

# 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 package adds some additional features, such as extra layout settings and extra user commands. But none of these features are required by the guidelines of the Faculty of Engineering Science.

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## 1 Options for extra layout settings

The `kulemtx` package provides some options to typeset a thesis with a look similar to the `kulemt` manual.

- `manheadstyles` This package defines the chapter style `kulemtman` and the heading style `kulemtman`, which are the styles used by the `kulemt` manual. The option ‘`manheadstyles`’ sets both styles.
- `mantoc` The option ‘`mantoc`’ changes the table of contents layout similar to the one used by the `kulemt` manual.
- `kuldate` The option ‘`kuldate`’ changes the long data formatting for the British language to the conventions used by the KU Leuven: “8 May 2023” instead of “8th May 2023”.

`manual` The option ‘`manual`’ combines the previous options into one. The document preamble of the manual contains the following snippet:

```
\usepackage[manual]{kulemtx}
```

## 2 Extra user commands

User commands are provided to print configuration data nicely. These commands only work if `kulemt` is used as the document class. Otherwise strange errors will be generated.

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`\ConfigFileName` This variable holds the name of the configuration file. By default it is `kulemt.ini`, but it can be set to a different value by the option ‘`cfgfile`’ of the `kulemt` class.

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`\ReadConfigFile` This command reads the entire configuration file again.

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`\PrintConfigFileDate` This command prints the date set in the configuration file.

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`\PrintConfigFileAcYr` This command prints the academic year based on the date set in the configuration file.

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`\PrintMastersInfo` `\PrintMastersInfo * {<type>} {<language>}`  
 This command prints the information for a set of masters. The ordering is the same as in the configuration file. The starred version only considers obsolete masters, while the unstarred version considers only non-obsolete masters. If `<type>` is non-empty, only masters with that `<type>` (‘`initial`’ or ‘`advanced`’) are considered. If `<language>` is non-empty, only masters with that `<language>` (‘`dutch`’ or ‘`english`’) are considered.

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`\ListMastersAndOptions` `\ListMastersAndOptions {<type>} {<language>}`  
 This command prints a sorted itemized list of non-obsolete masters with their non-obsolete options. If `<type>` is non-empty, only masters with that `<type>` (‘`initial`’ or ‘`advanced`’) are considered. If `<language>` is non-empty, only masters with that `<language>` (‘`dutch`’ or ‘`english`’) are considered. The ordering is the same as in the configuration file.

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`\ListMastersWithOptionType` `\ListMastersWithOptionType {<option type>} {<pre>}`  
 This command prints a sorted itemized list of non-obsolete masters with a given `<option type>` (either ‘`required`’ or ‘`forbidden`’). The list is preceded by the text `<pre>`. If no such masters are found, nothing is printed.

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## 3 Compatibility with older versions

The command `\kulemtmanToC` is no longer available. It is replaced by the option ‘`mantoc`’.

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\*This document corresponds to `kulemtx` v1.0, dated 2025-03-30.

## 4 Implementation

The namespace `kulemtx` is claimed. In case you notice that other packages use this prefix too, please contact the author of this class!

```
1 <@@=kulemtx>
```

This package assumes that it is used together with the document class `kulemt` version 2 (or later). So we generate a critical error if this is not the case.

```
2 \msg_new:nnn {kulemtx} {no_kulemt}
3 {
4   The~ package~ 'kulemtx'~ can~ only~ be~ used~ with~
5   the~ document~ class~ 'kulemt' #1.
6 }
7 \@ifclassloaded {kulemt}
8 {
9   \@ifclasslater {kulemt} {2024-01-01} {}
10   { \msg_critical:nnn {kulemtx} {no_kulemt} {~ version~ 2} }
11 }
12 { \msg_critical:nnn {kulemtx} {no_kulemt} {} }
```

