733 `    \tl_gset:Nn\g__skrapport_copyright_tl{#1}`
734 `    \bool_gset_true:N\g__skrapport_copyright_unprinted_bool`
735 `}`

\maketitle(no arguments)

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

⟨class⟩ 736 `\cs_new_protected:Nn\__skrapport_smallprint_style:{}`

⟨class⟩ 737 `\cs_new_protected:Nn\__skrapport_abstract_style:`
738 `    {\__skrapport_title_style:}`

⟨class⟩ 739 `\DeclareDocumentCommand\maketitle{}{`
740 `    \par`
741 `    \group_begin:`
742 `        \RenewDocumentCommand\thefootnote{}{`
743 `            \ctr_use_fn:n{footnote}`
744 `        }`
745 `        \RenewDocumentCommand\@makefnmark{}{`
746 `            \hbox_overlap_right:n{`

```
747            \@textsuperscript{\normalfont\@thefnmark}
748          }
749        }
750      \RenewDocumentCommand\@makefntext{m+}{
751          \parindent 1em\noindent
752          \hbox_to_wd:nn{1.8em}{
753              \hss\@textsuperscript{\normalfont\@thefnmark}
754          }
755          ##1
756      }
757      \newpage
758      \int_gzero:N\@topnum
759      \__skrapport_maketitle:
760      \thispagestyle{plain}
761    \group_end:
762    \ctr_gzero:n{footnote}
763  }
```

⟨class⟩
```
764  \cs_new:Nn\__skrapport_maketitle:{
765      \newpage
766      \hbox:n{}
767      \begin{flushleft}
768          \vspace{-\headsep}
769          {
770              \small\__skrapport_smallprint_style:
771              \tl_use:N\g__skrapport_regarding_tl
772              \tl_if_empty:NF\g__skrapport_regarding_tl{,~}
773              \tl_use:N\g__skrapport_date_tl\par
774          }
775          \vspace{1.5cm}
776          {
777              \Huge\__skrapport_title_style:
778              \tl_use:N\g__skrapport_title_tl
779              \par
780          }
781          \vspace{.125cm}
```

```
782    {
783        \Large\__skrapport_title_style:
784        \__skrapport_author_list:
785    }
786    \vspace{.75cm}
787    \end{flushleft}
788    \par
789    \dim_set_to_abstract_or_email_wd:N\l_tmpa_dim
790    \bool_gset_false:N\g__skrapport_abstract_used
791    \dim_set:Nn\l_tmpb_dim
792        {\textwidth-\l_tmpa_dim-\c__skrapport_abstract_separator_dim}
793    \begin{minipage}[t]{\l_tmpa_dim}
794        \begin{flushright}
795            \leavevmode\__skrapport_abstract_style:
796            \__skrapport_Email_word:
797        \end{flushright}
798    \end{minipage}
799    \hspace{\c__skrapport_abstract_separator_dim}
800    \begin{minipage}[t]{\l_tmpb_dim}
801        \__skrapport_email_list:
802    \end{minipage}
803    \par
804 }
```

This boolean keeps track of wether the abstract environment has been used, and is set accordingly in the main auxillary file.

⟨class⟩
```
805 \bool_new:N\g__skrapport_abstract_used
806 \AtEndDocument{
807    \iow_shipout:Nx\@mainaux{ % !!!
808        \exp_not:N\ExplSyntaxOn
809        \bool_if:NTF\g__skrapport_abstract_used
810            {\exp_not:n{\bool_gset_true:N\g__skrapport_abstract_used}}
811            {\exp_not:n{\bool_gset_false:N\g__skrapport_abstract_used}}
812        \exp_not:N\ExplSyntaxOff
813    }
814 }
```

This macro sets a dimension to either the width of the email word or the width of the abstract word depending on the state of \g__skrapport_abstract_used.

⟨class⟩ 815 `\cs_new:Npn\dim_set_to_abstract_or_email_wd:N#1{`
816 `    \dim_set_to_wd:Nn\l_tmpa_dim`
817 `        {\abstractname\__skrapport_abstract_style:}`
818 `    \dim_set_to_wd:Nn\l_tmpb_dim`
819 `        {\__skrapport_Email_word:\__skrapport_abstract_style:}`
820 `    \bool_if:NTF\g__skrapport_abstract_used`
821 `        {\dim_set:Nn#1{\dim_max:nn{\l_tmpa_dim}{\l_tmpb_dim}}}`
822 `        {\dim_set_eq:NN#1\l_tmpb_dim}`
823 `}`

abstract   (no arguments)

Standard restyled abstract environment from the article class.

⟨class⟩ 824 `\dim_const:Nn\c__skrapport_abstract_separator_dim{1em}`
825 `\DeclareDocumentEnvironment{abstract}{}{`
826 `    \bool_gset_true:N\g__skrapport_abstract_used`
827 `    \dim_set_to_abstract_or_email_wd:N\l_tmpa_dim`
828 `    \dim_set:Nn\l_tmpb_dim`
829 `        {\textwidth-\l_tmpa_dim-\c__skrapport_abstract_separator_dim}`
830 `    \begin{minipage}[t]{\l_tmpa_dim}`
831 `        \begin{flushright}`
832 `            \leavevmode\__skrapport_abstract_style:`
833 `            \abstractname`
834 `        \end{flushright}`
835 `    \end{minipage}`
836 `    \hspace{\c__skrapport_abstract_separator_dim}`
837 `    \begin{minipage}[t]{\l_tmpb_dim}`
838 `}{`
839 `    \end{minipage}`
840 `}`

titlepage   (no arguments)

Titlepage environment.

(no arguments)

```
⟨class⟩  841  \cs_new:Npn\ps@skrapport@titlepage{
         842      \cs_set:Npn\@oddhead{}
         843      \cs_set:Npn\@evenhead{}
         844      \cs_set:Npn\@oddfoot{
         845          \begin{minipage}{\textwidth}
         846              \raggedleft\small\par
         847              \__skrapport_smallprint_style:
         848              \tl_use:N\g__skrapport_copyright_tl
         849          \end{minipage}
         850      }
         851      \cs_set_eq:NN\@evenfoot\@oddfoot
         852  }

⟨class⟩  853  \DeclareDocumentEnvironment{titlepage}{}{
         854      \cleardoublepage\ctr_gset:nn{page}{1}
         855  }{
         856      \bool_gset_false:N\g__skrapport_copyright_unprinted_bool
         857      \thispagestyle{skrapport@titlepage}
         858      \cleardoublepage\ctr_gset:nn{page}{1}
         859  }
```

3.6.2 Sectioning

Sectioning macros. This is kind of messy. We start with creaiting some counters using our homemade LaTeX3 counter macros.

```
⟨class⟩  860  \ctr_gset:nn{secnumdepth}{3}
         861  \ctr_new:n{section}
         862  \ctr_new:nn{subsection}{section}
         863  \ctr_new:nn{subsubsection}{subsection}
         864  \ctr_new:nn{paragraph}{subsubsection}
         865  \ctr_new:nn{subparagraph}{paragraph}
```

Next up, we have macros to display the section numberings.

```
⟨class⟩  866  \cs_gset:Npn\thesection{
         867      \ctr_use_arabic:n{section}
         868  }

⟨class⟩  869  \cs_gset:Npn\thesubsection{
         870      \thesection.\ctr_use_arabic:n{subsection}
         871  }

⟨class⟩  872  \cs_gset:Npn\thesubsubsection{
         873      \thesubsection.\ctr_use_arabic:n{subsubsection}
         874  }

⟨class⟩  875  \cs_gset:Npn\theparagraph{
         876      \thesubsubsection.\ctr_use_arabic:n{paragraph}
         877  }

⟨class⟩  878  \cs_gset:Npn\thesubparagraph{
         879      \theparagraph.\ctr_use_arabic:n{subparagraph}
         880  }
```

Pre- and post-section spacing   Here comes the tricky part. We define two generic macros that add spacing before and after the section title, to condense the code a bit. Note that many of the following macros constitute a reimplementation of \@startsection, \@ssect, \@sect and friends.

__skrapport_pre_section:n   #1: Skip before the section title

```
⟨class⟩  881  \cs_new:Npn\__skrapport_pre_section:n#1{
         882      \leavevmode\par
         883      \skip_set:Nn\l_tmpa_skip{#1}
         884      \@afterindenttrue % !!!
         885      \dim_compare:nT{\l_tmpa_skip<\c_zero_skip}{
         886          \skip_set:Nn\l_tmpa_skip{-\l_tmpa_skip}
         887          \@afterindentfalse % !!!
         888      }
         889      \if@nobreak \everypar{} \else
```

```
890        \addpenalty\@secpenalty % !!!
891        \skip_vertical:N\l_tmpa_skip
892    \fi
893 }
```

`apport_post_section:n` #1: Space after the section title

⟨class⟩
```
894 \cs_new:Npn\__skrapport_post_section:n#1{
895     \skip_set:Nn\l_tmpa_skip{#1}
896     \dim_compare:nTF{\l_tmpa_skip>\c_zero_skip}{
897         \par\nobreak
898         \skip_vertical:N\l_tmpa_skip
899         \@afterheading % !!!
900     }{
901         \@nobreakfalse
902         \global\@noskipsectrue
903         \skip_horizontal:n{-\l_tmpa_skip}
904     }
905     \ignorespaces
906 }
```

Starred sections   These two macros (the first only being an alias for the second with its last argument empty) correspond to unnumbered sections. Or, rather, they do all the typesetting and none of the TOC/-counter stuff. This means that starred sections only call this macro, while unstarred ones call other macros in addition to this macro.

