

# La L E T T R E G U T E N B E R G

## Support for the newsletter “La Lettre GUTenberg”

Association GUTenberg

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<https://www.gutenberg-asso.fr/?Adherer-en-ligne>

# GUTenberg

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## Identification

```

1 % This is file `letgut.cls',
2 % generated with the Emacs Org-babel utility.
3 %
4 % The original source file is letgut.org
5 %
6 % -----:| -----
7 % letgut:| Class for the newsletter “La Lettre GUTenberg”
8 % Author:| Association GUTenberg
9 % E-mail:| secretariat@gutenberg-asso.fr
10 % License:| Released under the LaTeX Project Public License
11 %          | v1.3c or later
12 % See:| http://www.latex-project.org/lppl.txt
13 %
14 % Copyright (C) 1994-2024 by Association GUTenberg
15 %          <secretariat@gutenberg-asso.fr>
16 %
17 % This work may be distributed and/or modified under the
18 % conditions of the LaTeX Project Public License (LPPL), either
19 % version 1.3c of this license or (at your option) any later
20 % version. The latest version of this license is in the file:
21 %
22 % http://www.latex-project.org/lppl.txt
23 %
24 % This work is “maintained” (as per LPPL maintenance status)
25 % by Association GUTenberg.
26 %

```

## Debugging

```

1 % \RequirePackage[
2 %   , check-declarations
3 %   , enable-debug
4 %   , backend=luatex
5 % ]{expl3}

```

## Implementation

These document classes can only be used with L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>, so we make sure that an appropriate message is displayed when another T<sub>E</sub>X format is used.

```

1 \NeedsTeXFormat{LaTeX2e}[2020-10-01]

```

We define some constant token lists immediately useful.

```

1 \ExplSyntaxOn
2 \tl_const:Nn \c__letgut_Lettre_plain_tl { Lettre }
3 \tl_const:Nn \c__letgut_Lettre_tl { \emph{ \c__letgut_Lettre_plain_tl }
4 }
4 \tl_const:Nn \c__letgut_Lettres_tl {
5   \c__letgut_Lettre_tl \emph{ s }
6 }
7 \tl_const:Nn \c__letgut_gutenberg_tl { GUTenberg }
8 \tl_const:Nn \c__letgut_association_tl { association }
9 \tl_const:Nn \c__letgut_Lettre_gutenberg_plain_tl {

```

```

10   \c__letgut_Lettre_plain_tl~\c_space_tl \c__letgut_gutenberg_tl
11   }
12   \tl_const:Nn \c__letgut_Lettre_gutenberg_tl {
13     \c__letgut_Lettre_tl~\c_space_tl \c__letgut_gutenberg_tl
14   }
15   \tl_const:Nn \c__letgut_la_lettre_gutenberg_plain_tl {
16     la~ \c__letgut_Lettre_gutenberg_plain_tl
17   }
18   \tl_const:Nn \c__letgut_la_lettre_gutenberg_tl {
19     la~ \c__letgut_Lettre_gutenberg_tl
20   }
21   \tl_const:Nn \c__letgut_La_lettre_gutenberg_tl {
22     \text_titlecase_first:n \c__letgut_la_lettre_gutenberg_tl
23   }
24   \ExplSyntaxOff

```

Now, we can announce the class name and its version :

```

1   \ProvidesExplClass{letgut}
2   {2024-10-07}
3   {0.9.10}
4   {
5     Class for the newsletter “The GUTenberg Letter”
6   }

```

## Messages

We specify the messages come from a class, which is letgut (see <https://github.com/latex3/latex3/issues/887>).

```

1   \prop_gput:Nnn \g_msg_module_type_prop { letgut } { Class }

```

Some messages are declared for future use.

```

1   \msg_new:nnn{letgut}{Wrong~engine}{
2     The~ letgut~ class~ requires~ LuaTeX.\\\
3     You~ must~ change~ your~ typesetting~ engine~ to~
4     “lualatex”~ instead~ of~ “latex”~ or~ “pdflatex”
5     or~ “xelatex”.
6   }
7   \msg_new:nnn{letgut}{Existing~command}{
8     The~ command~ \c_backslash_str \text_lowercase:n{#1}~
9     already~ exists~ and~ has~ not~ be~ overwritten~ by~
10    \token_to_str:N \letgutacro{#1}{...}.~
11    The~ corresponding~ acronym~ has~ to~ be~ used~ e.g.~
12    like~ this:~
13    \token_to_str:N \ac{ \text_lowercase:n{#1} }.
14  }
15  \msg_new:nnn{letgut}{Not~month~iso~date}{
16    The~ supplied~ date~(“#1”)~ isn't~ at~ the~ month~ iso~
17    date~ format~ (YYYY-MM):~ it~ will~ be~ printed~ as~
18    it~ is.
19  }
20  \msg_new:nnn{letgut}{Banner~file~not~provided}{
21    No~ ‘\c__letgut_banner_file_tl.pdf’~ file~ provided:~
22    the~ banner~ will~ be~ automatically~ created.

```

```

23 }
24 \msg_new:nnn{letgut}{Editorial~file~missing}{
25   File~`\c__letgut_editorial_file_tl.tex'~missing!~
26   The~ editorial~ will~ be~ missing.
27 }
28 \msg_new:nnn{letgut}{Informations~file~missing}{
29   File~`\c__letgut_informations_gutenberg_file_tl.tex'~
30   missing!~ The~ informations~ about~
31   \c__letgut_gutenberg_tl\c_space_tl~ will~ be~ missing.
32 }
33 \msg_new:nnn{letgut}{pagecolor~inoperative~with~paper~option}{
34   The~ `pagecolor=#1'~ option~ is~ inoperative~ with~ the~ `paper'~
35   option:~ the~ color~ of~ the~ page~ will~ remain~ white.
36 }
37 \msg_new:nnn{letgut}{frontcover-missing}{
38   You~ didn't~ use~ the~ `frontcover'~ option~ for~ the~
39   bookreview~ "#1",~ so~ the~ book~ cover~image~ will~ be~ missing:~
40   are~ you~ sure?
41 }
42 \msg_new:nnn{letgut}{frontcover-file-not-found}{
43   The~ book~ cover~ image~ `#2'~ you~ specified~ via~ the~
44   `frontcover'~ option~ for~ the~ bookreview~ "#1"~ cannot~ be~ found.
45 }

```

## Engine checking

```

1 \sys_if_engine luatex:F {
2   \msg_fatal:nn{letgut}{Wrong~engine}
3 }

```

## Declarations

### 1. Scratch variables

```

1 \bool_new:N \g__letgut_tmpa_bool
2 \bool_new:N \g__letgut_tmpb_bool
3 \box_new:N \g__letgut_tmpa_box
4 \box_new:N \g__letgut_tmpb_box
5 \clist_new:N \g__letgut_tmpa_clist
6 \clist_new:N \g__letgut_tmpb_clist
7 \coffin_new:N \g__letgut_tmpa_coffin
8 \coffin_new:N \g__letgut_tmpb_coffin
9 \dim_new:N \g__letgut_tmpa_dim
10 \dim_new:N \g__letgut_tmpb_dim
11 \fp_new:N \g__letgut_tmpa_fp
12 \fp_new:N \g__letgut_tmpb_fp
13 \int_new:N \g__letgut_tmpa_int
14 \int_new:N \g__letgut_tmpb_int
15 \ior_new:N \g__letgut_tmpa_ior
16 \ior_new:N \g__letgut_tmpb_ior
17 \iow_new:N \g__letgut_tmpa_iow
18 \iow_new:N \g__letgut_tmpb_iow
19 \muskip_new:N \g__letgut_tmpa_muskip
20 \muskip_new:N \g__letgut_tmpb_muskip

```

```

21 \prop_new:N \g__letgut_tmpa_prop
22 \prop_new:N \g__letgut_tmpb_prop
23 \regex_new:N \g__letgut_tmpa_regex
24 \regex_new:N \g__letgut_tmpb_regex
25 \seq_new:N \g__letgut_tmpa_seq
26 \seq_new:N \g__letgut_tmpb_seq
27 \skip_new:N \g__letgut_tmpa_skip
28 \skip_new:N \g__letgut_tmpb_skip
29 \str_new:N \g__letgut_tmpa_str
30 \str_new:N \g__letgut_tmpb_str
31 \tl_new:N \g__letgut_tmpa_tl
32 \tl_new:N \g__letgut_tmpb_tl
33 \bool_new:N \l__letgut_tmpa_bool
34 \bool_new:N \l__letgut_tmpb_bool
35 \box_new:N \l__letgut_tmpa_box
36 \box_new:N \l__letgut_tmpb_box
37 \clist_new:N \l__letgut_tmpa_clist
38 \clist_new:N \l__letgut_tmpb_clist
39 \coffin_new:N \l__letgut_tmpa_coffin
40 \coffin_new:N \l__letgut_tmpb_coffin
41 \dim_new:N \l__letgut_tmpa_dim
42 \dim_new:N \l__letgut_tmpb_dim
43 \fp_new:N \l__letgut_tmpa_fp
44 \fp_new:N \l__letgut_tmpb_fp
45 \int_new:N \l__letgut_tmpa_int
46 \int_new:N \l__letgut_tmpb_int
47 \ior_new:N \l__letgut_tmpa_ior
48 \ior_new:N \l__letgut_tmpb_ior
49 \iow_new:N \l__letgut_tmpa_iow
50 \iow_new:N \l__letgut_tmpb_iow
51 \muskip_new:N \l__letgut_tmpa_muskip
52 \muskip_new:N \l__letgut_tmpb_muskip
53 \prop_new:N \l__letgut_tmpa_prop
54 \prop_new:N \l__letgut_tmpb_prop
55 \regex_new:N \l__letgut_tmpa_regex
56 \regex_new:N \l__letgut_tmpb_regex
57 \seq_new:N \l__letgut_tmpa_seq
58 \seq_new:N \l__letgut_tmpb_seq
59 \skip_new:N \l__letgut_tmpa_skip
60 \skip_new:N \l__letgut_tmpb_skip
61 \str_new:N \l__letgut_tmpa_str
62 \str_new:N \l__letgut_tmpb_str
63 \tl_new:N \l__letgut_tmpa_tl
64 \tl_new:N \l__letgut_tmpb_tl