The `kulemt` class requires an `l3kernel` of 2019-04-06, but some functions we need require a more recent version.

```
13 \cs_if_free:NT \str_compare:eNeTF
14 {
15   \cs_new:Npn \str_compare:eNeTF #1#2#3
16   {
17     \if_int_compare:w \tex_strcmp:D {#1} {#3} #2 \c_zero_int
18     \prg_return_true:
19   \else:
20     \prg_return_false:
21   \fi:
22 }
23 }
```

Some functions have been renamed the last couple of years

```
24 \cs_if_free:NT \str_casefold:n
25 {
26   \cs_if_exist:NTF \str_foldcase:n
27   {
28     \cs_set_eq:NN \str_casefold:n \str_foldcase:n
29     \cs_set_eq:NN \str_casefold:V \str_foldcase:V
30   }
31   {
32     \cs_set_eq:NN \str_casefold:n \str_fold_case:n
33     \cs_set_eq:NN \str_casefold:V \str_fold_case:V
34   }
35 }
```

### 4.1 Headings and chapter style option

`manheadstyles` The option `'manheadstyles'` sets the heading styles, including the chapter style, to the ones used by the `kulemt` manual.

```
36 \keys_define:nn {kulemtx}
37 {
```

```

38   manheadstyles .code:n = { \headstyles {kulemtman} },
39   manheadstyles .value_forbidden:n = true
40 }

```

#### 4.1.1 Heading style kulemtman

A heading style ‘kulemtman’ is defined. Not only can it be used in the option ‘manheadstyles’ but also together with any memoir based class.

```

41 \makeheadstyles {kulemtman}
42 {

```

First define part title formatting.

```

43   \tl_set:Nn \partnamefont { \normalfont \huge \sffamily }
44   \tl_set:Nn \partnumfont { \normalfont \huge \sffamily }
45   \tl_set:Nn \parttitlefont { \normalfont \Huge \sffamily }

```

Chapters are typeset using the kulemtman style.

```

46   \chapterstyle {kulemtman}

```

Changing the styling of sections.

```

47   \setsecheadstyle { \Large \sffamily \raggedright }
48   \setsubsecheadstyle { \large \sffamily \raggedright }
49   \setsubsubsecheadstyle { \large \sffamily \itshape \raggedright }

```

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

```

50   \setparaheadstyle { \normalsize \scshape }
51   \setbeforeparaskip { \medskipamount }
52 }

```

#### 4.1.2 Chapter style kulemtman

A chapter style ‘kulemtman’ is defined, based on the BlueBox chapter style. Not only can it be used in the heading style ‘kulemtman’ but also together with any memoir based class.

```

53 \makechapterstyle {kulemtman}
54 {
55   \tl_set:Nn \chapnamefont { \sffamily \large }
56   \tl_set:Nn \chapnumfont { \sffamily \Huge }
57   \tl_set:Nn \chapttitlefont { \sffamily \raggedright \huge }
58   \skip_zero:N \beforechapskip
59   \skip_set:Nn \afterchapskip {40pt}
60   \tl_clear:N \printchaptername
61   \tl_clear:N \chapternamenum
62   \tl_clear:N \afterchapternum
63   \tl_set:Nn \printchapternum { \_kulemtx_printchapternum:N \c_true_bool }
64   \tl_set:Nn \printchapternonum { \_kulemtx_printchapternum:N \c_false_bool }
65   \cs_set_eq:NN \printchaptertitle \_kulemtx_printchaptertitle:n
66 }

```

`\g__kulemtx_wd_num_dim` This global dimension variable stores the width of the last chapter number box. The width is set by `\_kulemtx_printchapternum:N` and can be used lateron by `\_kulemtx_printchaptertitle:n`.

```

67 \dim_new:N \g__kulemtx_wd_num_dim

```

(End of definition for `\g__kulemtx_wd_num_dim`.)