`ort_section_star:nnnn` #1: Indentation of section title
#2: Styling of the section title
#3: Actual section title
#4: Optional code to run in the indentation (*i.e.* section number)

⟨class⟩
```
907 \cs_new:Npn\__skrapport_section_star:nnn#1#2#3{
908     \__skrapport_section_star:nnnn{#1}{#2}{#3}{}
909 }
910 \cs_new:Npn\__skrapport_section_star:nnnn#1#2#3#4{
```

```
911       \group_begin:
912           #2
913           \hbox_set:Nn\l_tmpa_box{{\skip_horizontal:n{#1}#4}}
914           \dim_set:Nn\hangindent{#1+\box_wd:N\l_tmpa_box}
915           \noindent\box_use_clear:N\l_tmpa_box
916           \interlinepenalty\@M % !!!
917           #3
918       \group_end:
919   }
```

Unstarred sections This macro typesets an unstarred section, *i.e.* a numbered one. It defines a temporary macro containing the section number (maybe, depends on the \c@secnumdepth counter) which it passes on to __skrapport_section_star:nnnn, and then writes some things to the TOC.

section_nostar:nnnnnn   #1: Section counter name
#2: Section level
#3: Indentation of section title
#4: Styling of the section title
#5: Actual section title
#6: Section title for TOC

⟨class⟩
```
920   \cs_new:Npn\__skrapport_section_nostar:nnnnnn#1#2#3#4#5#6{
921       \cs_set:Nn\__skrapport_saved_section:{}
922       \int_compare:nF{#2>\ctr_use:n{secnumdepth}}{
923           \ctr_ref_gincr:n{#1}
924           \cs_set:Nn\__skrapport_saved_section:{\use:c{the#1}~}
925       }
926       \__skrapport_section_star:nnnn
927           {#3}{#4}{#5}{\__skrapport_saved_section:}
928       \use:c{#1mark}{#6}
929       \addcontentsline{toc}{#1}{
930           \int_compare:nF{#2>\ctr_use:n{secnumdepth}}{
931               \protect\numberline{\use:c{the#1}}
932           }
```

```
933        #6
934      }
935  }
```

Generic sectioning macros   We will now set up a generic sectioning macro. First, we need version of the above macros that expand their arguments.

⟨class⟩ 936 `\cs_generate_variant:Nn\__skrapport_pre_section:n{c}`

⟨class⟩ 937 `\cs_generate_variant:Nn\__skrapport_post_section:n{c}`

⟨class⟩ 938 `\cs_generate_variant:Nn\__skrapport_section_star:nnn{ccn}`

⟨class⟩ 939 `\cs_generate_variant:Nn\__skrapport_section_nostar:nnnnnn{nnccnn}`

Now, the generic sectioning macro basically takes the sectioning macro arguments straight up (arguments 3–5), additionally requiring a section counter name and a section level. It expects that constant dimensions (see definition of \section below) and a formatting macro are available, and passes these as arguments to the underlying sectioning macros as appropriate.

generic_section:nnnnn #1: Section counter name
#2: Section level
#3: Star (tested with \IfBooleanTF)
#4: Optional argument (or \NoValue)
#5: Section title text

```
⟨class⟩ 940  \cs_set:Nn\__skrapport_generic_section:nnnnn{
941      \__skrapport_pre_section:c{c__skrapport_#1_pre_skip}
942      \IfBooleanTF#3{
943          \__skrapport_section_star:ccn
944              {c__skrapport_#1_indent_dim}
945              {__skrapport_#1_style:}
946              {#5}
947      }{
948          \IfNoValueTF{#4}{
```

```
949              \__skrapport_section_nostar:nnccnn
950                  {#1}{#2}
951                  {c__skrapport_#1_indent_dim}
952                  {__skrapport_#1_style:}
953                  {#5}
954                  {#5}
955          }{
956              \__skrapport_section_nostar:nnccnn
957                  {#1}{#2}
958                  {c__skrapport_#1_indent_dim}
959                  {__skrapport_#1_style:}
960                  {#5}
961                  {#4}
962          }
963      }
964      \__skrapport_post_section:c{c__skrapport_#1_post_skip}
965  }
```

Public sectioning API   It's time to define the public sectioning macros. They all follow the same format: first, two skips and one dimension (used by `\__skrapport_generic_section:nnnnn`) are defined, as well as a macro defining the text style of the section. Then, the actual macro is provided.

`\section`#1: Star (tested with `\IfBooleanTF`)
#2: Optional short title (or `\NoValue`)
#3: Sectioning title

This is the skip *before* a section title.

⟨class⟩ 966 `\skip_const:Nn\c__skrapport_section_pre_skip{-4ex~plus~1ex~minus~-1ex}`

This is the skip *after* a section title.

⟨class⟩ 967 `\skip_const:Nn\c__skrapport_section_post_skip{.5ex~plus~.5ex}`

This is the *indentation* of a section title.

⟨class⟩ 968 `\dim_const:Nn \c__skrapport_section_indent_dim{\c_zero_dim}`

This is the text style of a section title.

```
⟨class⟩ 969  \cs_set_protected:Nn\__skrapport_section_style:
       970      {\normalfont\LARGE\__skrapport_title_style:}
```

Finally, the public macro is provided.

```
⟨class⟩ 971  \DeclareDocumentCommand\section{som}{
       972      \__skrapport_generic_section:nnnnn{section}{1}{#1}{#2}{#3}
       973  }
```

The other sectioning macros (macros from section to subparagraph are available) are defined in an analogous manner.

\subsection #1: Star (tested with \IfBooleanTF)
#2: Optional short title (or \NoValue)
#3: Sectioning title

```
⟨class⟩ 974  \skip_const:Nn\c__skrapport_subsection_pre_skip{-3ex~plus~1ex~minus~-1ex}
```

```
⟨class⟩ 975  \skip_const:Nn\c__skrapport_subsection_post_skip{.25ex~plus~.25ex}
```

```
⟨class⟩ 976  \dim_const:Nn \c__skrapport_subsection_indent_dim{\c_zero_dim}
```

```
⟨class⟩ 977  \cs_set_protected:Nn\__skrapport_subsection_style:
       978      {\normalfont\Large\__skrapport_title_style:}
```

```
⟨class⟩ 979  \DeclareDocumentCommand\subsection{som}{
       980      \__skrapport_generic_section:nnnnn{subsection}{2}{#1}{#2}{#3}
       981  }
```

\subsubsection #1: Star (tested with \IfBooleanTF)
#2: Optional short title (or \NoValue)
#3: Sectioning title

```
⟨class⟩ 982  \skip_const:Nn\c__skrapport_subsubsection_pre_skip{-2ex~plus~.5ex~minus~-.5ex}
```

```
⟨class⟩ 983  \skip_const:Nn\c__skrapport_subsubsection_post_skip{.125ex~plus~.125ex}
```

```
⟨class⟩ 984  \dim_const:Nn \c__skrapport_subsubsection_indent_dim{\c_zero_dim}
```

```
⟨class⟩ 985  \cs_set_protected:Nn\__skrapport_subsubsection_style:
```

```
            986       {\normalfont\large\__skrapport_title_style:}

⟨class⟩  987   \DeclareDocumentCommand\subsubsection{som}{
            988       \__skrapport_generic_section:nnnnn{subsubsection}{3}{#1}{#2}{#3}
            989   }
```

\paragraph #1: Star (tested with \IfBooleanTF)
#2: Optional short title (or \NoValue)
#3: Sectioning title

```
⟨class⟩  990   \skip_const:Nn\c__skrapport_paragraph_pre_skip{1ex~plus~.25ex~minus~-.25ex}

⟨class⟩  991   \skip_const:Nn\c__skrapport_paragraph_post_skip{-1em}

⟨class⟩  992   \dim_const:Nn \c__skrapport_paragraph_indent_dim{\c_zero_dim}

⟨class⟩  993   \cs_set_protected:Nn\__skrapport_paragraph_style:
            994       {\normalfont\normalsize\__skrapport_title_style:}

⟨class⟩  995   \DeclareDocumentCommand\paragraph{som}{
            996       \__skrapport_generic_section:nnnnn{paragraph}{4}{#1}{#2}{#3}
            997   }
```

\subparagraph #1: Star (tested with \IfBooleanTF)
#2: Optional short title (or \NoValue)
#3: Sectioning title

```
⟨class⟩  998   \skip_const:Nn\c__skrapport_subparagraph_pre_skip{1ex~plus~.25ex~minus~-.25ex}

⟨class⟩  999   \skip_const:Nn\c__skrapport_subparagraph_post_skip{-1em}

⟨class⟩ 1000   \dim_const:Nn \c__skrapport_subparagraph_indent_dim{\parindent}

⟨class⟩ 1001   \cs_set_protected:Nn\__skrapport_subparagraph_style:
            1002       {\normalfont\normalsize\__skrapport_title_style:\itshape}

⟨class⟩ 1003   \DeclareDocumentCommand\subparagraph{som}{
            1004       \__skrapport_generic_section:nnnnn{subparagraph}{5}{#1}{#2}{#3}
            1005   }
```

3.6.3 Macros and environments from article

List environments   First, several dimensions are provided and three penalties defined.

```
⟨class⟩ 1006 \dim_gset:Nn\leftmargini{2em}
        1007 \dim_gset_eq:NN\leftmargin\leftmargini
        1008 \dim_gset:Nn\leftmarginii{2em}
        1009 \dim_gset:Nn\leftmarginiii{1.5em}
        1010 \dim_gset:Nn\leftmarginiv{1.5em}
        1011 \dim_gset:Nn\leftmarginv{1em}
        1012 \dim_gset:Nn\leftmarginvi{1em}
        1013 \dim_gset:Nn\labelsep{.5em}
        1014 \dim_gset_eq:NN\labelwidth\leftmargini
        1015 \dim_gsub:Nn\labelwidth{-\labelsep}
        1016 \int_gset:Nn\@beginparpenalty{-\@lowpenalty}
        1017 \int_gset:Nn\@endparpenalty  {-\@lowpenalty}
        1018 \int_gset:Nn\@itempenalty    {-\@lowpenalty}
```

Then, we define the appearance of the item numbers. The first level consists of arabic numbers $(1, 2, 3, \ldots)$.

```
⟨class⟩ 1019 \cs_set:Npn\theenumi   {\ctr_use_arabic:n{enumi}}
```

The second level consists of lower-case alphabetic characters $(a, b, c, \ldots)$.

```
⟨class⟩ 1020 \cs_set:Npn\theenumii {\ctr_use_alph:n{enumii}}
```

The third level consists of lower-case roman numerals $(i, ii, iii, \ldots)$.

```
⟨class⟩ 1021 \cs_set:Npn\theenumiii{\ctr_use_roman:n{enumiii}}
```

The fourth level consists of upper-case alphabetic characters $(A, B, C, \ldots)$.

```
⟨class⟩ 1022 \cs_set:Npn\theenumiv {\ctr_use_Alph:n{enumiv}}
```

We also need macros that typeset the actual labels. Here, different levels have a different postfix: all levels except the second are postfixed by a period, while the second level is postfixed by a closing bracket.

```
⟨class⟩ 1023 \cs_new:Npn\labelenumi{\theenumi.}
```

⟨class⟩ 1024 `\cs_new:Npn\labelenumii{\theenumii)}`

⟨class⟩ 1025 `\cs_new:Npn\labelenumiii{\theenumiii.}`

⟨class⟩ 1026 `\cs_new:Npn\labelenumiv{\theenumiv.}`

We also fix the referencing of lower-level items so that one can refer to them properly (*i.e.* as 1b(iii) and so on).