```

### Booleans

— For testing the emptiness of the title.

```
1 \bool_new:N \g__letgut_title_empty_bool
```

— For the paper (or not) output.

```
1 \bool_new:N \g__letgut_paper_bool
```

— For testing whether we currently are in a footnote or not.

```
1 \bool_new:N \l__letgut_in_footnote_bool
```

- For testing whether we currently ask the draft or the final version.
 

```
1 \bool_new:N \g__letgut_draft_bool
```
- For the included files to (not) be attached.
 

```
1 \bool_new:N \g__letgut_included_files_attached_bool
```
- For the acronym definitions file to (not) be attached.
 

```
1 \bool_new:N \g__letgut_acronyms_file_attached_bool
```
- For the listings language file to (not) be attached.
 

```
1 \bool_new:N \g__letgut_lstlanguage_file_attached_bool
```

## Dimensions

- Geometry of the document
 

```
1 \dim_const:Nn \c__letgut_textheight_dim { 25cm }
2 \dim_const:Nn \c__letgut_textwidth_dim { 14cm }
3 \dim_const:Nn \c__letgut_lmargin_dim { 5cm }
4 \dim_const:Nn \c__letgut_tmargin_dim { 2.92cm }
5 % \dim_const:Nn \c__letgut_tmargin_dim { 3cm }
6 \dim_const:Nn \c__letgut_head_dim { 0.6cm }
7 \dim_const:Nn \c__letgut_headsep_dim { 0.82cm }
8 % \dim_const:Nn \c__letgut_headsep_dim { 0.9cm }
9 \dim_const:Nn \c__letgut_marginparwidth_dim { 3.74cm }
```
- Horizontal offset of the headers and the sections titles :
 

```
1 \dim_const:Nn \c__letgut_hoffset_dim { 3cm }
2 \dim_const:Nn \c__letgut_title_hoffset_dim {
3   -\c__letgut_hoffset_dim
4 }
5 \dim_const:Nn \c__letgut_subtitle_hoffset_dim {
6   \c__letgut_title_hoffset_dim
7 }
8 \dim_const:Nn \c__letgut_section_hoffset_dim {
9   \c__letgut_title_hoffset_dim + 1cm
10 }
11 \dim_const:Nn \c__letgut_subsection_hoffset_dim {
12   \c__letgut_title_hoffset_dim + 1.5cm
13 }
14 \dim_const:Nn \c__letgut_subsubsection_hoffset_dim {
15   \c__letgut_title_hoffset_dim + 2cm
16 }
17 \dim_const:Nn \c__letgut_paragraph_hoffset_dim {
18   \c__letgut_title_hoffset_dim + 2.5cm
19 }
20 \dim_const:Nn \c__letgut_subparagraph_hoffset_dim {
21   \c__letgut_title_hoffset_dim + 3cm
22 }
```
- Distance between the baseline of the header text and the decorative line :
 

```
1 \dim_const:Nn \c__letgut_head_rule_skip_dim { 0.115cm }
```
- Head rule width :
 

```
1 \dim_const:Nn \c__letgut_head_rule_width_dim { 0.03cm }
```
- Dimensions of the banner.
  - Thickness of the “L”.
 

```
1 \dim_const:Nn \c__letgut_banner_thickness_dim { 4cm }
```

— Height of the “L” (that of the text area plus 3cm).

```
1 \dim_const:Nn \c__letgut_banner_height_dim {
2   \c__letgut_textheight_dim
3   +
4   3cm
5 }
```

— Height of the membership reminder box.

```
1 \dim_new:N \g__letgut_membership_reminder_box_height_dim
```

— Horizontal space for the frontcover in the margin in book reviews.

```
1 \dim_const:Nn \c__letgut_bookreview_frontcover_margin_sep_dim {
2   4mm
3 }
```

— Dimensions used by the listings and the examples.

```
1 \dim_const:Nn \c__letgut_height_mentions_dim { 5mm }
2 \dim_const:Nn \c__letgut_from_left_boundingbox_to_text_dim { 5.5mm }
3 \dim_const:Nn \c__letgut_number_offset_dim { 1mm }
4 \dim_const:Nn \c__letgut_number_sep_dim {
5   \c__letgut_from_left_boundingbox_to_text_dim
6   +
7   \c__letgut_number_offset_dim
8 }
```

### Skips (lengths with rubber components)

The following skips, borrowed from the standard classes, are specified in ex unit, which depends on the font used and hence have to be specified after the class has been loaded; in fact, we postpone this at the end of the preamble, when the font is specified (thanks to `\setmainfont`).

```
1 \AddToHook{begindocument/before}{%
```

Before and after :

— “titles titles” :

```
1 \skip_const:Nn \c__letgut_before_title_title_skip
2 {
3   3.5ex plus 1ex minus .2ex
4 }
5 \skip_const:Nn \c__letgut_after_title_title_skip
6 {
7   2.3ex plus .2ex
8 }
```

— subtitles titles :

```
1 \skip_const:Nn \c__letgut_before_subtitle_title_skip
2 {
3   \c__letgut_before_title_title_skip
4 }
5 \skip_const:Nn \c__letgut_after_subtitle_title_skip
6 {
7   \c__letgut_after_title_title_skip
8 }
```

— sections titles :



```

1  \skip_const:Nn \c__letgut_before_section_title_skip
2  {
3    3.25ex plus 1ex minus .2ex
4  }
5  \skip_const:Nn \c__letgut_after_section_title_skip
6  {
7    1.5ex plus .2ex
8  }
— subsections titles (identical to the sections ones) :
1  \skip_const:Nn \c__letgut_before_subsection_title_skip
2  {
3    \c__letgut_before_section_title_skip
4  }
5  \skip_const:Nn \c__letgut_after_subsection_title_skip
6  {
7    \c__letgut_after_section_title_skip
8  }
— paragraphs titles :
1  \skip_const:Nn \c__letgut_before_subsubsection_title_skip
2  {
3    1.5ex plus .5ex minus .2ex
4  }
5  \skip_const:Nn \c__letgut_after_subsubsection_title_skip
6  {
7    0.75ex plus 0.1ex
8  }
— paragraphs titles (identical to the subsubsection ones) :
1  \skip_const:Nn \c__letgut_before_paragraph_title_skip
2  {
3    \c__letgut_before_subsubsection_title_skip
4  }
5  \skip_const:Nn \c__letgut_after_paragraph_title_skip
6  {
7    \c__letgut_after_subsubsection_title_skip
8  }
— subparagraphs titles (identical to the paragraph ones) :
1  \skip_const:Nn \c__letgut_before_subparagraph_title_skip
2  {
3    \c__letgut_before_paragraph_title_skip
4  }
5  \skip_const:Nn \c__letgut_after_subparagraph_title_skip
6  {
7    \c__letgut_after_paragraph_title_skip
8  }

```

We close the `\AddToHook{begindocument/before}` argument.

```
1  }
```

### Integers

```
1  \int_new:N \g__letgut_ltx_example_int
```

**Strings**

```

1 \str_new:N \g__letgut_label_ltx_example_str
2 \str_new:N \g__letgut_callout_label_ltx_example_str
3 \str_const:Nn \c__letgut_label_ltx_example_str {
4   __letgut_label_ltx_example
5 }
6 \str_const:Nn \c__letgut_callout_label_ltx_example_str {
7   __letgut_callout_label_ltx_example
8 }

```

**Token lists**

## 1. Constant ones

```

1 \tl_const:Nn \c__letgut_online_issn_tl {
2   2742-6149~ (version~ numérique)
3 }
4 \tl_const:Nn \c__letgut_paper_issn_tl {
5   -12572217~ (version~ papier)
6 }
7 \tl_const:Nn \c__letgut_cahier_tl { \emph{ Cahier } }
8 \tl_const:Nn \c__letgut_cahiers_tl {
9   \c__letgut_cahier_tl \emph{ s }
10 }
11 \tl_const:Nn \c__letgut_gnu_linux_tl { \software{GNU/Linux} }
12 \tl_const:Nn \c__letgut_macOS_tl { \software{macOS} }
13 \tl_const:Nn \c__letgut_windows_tl { \software{Windows} }
14 \tl_const:Nn \c__letgut_package_tl { package }
15 \tl_const:Nn \c__letgut_class_tl { classe }
16 \tl_const:Nn \c__letgut_file_tl { fichier }
17 \tl_const:Nn \c__letgut_software_tl { logiciel }
18 \tl_const:Nn \c__letgut_tugboat_tl { \emph{ TUGboat } }
19 \tl_const:Nn \c__letgut_tex_live_tl {
20   \hologo{ TeX } \nobreakspace Live
21 }
22 \tl_const:Nn \c__letgut_banner_file_tl { bandeau }
23 \tl_const:Nn \c__letgut_editorial_file_tl { editorial }
24 \tl_const:Nn \c__letgut_informations_gutenberg_file_tl {
25   informations-gut
26 }
27 \tl_const:Nn \c__letgut_acronyms_file_tl { letgut-acronyms }
28 \tl_const:Nn \c__letgut_local_config_file_tl { localconf }
29 \tl_const:Nn \c__letgut_pre_documentclass_file_tl {
30   pre-documentclass }
31 \tl_const:Nn \c__letgut_lstlanguage_file_tl { letgut-lstlang.sty }
32 \tl_const:Nn \c__letgut_contents_name_tl { Sommaire }
33 \tl_const:Nn \c__letgut_draftwatermark_text_tl {
34   \textnormal{Brouillon}
35 }
36 \tl_const:Nn \c__letgut_membership_reminder_tl {
37   {\LARGE
38     \bfseries
39     Avez-vous~ pensé~ à~ régler~ votre~ cotisation~ ?
40     % \theyear~ ?