`\__kulemtx_printchapternum:N` This function prints the chapter number box for the kulemtman chapter style. The argument is a boolean, specifying to print the chapter number itself or not.

```

68 \cs_new_protected:Nn \__kulemtx_printchapternum:N
69 {
70   \hbox_set:Nn \l_tmpb_box
71   {
72     \chapnumfont
73     \skip_horizontal:n { 8pt + \fboxsep }
74     \bool_if:NTF #1 { \use:n } { \hphantom } { \thechapter }
75     \skip_horizontal:n { 8pt + \fboxsep }
76     \strut
77   }
78   \box_set_ht:Nn \l_tmpb_box { \box_ht:N \l_tmpb_box + \fboxsep }
79   \box_set_dp:Nn \l_tmpb_box { \box_dp:N \l_tmpb_box + \fboxsep + 55pt }
80   \dim_gset:Nn \g__kulemtx_wd_num_dim { \box_wd:N \l_tmpb_box }
81   \mode_leave_vertical:
82   \vbox:n
83   {
84     \hbox_to_wd:nn { \g__kulemtx_wd_num_dim }
85     {
86       \tex_hss:D
87       \chapnamefont
88       \bool_if:NT #1 { \@chapapp }
89       \strut
90       \tex_hss:D
91     }
92     \hbox:n
93     {
94       {
95         \color[gray]{.8}
96         \tex_vrule:D width \g__kulemtx_wd_num_dim \scan_stop:
97       }
98       \skip_horizontal:n { -\g__kulemtx_wd_num_dim }
99       \box_use_drop:N \l_tmpb_box
100     }
101   }
102 }

```

Since this function depends on the `color` package for the `\color` command, we require it here.

```

103 \RequirePackage{color}

```

(End of definition for `\__kulemtx_printchapternum:N`.)

`\__kulemtx_printchaptertitle:n` This function prints the chapter title (given in the argument) for the kulemtman chapter style.

```

104 \cs_new_protected:Nn \__kulemtx_printchaptertitle:n
105 {
106   \hfill
107   \vbox_top:n
108   {
109     \chaptitelfont

```

```

110         \dim_sub:Nn \hsize { 12pt + \g__kulemtx_wd_num_dim }
111         \tex_hrulerule:D height 1pt \scan_stop:
112         \skip_vertical:n {7pt}
113         \strut #1 \par
114     }
115 }

```

(End of definition for `\__kulemtx_printchaptertitle:n`.)

## 4.2 Table of contents option

`mantoc` The option ‘mantoc’ sets the table of contents formatting similar to the one used in the memoir manual.

```

116 \keys_define:nn {kulemtx}
117 {
118     mantoc .code:n = { \__kulemtx_manual_toc: },
119     mantoc .value_forbidden:n = true
120 }

```

`\__kulemtx_manual_toc:` This function reinitializes the necessary parameters for table of contents formatting.

```

121 \cs_new_protected:Nn \__kulemtx_manual_toc:
122 {
123     \cs_set_eq:NN \cftchapterfont \sffamily
124     \cs_set_eq:NN \cftchapterdotsep \cftdotsep
125     \tl_set:Nn \cftchapterleader
126         { \normalfont \cftdotfill { \cftchapterdotsep } }
127     \tl_clear:N \cftchapterpagefont
128     \skip_set:Nn \cftbeforechapterskip { \medskipamount }
129     \skip_set:Nn \cftbeforesectionsip { \smallskipamount }
130     \settocdepth {subsection}
131     \tl_put_left:Nn \cftchapterbreak { \par }
132     \tl_set:Nn \cftsubsectionfont { \itshape }
133     \cs_set:Npn \l@section ##1 ##2
134     {
135         \skip_set:Nn \leftskip { \cftsubsectionindent }
136         \skip_set:Nn \rightskip { \@tocrmarg }
137         \skip_set:Nn \parfillskip { \fill }
138         \mode_if_horizontal:TF { , \quad } { \noindent }
139         \group_begin:
140             \cs_set_eq:NN \numberline \use_none:n
141             \cftsubsectionfont ##1
142         \group_end:
143         \nobreakspace \nobreakspace
144         \group_begin:
145             \cftsubsectionpagefont ##2
146         \group_end:
147         \ignorespaces
148     }
149 }

```

(End of definition for `\__kulemtx_manual_toc:`.)

