The **skrapport** document class*†

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Abstract A document class intended for simple documents *e.g.* reports handed in to courses and such. It is small, straightforward and heavily inspired by the PracT_FX 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 LTEX3, while making modifications to both form and function along the way.

Because it is reimplemented in LTEX3, 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 11.

1.1 Options

As with other document classes, the class is loaded, possibly with options, by issuing \documentclass[$\langle options \rangle$]{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 (

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.

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

twocolumn

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.

1eqno 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 10), 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)

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	T _E X Gyre	_	_	Inconsolata
minion	Minion Pro	Minion Pro	_	Inconsolata
skdoc	PT Serif	_	Open Sans	Inconsolata
word	Cambria	Cambria Math	Calibri	Consolas

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.

none, kpfonts, lmodern, palatino, minion, skdoc, wordkpfonts) Several different font stacks, detailed by table 1, are provided. Most of these work with pdfITEX, 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 XalateX. 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 XalateX.

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 $\{\langle ISO8601 \ date \rangle\}$

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 ISO8601¹. The mechanisms provided by isodate can be used to affect the output format.

\author $[\langle email \rangle] \{\langle name \rangle\}$

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.

¹International Organization for Standardization, Technical Committee 154 2004.

\regarding $\{\langle topic \rangle\}$

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 $\{\langle license\ name \rangle\}$

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} $\langle abstract\ text \rangle$ \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**

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 Lagrange 2ε , 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 \{\langle text \rangle\}
```

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}

\end{description} of

`Tামের description ment behaves as expected, typesetting a list of descriptions as in the article class.

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

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 type-setting the figure across both columns in two-column mode. As usual, \centering, \caption and \label should be used inside the floats.

\begin{figure} [position]

 $\begin{tabular}{ll} $\langle content \rangle$ & This float environment is intended for figures. The most common contents are $\langle includegraphics statements or tikzpicture environments. \end{tabular}$

\begin{table} [position]

 $\langle content \rangle$ A float intended for tables. Probably contains tabulars. \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

```
\begin{tabular}{ll} $$\operatorname{note} & *\{\langle comment \rangle\}$ \\ & \operatorname{com} & *\{\langle comment \rangle\}$ \\ \\ & \text{$$\com} & *\{\langle comment \rangle\}$ \\ \end{tabular}
```

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 \{\langle theme \rangle\}
```

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

 ${\scriptstyle \text{Typesets}} \ huge \ {\scriptstyle \text{text.}}$

\Huge

Typesets really huge text.

1.3 Color themes

\colortheme $\{\langle theme \rangle\}$

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 COLOURlovers², 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 COLOURlovers³, 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 COLOUR-lovers palette⁴. 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 package⁵, but as of the release of v0.12a-devel, 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.

²http://www.colourlovers.com/palette/1440498/unscathed

³http://www.colourlovers.com/palette/126030/Cruel_Water_at_Night

⁴http://www.colourlovers.com/palette/1831303/Violet_White_Bedrm

⁵https://github.com/urdh/skrapport/issues

3 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.

4 Changes

vo.06

V0.01 V0.07

General: Initial version. General: Various bugfixes, X¬IATEX

compatibility, better float vo.03 settings, quote style fix, General: Removed \rd and \id. intlimits option to ams-

math.

V0.04

General: Added microtype package. V0.07a

General: Fixed kpfonts issues.

V0.05 V0.09

General: Improved documenta- General: Introduced kvoptions, tion. fixed abstract in twocolumn

mode.

General: Corrected cheksum, fur- vo.10

ther improved documentation. General: Include skmath if ex-

```
tional arguments to figure vo.11a
     and table in two-column
                                  General: Added skdoc font option
     mode.
                                       and skdoc color theme.
vo.10a
General: Include xparse (fixes
                                  V0.12
     breakage).
                                  General: Deprecated several mac-
VO.11
                                       ros, moved to LTEX3. Use of
General: Added minion for Adobe
                                       TOC depth above 3 is now un-
     Minion Pro font.
                                       supported.
```

5 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.

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6 Bibliography

International Organization for Standardization, Technical Committee 154 (2004). *ISO 8601:2004*. Data elements and interchange formats – Information interchange – Representation of dates and times.