```

```

40     \par
41     \medskip
42   }
43   Si~ vous~ avez~ oublié,~ ce~ n'est~ ni~ trop~ tard~
44   ni~ difficile~ :
45   \par
46   \url{https://www.gutenberg-asso.fr/?Adherer-en-ligne}
47   \bool_if:NT \g__letgut_informations_bool {
48     \file_if_exist:nT
49     {./\c__letgut_informations_gutenberg_file_tl}{
50       \par
51       Voir~ aussi~ page~ \pageref{letgut_label_adhesions}.
52     }
53   }
54 }
55 \tl_const:Nn \c__letgut_missing_editorial_tl {
56   Ne~ pas~ omettre~ l'éditorial~ !\(\à~ faire~ figurer~
57   dans~ un~ \file*{\c__letgut_editorial_file_tl.tex}~
58   dans~ le~ dossier~ courant)
59 }
60 \tl_const:Nn \c__letgut_missing_infomations_tl {
61   Ne~ pas~ omettre~ les~ informations~ sur~
62   \c__letgut_gutenberg_tl{ }~ !\(\dans~ un~
63   \file*{\c__letgut_informations_gutenberg_file_tl.tex}~
64   situé~ soit~ dans~ le~ dossier~ courant, soit~ dans~ le~
65   dossier~ parent)
66 }
67 \tl_const:Nn \c__letgut_default_alert_box_color_tl {
68   gray9
69 }
70 \tl_const:Nn \c__letgut_default_allcolors_links_color_tl
71 {
72   teal!60!black
73 }

```

## 2. Variables ones

```

1  \tl_new:N \g__letgut_mark_tl
2  \tl_new:N \g__letgut_title_tl
3  \tl_new:N \l_letgut_last_name_tl
4  \tl_new:N \l_letgut_first_name_tl
5  \tl_new:N \l_letgut_title_tl
6  \tl_new:N \l__letgut_title_addon_tl
7  \tl_new:N \l__letgut_reference_text_tl
8  \tl_new:N \g__letgut_effective_acronyms_file_tl
9  \tl_new:N \l__letgut_toc_title_announce_tl
10 \tl_new:N \l__letgut_toc_color_announce_tl

```

## Comma separated lists

```

1  \clist_new:N \g__letgut_pagecolor_clist
2  \clist_const:Nn \c__letgut_default_pagecolor_screen_clist
3  {1.0, 0.98, 0.94}
4  \clist_const:Nn \c__letgut_default_pagecolor_paper_clist
5  {1, 1, 1}

```

## Sequences

```

1 \seq_new:N \l__letgut_first_last_names_items_seq
2 \seq_new:N \g__letgut_included_files_seq
3 \seq_new:N \g__letgut_added_bib_resources_seq

```

## Class options

We define the 2 load time options for the target audience :

- for-readers (the default), for the “normal” “Lettre”,
- for-authors, (only) the author(s) of an article of the “Lettre”.

## Date handling

```

1 \int_new:N \g__letgut_date_month_int
2 \int_new:N \g__letgut_date_year_int
3
4 \int_gset:Nn \g__letgut_date_month_int {\the\month}
5 \int_gset:Nn \g__letgut_date_year_int {\the\year}
6
7 \tl_new:N \g__letgut_date_month_tl
8 \tl_new:N \g__letgut_date_tl
9
10 \cs_new_protected:Npn \__letgut_date_parse:n #1
11 {
12   \__letgut_if_is_iso_date:nTF {#1}
13   {
14     \__letgut_date_parse:www #1 \q_stop
15   }{
16     \msg_term:nnn{letgut}{Not~month~iso~date}{#1}
17     \tl_gset:Nn \g__letgut_date_tl { #1 }
18   }
19 }
20
21 \prg_new_protected_conditional:Npnn
22 \__letgut_if_is_iso_date:n #1 { T, F, TF }
23 {
24   \regex_match:nnTF { ^\d{4}-(\d{1,2}) } {#1}
25   { \prg_return_true: }
26   { \prg_return_false: }
27 }
28
29 \prg_new_protected_conditional:Npnn
30 \__letgut_if_is_int:n #1 { T, F, TF }
31 {
32   \regex_match:nnTF { ^[\+|-]?[\d]+$ } {#1}
33   { \prg_return_true: }
34   { \prg_return_false: }
35 }
36
37 \cs_new_protected:Npn \__letgut_month_name:n #1
38 {
39   % \text_titlecase_first:n {

```

```

40     \int_case:nnF
41     { #1 }
42     {
43         { 1 }{ janvier }
44         { 2 }{ février }
45         { 3 }{ mars }
46         { 4 }{ avril }
47         { 5 }{ mai }
48         { 6 }{ juin }
49         { 7 }{ juillet }
50         { 8 }{ août }
51         { 9 }{ septembre }
52         { 10 }{ octobre }
53         { 11 }{ novembre }
54         { 12 }{ décembre }
55     }
56     { Month~ Error! }
57     % }
58 }
59
60 \cs_new_protected:Npn \__letgut_date_parse:www #1-#2
61 \q_stop
62 {
63     \int_compare:nTF
64     {
65         \the\year <= #1 <= \the\year+1
66     }{
67         \int_gset:Nn \g__letgut_date_year_int {#1}
68     }{
69         \int_gset:Nn \g__letgut_date_year_int {\the\year}
70     }
71     \__letgut_if_is_int:nTF {#2}
72     {
73         \int_compare:nTF
74         {
75             1 <= #2 <= 12
76         }
77         {
78             \int_gset:Nn \g__letgut_date_month_int {#2}}
79         {
80             \int_gset:Nn \g__letgut_date_month_int {\the\month}}
81     }{
82         \int_gset:Nn \g__letgut_date_month_int {\the\month}
83     }
84     \tl_gset:Nn \g__letgut_date_month_tl {
85         \__letgut_month_name:n { \g__letgut_date_month_int }
86     }
87     \tl_gset:Nn \g__letgut_date_tl {
88         \tl_use:N \g__letgut_date_month_tl
89         \c_space_tl
90         \int_use:N \g__letgut_date_year_int
91     }
92 }
93 }

```

## Class and package loading

The class `letgut` is based on the `article` class. It is by default two sided because of the alternating headers, and will be typeset with 11pt as global font size.

```
1 \LoadClass[twoside, 11pt]{article}
```

We now load some packages.

— The class `letgut` will have to be used with LuaLaTeX. Hence the font selection package for XeLaTeX and LuaLaTeX.

```
1 \RequirePackage{fontspec}
```

— For subliminal refinements towards typographical perfection.

```
1 \RequirePackage[
2   , stretch=30
3   , shrink=25
4   , letterspace=150
5 ]{microtype}
```

— Help in implementing paragraph layouts where the paragraphs are separated by a vertical space instead of (or in addition to) indenting them.

```
1 \RequirePackage{parskip}
```

— Extensive control of page headers and footers in  $\text{\LaTeX} 2_{\epsilon}$ .

```
1 \RequirePackage{fancyhdr}
```

— Flexible and complete interface to document dimensions.

```
1 \RequirePackage[a4paper]{geometry}
```

— Enhanced support for graphics.

```
1 \RequirePackage{graphicx}
```

— Biolinum font.

```
1 \RequirePackage{biolinum}
```

— Extending the array and tabular environments.

```
1 \RequirePackage{array}
```

— Completely customisable TOCs.

```
1 \RequirePackage{etoc}
```

— Control layout of itemize, enumerate, description, and design our own lists.

```
1 \RequirePackage{enumitem}
```

— Select alternative section titles.

```
1 \RequirePackage{titlesec}
```

— Driver-independent color extensions.

```
1 \RequirePackage[table]{xcolor}
```

— Several logos and ornaments.

```
1 \RequirePackage{fourier-orns}
```

— Drawing of Vectorian ornaments.

```
1 \RequirePackage{pgfornament}
```

— Control float placement.

```
1 \RequirePackage[section, above]{placeins}
```

— Sophisticated verbatim text.

```
1 \RequirePackage{fancyvrb}
```

— Publication quality tables in  $\text{\LaTeX}$ .

```
1 \RequirePackage{booktabs}
```

— Context sensitive quotation facilities.

```
1 \RequirePackage{csquotes}
```

— Mathematical tools to use with (and which loads) `amsmath`.

```
1 \RequirePackage[fleqn]{mathtools}
```