⟨class⟩ 1027 `\cs_set:Npn\p@enumii{\theenumi}`

⟨class⟩ 1028 `\cs_set:Npn\p@enumiii{\theenumi(\theenumii)}`

⟨class⟩ 1029 `\cs_set:Npn\p@enumiv{\p@enumiii\theenumiii}`

All that was for numbered lists (`enumerate`). Now, we define the 'labels' of `itemize` items. Alternately, they are a bullet (•) and a boldfaced dash (–).

⟨class⟩ 1030 `\cs_set:Npn\labelitemi{\textbullet}`

⟨class⟩ 1031 `\cs_set:Npn\labelitemii{\normalfont\bfseries\textendash}`

⟨class⟩ 1032 `\cs_set:Npn\labelitemiii{\textbullet}`

⟨class⟩ 1033 `\cs_set:Npn\labelitemiv{\normalfont\bfseries\textendash}`

The last of the commonly used list environments is `description`. Defining it is fairly simple — we define a list with empty item labels and a bit of hackery for the `\makelabel` macro inside.

description   (no arguments)

```
⟨class⟩ 1034 \DeclareDocumentEnvironment{description}{}{
       1035     \begin{list}{}{
       1036         \dim_zero:N\labelwidth
       1037         \dim_set:Nn\itemindent{-\leftmargin}
       1038         \cs_set_eq:NN\makelabel\descriptionlabel
       1039     }
       1040 }{
       1041     \end{list}
       1042 }
```

`\descriptionlabel`   (no arguments)

> Additionally, the `\descriptionlabel` macro is defined.

```
⟨class⟩ 1043 \NewDocumentCommand\descriptionlabel{m}{
       1044     \hspace{\labelsep}\normalfont\bfseries #1
       1045 }
```

Quotation environments   The quotation environments are also fairly simple — quote is just a list with a single item, and quotation is a quote with extra skips around it.

quote   (no arguments)

```
⟨class⟩ 1046 \NewDocumentEnvironment{quote}{}{
       1047     \begin{list}{}{
       1048         \dim_set_eq:NN\rightmargin\leftmargin
       1049     }
       1050     \item\itshape
       1051 }{
       1052     \end{list}
       1053 }
```

quotation   (no arguments)

```
⟨class⟩ 1054 \NewDocumentEnvironment{quotation}{}{
       1055     \bigskip
       1056     \begin{quote}
       1057 }{
       1058     \end{quote}
       1059     \bigskip
       1060 }
```

> There's a verse environment, too, but it's just quote.

verse   (no arguments)

```
⟨class⟩ 1061 \NewDocumentEnvironment{verse}{}{
       1062     \begin{quote}
       1063 }{
```

```
1064        \end{quote}
1065    }
```

Front- and backmatter   We only define one front/backmatter macro;
\appendix.

\appendix (no arguments)

```
⟨class⟩ 1066  \NewDocumentCommand\appendix{}{
        1067      \par
        1068      \ctr_gset:nn{section}{0}
        1069      \ctr_gset:nn{subsection}{0}
        1070      \cs_gset:Npn\thesection{\ctr_use_Alph:n{section}}}
        1071  }
```

Old font macros   The old font macros have been deprecated. Do not
use!

\rm   (no arguments)

```
⟨class⟩ 1072  \DeclareDocumentCommand\rm{}{\msg_error:nnn{skrapport}{old-font-deprecated}{\rm}{\te
```

\sf   (no arguments)

```
⟨class⟩ 1073  \DeclareDocumentCommand\sf{}{\msg_error:nnn{skrapport}{old-font-deprecated}{\sf}{\te
```

\tt   (no arguments)

```
⟨class⟩ 1074  \DeclareDocumentCommand\tt{}{\msg_error:nnn{skrapport}{old-font-deprecated}{\tt}{\te
```

\bf   (no arguments)

```
⟨class⟩ 1075  \DeclareDocumentCommand\bf{}{\msg_error:nnn{skrapport}{old-font-deprecated}{\bf}{\te
```

\it   (no arguments)

⟨class⟩ 1076 `\DeclareDocumentCommand\it{}{\msg_error:nnn{skrapport}{old-font-deprecated}{\it}{\te`

\sl (no arguments)

⟨class⟩ 1077 `\DeclareDocumentCommand\sl{}{\msg_error:nnn{skrapport}{old-font-deprecated}{\sl}{\te`

\sc (no arguments)

⟨class⟩ 1078 `\DeclareDocumentCommand\sc{}{\msg_error:nnn{skrapport}{old-font-deprecated}{\sc}{\te`

The emphasis macro

\emph (no arguments)

Redefining the \emph style to be bold when nested.

⟨class⟩ 1079 `\DeclareDocumentCommand\em{}{\msg_error:nnn{skrapport}{old-font-deprecated}{\em}{\em`

⟨class⟩ 1080 `\cs_new:Nn\__skrapport_emphstyle:{`
1081 `    \itshape`
1082 `    \dim_compare:nF{\fontdimen\c_one\font>\c_zero_dim}{\bfseries}`
1083 `}`

⟨class⟩ 1084 `\DeclareDocumentCommand\emph{m+}{`
1085 `    \ifmmode`
1086 `        \text{\__skrapport_emphstyle: #1}`
1087 `    \else`
1088 `        {\__skrapport_emphstyle: #1}`
1089 `    \fi`
1090 `}`

⟨class⟩ **The footnote rule** 1091 `\DeclareDocumentCommand\footnoterule{}{}`

⟨class⟩ 1092 `\DeclareDocumentCommand\@makefntext{m+}{`
1093 `    \parindent 1em\noindent`
1094 `    \hbox_to_wd:nn{1.8em}{\hss\@makefnmark}`
1095 `    #1`

```
1096 }
```

3.6.4 Floats

⟨class⟩ **Table- and box-related lengths** 1097 `\dim_gset:Nn\arraycolsep     {5pt}`
```
1098 \dim_gset:Nn\tabcolsep      {6pt}
1099 \dim_gset:Nn\arrayrulewidth{.4pt}
1100 \dim_gset:Nn\doublerulesep  {2pt}
1101 \dim_gset_eq:NN\tabbingsep\labelsep
1102 \skip_gset_eq:NN{\skip\@mpfootins}{\skip\footins}
1103 \dim_gset:Nn\fboxsep        {3pt}
1104 \dim_gset:Nn\fboxrule       {.4pt}
```

⟨class⟩ **Counters** 1105 `\ctr_new:n{figure}`
```
1106 \ctr_new:n{table}
```

⟨class⟩ 1107 `\cs_set:Npn\theequation{\ctr_use_arabic:n{equation}}`

⟨class⟩ 1108 `\cs_set:Npn\thefigure{\ctr_use_arabic:n{figure}}`

⟨class⟩ 1109 `\cs_set:Npn\thetable{\ctr_use_arabic:n{table}}`

Defaults The default placement, list extension and caption text of all floats.
⟨class⟩ 1110 `\cs_new:Npn  \fps@figure{tb}`
```
1111 \cs_new:Npn\ftype@figure{1}
1112 \cs_new:Npn  \ext@figure{lof}
1113 \cs_new:Npn \fnum@figure{\figurename~\thefigure}
1114 \cs_new:Npn  \fps@table {tb}
1115 \cs_new:Npn\ftype@table {2}
1116 \cs_new:Npn  \ext@table {lot}
1117 \cs_new:Npn \fnum@table {\tablename~\thetable}
```

`__skrapport_xfloat:nn` (no arguments)

This is a helper macro basically replacing the `\@float` macro used by LaTeX 2$_\varepsilon$.

⟨class⟩ 1118 `\cs_new:Npn\__skrapport_xfloat:nn#1#2{\@xfloat{#1}[#2]}`
1119 `\cs_generate_variant:Nn\__skrapport_xfloat:nn{nx}`

`figure` (no arguments)

⟨class⟩ 1120 `\DeclareDocumentEnvironment{figure}{o}{`
1121 `    \__skrapport_xfloat:nx{figure}`
1122 `        {\IfNoValueTF{#1}{\fps@figure}{#1}}`
1123 `}{`
1124 `    \end@float`
1125 `}`
1126 `\DeclareDocumentEnvironment{figure*}{o}{`
1127 `    \__skrapport_xfloat:nx{figure}`
1128 `        {\IfNoValueTF{#1}{tp}{#1}}`
1129 `}{`
1130 `    \end@float`
1131 `}`

`table` (no arguments)

⟨class⟩ 1132 `\DeclareDocumentEnvironment{table}{o}{`
1133 `    \__skrapport_xfloat:nx{table}`
1134 `        {\IfNoValueTF{#1}{\fps@table}{#1}}`
1135 `}{`
1136 `    \end@float`
1137 `}`
1138 `\DeclareDocumentEnvironment{table*}{o}{`
1139 `    \__skrapport_xfloat:nx{table}`
1140 `        {\IfNoValueTF{#1}{tp}{#1}}`
1141 `}{`
1142 `    \end@float`
1143 `}`

Captions   Before we begin, we pass options to caption, in case the user is loading it or another package based upon it. This fixes an issue where the custom caption style was overwritten with the ugly default article caption style.

⟨class⟩ 1144 `\PassOptionsToPackage{font=small,labelfont+=bf,textfont+=it}{caption}`

⟨class⟩ 1145 `\cs_new_protected:Nn\__skrapport_caption_name_style:{\small\bfseries}`

⟨class⟩ 1146 `\cs_new_protected:Nn\__skrapport_caption_text_style:{\small\itshape}`

⟨class⟩ 1147 `\skip_new:N\abovecaptionskip`
       1148 `\skip_set:Nn\abovecaptionskip{10pt}`
       1149 `\skip_new:N\belowcaptionskip`
       1150 `\skip_set:Nn\belowcaptionskip{10pt}`

This should possibly be redefined already at the `\caption` level.