### 4.3 KU Leuven conventions option

**kuldate** The KU Leuven has decided to go for the British English spelling system for official documents in the English language. However they deviate from it for specifying dates. The option ‘kuldate’ adjusts date printing commands to conform to the KU Leuven rules<sup>1</sup>.

```
150 \keys_define:nn {kulemtx}
151 {
152   kuldate .code:n =
153   {
```

**\datebritish** (Re)define `\datebritish` in case the language `british` is used with `babel`. We assume the language is already loaded by the `kulemt` class and not on the fly in the document.

```
154   \cs_set_nopar:Npn \datebritish
155   {
156     \cs_set_nopar:Npn \today
157     {
158       \number\day \nobreakspace
159       \ifcase \month \or January \or February \or March \or April
160       \or May \or June \or July \or August \or September
161       \or October \or November \or December \fi
162       \space \number\year
163     }
164   }
```

*(End of definition for \datebritish.)*

**\mkbibdatelong** When biblatex is used, `\mkbibdatelong` is redefined for British.

```
165   \RequireAtEndPackage {biblatex}
166   {
167     \DefineBibliographyExtras {british}
168     { \cs_set_eq:NN \mkbibdatelong \__kulemtx_mkbiadatelong:nnn }
169   },
170   },
171   kuldate .value_forbidden:n = true
172 }
```

A replacement for the British `\mkbibdatelong` of `biblatex` with KU Leuven conventions.

```
\__kulemtx_mkbiadatelong:nnn
173 \cs_new_protected_nopar:Nn \__kulemtx_mkbiadatelong:nnn
174 {
175   \iffieldundef {#3}
176   {}
177   {
178     \stripzeros { \thefield {#3} }
179     \iffieldundef {#2} {} { \nobreakspace }
180   }
181   \iffieldundef {#2}
182   {}
183   {
184     \mkbibmonth { \thefield {#2} }
185     \iffieldundef {#1} {} { \space }
186   }
```

---

<sup>1</sup><https://www.kuleuven.be/english/language-guide> (requires a KU Leuven account to access)

```

187 \iffieldbibstring {#1}
188 { \bibstring { \thefield {#1} } }
189 { \dateeraprintpre {#1} \stripzeros { \thefield {#1} } }
190 }

```

*(End of definition for \mkbibdatealong and \\_kulemtx\_mkbiibdatealong:nnn.)*

## 4.4 Other options

**manual** The option ‘manual’ sets all the options used in the kulemt manual.

```

191 \keys_define:nn {kulemtx}
192 {
193   manual .meta:n = { manheadstyles, mantoc, kuldate },
194   manual .value_forbidden:n = true
195 }

```

Finally process the options.

```

196 \ProcessKeyOptions \scan_stop:

```

## 4.5 Extra user commands

The following commands can be used to print information of the configuration file.

**\l\_\_kulemtx\_tmpa\_seq** An internal sequence variable \l\_\_kulemtx\_tmpa\_seq is made available.

```

197 \seq_new:N \l__kulemtx_tmpa_seq

```

*(End of definition for \l\_\_kulemtx\_tmpa\_seq.)*

**\ConfigFileName** This makes the configuration file name (set by kulemt) available to the user.

```

198 \tl_new:N \ConfigFileName
199 \tl_set_eq:NN \ConfigFileName \l_kulemt_opt_cfgfile_tl

```

*(End of definition for \ConfigFileName. This variable is documented on page 2.)*

**\ReadConfigFile** (Re)read the entire configuration file.

```

200 \NewDocumentCommand { \ReadConfigFile } {}
201 { \kulemt_read_config_file: }

```

*(End of definition for \ReadConfigFile. This function is documented on page 2.)*

**\PrintConfigFileDate** This command prints the date mentioned in the configuration file in the format used by \today.

```

202 \NewDocumentCommand { \PrintConfigFileDate } {}
203 { \_kulemtx_use_configfile_date:n { \today } }

```

*(End of definition for \PrintConfigFileDate. This function is documented on page 2.)*



`\_kulemtx_use_configfile_date:n` This function temporarily sets the `\day`, `\month` and `\year` to the date mentioned in the configuration file before using with #1.

```

204 \cs_new_protected:Nn \_kulemtx_use_configfile_date:n
205 {
206   \prop_get:NnNTF \l_kulemt_cfg_prop {date} \l_tmpa_tl
207   {
208     \exp_last_unbraced:NV \_kulemtx_use_isodate:w \l_tmpa_tl
209     ---\q_stop {#1}
210   }
211   { ??? }
212 }

```

(End of definition for `\_kulemtx_use_configfile_date:n`.)