— Better accessibility support for PDF files. This package is used because we want the material added to the background (banner on the first page and draft watermark) to be not selectable in order to let the reader who wants to copy the interesting text be able to select it.

```
1 \RequirePackage{accsupp}
```

— A comprehensive (SI) units package.

```
1 \RequirePackage{siunitx}
```

— Additional T<sub>E</sub>X-family logos (which loads and extends `hologo` which is collection of logos with bookmark support).

```
1 \RequirePackage{bxtexlogo}
```

— Coloured boxes, for L<sup>A</sup>T<sub>E</sub>X examples and theorems, etc.

```
1 \RequirePackage{tcolorbox}
```

— Compile T<sub>E</sub>X code stand-alone or as part of a document.

```
1 \RequirePackage[group=false, subpreambles, sort]{standalone}
```

— Attach arbitrary files to a PDF document.

```
1 \RequirePackage[icon=Paperclip]{attachfile2}
```

— Expandable macros to extract the data from references and allow counter assignments or calculations.

```
1 \RequirePackage{refcount}
```

— Select colors with proper WCAG color contrast.

```
1 \RequirePackage{ninecolors}
```

— Typeset tabulars and arrays with LaTeX3 (for the alert boxes typeset as simple tabulars).

```
1 \RequirePackage{tabulararray}
```

— Multilingual support for Plain T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X.

```
1 \RequirePackage[english, french]{babel}
```

— Intelligent page references.

```
1 \RequirePackage[nospace, french]{varioref}
```

— Macros for Euro sign.

```
1 \RequirePackage[right]{eurosym}
```

— Typeset source code listings using L<sup>A</sup>T<sub>E</sub>X.

```
1 \RequirePackage{listings}
```

— Modifying the layout of floats.

```
1 \RequirePackage{floatrow}
```

— Sophisticated Bibliographies in L<sup>A</sup>T<sub>E</sub>X.

```
1 \RequirePackage[
2   sorting=none,
3   datamodel=letgut,
4   citestyle=letgut
5 ]{biblatex}
```

— Typeset acronyms.

```
1 \RequirePackage{acro}
```

— Allow URL breaks at any alphanumerical character.

```
1 \RequirePackage{xurl}
```

The following packages have to be the last ones loaded. So we ensure this by loading them just before the beginning of the document :

```
1 \AddToHook{begindocument/before}{
    — Extensive support for hypertext in LATEX
1   \RequirePackage{hyperref}
    — Adjusting the anchors of captions
1   \RequirePackage[all]{hycap}
    — Intelligent cross-referencing
1   \RequirePackage[french]{cleveref}
```

We close the `\AddToHook{begindocument/before}` argument.

```
1 }
```

### Settings for the loaded packages

— We switch to the French typographic conventions for `siunitx`.

```
1 \sisetup{
2   , locale=FR
3   , mode=match
4 }
```

— Concerning floats, we ask :

- the caption text will be justified,
- the figures and their captions to be boxed (in order to distinguish them from the current text),
- the tables to have their captions above them.

```
1 \DeclareMarginSet{hangleft}{
2   \setfloatmargins{\hskip-\c__letgut_hoffset_dim}{\hfil}
3 }
4 \DeclareFloatVCode{__letgut_ruleabove}{
5   \par\rule{\hsize}{.8pt}\vskip4pt\par
6 }
7 \DeclareFloatVCode{__letgut_rulebelow}{
8   \par\vskip2pt\rule{\hsize}{.8pt}\par
9 }
10 \DeclareFloatStyle{__letgut_ruled}{
11   precode=__letgut_ruleabove,
12   postcode=__letgut_rulebelow,
13   % heightadjust=all,
14   floatwidth=.8\linewidth
15 }
16 \floatsetup{objectset=justified}
17 \floatsetup[figure]{
18   style=__letgut_ruled,
19   margins=hangleft,
20   capposition=beside,
21   capbesideposition={top,left},
22   floatwidth=0.85\textwidth
23 }
24 \floatsetup[table]{capposition=top}
```

Moreover, the tables will be entitled « tableau » instead of « table ».



```

1 \renewcommand*\frenchtablename{Tableau}
— We load a tabularray’s library.
1 \UseTblrLibrary{booktabs}
— The \printbibliography command is redefined in order its heading is by
  default set to subbibliography.
1 \NewCommandCopy{\_letgut_old_printbibliography}{
2 \printbibliography
3 }
4 \RenewDocumentCommand {\printbibliography} { 0{} } {
5 \phantomsection
6 \_letgut_old_printbibliography[#1]
7 \bool_if:NT \g__letgut_included_files_attached_bool {
8 \seq_map_inline:Nn \g__letgut_added_bib_resources_seq {
9 \seq_gput_right:Nn \g__letgut_included_files_seq {#1}}
10 }

```

For printing the bibliography, we define two new bibheadings for the structure levels `\title` and `\subtitle`.

```

1 \defbibheading{title}{\refname}{%
2 \title{#1}}
3 \defbibheading{subtitle}{\refname}{%
4 \subtitle{#1}}

```

— The acronyms will be typeset in its short form, with small caps shape. When they are (English) foreign, it will be specified and the translation will be added.

```

1 \acsetup{
2 first-style=short,
3 format/short = {\scshape},
4 format/foreign = {\em},
5 foreign/display,
6 locale/format = {\upshape},
7 locale/display,
8 make-links = true,
9 link-only-first = true
10 }

```

We currently have to work around an acro bug (see <https://tex.stackexchange.com/q/661966/18401>).

```

1 \AddToHook{cmd/printacronyms/before}{\bool_set_false:N
  \l__acro_link_only_first_bool}

```

In case the long form of an acronym is explicited in footnote, we want this footnot to be ended with a period.

```

1 \ProvideDocumentCommand \acroendfootnote {} {.}

```

The following settings for packages that have to be the last ones loaded are also done just before the begining of the document.

— (Temporary?) workaround that moves ‘standalone’ code in hook ‘begindocument’ to ‘begindocument/before’ in order to get rid of the issue <https://tex.stackexchange.com/q/670638/18401>.

```

1 \RemoveFromHook{begindocument}[standalone]
2 \ExpandArgs{nv}\AddToHook{begindocument/before}{\l__hook_return_t1}
1 \AddToHook{begindocument/before}{

```

— We want the hyperlinks to be as unobtrusive as possible.

```

1 \bool_if:NTF \g__letgut_paper_bool {
2   \hypersetup{hidelinks}
3 }{
4   \hypersetup{%
5     colorlinks,%
6     allcolors={letgut_allcolors_links},%
7   }%
8 }

```

A preset of acronyms is input (if found, firstly in the current directory, secondly in the parent directory, thirdly in the TDS).

```

1 \file_if_exist:nTF {./\c__letgut_acronyms_file_tl}{
2   \tl_gset:Nn \g__letgut_effective_acronyms_file_tl {./
3     \c__letgut_acronyms_file_tl}
4 }{
5   \file_if_exist:nTF {../\c__letgut_acronyms_file_tl}{
6     \tl_gset:Nn \g__letgut_effective_acronyms_file_tl {../
7       \c__letgut_acronyms_file_tl}
8   }{
9     \file_if_exist:nT {\c__letgut_acronyms_file_tl}{
10      \tl_gset:Nn \g__letgut_effective_acronyms_file_tl {
11        \c__letgut_acronyms_file_tl}
12    }
13  }
14 }
15 \input {\g__letgut_effective_acronyms_file_tl}

```

— Depending on some chosen class options, some packages have to be loaded, notably before package `hyperref` is loaded, and actions are taken accordingly.

— If the ‘draft’ mode (default) is on, we load the package `lua-typo` which highlights typographical flaws with LuaLaTeX. For the moment,

the package `lua-typo` isn’t loaded since the ‘`luacolor`’ package it loads currently does not work well in `shipout/background` (see <https://github.com/ho-tex/luacolor/issues/4>).

```

1 % % \bool_if:NF \g__letgut_paper_bool {
2 \bool_if:NT \g__letgut_draft_bool {
3   % \RequirePackage[All]{lua-typo}
4   \AddToHook{shipout/background}
5   {
6     \__letgut_unselectable:n {
7       \put(0.5\paperwidth,-0.5\paperheight)
8       {
9         \Huge

```

Currently, we can’t use `l3color`’s `\color_fill:n` (see <https://github.com/ho-tex/luacolor/issues/4#issuecomment-848774260>) and we have to rely on `xcolor`’s `\color`.

```

1 % \color_fill:n {black!10}
2 \color{black!10}
3 \hbox_set:Nn \l__letgut_tmpa_box {
4   \fontsize{0.25\paperwidth}{0.3\paperwidth}
5   \selectfont

```

```

6     \c__letgut_draftwatermark_text_tl
7   }
8   \hbox_set:Nn \l__letgut_tmpb_box {
9     \hbox_overlap_center:n {
10      \box_use:N \l__letgut_tmpa_box
11    }
12  }

```

The draft watermak is rotated in order to be parallely slanted to the first diagonal of the page (angle = arctan(paper height/paper width)).

```

1   \box_rotate:Nn \l__letgut_tmpb_box {
2     \fp_eval:n {
3       atand (
4         \dim_to_fp:n {\paperheight}
5         /
6         \dim_to_fp:n {\paperwidth}
7       )
8     }
9   }
10  \box_use:N \l__letgut_tmpb_box
11  }
12  }
13  }

```

Moreover, we want all the overfull boxes to be shown (as with draft option of the standard classes).

```

1   \setlength\overfullrule{5pt}
2   }
3   % % }