⟨class⟩ 1151 `\cs_new:Npn\@makecaption#1#2{`
       1152 `    \skip_vertical:N\abovecaptionskip`
       1153 `    \hbox_set:Nn\l_tmpa_box{`
       1154 `        \color@setgroup % !!!`
       1155 `        {\__skrapport_caption_name_style:#1:~}`
       1156 `        {\__skrapport_caption_name_style:#2}`
       1157 `        \color@endgroup % !!!`
       1158 `    }`
       1159 `    \dim_compare:nTF{\box_wd:N\l_tmpa_box>\hsize}{`
       1160 `        {\__skrapport_caption_name_style:#1:~}`
       1161 `        {\__skrapport_caption_name_style:#2}`
       1162 `        \par`
       1163 `    }{`
       1164 `        \global\@minipagefalse % !!!`
       1165 `        \hbox_to_wd:nn{\hsize}{`
       1166 `            \hfil`
       1167 `            \box_use_clear:N\l_tmpa_box`
       1168 `            \hfil`
       1169 `        }`
       1170 `    }`
       1171 `    \skip_vertical:N\belowcaptionskip`

```
1172 }
```

3.6.5 Table of contents

⟨class⟩ 1173 `\cs_new:Npn\@pnumwidth{1.55em}`
1174 `\cs_new:Npn\@tocrmarg{2em}`
1175 `\cs_new:Npn\@dotsep{1.7}`
1176 `\ctr_gset:nn{tocdepth}{3}`

`\tableofcontents`(no arguments)

⟨class⟩ 1177 `\DeclareDocumentCommand\tableofcontents{}{`
1178 `    \section*{\contentsname}`
1179 `    \makeatletter`
1180 `    \@starttoc{toc}`
1181 `    \makeatother`
1182 `}`

The following macros conspire to replace `\@dottedtocline`.

⟨class⟩ 1183 `\cs_new:Npn\__skrapport_toc_line:nnnnnn#1#2#3#4#5#6{`
1184 `    \int_compare:nF{#2>\ctr_use:n{tocdepth}}{`
1185 `        \skip_vertical:n{0pt~plus~.2pt}`
1186 `        \group_begin:`
1187 `            \skip_set:Nn\leftskip{#3}`
1188 `            \skip_set_eq:NN\rightskip\@tocrmarg`
1189 `            \skip_set:Nn\parfillskip{-\rightskip}`
1190 `            \dim_set:Nn\parindent{#3}`
1191 `            \@afterindenttrue % !!!`
1192 `            \interlinepenalty\@M % !!!`
1193 `            \leavevmode`

This here is pretty dumb. We can't use a LaTeX3 temporary skip register (or skip the temporary), because #5 further down will contain a `\hbox` based on `\@tempdima`. The proper thing to do here would be to rewrite `\addcontentsline`, I guess. Bah.

⟨class⟩ 1194 `            \skip_set:Nn\@tempdima{#4} % !!! (dumb)`

```
1195                \skip_add:Nn\leftskip{\@tempdima}
1196                \null\nobreak
1197                \skip_horizontal:n{-\leftskip}
1198                {#5}\nobreak
1199                \str_if_eq:nnTF{#1}{}{
1200                    \hfill
1201                }{
1202                    \leaders\hbox:n{
1203                        \(\mkern\@dotsep mu\hbox{#1}\mkern\@dotsep mu\) % !!!
1204                    }
1205                }
1206                \hfill\nobreak
1207                \hbox_to_wd:nn{\@pnumwidth}{ % !!!
1208                    \hfil\normalfont\normalcolor #6
1209                }
1210                \par
1211            \group_end:
1212        }
1213 }
```

This is a variant of `\__skrapport_toc_line:nnnnnn` which implicitly sets empty space as its TOC line.

⟨class⟩ 1214 `\cs_new:Npn\__skrapport_toc_line:nnnnn#1#2#3#4#5{`
```
1215        \__skrapport_toc_line:nnnnnn{}{#1}{#2}{#3}{#4}{#5}
1216 }
```

⟨class⟩ 1217 `\DeclareDocumentCommand\l@section{mm}{`
```
1218        \group_begin:
1219            \skip_vertical:n{.75ex}
1220            \bfseries
1221            \__skrapport_toc_line:nnnnn{1}{0em}{1.3em}{#1}{#2}
1222        \group_end:
1223 }
```

⟨class⟩ 1224 `\DeclareDocumentCommand\l@subsection{mm}{`
```
1225        \group_begin:
```

```
1226          \skip_vertical:n{.35ex}
1227          \penalty\@secpenalty % !!!
1228          \__skrapport_toc_line:nnnnnn{.}{2}{1.3em}{2em}{#1}{#2}
1229      \group_end:
1230  }
```

⟨class⟩ 1231 `\DeclareDocumentCommand\l@subsubsection{mm}{`
```
1232      \skip_set:Nn\leftskip{3.3em}
1233      \dim_set_eq:NN\parindent\c_zero_dim
1234      \group_begin:
1235          \cs_set_eq:NN\numberline\use_none:n
1236          \small #1~[#2]
1237      \group_end:
1238  }
```

⟨class⟩ 1239 `\DeclareDocumentCommand\l@paragraph{mm}{`
```
1240      \int_compare:nF{4>\ctr_use:n{tocdepth}}{
1241          \msg_warning:nnnn{skrapport}{tocdepth-too-deep}
1242              {4}{\l@paragraph}
1243      }
1244  }
```

⟨class⟩ 1245 `\DeclareDocumentCommand\l@subparagraph{mm}{`
```
1246      \int_compare:nF{5>\ctr_use:n{tocdepth}}{
1247          \msg_warning:nnnn{skrapport}{tocdepth-too-deep}
1248              {5}{\l@subparagraph}
1249      }
1250  }
```

Fix for *e.g.* tocloft package.

⟨class⟩ 1251 `\cs_set:Npn\l@figure{}`
```
1252  \cs_set:Npn\l@table{}
```

3.6.6 Basic bibliography support

⟨class⟩ 1253 `\dim_new:N\bibindent`

```
      1254 \dim_set:Nn\bibindent{2em}
```

thebibliography   (no arguments)

```
⟨class⟩ 1255 \DeclareDocumentEnvironment{thebibliography}{m}{
      1256     \section*{\refname}
      1257     \list{\@biblabel{\ctr_use_arabic:n{enumiv}}}{
      1258         \dim_set_to_wd:Nn\labelwidth{\@biblabel{#1}}
      1259         \dim_set_eq:NN\leftmargin\labelwidth
      1260         \dim_add:Nn\leftmargin{\labelsep}
      1261         \usecounter{enumiv} % !!!
      1262         \cs_set:Nn\p@enumiv{}
      1263         \RenewDocumentCommand\theenumiv{}{\ctr_use_arabic:n{enumiv}}
      1264     }
      1265     \sloppy
      1266     \int_set:Nn\clubpenalty{4000}
      1267     \int_set_eq:NN\@clubpenalty\clubpenalty
      1268     \int_set:Nn\widowpenalty{4000}
      1269 }{
      1270     \cs_set:Nn\@noitemerr{}
      1271     \endlist
      1272 }
```

```
⟨class⟩ 1273 \DeclareDocumentCommand\newblock{}{
      1274     \skip_horizontal:n{.11em~plus~.33em~minus~.07em}
      1275 }
```

theindex   (no arguments)

```
⟨class⟩ 1276 \DeclareDocumentEnvironment{theindex}{}{
      1277     \begin{multicols}{2}[\section*{\indexname}]
      1278     \thispagestyle{plain}
      1279     \dim_zero:N\parindent
      1280     \skip_set:N\parskip{\c_zero_skip~plus~.3pt}
      1281     \dim_zero:N\columnseprule
      1282     \dim_set:Nn\columnsep{35pt}
      1283     \cs_set_eq:NN\item\@idxitem
      1284 }{
```

```
1285        \end{multicols}
1286 }
```

⟨class⟩ 1287 `\DeclareDocumentCommand\@idxitem{}{`
```
1288        \par
1289        \dim_set:Nn\hangindent{40pt}
1290 }
```

\subitem   (no arguments)

⟨class⟩ 1291 `\DeclareDocumentCommand\subitem{}{`
```
1292        \@idxitem
1293        \hspace*{20pt}
1294 }
```

\subsubitem   (no arguments)

⟨class⟩ 1295 `\DeclareDocumentCommand\subsubitem{}{`
```
1296        \@idxitem
1297        \hspace*{30pt}
1298 }
```

⟨class⟩ 1299 `\DeclareDocumentCommand\indexspace{}{`
```
1300        \par
1301        \skip_vertical:n{10pt~plus~5pt~minus~3pt}
1302 }
```

3.6.7 Miscellaneous

A macro \comment (alias \com/\note) is defined to let the user add comments and notes to the document.

__skrapport_comment:n   (no arguments)

⟨class⟩ 1303 `\cs_new:Npn\__skrapport_comment:n#1{`
```
1304        {\textbf{\__skrapport_Comment_word: :}~#1}
1305 }
```

\comment(no arguments)

```
⟨class⟩ 1306  \DeclareDocumentCommand\comment{sm}{
        1307      \IfBooleanTF{#1}
        1308          {\colorbox{red!50}{\__skrapport_comment:n{#2}}}
        1309          {\marginpar{\__skrapport_comment:n{#2}}}
        1310  }
```

\com(no arguments)

\note(no arguments)

```
⟨class⟩ 1311  \ProvideDocumentCommand\com{sm}
        1312      {\IfBooleanTF{#1}{\comment*{#2}}{\comment{#2}}}
        1313  \ProvideDocumentCommand\note{sm}
        1314      {\IfBooleanTF{#1}{\comment*{#2}}{\comment{#2}}}
```

3.6.8 Color theme support

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.

```
⟨class⟩ 1315  \bool_if:NT\g__skrapport_color_bool{
        1316      \apptocmd{\bfseries}
        1317          {\color{skrapport@boldcolor}}{}
        1318          {\msg_warning:nnn{skrapport}{color-patch-failed}{\bfseries}}
        1319      \apptocmd{\itshape}
        1320          {\color{skrapport@italiccolor}}{}
        1321          {\msg_warning:nnn{skrapport}{color-patch-failed}{\itshape}}
        1322      \apptocmd{\__skrapport_title_style:}
        1323          {\color{skrapport@titlecolor}}{}
        1324          {\msg_warning:nnn{skrapport}{color-patch-failed}{\__skrapport_title_style:}
        1325      \apptocmd{\__skrapport_smallprint_style:}
```

```
1326          {\color{skrapport@smallprintcolor}}{}
1327          {\msg_warning:nnn{skrapport}{color-patch-failed}{\__skrapport_smallprint_sty
1328      \AtBeginDocument{
1329          \cs_set_protected:Npn\__skrapport_abstract_style:{
1330              \color{skrapport@titlecolor}
1331          }
1332      }
1333      \apptocmd{\quote}
1334          {\color{skrapport@quotecolor}}{}
1335          {\msg_warning:nnn{skrapport}{color-patch-failed}{\quote}}
1336      \apptocmd{\__skrapport_caption_name_style:}
1337          {\color{skrapport@captioncolor}}{}
1338          {\msg_warning:nnn{skrapport}{color-patch-failed}{\__skrapport_caption_name_s
1339      \apptocmd{\__skrapport_emphstyle:}
1340          {\color{skrapport@emphcolor}}{}
1341          {\msg_warning:nnn{skrapport}{color-patch-failed}{\__skrapport_emphstyle:}}
```

⟨class⟩
```
1342      \AtBeginDocument{\@ifpackageloaded{hyperref}{%
1343          \hypersetup{%
1344              citebordercolor=skrapport@citecolor,citecolor=skrapport@citecolor,%
1345              filebordercolor=skrapport@filecolor,filecolor=skrapport@filecolor,%
1346              linkbordercolor=skrapport@linkcolor,linkcolor=skrapport@linkcolor,%
1347              menubordercolor=skrapport@menucolor,menucolor=skrapport@menucolor,%
1348              urlbordercolor=skrapport@urlcolor,urlcolor=skrapport@urlcolor,%
1349              runbordercolor=skrapport@runcolor,runcolor=skrapport@runcolor%
1350          }
1351      }{}}
1352      \AtBeginDocument{\color{skrapport@defaultcolor}}
```

\colortheme(no arguments)

       The \colortheme macro allows the end-user to load color themes (described later) to customize the colors of the document when the class is loaded with the color option.

