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 Lagarate Texts, 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 13.

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 (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.

The twocolumn option sets up a two-column mode. This is not provided by internal Lage 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

twocolumn

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**

package.

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

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

titles rm, it, bf, sf
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.

hanging-titles true, false (false)
This options allow sections to be set as 'hanging' titles, *i.e.* with the section number in the margin.

color \(\langle \color \text{theme} \rangle \) (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 12), 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, skbpconword Several different font stacks, detailed by table 1 on the following page, are provided. Most of these work with pdfETEX, 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 XTETEX.

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 XqLTEX or LuaLTEX. Both word and none load the fontspec package, assuming the document is compiled using XqLTEX or LuaLTEX.

(*Note: The* skdoc *font stack doesn't have a math font.*)

Warning: Currently, fontspec is always loaded by X¬MTEX regardless of options due to the use of polyglossia. This means that you have to use OpenType fonts in your document, otherwise only Latin Modern Roman (i.e. no sans-serif or monospace fonts) will be available. Therefore, the word font stack is the default when using X¬MTEX. Lual-TEX is not affected by this.

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.

nomath true, false

(false)

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

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	Source Code Pro
palatino	T _E X Gyre	PX	Arev	Source Code Pro
minion	Minion Pro	Minion Pro	Myriad Pro	Source Code Pro
skdoc	PT Serif	_	Open Sans	Source Code Pro
word	Cambria	Cambria Math	Calibri	Consolas

lang en, sv, de (sv)

This option specifies what main language babel or polyglossia set up with. English (or swedish, for lang=en) 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

The general idea behind the document class is to provide most (if not all) of the macros provided by the standard \LaTeX 2ε classes, as well as additional macros to simplify and beautify the documents produced. As such, most of the documentation that follows details macros that are present in the standard document classes. Some of them have changed functionality or semantics, so at least a skim through this section is recommended.

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.

\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 addresses.

\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.

\title $\{\langle document\ title \rangle\}$

The \title macro, while not defined by skrapport, is relevant to describe. It simply sets the title of the document, as displayed by \maketitle.

\maketitle [hide={date, regarding, email}, nopdfinfo]

As in article, the \maketitle macro typesets the information provided by \title, \author and friends to form a stylish front page. When

¹International Organization for Standardization, Technical Committee 154 2004.

combined with abstract, titlepage and/or \tableofcontents, you get a very good-looking preamble with almost no effort.

The optional argument is a key-value list with two valid entries, hide and nopdfinfo. The hide entry accepts a comma-separated list in which the values date, regarding and email are interpreted as instructions to hide the corresponding entry from the front page. The nopdfinfo key disables the generation of PDF information by hyperref.

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}
  \langle 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

```
\begin{tabular}{ll} $\ \subsection & $ [\short\ title \] {\title \} $ \\ \subsubsection & $ [\short\ title \] {\title \} $ \\ \subsubsection & $ [\short\ title \] {\title \} $ \\ \subsubsection & $ [\short\ title \] {\title \} $ \\ \subparagraph & $ [\short\ title \] {\title \} $ \\ \end{tabular}
```

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 sectioning 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 $\text{ETEX } 2_{\mathcal{E}}$, 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??/\??family 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}

\Theoestern pt identifien ment behaves as expected, typesetting a list of descriptions as in the article class.

\end{description} \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⟩ \end{**figure**}

This float environment is intended for figures. The most common contents are \includegraphics statements or tikzpicture environments.

\begin{table}

[position]

⟨*content*⟩

A float intended for tables. Probably contains tabulars.

\end{table} \begin{figcenter} \end{**figcenter**}

This environment is useful for wide figures and tables. It typesets its contents centered horizonally, but allows the content to extend into the margin. The content is set in a horizontal coffin.

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.

\eg \ie \etc \cf \viz

These macro print the abbreviation of the latin phrases *exempli gratia*, *id est*, *et cetera*, *confer* and *videlicet*, respectively. The macros peek ahead to find punctuation marks and spaces, so they should behave correctly regardless of usage (assuming they're used in running text and uncomplicated settings). In languages other than english, appropriate translations are made if applicable.

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 colortheme to the document. For a list of available color themes, see 'Color themes' on page 12.

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 T_FX

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

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

\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.

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

2 Known issues

A list of current issues is available in the Github repository of this package⁵, but as of the release of v0.12d, 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.

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

3 Installation

The easiest way to install this package is using the package manager provided by your LTEX 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¬HTEX

compatibility, better float 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 exists and wanted. Gobble optional arguments to figure and vo.12a table in two-column mode.

now only loaded when using the word or none font stacks on LuaLTEX or XELTEX. The word font stack is now the de-

vo.10a

General: Include xparse (fixes breakage).

vo.12b VO.11

General: Added minion for Adobe Minion Pro font.

General: Minor and major bugfixes to \maketitle, ptsize, twocolumn and others.

fault font stack on X¬MT_FX.

General: The fontspec package is

vo.11a

V0.12C

vo.12d

General: Added skdoc font option and skdoc color theme.

General: Added german language option, fixed sectioning macros in twocolumn mode.

V0.12

General: Deprecated several macros, moved to LTFX3. Use of TOC depth above 3 is now unsupported.

General: Added hanging-titles, latin phrase macros. Load isomath. Don't load icomma. Use \frenchspacing.

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.*