```

We close the `\AddToHook{begindocument/before}` argument.

```

1   }

```

## Page color default settings

By default, the page color will be the one linked to the screen option.

```

1   \pagecolor[rgb]{\c__letgut_default_pagecolor_screen_clist}
2   \clist_set_eq:NN \g__letgut_pagecolor_clist
3   \c__letgut_default_pagecolor_screen_clist

```

## Options

We now define the options of the class :

- `for-readers~/~/for-authors`, depending on the target audience,
- `draft~/~/final` depending on the state of the document,
- `paper~/~/screen` depending on the way the document will be read,
- `number` for the number of the issue,
- `date` for the date of the issue, either empty (hence the current (month) date) or at the format `YYYY-MM` or as free input,
- `pagecolor` (relevant only with the (default) screen load time option) for a color of the page other than the default one (used behind the scene by the `letgut-banner` package),

- watermark `letter` for another letter than the “g” in watermark,
- watermark `scale` for the case the letter in watermark is too big,
- `allcolorlinks` for the color of (all) the links,
- `membership-reminder` that typesets a membership reminder on the first page,
- editorial depending on the editorial is wanted or not,
- informations depending on the GUTenberg informations are wanted or not,
- `detailedtoc` depending on the automatic ToC is wanted maximally (until subparagraphs) detailed or not.

```

1 \keys_define:nn { letgut }
2 {
3   , for-readers .bool_gset:N = \g__letgut_for_readers_bool
4   , for-readers .initial:n = { true }
5   , for-authors .bool_gset_inverse:N = \g__letgut_for_readers_bool
6   , draft .bool_gset:N = \g__letgut_draft_bool
7   , draft .initial:n = { true }
8   , draft .default:n = { true }
9   , final .bool_gset_inverse:N = \g__letgut_draft_bool
10  , paper .code:n = {
11    \bool_gset_true:N \g__letgut_paper_bool
12    \pagecolor[rgb]{\c__letgut_default_pagecolor_paper_clist}
13    \clist_set_eq:NN \g__letgut_pagecolor_clist
14      \c__letgut_default_pagecolor_paper_clist
15  }
16  , screen .code:n = {
17    \bool_gset_false:N \g__letgut_paper_bool
18  }
19  , number .int_gset:N = \g__letgut_number_int
20  , date .code:n = { \__letgut_date_parse:n { #1 } }
21  , date .initial:x = {\the\year-\the\month}
22  , pagecolor .initial:V
23    = \c__letgut_default_pagecolor_screen_clist
24  , pagecolor .code:n = {
25    \definecolor{letgut_pagecolor}{rgb}{#1}
26    \AddToHook{begindocument/before}
27    {
28      \bool_if:NTF \g__letgut_paper_bool {
29        \msg_warning:nnn{letgut}{
30          pagecolor~inoperative~with~paper~option
31        }{#1}
32      }{
33        \clist_gset:Nn \g__letgut_pagecolor_clist { #1 }
34        \pagecolor[rgb]{#1}
35      }
36    }
37  }
38  , watermark~ letter .tl_gset:N = \g__letgut_watermark_letter_tl
39  , watermark~ letter .initial:n = g
40  , watermark~ scale .tl_gset:N = \g__letgut_watermark_scale_tl
41  , watermark~ scale .initial:n = 1
42  , allcolorlinks .code:n = {
43    \colorlet{letgut_allcolors_links}{#1}}

```

```

44     , allcolorslinks .initial:V
45     = \c__letgut_default_allcolors_links_color_tl
46     , membership-reminder .bool_gset:N
47     = \g__letgut_membership_reminder_bool
48     , membership-reminder .initial:n = { true }
49     , editorial .bool_gset:N = \g__letgut_editorial_bool
50     , editorial .initial:n = { true }
51     , informations .bool_gset:N = \g__letgut_informations_bool
52     , informations .initial:n = { true }
53     , detailedtoc .str_gset:N = \g__letgut_detailedtoc_level_str
54     , detailedtoc .default:n = 5
55     , detailedtoc .initial:n = 0
56     , reverse-files-attachement .code:n = {
57     \AddToHook{begindocument/before}{
58     \bool_lazy_and:nnTF {\g__letgut_for_readers_bool} {!
59     \g__letgut_paper_bool}
60     {
61     \bool_gset_false:N \g__letgut_included_files_attached_bool
62     }{
63     \bool_gset_true:N \g__letgut_included_files_attached_bool
64     }
65     }
66     }
67 \ProcessKeyOptions[ letgut ]
68 \AddToHook{begindocument/before}{
69 \bool_lazy_and:nnTF {\g__letgut_for_readers_bool} {!
70 \g__letgut_paper_bool}
71 {
72 \bool_gset_true:N \g__letgut_included_files_attached_bool
73 }{
74 \bool_gset_false:N \g__letgut_included_files_attached_bool
75 }
76 }
77
78 1 \definecolor{letgut_pagecolor}{rgb}{\g__letgut_pagecolor_clist}

```

## Headers

We now define the headers.

- The distance between the baseline of the header text and the decorative line in the header is made a little bit bigger.

```

1 \renewcommand{\headruleskip}{
2   \c__letgut_head_rule_skip_dim
3 }

```

- The decorative line width in the header is made a little bit bigger.

```

1 \renewcommand{\headrulewidth}{
2   \c__letgut_head_rule_width_dim
3 }

```

- The headers alternate between even and odd pages.

```

1 \fancyhf{}
2 \fancyhead[RO,LE]{\thepage}
3 \fancyhead[RE,LO]{\scshape \g__letgut_mark_tl}
— The headers are left offset
1 \fancyheadoffset[L]{\c__letgut_hoffset_dim}
— We load the default fancyhdr’s page style
1 \pagestyle{fancy}

```

### Marginal notes

We want the marginal notes to be in the left margin.

```
1 \reversemarginpar
```

### Table of contents

The table of contents is customized :

— layout :

```

1 \etocsetstyle {section}
2 {}
3 {\leavevmode\leftskip 2.5cm\relax}
4 {\mdseries\small%
5 \etocname~\dotfill~\etocpage\par
6 }
7 {}
8 \etocsetstyle {subsection}
9 {}
10 {\leavevmode\leftskip 3cm\relax}
11 {\mdseries\footnotesize%
12 \etocname~\dotfill~\etocpage\par
13 }
14 {}
15 \etocsetstyle {subsubsection}
16 {}
17 {\leavevmode\leftskip 3.5cm\relax}
18 {\mdseries\scriptsize%
19 \etocname~\dotfill~\etocpage\par
20 }
21 {}
22 \etocsetstyle {paragraph}
23 {}
24 {\leavevmode\leftskip 4cm\relax}
25 {\mdseries\tiny%
26 \etocname~\dotfill~\etocpage\par
27 }
28 {}
29 \etocsetstyle {subparagraph}
30 {}
31 {\leavevmode\leftskip 4.5cm\relax}
32 {\mdseries\tiny%
33 \etocname~\dotfill~\etocpage\par
34 }
35 {}

```

— its title is dropped :

```
1 \renewcommand*\frenchcontentsname{}
```

### Geometry of the document

```
1 \geometry{
2   asymmetric,
3   textheight=\c__letgut_textheight_dim,
4   textwidth=\c__letgut_textwidth_dim,
5   lmargin=\c__letgut_lmargin_dim,
6   tmargin=\c__letgut_tmargin_dim,
7   head=\c__letgut_head_dim,
8   headsep=\c__letgut_headsep_dim,
9   marginparwidth=\c__letgut_marginparwidth_dim,
10  % verbose,
11  % showframe
12 }
```

### Alert box

```
1 \cs_new_protected:Nn \__letgut_alert_box:nn
2 {
3   \noindent
4   \begin{tblr}{
5     width=\linewidth,
6     rowspec={Q[c,m,#1]},
7     colspec={|
1   >{\bfseries}X|
2     },
3     vlines,
4     hlines,
5     rowsep=2.5mm,
6     colsep=2.5mm
7   }
8   #2
9   \end{tblr}
10  \skip_vertical:N \c_zero_dim
11 }
```

### Announcements

```
1 \tcbset{
2   announce~ style/.style={
3     enhanced,
4     sharp~ corners,
5     boxrule=0mm,
6     leftrule=1cm,
7     bottomrule=1cm,
8     toptitle=20pt,
9     bottomtitle=20pt,
10    center~ title,
11    before~ title=\hypersetup{hidelinks},
12    fonttitle=\scshape\bfseries\huge,
13    fontupper=\Large,
```

```

14     fontlower=\Large,
15     skin=empty,
16     segmentation~ style=solid,
17     halign=center,
18     toc~ title/.store~ in=\l__letgut_toc_title_announce_tl,
19     color/.store~ in=\l__letgut_toc_color_announce_tl,
20   }
21 }
22 \cs_new_protected:Npn \__letgut_toc_title_announce:nn #1 #2
23 {
24   \tl_if_empty:NTF {#1}{
25     \phantomsection\addcontentsline{toc}{title}{#2}
26   }{
27     \tl_if_empty:NF {#2}{
28       \phantomsection\addcontentsline{toc}{title}{#1}
29     }
30   }
31 }
32 \NewTColorBox{announcement}{0}{m}
33 {
34   announce~ style,
35   title=#2,
36   borderline~ west={1cm}{0pt}{\l__letgut_toc_color_announce_tl},
37   phantom={\__letgut_toc_title_announce:nn {
38     \l__letgut_toc_title_announce_tl}{#2}},
39   overlay~ unbroken~ and~ first ={
40     \node[color=\l__letgut_toc_color_announce_tl]~ at~ ([yshift=8pt]
41       title.south)
42     {\pgfornament[width=0.4\linewidth]{88}};
43     \node[color=white,anchor=north~ west]~ at~ (frame.north~ west)
44     {\huge\bfseries\aldineright{}};
45   },
46   #1,
47   coltitle=\l__letgut_toc_color_announce_tl,
48 }