⟨class⟩
```
1353      \DeclareDocumentCommand\colortheme{m}{
1354          \usepackage{skrapport-colortheme-#1}
```

```
1355        }
⟨class⟩ 1356        \colortheme{default}
       1357  }
```

3.7 Final class setup

We end the document class by setting a few lengths along with the page style and page numbering. Also, activate \raggedbottom and \onexolumn (since we always do all the two-column stuff ourselves anyway).

```
⟨class⟩ 1358 \dim_set:Nn\columnsep{10pt}
       1359 \dim_zero:N\columnseprule
       1360 \pagestyle{plain}
       1361 \pagenumbering{arabic}
       1362 \raggedbottom
       1363 \onecolumn
       1364 \endinput
```

3.8 Color themes

As described earlier, the user can load color themes to customize the appearance of the document if the class was loaded with the color option. Four themes are available by default.

3.8.1 Default color theme

Default (theme)

```
⟨theme-default⟩   1 \RequirePackage{expl3}
                 2 \ProvidesExplPackage{skrapport-colortheme-default}
                 3    {2012/06/07}{1.0}{skrapport color theme default}
                 4 \definecolor{skrapport@citecolor}{named}{green}
                 5 \definecolor{skrapport@filecolor}{named}{teal}
                 6 \definecolor{skrapport@linkcolor}{named}{red}
                 7 \definecolor{skrapport@menucolor}{named}{red}
```

```
 8 \definecolor{skrapport@urlcolor}{named}{cyan}
 9 \definecolor{skrapport@runcolor}{named}{teal}
10 \definecolor{skrapport@boldcolor}{named}{black}
11 \definecolor{skrapport@titlecolor}{named}{black}
12 \definecolor{skrapport@italiccolor}{named}{black}
13 \definecolor{skrapport@smallprintcolor}{named}{black}
14 \definecolor{skrapport@quotecolor}{named}{black}
15 \definecolor{skrapport@captioncolor}{named}{black}
16 \definecolor{skrapport@emphcolor}{named}{black}
17 \definecolor{skrapport@defaultcolor}{named}{black}
18 \endinput
```

3.8.2 Unscathed color theme

Unscathed (theme)

⟨theme-unscathed⟩
```
 1 \RequirePackage{expl3}
 2 \ProvidesExplPackage{skrapport-colortheme-unscathed}
 3    {2012/06/07}{1.0}{skrapport color theme unscathed}
 4 \definecolor{skrapport@citecolor}{named}{skrapport@defaultcolor}
 5 \definecolor{skrapport@filecolor}{named}{skrapport@defaultcolor}
 6 \definecolor{skrapport@menucolor}{named}{skrapport@defaultcolor}
 7 \definecolor{skrapport@runcolor}{named}{skrapport@defaultcolor}
 8 \definecolor{skrapport@emphcolor}{HTML}{463335}
 9 \definecolor{skrapport@linkcolor}{HTML}{CF5D3B}
10 \definecolor{skrapport@urlcolor}{named}{skrapport@linkcolor}
11 \definecolor{skrapport@titlecolor}{HTML}{B34430}
12 \definecolor{skrapport@captioncolor}{named}{skrapport@titlecolor}
13 \definecolor{skrapport@quotecolor}{HTML}{70524A}
14 \definecolor{skrapport@smallprintcolor}{named}{skrapport@quotecolor}
15 \endinput
```

3.8.3 Cruelwater color theme

Cruelwater (theme)

```
 1  \RequirePackage{expl3}
 2  \ProvidesExplPackage{skrapport-colortheme-cruelwater}
 3      {2012/06/07}{1.0}{skrapport color theme cruelwater}
 4  \definecolor{skrapport@citecolor}{named}{black}
 5  \definecolor{skrapport@filecolor}{named}{black}
 6  \definecolor{skrapport@linkcolor}{named}{black}
 7  \definecolor{skrapport@menucolor}{named}{black}
 8  \definecolor{skrapport@urlcolor}{named}{black}
 9  \definecolor{skrapport@runcolor}{named}{black}
10  \definecolor{skrapport@boldcolor}{HTML}{030C22}
11  \definecolor{skrapport@titlecolor}{HTML}{20293F}
12  \definecolor{skrapport@italiccolor}{named}{black}
13  \definecolor{skrapport@smallprintcolor}{HTML}{A9B0B3}
14  \definecolor{skrapport@quotecolor}{HTML}{404749}
15  \definecolor{skrapport@captioncolor}{HTML}{030C22}
16  \definecolor{skrapport@emphcolor}{HTML}{20293F}
17  \definecolor{skrapport@defaultcolor}{named}{black}
18  \endinput
```

3.8.4 Violet color theme

Violet   (theme)

⟨theme-violet⟩

```
 1  \RequirePackage{expl3}
 2  \ProvidesExplPackage{skrapport-colortheme-violet}
 3      {2012/06/07}{1.0}{skrapport color theme violet}
 4  \definecolor{skrapport@citecolor}{HTML}{932444}
 5  \definecolor{skrapport@filecolor}{HTML}{932444}
 6  \definecolor{skrapport@linkcolor}{HTML}{932444}
 7  \definecolor{skrapport@menucolor}{HTML}{932444}
 8  \definecolor{skrapport@urlcolor}{HTML}{932444}
 9  \definecolor{skrapport@runcolor}{HTML}{932444}
10  \definecolor{skrapport@boldcolor}{HTML}{311A2A}
11  \definecolor{skrapport@titlecolor}{HTML}{311A2A}
12  \definecolor{skrapport@italiccolor}{named}{black}
13  \definecolor{skrapport@smallprintcolor}{HTML}{D6CBCF}
```

```
 14  \definecolor{skrapport@quotecolor}{HTML}{463335}
 15  \definecolor{skrapport@captioncolor}{HTML}{311A2A}
 16  \definecolor{skrapport@emphcolor}{HTML}{98758D}
 17  \definecolor{skrapport@defaultcolor}{named}{black}
 18  \endinput
```

3.8.5 skdoc color theme

skdoc (theme)

⟨theme-skdoc⟩
```
  1  \RequirePackage{expl3}
  2  \ProvidesExplPackage{skrapport-colortheme-skdoc}
  3      {2013/04/10}{1.0}{skrapport color theme skdoc}
  4  \definecolor{skrapport@citecolor}{RGB}{140,35,24}
  5  \definecolor{skrapport@filecolor}{RGB}{73,10,61}
  6  \definecolor{skrapport@linkcolor}{RGB}{140,35,24}
  7  \definecolor{skrapport@menucolor}{RGB}{140,35,24}
  8  \definecolor{skrapport@urlcolor}{RGB}{73,10,61}
  9  \definecolor{skrapport@runcolor}{RGB}{73,10,61}
 10  \definecolor{skrapport@boldcolor}{RGB}{73,10,61}
 11  \definecolor{skrapport@titlecolor}{RGB}{11,72,107}
 12  \definecolor{skrapport@italiccolor}{named}{black}
 13  \definecolor{skrapport@smallprintcolor}{RGB}{11,72,107}
 14  \definecolor{skrapport@quotecolor}{RGB}{140,35,24}
 15  \definecolor{skrapport@captioncolor}{RGB}{11,72,107}
 16  \definecolor{skrapport@emphcolor}{RGB}{73,10,61}
 17  \definecolor{skrapport@defaultcolor}{named}{black}
 18  \endinput
```

4 Point sizes

The point size options are pretty much LaTeX3 translations of the standard article class option files. There's a lot of duplicate code here which may be worth to consolidate a bit.

4.0.6 Common macros

We first set up a package providing replacements for LaTeX 2ε macros, common to all the point size files.

⟨size-common⟩ 1 `\RequirePackage{expl3}`
2 `\ProvidesExplPackage{skrapport-size-common}`
3   `{2013/04/29}{1.0}{skrapport point size option common macros}`

`...ort_set_font_size:nn`   #1: Font size
#2: Baseline skip?