`\_kulemtx_use_isodate:w` `\_kulemtx_use_isodate:w <ISO date> --- \qstop {<use it>}`

This function reads an `<ISO date>` and lets you `<use it>`.

```

213 \cs_new_protected:Npn \_kulemtx_use_isodate:w #1-#2-#3-#4 \q_stop #5
214 {
215   \group_begin:
216     \int_set:Nn \day {#3}
217     \int_set:Nn \month {#2}
218     \int_set:Nn \year {#1}
219     #5
220   \group_end:
221 }

```

(End of definition for `\_kulemtx_use_isodate:w`.)

`\PrintConfigFileAcYr` This command prints the academic year based on the date mentioned in the configuration file. For a configuration date before 1 September we assume the configuration file describes data for the academic year which ends in that year otherwise data for the academic year which starts in that year.

```

222 \NewDocumentCommand { \PrintConfigFileAcYr } {}
223 {
224   \_kulemtx_use_configfile_date:n
225   {
226     \int_set:Nn \l_tmpa_int
227     { \year \int_compare:nNnT { \month } < {9} { - 1 } }
228     \int_use:N \l_tmpa_int \, -- \, \int_eval:n { \l_tmpa_int + 1 }
229   }
230 }

```

(End of definition for `\PrintConfigFileAcYr`. This function is documented on page 2.)

`\PrintMastersInfo` `\PrintMastersInfo * {<type>} {<language>}`

Print the detailed information of non-obsolete masters, restricted to `<type>` (if non-empty) and `<language>` (if non-empty). The sequence is the same as in the configuration file.

The starred version considers obsolete instead of non-obsolete masters.

```

231 \NewDocumentCommand { \PrintMastersInfo } { s m m }
232 {
233   \_kulemtx_handle_master:nnnn {#1} {#2} {#3}
234   { \_kulemtx_print_masterinfo: }
235 }

```

(End of definition for \PrintMastersInfo. This function is documented on page 2.)

`\_kulemtx_handle_master:nnnn` This function iterates over a restricted set of masters and uses #4 on each of them. The master abbreviation is available as ##1. Depending on the boolean #1 restrict the masters to obsolete (if true) or to non-obsolete (if false) ones. A non-empty #2 restricts the masters to that type. A non-empty #3 restricts the masters to that language.

```

236 \cs_new_protected:Nn \_kulemtx_handle_master:nnnn
237 {
238   \seq_map_inline:Nn \l_kulemt_masters_seq
239   {
240     \IfBooleanTF {#1}
241     { \kulemt_master_obsolete_item:nT }
242     { \kulemt_master_obsolete_item:nF }
243     {##1}
244     {
245       \kulemt_set_master:n {##1}
246       \tl_if_empty:nTF {#2}
247       { \str_clear:N \l_tmpa_str }
248       { \kulemt_master_get_required_item:nN {type} \l_tmpa_str }
249       \tl_if_empty:nTF {#3}
250       { \str_clear:N \l_tmpb_str }
251       { \kulemt_master_get_required_item:nN {language} \l_tmpb_str }
252       \bool_lazy_and:nnT
253       { \str_if_eq_p:Vn \l_tmpa_str {#2} }
254       { \str_if_eq_p:Vn \l_tmpb_str {#3} }
255       { #4 }
256     }
257   }
258 }

```

(End of definition for \\_kulemtx\_handle\_master:nnnn.)