```

## Rebus

```

1 \int_new:N \g__letgut_rebus_int
2 \NewDocumentCommand{\solution}{}{\tcblower}
3 \NewDocumentCommand{\displaysolutions}{}{%
4   \tcbstoprecording\tcbinputrecords%
5 }
6 \tcbset{%
7   rebus~ style/.style={%
8     enhanced,
9     boxrule=0pt,
10    frame~hidden,
11    fonttitle=\normalfont\large\bfseries,
12    before~ title={\lefthand\c_space_tl},
13    halign=center,
14    title~ addon/.store~ in=\l__letgut_title_addon_tl,
15    after~ title={

```





```

67         précédente
68     }
69 }
70 },
71 phantomlabel={
72     \IfBooleanT{#1}{
73         solution@#2
74     }
75 },
76 #4
77 ]
78 \IfBooleanTF{#1}{
79     \file_if_exist_input:n {rebus-#2.tex}
80 }{
81     #2
82 }
83 \end{tcolorbox}
84 }{
85     \IfValueF{#3}{
86         \tcbstoprecording
87         \tcbinputrecords
88     }
89 }
90 }

```

### “Title” and marks

We redefine `\@title` in order to make it empty. Hence we can later test if the `\title` has been populated by the user (thanks to `\title`) and, if so, we will (automatically) display on the first page and headers the provided title instead of the number and the date (see below).

```
1 \tl_gclear:N \@title
```

At the end of preamble, we put the `\@title` (empty or populated by the user) into `\g__letgut_@title_str` for later tests.

```
1 \AddToHook{begindocument/before}
2 {
3     \str_set_eq:NN \g__letgut_@title_str \@title

```

The number is added only if it is

> 0.

```
1 \tl_gset:Nn \g__letgut_title_tl {
2     \int_compare:nNnT
3     \g__letgut_number_int
1     > \c_zero_int
2     {numéro~ \int_use:N\g__letgut_number_int{}~ --- }
3     \g__letgut_date_tl
4 }
5 \str_if_empty:NTF \g__letgut_@title_str {
6     \tl_gset:Nn \g__letgut_mark_tl {
7         \c__letgut_la_lettre_gutenberg_plain_tl
8     }
9 }{

```

```

10     \tl_gset:Nn \g__letgut_mark_tl {
11         \g__letgut_@title_str
12     }
13 }
14 \tl_gput_right:Nn \g__letgut_mark_tl {
15     ,~\g__letgut_title_tl
16 }
17 }

```

## First page handling

The first page is special as it should automatically contain certain elements :

- the banner,
- either the number and the date of the issue, or a given title,
- the table of contents,
- the editorial,
- the membership reminder.

The first page is inserted only if the target audience is the readers of the Lettre.

```

1 \AddToHook{begindocument/before}{
2     \bool_if:NT \g__letgut_for_readers_bool {
3     \file_if_exist:nTF {\c__letgut_banner_file_tl.pdf}{
4     \AddToHookNext{shipout/background}
5     {
6         \begin{picture}(0,0)
7             \put(-2cm,-25.275cm){
8                 \__letgut_orig_includegraphics*[scale=0.96]{
9                     \c__letgut_banner_file_tl.pdf
10                }
11            }
12        \end{picture}
13    }
14 }{

```

The pagecolor option is possibly set (with `\AddToHook{begindocument/before}`) and the page color chosen has to be used for the letters of the banner so the following code has to be postponed after the former (hence here `\AddToHook{begindocument}` and with `\AddToHook{begindocument/before}`).

```

1     \msg_term:n{letgut}{Banner~file~not~provided}
2     \RequirePackage[
3         , pagecolor = { \g__letgut_pagecolor_clist }
4         , watermark~ letter = { \g__letgut_watermark_letter_tl }
5         , watermark~ scale = { \g__letgut_watermark_scale_tl }
6     ]{letgut-banner}
7 }

```

Here starts what is automatically added at the beginning of the document.

```

1 \AddToHook{begindocument/end}
2 {

```

- If a membership reminder is asked, we create an (alert) box containing the corresponding text and reduce the text height of this page of the height of this box.

```

1  \bool_if:NT \g__letgut_membership_reminder_bool {
2    \box_new:N \g__letgut_membership_reminder_box
3    \vbox_gset:Nn \g__letgut_membership_reminder_box {
4      \alertbox []{ \c__letgut_membership_reminder_tl }
5    }
6    \dim_gset:Nn
7    \g__letgut_membership_reminder_box_height_dim {
8      \box_ht:N \g__letgut_membership_reminder_box
9    }
10   \enlargethispage{
11     - \g__letgut_membership_reminder_box_height_dim
12   }
13 }

```

— We want the text on the first page to not encroach on the horizontal bar of the banner.

```

1  \dim_const:Nn \c__letgut_first_page_shrink_dim {
2    \c__letgut_banner_thickness_dim
3    +
4    \c__letgut_tmargin_dim
5    +
6    \c__letgut_textheight_dim
7    -
8    .5\paperheight
9    -
10   .5\c__letgut_banner_height_dim
11 }
12 \enlargethispage{
13   - \c__letgut_first_page_shrink_dim
14 }
15 \enlargethispage{
16   - \baselineskip
17 }

```

— If the user has specified a title, we make a (our own) title and use it and the possibly provided author(s) for the metadata of the PDF; otherwise we display the number and the date of the newsletter.

```

1  \str_if_empty:NTF \g__letgut_@title_str {
2    \bool_gset_true:N \g__letgut_title_empty_bool
3    \begin{flushright}
4      \Huge
5      \text_titlecase_first:n { \g__letgut_title_tl }
6    \end{flushright}
7    \hypersetup{
8      pdftitle={
9        \c__letgut_Lettre_gutenberg_tl
10       \int_compare:nNnT
11       \g__letgut_number_int
12     }
13   }
14 }
15 }

```

```

6     pdfauthor={
7         Association~
8         \c__letgut_gutenberg_tl
9         \c_space_tl
10        (éditeur)
11    },
12    }
13    \vspace*{1cm}
14  }{
15    \hypersetup{
16      pdftitle={\g__letgut_@title_str}
17    }
18    \tl_if_empty:NF \@author {
19      \hypersetup{
20        pdfauthor={\@author}
21      }
22    }

```

Here, we insert the title, but don't rely on `\maketitle` because it lets to `\relax` the command `\title` which is used later as new sectioning levels for the titles of the articles of the Lettre. So we emulate the interesting part of the `\maketitle` command (borrowed from `article.cls`).

```

1  \null
2  \vskip 2em%
3  \begin{center}%
4    \let \footnote \thanks
5    {\LARGE \@title \par}%
6    \vskip 1.5em%
7    {\large
8      \lineskip .5em%
9      \begin{tabular}[t]{c}%
10         \@author
11        \end{tabular}\par}%
12    \vskip 1em%
13    {\large \@date}%
14  \end{center}%
15  \par
16  \vskip 1.5em
17  }

```

— No headers on the first page. This has to be inserted after the previous (customized) `\maketitle` since this command inserts a `\newpage` which would ruin the effort of `\thispagestyle{empty}` if inserted before.

```
1  \thispagestyle{empty}
```

— The table of contents is automatically added and has a bookmark entry. By default only the titles of the articles are shown (but the bookmarks have their natural depth) but the `detailedtoc` option make its depth until subparagraphs (which may be useful in order to check the structure of the Lettre).

```

1  \etocsetnexttocdepth{\g__letgut_detailedtoc_level_str}
2  \pdfbookmark[1]{
3    \c__letgut_contents_name_tl
4  }{
5    \c__letgut_contents_name_tl

```

```

6   }
7   \tableofcontents
8   \etocsetnexttocdepth{1}

Should a title be displayed, the table of contents would be added after it,
followed by a new page (otherwise, if \title used after \begin{document} sees
its title on the front page, it will overflow onto the banner).
1   \bool_if:NTF \g__letgut_title_empty_bool {
2     \vspace*{1.5cm}
3   }{
4     \newpage
5   }

```

— Conditionally to the fact the editorial option is not set to false : if the fichier `editorial.tex` of the editorial is found, its content is input and has a bookmark entry; otherwise, a warning is displayed.

```

1   \bool_if:NTF \g__letgut_editorial_bool {
2     \file_if_exist:nTF {./\c__letgut_editorial_file_tl}{
3       \RenewDocumentCommand\author{ s m } {
4         \__letgut_author:nn { #1 } {#2}
5       }
6       \pdfbookmark[1]{Éditorial}{
7         \c__letgut_editorial_file_tl
8       }
9       \inputarticle{./\c__letgut_editorial_file_tl}

1   % \if\count{\pagenumber}>1
2   % \else
3   % \newpage
4   % \fi
5   }{
6     \msg_warning:nn{letgut}{Editorial~file~missing}
7     \alertbox{ \c__letgut_missing_editorial_tl }
8     \newpage
9   }
10  }{
11  % \newpage
12  }