⟨size-common⟩ 4 `\cs_new:Npn\__skrapport_set_font_size:nn#1#2{`
5   `\fontsize{#1}{#2} % !!!`
6   `\selectfont`
7 `}`

⟨size-common⟩ 8 `\endinput`

4.0.7 10 pt

⟨size-10⟩ 1 `\RequirePackage{expl3}`
2 `\ProvidesExplFile{skrapport-size10pt.clo}`
3   `{2013/04/29}{1.0}{skrapport point size option 10pt}`
4 `\RequirePackage{skrapport-size-common}`

`\normalsize`(no arguments)

⟨size-10⟩ 5 `\RenewDocumentCommand\normalsize{}{`
6   `\__skrapport_set_font_size:nn{10}{12}`
7   `\skip_gset:Nn   \abovedisplayskip      {10pt~plus~2pt~minus~5pt}`
8   `\skip_gset:Nn   \abovedisplayshortskip {0pt ~plus~3pt}`
9   `\skip_gset:Nn   \belowdisplayshortskip {6pt ~plus~3pt~minus~3pt}`
10   `\skip_gset_eq:NN\belowdisplayskip      \abovedisplayskip`
11   `\cs_gset_eq:NN\@listi\@listI`
12 `}`

⟨size-10⟩ 13 `\normalsize`

\small(no arguments)

```
⟨size-10⟩  14  \NewDocumentCommand\small{}{
           15      \__skrapport_set_font_size:nn{9}{11}
           16      \skip_gset:Nn   \abovedisplayskip      {8.5pt~plus~3pt~minus~4pt}
           17      \skip_gset:Nn   \abovedisplayshortskip {0pt  ~plus~2pt}
           18      \skip_gset:Nn   \belowdisplayshortskip {4pt  ~plus~2pt~minus~2pt}
           19      \skip_gset_eq:NN\belowdisplayskip      \abovedisplayskip
           20      \cs_gset:Npn\@listi{
           21          \dim_gset_eq:NN\leftmargin\leftmargini
           22          \skip_gset:Nn\topsep{4pt~plus~2pt~minus~2pt}
           23          \skip_gset:Nn\parsep{2pt~plus~1pt~minus~1pt}
           24          \skip_gset_eq:NN\itemsep\parsep
           25      }
           26  }
```

\footnotesize(no arguments)

```
⟨size-10⟩  27  \NewDocumentCommand\footnotesize{}{
           28      \__skrapport_set_font_size:nn{8}{9.5}
           29      \skip_gset:Nn   \abovedisplayskip      {6pt~plus~2pt~minus~4pt}
           30      \skip_gset:Nn   \abovedisplayshortskip {0pt~plus~1pt}
           31      \skip_gset:Nn   \belowdisplayshortskip {3pt~plus~1pt~minus~2pt}
           32      \skip_gset_eq:NN\belowdisplayskip      \abovedisplayskip
           33      \cs_gset:Npn\@listi{
           34          \dim_gset_eq:NN\leftmargin\leftmargini
           35          \skip_gset:Nn\topsep{3pt~plus~1pt~minus~1pt}
           36          \skip_gset:Nn\parsep{2pt~plus~1pt~minus~1pt}
           37          \skip_gset_eq:NN\itemsep\parsep
           38      }
           39  }
```

\scriptsize(no arguments)

```
⟨size-10⟩  40  \NewDocumentCommand\scriptsize{}{
           41      \__skrapport_set_font_size:nn{7}{8}
```

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```
  42 }
```

\tiny(no arguments)

```
⟨size-10⟩  43 \NewDocumentCommand\tiny{}{
           44     \__skrapport_set_font_size:nn{5}{6}
           45 }
```

\large(no arguments)

```
⟨size-10⟩  46 \NewDocumentCommand\large{}{
           47     \__skrapport_set_font_size:nn{12}{14}
           48 }
```

\Large(no arguments)

```
⟨size-10⟩  49 \NewDocumentCommand\Large{}{
           50     \__skrapport_set_font_size:nn{14}{18}
           51 }
```

\LARGE(no arguments)

```
⟨size-10⟩  52 \NewDocumentCommand\LARGE{}{
           53     \__skrapport_set_font_size:nn{17}{22}
           54 }
```

\huge(no arguments)

```
⟨size-10⟩  55 \NewDocumentCommand\huge{}{
           56     \__skrapport_set_font_size:nn{20}{25}
           57 }
```

\Huge(no arguments)

```
⟨size-10⟩  58 \NewDocumentCommand\Huge{}{
           59     \__skrapport_set_font_size:nn{25}{30}
           60 }
```

61 `\dim_set:Nn\parindent {15pt}`
 62 `\skip_set:Nn\smallskipamount{ 3pt~plus~1pt~minus~1pt}`
 63 `\skip_set:Nn\medskipamount  { 6pt~plus~2pt~minus~2pt}`
 64 `\skip_set:Nn\bigskipamount  {12pt~plus~4pt~minus~4pt}`
 65 `\dim_set:Nn\headheight{12pt}`
 66 `\dim_set:Nn\headsep   {25pt}`
 67 `\dim_set:Nn\topskip   {10pt}`
 68 `\dim_set:Nn\footskip  {30pt}`
 69 `\dim_set:Nn\maxdepth  { 5pt}`

These (*i.e.* text width and height) are hopefully overwritten by typearea later, so we don't bother much with them.

70 `\dim_set:Nn\textwidth  {\paperwidth-2cm}`
 71 `\dim_set:Nn\textheight{\paperheight-2cm}`

72 `\dim_set:Nn\oddsidemargin  {.2cm}`
 73 `\dim_set:Nn\evensidemargin  {1cm}`
 74 `\dim_set:Nn\marginparsep   {11pt}`
 75 `\dim_set:Nn\marginparpush   {5pt}`
 76 `\dim_set:Nn\marginparwidth {.8cm-\marginparsep}`
 77 `\dim_set:Nn\topmargin{\paperheight-1cm`
 78 `                      -\headheight-\headsep`
 79 `                      -\textheight-\footskip`
 80 `                      -.5\topmargin}`
 81 `\dim_set:Nn\footnotesep{6.65pt}`
 82 `\skip_set:Nn{\skip\footins} { 9pt~plus~4pt~minus~2pt}`
 83 `\skip_set:Nn\floatsep       {12pt~plus~2pt~minus~2pt}`
 84 `\skip_set:Nn\textfloatsep   {20pt~plus~2pt~minus~4pt}`
 85 `\skip_set:Nn\intextsep      {12pt~plus~2pt~minus~2pt}`
 86 `\skip_set:Nn\dblfloatsep    {12pt~plus~2pt~minus~2pt}`
 87 `\skip_set:Nn\dbltextfloatsep{20pt~plus~2pt~minus~4pt}`

These six have been changed slightly compared to `size10.clo`.

88 `\skip_set:Nn\@fptop{ 5pt}`
 89 `\skip_set:Nn\@fpsep{10pt~plus~2fil}`
 90 `\skip_set:Nn\@fpbot{ 5pt}`

```
  91 \skip_set:Nn\@dblfptop{ 5pt}
  92 \skip_set:Nn\@dblfpsep{10pt~plus~2fil}
  93 \skip_set:Nn\@dblfpbot{ 5pt}
```
⟨size-10⟩
```
  94 \skip_set:Nn\partopsep{2pt~plus~1pt~minus~1pt}
  95 \cs_set:Npn\@listi{
  96     \dim_set_eq:NN\leftmargin\leftmargini
  97     \skip_set:Nn\parsep {4pt~plus~2pt~minus~1pt}
  98     \skip_set:Nn\topsep {8pt~plus~2pt~minus~4pt}
  99     \skip_set:Nn\itemsep{4pt~plus~2pt~minus~1pt}
 100 }
 101 \cs_set_eq:NN\@listI\@listi
 102 \dim_gset_eq:NN\leftmargin\leftmargini
 103 \skip_gset:Nn\parsep {4pt~plus~2pt~minus~1pt}
 104 \skip_gset:Nn\topsep {8pt~plus~2pt~minus~4pt}
 105 \skip_gset:Nn\itemsep{4pt~plus~2pt~minus~1pt}
 106 \cs_set:Npn\@listii{
 107     \dim_set_eq:NN\leftmargin\leftmarginii
 108     \dim_set:Nn\labelwidth{\leftmarginii-\labelsep}
 109     \skip_set:Nn\parsep {2pt~plus~1pt~minus~1pt}
 110     \skip_set:Nn\topsep {4pt~plus~2pt~minus~1pt}
 111     \skip_set_eq:NN\itemsep\parsep
 112 }
 113 \cs_set:Npn\@listiii{
 114     \dim_set_eq:NN\leftmargin\leftmarginiii
 115     \dim_set:Nn\labelwidth{\leftmarginiii-\labelsep}
 116     \skip_set_eq:NN\parsep\c_zero_skip
 117     \skip_set:Nn\topsep   {2pt~plus~1pt~minus~1pt}
 118     \skip_set:Nn\partopsep{1pt~plus~0pt~minus~1pt}
 119     \skip_set_eq:NN\itemsep\topsep
 120 }
 121 \cs_set:Npn\@listiv{
 122     \dim_set_eq:NN\leftmargin\leftmarginiv
 123     \dim_set:Nn\labelwidth{\leftmarginiv-\labelsep}
 124 }
 125 \cs_set:Npn\@listv{
```

```
126      \dim_set_eq:NN\leftmargin\leftmarginv
127      \dim_set:Nn\labelwidth{\leftmarginv-\labelsep}
128  }
129  \cs_set:Npn\@listvi{
130      \dim_set_eq:NN\leftmargin\leftmarginvi
131      \dim_set:Nn\labelwidth{\leftmarginvi-\labelsep}
132  }
133  \endinput
```

4.0.8 11 pt

⟨size-11⟩ 1 `\RequirePackage{expl3}`
      2 `\ProvidesExplFile{skrapport-size11pt.clo}`
      3 `    {2013/04/29}{1.0}{skrapport point size option 11pt}`
      4 `\RequirePackage{skrapport-size-common}`

`\normalsize`(no arguments)

⟨size-11⟩ 5 `\RenewDocumentCommand\normalsize{}{`
      6 `    \__skrapport_set_font_size:nn{11}{13.2}`
      7 `    \skip_gset:Nn   \abovedisplayskip      {11pt ~plus~3pt  ~minus~6pt}`
      8 `    \skip_gset:Nn   \abovedisplayshortskip {0pt  ~plus~3pt}`
      9 `    \skip_gset:Nn   \belowdisplayshortskip {6.5pt~plus~3.5pt~minus~3pt}`
     10 `    \skip_gset_eq:NN\belowdisplayskip      \abovedisplayskip`
     11 `    \cs_gset_eq:NN\@listi\@listI`
     12 `}`

⟨size-11⟩ 13 `\normalsize`

`\small`(no arguments)

⟨size-11⟩ 14 `\NewDocumentCommand\small{}{`
     15 `    \__skrapport_set_font_size:nn{10}{12}`
     16 `    \skip_gset:Nn   \abovedisplayskip      {10pt~plus~2pt~minus~5pt}`
     17 `    \skip_gset:Nn   \abovedisplayshortskip {0pt ~plus~2pt}`

```
18        \skip_gset:Nn   \belowdisplayshortskip {6pt ~plus~3pt~minus~3pt}
19        \skip_gset_eq:NN\belowdisplayskip       \abovedisplayskip
20        \cs_gset:Npn\@listi{
21            \dim_gset_eq:NN\leftmargin\leftmargini
22            \skip_gset:Nn\topsep{6pt~plus~2pt~minus~2pt}
23            \skip_gset:Nn\parsep{3pt~plus~2pt~minus~1pt}
24            \skip_gset_eq:NN\itemsep\parsep
25        }
26    }
```

\footnotesize(no arguments)