`\_kulemtx_print_masterinfo:` Function to print the information of the current master.

```

259 \cs_new_protected:Nn \_kulemtx_print_masterinfo:
260 {
261   \addvspace{\medskipamount}
262   \skip_zero:N \parindent
263   \sidepar
264   {
265     \raggedleft
266     \texttt { \kulemt_master_print_required_item:n {abbreviation} }
267   }
268   \textsc { \kulemt_master_print_required_item:n {name} }
269   \par \nobreak
270   \kulemt_master_get_required_item:nN {language} \l_tmpa_str
271   \kulemt_titlecase_first:V \l_tmpa_str
272   \c_space_tl master
273   \kulemt_master_get_faculty_name:N \l_tmpa_tl
274   \tl_if_empty:NF \l_tmpa_tl { ~ of~ the~ \l_tmpa_tl }
275   . \par \nobreak
276   \_kulemtx_hangfrom:nn { Contact~ info::~ }
277   { \kulemt_master_print_required_item:n {contact.address} }
278   \nobreak

```

```

279 \kulemt_master_get_item_or_fallback:nnN {option} {} \l_tmpa_tl
280 \str_case:VnF \l_tmpa_tl
281 {
282   {required} { A~ master's~ programme~ option~ must~ be~ specified. }
283   {forbidden} { The~ master's~ programme~ doesn't~ allow~ you~ to~
284                 mention~ an~ option. }
285 }
286 { The~ master's~ programme~ doesn't~ require~ you~ to~ mention~
287   an~ option. }
288 \par
289 \kulemt_master_get_item:nn {options} \l_tmpb_seq
290 \seq_if_empty:NF \l_tmpb_seq
291 {
292   \nobreak
293   Known~ master's~ programme~ option~ abbreviations:
294   \par
295   \seq_clear:N \l_tmpa_seq
296   \seq_map_inline:Nn \l_tmpb_seq
297   {
298     \kulemt_master_obsolete_item:nTF {##1}
299     { \seq_put_right:Nn \l_tmpa_seq {##1} }
300     {
301       \nobreak \noindent \enskip
302       \_kulemtx_print_option:n {##1}
303       \par
304     }
305   }
306   \seq_if_empty:NF \l_tmpa_seq
307   {
308     \nobreak
309     \_kulemtx_hangfrom:nn { \quad obsolete: }
310     {
311       \seq_pop_left:NN \l_tmpa_seq \l_tmpa_tl
312       \exp_args:NV \_kulemtx_print_option:n \l_tmpa_tl
313       \seq_map_inline:Nn \l_tmpa_seq
314       { \\\* \strut \_kulemtx_print_option:n {##1} }
315     }
316   }
317 }
318 }

```

*(End of definition for \\_kulemtx\_print\_masterinfo:.)*

\\_kulemtx\_hangfrom:nn Function to typeset #2 hanging from #1.

```

319 \cs_new_protected:Nn \_kulemtx_hangfrom:nn
320 {
321   \hbox_set:Nn \l_tmpa_box {#1}
322   \dim_set:Nn \hangindent { \box_wd:N \l_tmpa_box }
323   \noindent \box_use_drop:N \l_tmpa_box
324   #2 \par
325 }

```

*(End of definition for \\_kulemtx\_hangfrom:nn.)*

`\__kulemtx_print_option:n` Function to typeset master option #1 as part of a list.

```

326 \cs_new_protected:Nn \__kulemtx_print_option:n
327 {
328   \enskip \textbf{--} \enskip \texttt{#1} \enskip
329   ('\kulemt_master_print_required_item:n { option. #1 }')
330 }

```

(End of definition for `\__kulemtx_print_option:n`.)

