Extension to the **kulemt** class[*]

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Abstract

The kulemt class provides a general LaTeX class to typeset a KU Leuven master's thesis. This document style adds some additional features. But none of these features are required by the guidelines of the Faculty of Engineering Science.

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.

To enable the styles in your document, you have to use the following commands in your document preamble after loading kulemtx:

- To change headings of chapters, sections, ..., use "`\headstyles{kulemtman}`".

- To change only headings of chapters, use "`\chapterstyle{kulemtman}`".

- To change the layout of the table of contents, use"`\kulemtmanToC`".

In case you were wondering, the document preamble of the manual contains the following snippet:

```
\usepackage{kulemtx}
\headstyles{kulemtman}
\kulemtmanToC
```

You can also use the definitions of kulemtx as an inspiration for your own modifications. You can copy whatever you want from `kulemtx.sty` to your document preamble and modify it. Make sure you put a "`\makeatletter`" before it and a "`\makeatother`" after it. Of course, you get no support for these kind of modifications.

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

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}{%
10   \def\chapnamefont{\sffamily\large}%
11   \def\chapnumfont{\sffamily\Huge}%
12   \def\chaptitlefont{\sffamily\raggedright\huge}%
13   \setlength\beforechapskip\z@skip
14   \setlength\midchapskip{29\p@}%
15   \setlength\afterchapskip{40\p@}%
16   \def\printchaptername{}%
17   \def\chapternamenum{}%
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       \chaptitlefont ##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 reinitialise 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    \settocdepth{subsection}%
48    \addtodef\cftchapterbreak{\par}{}%
49    \let\cftsubsectionfont\itshape
50    \def\l@subsection##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}}
```