```
⟨size-11⟩  27  \NewDocumentCommand\footnotesize{}{
28        \__skrapport_set_font_size:nn{9}{11}
29        \skip_gset:Nn   \abovedisplayskip       {8pt~plus~2pt~minus~4pt}
30        \skip_gset:Nn   \abovedisplayshortskip {0pt~plus~1pt}
31        \skip_gset:Nn   \belowdisplayshortskip {4pt~plus~2pt~minus~2pt}
32        \skip_gset_eq:NN\belowdisplayskip       \abovedisplayskip
33        \cs_gset:Npn\@listi{
34            \dim_gset_eq:NN\leftmargin\leftmargini
35            \skip_gset:Nn\topsep{4pt~plus~2pt~minus~2pt}
36            \skip_gset:Nn\parsep{2pt~plus~1pt~minus~1pt}
37            \skip_gset_eq:NN\itemsep\parsep
38        }
39    }
```

\scriptsize(no arguments)

```
⟨size-11⟩  40  \NewDocumentCommand\scriptsize{}{
41        \__skrapport_set_font_size:nn{8}{9.5}
42    }
```

\tiny(no arguments)

```
⟨size-11⟩  43  \NewDocumentCommand\tiny{}{
44        \__skrapport_set_font_size:nn{6}{7}
```

```
45 }
```

\large(no arguments)

⟨size-11⟩ 46 \NewDocumentCommand\large{}{
        47   __skrapport_set_font_size:nn{12}{14}
        48 }

\Large(no arguments)

⟨size-11⟩ 49 \NewDocumentCommand\Large{}{
        50   __skrapport_set_font_size:nn{14}{18}
        51 }

\LARGE(no arguments)

⟨size-11⟩ 52 \NewDocumentCommand\LARGE{}{
        53   __skrapport_set_font_size:nn{17}{22}
        54 }

\huge(no arguments)

⟨size-11⟩ 55 \NewDocumentCommand\huge{}{
        56   __skrapport_set_font_size:nn{20}{25}
        57 }

\Huge(no arguments)

⟨size-11⟩ 58 \NewDocumentCommand\Huge{}{
        59   __skrapport_set_font_size:nn{25}{30}
        60 }

⟨size-11⟩ 61 \dim_set:Nn\parindent {17pt}
        62 \skip_set:Nn\smallskipamount{ 3pt~plus~1pt~minus~1pt}
        63 \skip_set:Nn\medskipamount { 6pt~plus~2pt~minus~2pt}
        64 \skip_set:Nn\bigskipamount {12pt~plus~4pt~minus~4pt}
        65 \dim_set:Nn\headheight{12pt}

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```
66 \dim_set:Nn\headsep    {25pt}
67 \dim_set:Nn\topskip    {10pt}
68 \dim_set:Nn\footskip   {30pt}
69 \dim_set:Nn\maxdepth   { 5pt}
```

These (*i.e.* text width and height) are hopefully overwritten by typearea later, so we don't bother much with them.

⟨size-11⟩
```
70 \dim_set:Nn\textwidth  {\paperwidth-2cm}
71 \dim_set:Nn\textheight{\paperheight-2cm}
```

⟨size-11⟩
```
72 \dim_set:Nn\oddsidemargin  {.2cm}
73 \dim_set:Nn\evensidemargin  {1cm}
74 \dim_set:Nn\marginparsep    {11pt}
75 \dim_set:Nn\marginparpush   {5pt}
76 \dim_set:Nn\marginparwidth {.8cm-\marginparsep}
77 \dim_set:Nn\topmargin{\paperheight-1cm
78                        -\headheight-\headsep
79                        -\textheight-\footskip
80                        -.5\topmargin}
81 \dim_set:Nn\footnotesep{7.7pt}
82 \skip_set:Nn{\skip\footins} {10pt~plus~4pt~minus~2pt}
83 \skip_set:Nn\floatsep       {12pt~plus~2pt~minus~2pt}
84 \skip_set:Nn\textfloatsep   {20pt~plus~2pt~minus~4pt}
85 \skip_set:Nn\intextsep      {12pt~plus~2pt~minus~2pt}
86 \skip_set:Nn\dblfloatsep    {12pt~plus~2pt~minus~2pt}
87 \skip_set:Nn\dbltextfloatsep{20pt~plus~2pt~minus~4pt}
```

These six have been changed slightly compared to size11.clo.

⟨size-11⟩
```
88 \skip_set:Nn\@fptop{5.5pt}
89 \skip_set:Nn\@fpsep{ 11pt~plus~2fil}
90 \skip_set:Nn\@fpbot{5.5pt}
91 \skip_set:Nn\@dblfptop{5.5pt}
92 \skip_set:Nn\@dblfpsep{ 11pt~plus~2fil}
93 \skip_set:Nn\@dblfpbot{5.5pt}
```

⟨size-11⟩
```
94 \skip_set:Nn\partopsep{3pt~plus~1pt~minus~1pt}
95 \cs_set:Npn\@listi{
```

```
96      \dim_set_eq:NN\leftmargin\leftmargini
97      \skip_set:Nn\parsep {4.5pt~plus~2pt~minus~1pt}
98      \skip_set:Nn\topsep {  9pt~plus~3pt~minus~5pt}
99      \skip_set:Nn\itemsep{4.5pt~plus~2pt~minus~1pt}
100 }
101 \cs_set_eq:NN\@listI\@listi
102 \dim_gset_eq:NN\leftmargin\leftmargini
103 \skip_gset:Nn\parsep {4.5pt~plus~2pt~minus~1pt}
104 \skip_gset:Nn\topsep {  9pt~plus~3pt~minus~5pt}
105 \skip_gset:Nn\itemsep{4.5pt~plus~2pt~minus~1pt}
106 \cs_set:Npn\@listii{
107      \dim_set_eq:NN\leftmargin\leftmarginii
108      \dim_set:Nn\labelwidth{\leftmarginii-\labelsep}
109      \skip_set:Nn\parsep {  2pt~plus~1pt~minus~1pt}
110      \skip_set:Nn\topsep {4.5pt~plus~2pt~minus~1pt}
111      \skip_set_eq:NN\itemsep\parsep
112 }
113 \cs_set:Npn\@listiii{
114      \dim_set_eq:NN\leftmargin\leftmarginiii
115      \dim_set:Nn\labelwidth{\leftmarginiii-\labelsep}
116      \skip_set_eq:NN\parsep\c_zero_skip
117      \skip_set:Nn\topsep   {2pt~plus~1pt~minus~1pt}
118      \skip_set:Nn\partopsep{1pt~plus~0pt~minus~1pt}
119      \skip_set_eq:NN\itemsep\topsep
120 }
121 \cs_set:Npn\@listiv{
122      \dim_set_eq:NN\leftmargin\leftmarginiv
123      \dim_set:Nn\labelwidth{\leftmarginiv-\labelsep}
124 }
125 \cs_set:Npn\@listv{
126      \dim_set_eq:NN\leftmargin\leftmarginv
127      \dim_set:Nn\labelwidth{\leftmarginv-\labelsep}
128 }
129 \cs_set:Npn\@listvi{
130      \dim_set_eq:NN\leftmargin\leftmarginvi
131      \dim_set:Nn\labelwidth{\leftmarginvi-\labelsep}
```

```
132  }
133  \endinput
```

4.0.9 12 pt

```
⟨size-12⟩  1  \RequirePackage{expl3}
           2  \ProvidesExplFile{skrapport-size12pt.clo}
           3      {2013/04/29}{1.0}{skrapport point size option 12pt}
           4  \RequirePackage{skrapport-size-common}
```

\normalsize(no arguments)

```
⟨size-12⟩  5  \RenewDocumentCommand\normalsize{}{
           6      \__skrapport_set_font_size:nn{12}{14.5}
           7      \skip_gset:Nn   \abovedisplayskip      {12pt ~plus~3pt  ~minus~7pt}
           8      \skip_gset:Nn   \abovedisplayshortskip {0pt  ~plus~3pt}
           9      \skip_gset:Nn   \belowdisplayshortskip {6.5pt~plus~3.5pt~minus~3pt}
          10      \skip_gset_eq:NN\belowdisplayskip      \abovedisplayskip
          11      \cs_gset_eq:NN\@listi\@listI
          12  }
```

```
⟨size-12⟩ 13  \normalsize
```

\small(no arguments)

```
⟨size-12⟩ 14  \NewDocumentCommand\small{}{
          15      \__skrapport_set_font_size:nn{11}{13.6}
          16      \skip_gset:Nn   \abovedisplayskip      {11pt ~plus~3pt  ~minus~6pt}
          17      \skip_gset:Nn   \abovedisplayshortskip {0pt  ~plus~3pt}
          18      \skip_gset:Nn   \belowdisplayshortskip {6.5pt~plus~3.5pt~minus~3pt}
          19      \skip_gset_eq:NN\belowdisplayskip      \abovedisplayskip
          20      \cs_gset:Npn\@listi{
          21          \dim_gset_eq:NN\leftmargin\leftmargini
          22          \skip_gset:Nn\topsep{  9pt~plus~3pt~minus~5pt}
          23          \skip_gset:Nn\parsep{4.5pt~plus~2pt~minus~1pt}
```

```
24        \skip_gset_eq:NN\itemsep\parsep
25      }
26  }
```

\footnotesize(no arguments)

⟨size-12⟩
```
27  \NewDocumentCommand\footnotesize{}{
28      \__skrapport_set_font_size:nn{10}{12}
29      \skip_gset:Nn   \abovedisplayskip      {10pt~plus~2pt~minus~5pt}
30      \skip_gset:Nn   \abovedisplayshortskip { 0pt~plus~3pt}
31      \skip_gset:Nn   \belowdisplayshortskip { 6pt~plus~3pt~minus~3pt}
32      \skip_gset_eq:NN\belowdisplayskip      \abovedisplayskip
33      \cs_gset:Npn\@listi{
34          \dim_gset_eq:NN\leftmargin\leftmargini
35          \skip_gset:Nn\topsep{6pt~plus~2pt~minus~2pt}
36          \skip_gset:Nn\parsep{3pt~plus~2pt~minus~1pt}
37          \skip_gset_eq:NN\itemsep\parsep
38      }
39  }
```

\scriptsize(no arguments)

⟨size-12⟩
```
40  \NewDocumentCommand\scriptsize{}{
41      \__skrapport_set_font_size:nn{8}{9.5}
42  }
```

\tiny(no arguments)

⟨size-12⟩
```
43  \NewDocumentCommand\tiny{}{
44      \__skrapport_set_font_size:nn{6}{7}
45  }
```

\large(no arguments)

⟨size-12⟩
```
46  \NewDocumentCommand\large{}{
47      \__skrapport_set_font_size:nn{14}{18}
```

```
                    48 }
```

\Large(no arguments)

```
⟨size-12⟩  49 \NewDocumentCommand\Large{}{
           50     \__skrapport_set_font_size:nn{17}{22}
           51 }
```

\LARGE(no arguments)

```
⟨size-12⟩  52 \NewDocumentCommand\LARGE{}{
           53     \__skrapport_set_font_size:nn{20}{25}
           54 }
```

\huge(no arguments)

```
⟨size-12⟩  55 \NewDocumentCommand\huge{}{
           56     \__skrapport_set_font_size:nn{25}{30}
           57 }
```

\Huge(no arguments)

This definition does not match size12.clo.

```
⟨size-12⟩  58 \NewDocumentCommand\Huge{}{
           59     \__skrapport_set_font_size:nn{30}{36}
           60 }
⟨size-12⟩  61 \dim_set:Nn\parindent{1.5em}
           62 \skip_set:Nn\smallskipamount{ 3pt~plus~1pt~minus~1pt}
           63 \skip_set:Nn\medskipamount  { 6pt~plus~2pt~minus~2pt}
           64 \skip_set:Nn\bigskipamount  {12pt~plus~4pt~minus~4pt}
           65 \dim_set:Nn\headheight{12pt}
           66 \dim_set:Nn\headsep    {25pt}
           67 \dim_set:Nn\topskip    {10pt}
           68 \dim_set:Nn\footskip   {30pt}
           69 \dim_set:Nn\maxdepth   { 5pt}
```

These (*i.e.* text width and height) are hopefully overwritten by typearea later, so we don't bother much with them.