```

We close the `\AddToHook{begindocument/end}` argument.

```

1   }

Membership reminder.
1   \AddToHook{begindocument}{
2     \bool_if:NT \g__letgut_membership_reminder_bool {
3       \AddToHookNext{shipout/background}
4       {
5         \put(1in,-1in){
6           \put(
7             \oddsidemargin,
8             - \topmargin
9             - \headheight
10            - \headsep
11            - \textheight
12            + \c__letgut_first_page_shrink_dim

```

```

13         + .5\baselineskip
14     ){\
15         \box_use:N \g__letgut_membership_reminder_box
16     }
17 }
18 }
19 }
20 }

```

## Last page handling

The last pages are special : they should automatically contain some informations about GUTenberg.

```

1 \AddToHook{enddocument}
2 {
3     % \clearpage
4     % \printacronyms[heading=title,display=used]

```

Conditionally to the fact the informations option is not set to false : if the fichier informations-gut.tex which contains the informations about GUTenberg is found (firstly in the current directory, secondly in the parent directory, thirdly in the TDS). Otherwise, a warning is displayed.

```

1 \bool_if:NT \g__letgut_informations_bool {
2     \clearpage
3     \phantomsection
4     \file_if_exist:nTF {./\c__letgut_informations_gutenberg_file_tl}{
5         \inputarticle*{
6             ./\c__letgut_informations_gutenberg_file_tl
7         }
8     }{
9         \file_if_exist:nTF {../\c__letgut_informations_gutenberg_file_tl}{
10            \inputarticle*{
11                ../\c__letgut_informations_gutenberg_file_tl
12            }
13        }{
14            \file_if_exist:nTF {\c__letgut_informations_gutenberg_file_tl}{
15                \inputarticle*{
16                    \c__letgut_informations_gutenberg_file_tl
17                }
18            }{
19                \msg_warning:nn{letgut}{Informations~file~missing}
20                \alertbox{ \c__letgut_missing_infomations_tl }
21            }
22        }
23    }
24 }

```

We close the `\AddToHook{enddocument}` argument.

```

1 }

```

We close the boolean which tests whether the target audience is the readers or the author(s) of the “Lettre”.

```

1 }
2 }

```

## Sections, subsections, etc.

### Numbering

We want all the sections to be unnumbered.

```

1 \setcounter{secnumdepth}{-10}

```

### Format

When used in titles, `\hologo` needs to be protected. In order to not bother the user with this peculiarity, we make this the default for it.

```

1 % \AddToHook{cmd/hologo/before}{\protect}
2 \NewCommandCopy{\_letgut_old_hologo}{\hologo}
3 \RenewDocumentCommand {\hologo} { m }{
4   \protect\_letgut_old_hologo { #1 }
5 }

```

We want the `hologo's` `\hologo` command to have its mandatory argument not uppercased in the context of `\text_uppercase:n` (as in titles, cf. just below).

```

1 \tl_put_right:Nn \l_text_case_exclude_arg_tl { \hologo }
2 % \tl_put_right:Nn \l_text_case_exclude_arg_tl { \ac }
3 % \tl_put_right:Nn \l_text_case_exclude_arg_tl { \acs }
4 % \tl_put_right:Nn \l_text_case_exclude_arg_tl { \acl }
5 % \tl_put_right:Nn \l_text_case_exclude_arg_tl { \acf }

```

— We create the new level `\title` for the titles of the articles. They are displayed uppercased.

```

1 \AddToHook{begindocument/before}{%
2   \titleclass{\title}{straight}[\part]
3   \titleformat{\title}{
4     \normalfont
5     \LARGE
6     \bfseries
7   }{}{1em}{
8     \aldineleft\c_space_tl\text_uppercase:n
9   }
10  \etocsetlevel{title}{0}
11  \def\toclevel@title{0}%
12  \etocsetstyle {title}
13  {}
14  {
15    \leavevmode\leftskip 2cm\relax
16  }
17  {
18    \bool_lazy_or:nnTF {
19      \str_if_eq_p:Vn \g__letgut_detailedtoc_level_str { 0 }
20    }{
21      \str_if_eq_p:Vn \g__letgut_detailedtoc_level_str { title }
22    }
23    {
24      \mdseries
25    }{

```



```

26     \bfseries
27   }
28   \normalsize
29   \etocname
30   \nobreak\leaders\hbox~ to~ 1ex{\hss.}\hfill
31   \etocpage
32   \par
33 }
34 {}

```

- We also create the new level `\subtitle` for the subtitles of the articles. They are displayed uppercased (but in a smaller size than `\title`).

```

1  \titleclass{\subtitle}{straight}[\title]
2  \titleformat{\subtitle}{
3    \normalfont
4    \Large
5    \bfseries
6    \text_uppercase:n
7  }{}{1em}{}{}
8  \etocsetlevel{subtitle}{1}
9  \def\toclevel@subtitle{1}%
10 \def\toclevel@subtitle{1}

```

- By default (that is when `\subtitle` is not used), the toc levels of the sections, subsections, etc. are set to 1, 2, etc. But, when `\subtitle` is used, since this level has toc level 1, the toc levels of the sections, subsections, etc. have to be set to 2, 3, etc. And this has to be reset each time `\title` and `\subtitle` are used.

```

1  \AddToHook{cmd/title/before}{
2    \etocsetlevel{section}{1}
3    \def\toclevel@section{1}%
4    \etocsetlevel{subsection}{2}
5    \def\toclevel@subsection{2}%
6    \etocsetlevel{subsubsection}{3}
7    \def\toclevel@subsubsection{3}%
8    \etocsetlevel{paragraph}{4}
9    \def\toclevel@paragraph{4}%
10   \etocsetlevel{subparagraph}{5}
11   \def\toclevel@subparagraph{5}%
12 }
13 \AddToHook{cmd/subtitle/before}{
14   \etocsetlevel{section}{2}
15   \def\toclevel@section{2}%
16   \etocsetlevel{subsection}{3}
17   \def\toclevel@subsection{3}%
18   \etocsetlevel{subsubsection}{4}
19   \def\toclevel@subsubsection{4}%
20   \etocsetlevel{paragraph}{5}
21   \def\toclevel@paragraph{5}%
22   \etocsetlevel{subparagraph}{6}
23   \def\toclevel@subparagraph{6}%
24 }

```

— The (sub)paragraphs have the usual format, except that they are not “runin” (titlesec’s package’s terminology).

```

1  \titleformat{\paragraph}{
2  \normalfont
3  \normalsize
4  \bfseries
5  }{\theparagraph}{1em}{}
6  \titleformat{\subparagraph}{
7  \normalfont
8  \normalsize
9  \bfseries
10 }{\thesubparagraph}{1em}{}
11 }

```

— We modify the spacing, mainly by shifting the titles in the left margin (the rest is borrowed from the standard classes).

```

1  \titlespacing*{\title}
2  {\c__letgut_title_hoffset_dim}
3  {\c__letgut_before_title_title_skip}
4  {\c__letgut_after_title_title_skip}
5  \titlespacing*{\subtitle}
6  {\c__letgut_subtitle_hoffset_dim}
7  {\c__letgut_before_subtitle_title_skip}
8  {\c__letgut_after_subtitle_title_skip}
9  \titlespacing*{\section}
10 {\c__letgut_section_hoffset_dim}
11 {\c__letgut_before_section_title_skip}
12 {\c__letgut_after_section_title_skip}
13 \titlespacing*{\subsection}
14 {\c__letgut_subsection_hoffset_dim}
15 {\c__letgut_before_subsection_title_skip}
16 {\c__letgut_after_subsection_title_skip}
17 \titlespacing*{\subsubsection}
18 {\c__letgut_subsubsection_hoffset_dim}
19 {\c__letgut_before_subsubsection_title_skip}
20 {\c__letgut_after_subsubsection_title_skip}
21 \titlespacing*{\paragraph}
22 {\c__letgut_paragraph_hoffset_dim}
23 {\c__letgut_before_paragraph_title_skip}
24 {\c__letgut_after_paragraph_title_skip}
25 \titlespacing*{\subparagraph}
26 {\c__letgut_subparagraph_hoffset_dim}
27 {\c__letgut_before_subparagraph_title_skip}
28 {\c__letgut_after_subparagraph_title_skip}

```

## Document commands

### Setup

We define the command that lets us specify the newsletter setup.

```

1  \NewDocumentCommand \letgutsetup { m } {
2  \keys_set:nn { letgut } { #1 }
3  }

```

### For the rubric dedicated to new stuffs appeared on CTAN

- We create a new type of list, dedicated to the new stuffs (classes, packages, etc.) on CTAN and similar to a description list (except the label provided in the optional argument of `\item` is automatically an argument of the `\package` command).

```

1 \cs_new_protected:Nn \__letgut_ctan_news_item:n {
2   \package{#1}~:
3 }
4 \newlist{ctannews}{description}{1}
5 \setlist[ctannews]{format=\__letgut_ctan_news_item:n}

```

The stuffs created by French speaking people are highlighted in a special way and, for this, a starred variant of the `\item` command is provided. We insert a systematic `\phantomsection` in order the cross-references to such items are correct.

```

1 \cs_new_protected:Npn \__letgut_item:nn #1 #2
2 {
3   \tl_if_empty:nTF {#2}
4   {
5     \__letgut_old_item
6   }{
7     \__letgut_old_item[#2]
8   }
9   \phantomsection
10  \IfBooleanT {#1}{
11    \mbox{} \marginpar[\mbox{} \hfill \francophony]{}
12  }
13 }
14 \NewCommandCopy{\__letgut_old_item}{\item}
15 \RenewDocumentCommand {\item} { s O{} } {
16   \__letgut_item:nn {#1}{#2}
17 }

