

Extension to the `kulemt` class*

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Abstract

The `kulemt` class provides a general \LaTeX class to typeset a K.U.Leuven master thesis. This document style adds some additional features. But none of these features are required by the guidelines of the Faculty of Engineering.

1 Using the `kulemtx` document style

The `kulemtx` document style provides currently only some commands to typeset a thesis with a look similar to the `kulemt` manual. The chapter style `kulemtman` and the heading style `kulemtman` are the styles used by the manual. Additionally a command `\kulemtmanToC` is defined to typeset the table of contents similar to the manual.

2 Implementation of the `kulemtx` style

The namespace `kulemtx` is claimed, so all commands are prefixed with `kulemtx@` to avoid name clashes. In case you notice that other packages use this prefix too, please contact the author of this class!

2.1 Chapter style `kulemtman`

This chapter style is based on the BlueBox chapter style.

```
1 \newsavebox\kulemtx@chpnumbox
2 \def\kulemtx@buildchpnum#1#2{\sbox\kulemtx@chpnumbox{%
3   \tabular[t]{@{}c@{}}%
4     \makebox[0pt][c]{\chapnamefont #1\strut}\[.5ex]%
5     \colorbox[gray]{.8}{\color{black}%
6       \rule[-7em]{0pt}{0pt}%
7       {\chapnumfont \hspace{.7ex}#2\hspace{.7ex}\strut}}%
8   \endtabular}}
9 \makechapterstyle{kulemtman}{%
```

*This document corresponds to `kulemtx` v0.1, dated 2010/02/28.

```

10 \def\chapnamefont{\sffamily\large}%
11 \def\chapnumfont{\sffamily\Huge}%
12 \def\chaptitelfont{\sffamily\raggedright\huge}%
13 \setlength\beforechapskip\z@skip
14 \setlength\midchapskip{29\p@}%
15 \setlength\afterchapskip{40\p@}%
16 \def\printchaptername{%
17 \def\chapternamenenum{}%
18 \def\afterchapternum{}%
19 \def\printchapternum{%
20 \kulemtx@buildchpnum@chapapp\thechapter}%
21 \def\printchapternonum{%
22 \kulemtx@buildchpnum{\vphantom{\@chapapp}}{\hphantom{\thechapter}}}%
23 \def\printchaptertitle##1{%
24 \usebox\kulemtx@chpnumbox \hfill
25 \@tempdima\hsize \advance\@tempdima -1em%
26 \advance\@tempdima -\wd\kulemtx@chpnumbox
27 \parbox[t]{\@tempdima}{\vspace\midchapskip
28 \leavevmode \leaders\hrule\@height\p@ \hfill \kern\z@ \par
29 \chaptitelfont ##1\par}}

```

2.2 Head style kulemtman

```
30 \makeheadstyles{kulemtman}{%
```

First define part title formatting.

```

31 \def\partnamefont{\normalfont\huge\sffamily}%
32 \def\partnumfont{\normalfont\huge\sffamily}%
33 \def\parttitlefont{\normalfont\Huge\sffamily}%

```

Chapters are typeset using the kulemtman style.

```
34 \chapterstyle{kulemtman}%
```

Changing the styling of sections.

```

35 \setsecheadstyle{\Large\sffamily\raggedright}%
36 \setsubsecheadstyle{\large\sffamily\raggedright}%
37 \setsubsubsecheadstyle{\large\sffamily\itshape\raggedright}%

```

Paragraph headings use the small caps shape instead of bold with a medium space before them.

```

38 \setparaheadstyle{\normalsize\scshape}%
39 \setbeforeparaskip{\medskipamount}}

```

2.3 ToC as in the kulemt manual

The table of contents formatting is based on that of the memoir manual.

`\kulemtmanToC` Use the command `\kulemtmanToC` to reinitialize the necessary parameters.

```

40 \newcommand*\kulemtmanToC{%
41 \let\cftchapterfont\sffamily
42 \let\cftchapterdotsep\cftdotsep
43 \def\cftchapterleader{\normalfont\cftdotfill{\cftchapterdotsep}}%
44 \def\cftchapterpagefont{%

```

```

45 \setlength\cftbeforechapterskip{\medskipamount}%
46 \setlength\cftbeforesectionskip{\smallskipamount}%
47 \settodepth{subsection}%
48 \addtodef\cftchapterbreak{\par}{}%
49 \let\cftsubsectionfont\itshape
50 \def\l@section##1##2{%
51   \leftskip\cftsubsectionindent \rightskip\@tocrmarg \parfillskip\fill
52   \ifhmode ,\quad \else\noindent\fi \ignorespaces
53   {\let\numberline\@gobble \cftsubsectionfont ##1}%
54   ~~{\cftsubsectionpagefont ##2}\ignorespaces}}

```