134 `\dim_set:Nn\textwidth  {\paperwidth-2cm}`
135 `\dim_set:Nn\textheight{\paperheight-2cm}`

136 `\dim_set:Nn\oddsidemargin  {.2cm}`
137 `\dim_set:Nn\evensidemargin  {1cm}`
138 `\dim_set:Nn\marginparsep   {11pt}`
139 `\dim_set:Nn\marginparpush   {5pt}`
140 `\dim_set:Nn\marginparwidth {.8cm-\marginparsep}`
141 `\dim_set:Nn\topmargin{\paperheight-1cm`
142 `                      -\headheight-\headsep`
143 `                      -\textheight-\footskip`
144 `                      -.5\topmargin}`
145 `\dim_set:Nn\footnotesep{8.4pt}`
146 `\skip_set:Nn{\skip\footins} {10.8pt~plus~4pt~minus~2pt}`
147 `\skip_set:Nn\floatsep       {12pt  ~plus~2pt~minus~4pt}`
148 `\skip_set:Nn\textfloatsep   {20pt  ~plus~2pt~minus~4pt}`
149 `\skip_set:Nn\intextsep      {14pt  ~plus~4pt~minus~4pt}`
150 `\skip_set:Nn\dblfloatsep    {14pt  ~plus~2pt~minus~4pt}`
151 `\skip_set:Nn\dbltextfloatsep{20pt  ~plus~2pt~minus~4pt}`

These six have been changed slightly compared to `size11.clo`.

152 `\skip_set:Nn\@fptop{ 6pt}`
153 `\skip_set:Nn\@fpsep{12pt~plus~2fil}`
154 `\skip_set:Nn\@fpbot{ 6pt}`
155 `\skip_set:Nn\@dblfptop{ 6pt}`
156 `\skip_set:Nn\@dblfpsep{12pt~plus~2fil}`
157 `\skip_set:Nn\@dblfpbot{ 6pt}`

158 `\skip_set:Nn\partopsep{3pt~plus~2pt~minus~2pt}`
159 `\cs_set:Npn\@listi{`
160 `    \dim_set_eq:NN\leftmargin\leftmargini`
161 `    \skip_set:Nn\parsep { 5pt~plus~2.5pt~minus~1pt}`
162 `    \skip_set:Nn\topsep {10pt~plus~4pt  ~minus~6pt}`
163 `    \skip_set:Nn\itemsep{ 5pt~plus~2.5pt~minus~1pt}`

```
164 }
165 \cs_set_eq:NN\@listI\@listi
166 \dim_gset_eq:NN\leftmargin\leftmargini
167 \skip_gset:Nn\parsep { 5pt~plus~2.5pt~minus~1pt}
168 \skip_gset:Nn\topsep {10pt~plus~4pt  ~minus~6pt}
169 \skip_gset:Nn\itemsep{ 5pt~plus~2.5pt~minus~1pt}
170 \cs_set:Npn\@listii{
171     \dim_set_eq:NN\leftmargin\leftmarginii
172     \dim_set:Nn\labelwidth{\leftmarginii-\labelsep}
173     \skip_set:Nn\parsep {2.5pt~plus~1pt  ~minus~1pt}
174     \skip_set:Nn\topsep {  5pt~plus~2.5pt~minus~1pt}
175     \skip_set_eq:NN\itemsep\parsep
176 }
177 \cs_set:Npn\@listiii{
178     \dim_set_eq:NN\leftmargin\leftmarginiii
179     \dim_set:Nn\labelwidth{\leftmarginiii-\labelsep}
180     \skip_set_eq:NN\parsep\c_zero_skip
181     \skip_set:Nn\topsep   {2.5pt~plus~1pt~minus~1pt}
182     \skip_set:Nn\partopsep{  1pt~plus~0pt~minus~1pt}
183     \skip_set_eq:NN\itemsep\topsep
184 }
185 \cs_set:Npn\@listiv{
186     \dim_set_eq:NN\leftmargin\leftmarginiv
187     \dim_set:Nn\labelwidth{\leftmarginiv-\labelsep}
188 }
189 \cs_set:Npn\@listv{
190     \dim_set_eq:NN\leftmargin\leftmarginv
191     \dim_set:Nn\labelwidth{\leftmarginv-\labelsep}
192 }
193 \cs_set:Npn\@listvi{
194     \dim_set_eq:NN\leftmargin\leftmarginvi
195     \dim_set:Nn\labelwidth{\leftmarginvi-\labelsep}
196 }
197 \endinput
```

5 Installation

The easiest way to install this package is using the package manager provided by your LaTeX installation if such a program is available. Failing that, provided you have obtained the package source (`skrapport.tex` and `Makefile`) from either CTAN or Github, running `make install` inside the source directory works well. This will extract the documentation and code from `skrapport.tex`, install all files into the TDS tree at `TEXMFHOME` and run `mktexlsr`.

If you want to extract code and documentation without installing the package, run `make all` instead. If you insist on not using `make`, remember that packages distributed using skdoc must be extracted using `pdflatex`, *not* `tex` or `latex`.

6 Changes

v0.01

General: Initial version.

v0.02

`indent`: Added option of indented paragraphs.

v0.03

General: Removed `\rd` and `\id`.

v0.04

General: Added `microtype` package.

v0.05

General: Improved documentation.

v0.06

General: Corrected cheksum, further improved documentation.

v0.07

General: Various bugfixes, XƎLaTeX compatibility, better float settings, quote style fix, `intlimits` option to amsmath.

`\license`: Added command `\license`.

`kpfonts`: Added option `kpfonts`, set as default option for fonts.

v0.07a

General: Fixed kpfonts issues.

v0.08

`twocolumn`: Added option `twocolumn`.

v0.09

General: Introduced kvoptions, fixed abstract in twocolumn mode.

`color`: Added `color` option.

`sftitles`: Added `sftitles` option.

Cruelwater: Added 'Cruelwater' color theme.

Default: Added default color theme.

Unscathed: Added 'Unschathed' color theme.

Violet: Added 'Violet' color theme.

v0.10

General: Include skmath if exists and wanted. Gobble optional arguments to `figure` and `table` in two-column mode..

`onecol`: Fixed, now not completely broken.

`\comment`: Added macro for comments.

v0.10a

General: Include xparse (fixes breakage)..

v0.10b

`\author`: Improved `\author` macro.

`\note`: Fixed a silly error in `\com` and `\note`.

v0.10c

`\@makecaption`: Fix missing coloring command for some captions.

v0.11

General: Added `minion` for Adobe Minion Pro font.

`minion`: Added option `minion`.

v0.11a

General: Added skdoc font option and skdoc color theme.

`\__skrapport_title_style::` Removed incorrect `\bfseries`, replaced `\relax` with `\rmfamily`.

`skdoc`: Added option `skdoc`.

skdoc: Added 'skdoc' color theme.

v0.12

General: Deprecated several macros, moved to LaTeX3. Use of TOC depth above 3 is now unsupported.

`thebibliography`: Removed `\@mkboth`, `\@openbib@code` and `\@noitemerr`.

`theindex`: Use multicol instead of `\twocolumn` mode, removed `\@mkboth` call.

`\@makecaption`: Split `\@captionstyle` into two macros.

`\__skrapport_setup_paper:n`: Use typearea to set paper size.

`\author`: Use comma-separated lists instead of token list.

`\bf`: Deprecated command.

`\em`: Deprecated command.

`\emph`: Changed definition, may have introduced spacing issues.

`\footnoterule`: Removed footnote rule entirely.

`\it`: Deprecated command.

`\l@section`: Now uses `\__skrapport_toc_line:nnnnn`.

`\l@subsection`: Now uses `\__skrapport_toc_line:nnnnn`.

`\l@subsubsection`: Changed style to match skdoc.

`\rm`: Deprecated command.

`\sc`: Deprecated command.

`\sf`: Deprecated command.

`\sl`: Deprecated command.

`\tableofcontents`: Removed spacing and `\@mkboth` call.

`\tt`: Deprecated command.

`a4paper`: Option is now deprecated.

`a5paper`: Option is now deprecated.

`bftitles`: Option is now deprecated.

`color`: Converted to a key-value option which will load the specified color theme..

`eng`: Option is now deprecated.

`kpfonts`: Option is now deprecated.

`lang`: Incompatible change: values swe and eng are now `sv` and `en`, respectively.

`lmodern`: Option is now deprecated.

`math`: Option is now deprecated.

`minion`: Option is now deprecated.

`nofont`: Option is now deprecated.

`noindent`: Option is now deprecated.

`onecolumn`: Option is now deprecated.

`palatino`: Option is now deprecated.

`paper`: Values `a4paper` and `a5paper` are now deprecated.

`rmtitles`: Option is now deprecated.

`sftitles`: Option is now deprec-

ated.

`skdoc`: Option is now deprecated.

`swe`: Option is now deprecated.

7 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the page were the implementation of the corresponding entry is discussed. Numbers in roman refer to other mentions of the entry.

8 Bibliography

Caignaert, Christophe (2010). 'KP-Fonts 3.31'. In: url: `http://www.tex.`
`ac.uk/tex-archive/fonts/kpfonts/doc/kpfonts.pdf`.