`\ListMastersAndOptions` `\ListMastersAndOptions {<type>} {<language>}`

List the non-obsolete masters with their non-obsolete options. The masters are restricted to `<type>` (if non-empty) and `<language>` (if non-empty). The masters as well as the options are sorted alphabetically.

```

331 \NewDocumentCommand { \ListMastersAndOptions } { m m }
332 {
333   \seq_clear:N \l_tmpa_seq
334   \__kulemtx_handle_master:nnnn { \BooleanFalse } {#1} {#2}
335   { \seq_put_right:Nn \l_tmpa_seq {##1} }
336   \seq_if_empty:NF \l_tmpa_seq
337   {
338     \seq_sort:Nn \l_tmpa_seq
339     {
340       \kulemt_set_master:n {##1}
341       \kulemt_master_get_item:nN {name} \l_tmpa_tl
342       \kulemt_set_master:n {##2}
343       \kulemt_master_get_item:nN {name} \l_tmpb_tl
344       \str_compare:eNeTF
345       { \str_casefold:V \l_tmpa_tl } > { \str_casefold:V \l_tmpb_tl }
346       { \sort_return_swapped: }
347       { \sort_return_same: }
348     }
349     \begin{itemize}
350       \seq_map_inline:Nn \l_tmpa_seq
351       {
352         \kulemt_set_master:n {##1}
353         \item \kulemt_master_print_required_item:n {name} \par
354         \__kulemtx_print_option_names:
355       }
356     \end{itemize}
357   }
358 }

```

(End of definition for `\ListMastersAndOptions`. This function is documented on [page 2](#).)

`\__kulemtx_print_option_names:` Function to typeset a sorted list of non-obsolete options of the current master.

```

359 \cs_new_protected:Nn \__kulemtx_print_option_names:
360 {
361   \kulemt_master_get_item:nN {options} \l_tmpb_seq
362   \seq_if_empty:NF \l_tmpb_seq
363   {
364     \seq_clear:N \l__kulemtx_tmpa_seq
365     \seq_map_inline:Nn \l_tmpb_seq
366     {
367       \kulemt_master_obsolete_item:nF {##1}

```

```

368         {
369             \kulemt_master_get_item:nN { option.##1 } \l_tmpa_tl
370             \seq_put_right:NV \l__kulemtx_tmpa_seq \l_tmpa_tl }
371     }
372     \seq_if_empty:NF \l__kulemtx_tmpa_seq
373     {
374         \seq_sort:Nn \l__kulemtx_tmpa_seq
375         {
376             \str_compare:eNeTF
377             { \str_casefold:n {##1} } > { \str_casefold:n {##2} }
378             { \sort_return_swapped: }
379             { \sort_return_same: }
380         }
381         \begin{itemize}
382         \item \seq_use:Nn \l__kulemtx_tmpa_seq { \item }
383         \end{itemize}
384     }
385 }
386 }

```

(End of definition for \\_\_kulemtx\_print\_option\_names:.)

#### \ListMastersWithOptionType

\ListMastersWithOptionType {<option type>} {<pre>}

Command to print <pre> followed by a sortedlist of masters with a given <option type>. Nothing is printed if no masters are found.

```

387 \NewDocumentCommand {\ListMastersWithOptionType} { m m }
388 {
389     \seq_clear:N \l__kulemtx_tmpa_seq
390     \seq_map_inline:Nn \l_kulemt_masters_seq
391     {
392         \kulemt_set_master:n {##1}
393         \kulemt_master_get_item_or_fallback:nnN {option} {?} \l_tmpa_tl
394         \str_if_eq:VnT \l_tmpa_tl {#1}
395         {
396             \kulemt_master_get_required_item:nN {name} \l_tmpa_tl
397             \seq_put_right:NV \l__kulemtx_tmpa_seq \l_tmpa_tl
398         }
399     }
400     \seq_if_empty:NF \l__kulemtx_tmpa_seq
401     {
402         \seq_sort:Nn \l__kulemtx_tmpa_seq
403         {
404             \str_compare:eNeTF
405             { \str_casefold:n {##1} } > { \str_casefold:n {##2} }
406             { \sort_return_swapped: }
407             { \sort_return_same: }
408         }
409         #2
410         \begin{itemize}
411         \item \seq_use:Nn \l__kulemtx_tmpa_seq { \item }
412         \end{itemize}
413     }
414 }

```

(End of definition for \ListMastersWithOptionType. This function is documented on page 2.)

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