```

- Command that inserts the « francophony » logo.

```

1 \NewDocumentCommand {\francophony} { } {
2   \raisebox{-1.5pt}{
3     \__letgut_orig_includegraphics*[width=\f@size pt]{
4       letgut-francophony-icon
5     }
6   }
7 }

```

### Persons, authors and list of participants

For both persons and authors, the argument of :

- a single individual is given as :

- *<Last name>*, *<First name>*

- and possibly *<Last name>*, *<First name>*, *<Title>*

- multiple individuals, the schemes for each of the individuals are the same of a single one, separated by a semicolon.

```

1  \NewDocumentCommand {\person} { s m } {
2    \__letgut_process_list:nn {#1} {#2}
3  }
4  \cs_new_protected:Npn \__letgut_author:nn #1 #2
5  {
6    \nopagebreak
7    \begin{flushright}
8      \__letgut_process_list:nn {#1} {#2}
9    \end{flushright}
10 }
11 \AddToHook{begindocument/end}{%
12   \RenewDocumentCommand\author{ s m } {
13     \__letgut_author:nn { #1 } { #2 }
14   }
15 }

```

In the following `\__letgut_titlecase_name` control sequence, we parse last and first names, splitting and unsplitting them at spaces and dashes (-) with titlecasing in between.

```

1  \cs_new_protected:Npn \__letgut_titlecase_name:n #1
2  {
3    \seq_set_split:Nnn \l__letgut_tmpa_seq { - } {#1}
4    \seq_set_map_x:Nn \l__letgut_tmpb_seq \l__letgut_tmpa_seq {
5      \text_titlecase_first:n{ \text_lowercase:n {##1} }
6    }
7    \tl_set:Nx \l__letgut_tmpa_tl {\seq_use:Nn \l__letgut_tmpb_seq {-}}
8    \seq_clear:N \l__letgut_tmpa_seq
9    \seq_set_split:NnV \l__letgut_tmpa_seq { ~ } { \l__letgut_tmpa_tl }
10   \seq_set_map_x:Nn \l__letgut_tmpb_seq \l__letgut_tmpa_seq {
11     \text_titlecase_first:n{##1}
12   }
13   \seq_use:Nn \l__letgut_tmpb_seq {~}
14 }

```

The following control sequence splits a semi-colon separated list and each item is splitted as a comma separated list.

```

1  \cs_new_protected:Nn \__letgut_person_last_name:n
2  {
3    {% \scshape
4     \__letgut_titlecase_name:n {#1}}
5  }
6  \cs_new_protected:Nn \__letgut_person_first_name_last_name:nn
7  {
8    \__letgut_titlecase_name:n {#1}
9    \c_space_tl
10   \__letgut_person_last_name:n {#2}
11 }
12 \cs_new_protected:Nn
13 \__letgut_person_first_name_last_name_title:nnn
14 {
15   \__letgut_person_first_name_last_name:nn {#1} {#2}
16   \c_space_tl
17   (#3)

```

```

18 }
19 \seq_new:N \l__letgut_items_seq
20 \cs_new_protected:Npn \__letgut_process_list:nn #1 #2
21 {
22   \seq_clear:N \l__letgut_items_seq
23   \seq_set_split:Nnn \l__letgut_tmpa_seq {~and~} {#2}
24   \IfBooleanT{#1}{
25     \seq_sort:Nn \l__letgut_tmpa_seq
26     {
27       \str_compare:nNnTF { ##1 } > { ##2 }
28       { \sort_return_swapped: }
29       { \sort_return_same: }
30     }
31   }
32   \seq_map_inline:Nn \l__letgut_tmpa_seq {
33     \seq_set_from_clist:Nn \l__letgut_tmpb_seq {##1}
34     \seq_pop_left:NN \l__letgut_tmpb_seq \l_letgut_last_name_tl
35     \seq_pop_left:NN \l__letgut_tmpb_seq \l_letgut_first_name_tl
36     \seq_pop_left:NN \l__letgut_tmpb_seq \l_letgut_title_tl
37     \seq_put_right:Nx \l__letgut_items_seq {
38       \quark_if_no_value:NTF \l_letgut_first_name_tl {
39         \__letgut_person_last_name:n {
40           \l_letgut_last_name_tl
41         }
42       }{
43         \quark_if_no_value:NTF \l_letgut_title_tl {
44           \__letgut_person_first_name_last_name:nn
45           {\l_letgut_first_name_tl}
46           {\l_letgut_last_name_tl}
47         }{
48           \__letgut_person_first_name_last_name_title:nnn
49           {\l_letgut_first_name_tl}
50           {\l_letgut_last_name_tl}
51           {\l_letgut_title_tl}
52         }
53       }
54     }
55   }
56   \seq_use:Nnnn \l__letgut_items_seq {
57     \c_space_tl \str_use:N \& \c_space_tl
58   } { ,~ } { \c_space_tl \str_use:N \& \c_space_tl }
59 }

```

The list of contributors (possibly the masthead) will be the list of the persons who contributed to the current issue of the *Lettre*, with both a pre- and a post-text, the whole in a centered boxed minipage.

```

1 \tl_const:Nn \c__letgut_preamble_list_of_contributors_tl {
2   De~ près,~ de~ loin,~ par~ leurs~ avis~ éclairés,~ par~ leurs~
   remarques~
3   pertinentes~ ou~ par~ leurs~ articles,~ ont~ contribué~ à~ cette~
4   \lettre{ }~ :~ %
5 }

```

```

6 \tl_const:Nn \c__letgut_postamble_list_of_contributors_tl {
7   \c_space_tl (et~ nous~ espérons~ n'avoir~ oublié~ personne).
8 }
9 \cs_new_protected:Nn \__letgut_list_of_contributors:nnn
10 {
11   \par
12   \fbox{
13     \begin{minipage}[t]{\linewidth-2\fboxsep-2\fboxrule}
14       #1
15       \person*{#3}
16       #2
17     \end{minipage}
18   }
19 }
20 \NewDocumentCommand {\listofcontributors} {
21   O{\c__letgut_preamble_list_of_contributors_tl}
22   O{\c__letgut_postamble_list_of_contributors_tl}
23   m
24 } {
25   \__letgut_list_of_contributors:nnn {#1} {#2} {#3}
26 }

```

#### Horizontal rule

```

1 \NewDocumentCommand {\separator} { } {
2   \par
3   \skip_vertical:N 1em
4   \hrule
5   \skip_vertical:N 1em
6 }

```

#### Alert boxes

```

1 \colorlet {letgut_default_alert_box_color} {
2   \c__letgut_default_alert_box_color_tl
3 }
4 \NewDocumentCommand \alertbox {
5   O{letgut_default_alert_box_color} +m
6 } {
7   \__letgut_alert_box:nn { #1 } { #2 }
8 }

```

#### Typesetting of packages, classes, files and softwares.

The `\c__letgut_httpsprefix_tl` comes from :

<https://github.com/latex3/hyperref/issues/188#issuecomment-826302843>.

```

1 \tl_const:Nx \c__letgut_httpsprefix_tl
2 {https\char_generate:nn{58}{12}//}

```

We define the font switches dedicated to each of packages and classes (T<sub>E</sub>X stuff), files and softwares.

```

1 \tl_new:N \l__letgut__tex_stuff_font_switch_tl
2 \tl_new:N \l__letgut_files_font_switch_tl
3 \tl_new:N \l__letgut_softwares_font_switch_tl
4 \tl_set:Nn \l__letgut__tex_stuff_font_switch_tl {\sffamily}
5 \tl_set:Nn \l__letgut_files_font_switch_tl {\ttfamily}
6 \tl_set:Nn \l__letgut_softwares_font_switch_tl {\ttfamily}

```

```

1  \cs_new_protected:Nn \__letgut_tex_stuff:nn
2  {
3    \IfNoValueTF {#1}
4    {
5      \href{
6        \c__letgut_httpsprefix_tl ctan.org/pkg/#2
7      }{
8        {\l__letgut__tex_stuff_font_switch_tl #2}
9      }
10   }{
11     \tl_if_empty:nTF {#1}
12     {
13       {\l__letgut__tex_stuff_font_switch_tl #2}
14     }{
15       \href{#1}{\l__letgut__tex_stuff_font_switch_tl #2}}
16     }
17   }
18 }
19 \cs_new_protected:Nn \__letgut_software:nn
20 {

```

We split the software’s name at spaces in order to apply the dedicated font switch (`\ttfamily`) to all of it except to the spaces.

```

1  \seq_set_split:Nnn \l__letgut_tmpa_seq { ~ } { #2 }
2  \seq_set_map:NNn \l__letgut_tmpb_seq \l__letgut_tmpa_seq {{
3    \l__letgut_software_font_switch_tl ##1}}
4  \tl_if_empty:nTF {#1}
5  {
6    \seq_use:Nn \l__letgut_tmpb_seq { ~ }
7  }{
8    \href{#1}{ \seq_use:Nn \l__letgut_tmpb_seq { ~ } }
9  }
10 \cs_new_protected:Nn \__letgut_file:n
11 {
12   {\l__letgut_files_font_switch_tl #1}
13 }
14 \NewDocumentCommand{\package}{ s o m 0{\c__letgut_package_tl} } {
15   \IfBooleanT{#1}{
16     #4
17     \c_space_tl
18   }
19   \__letgut_tex_stuff:nn {#2}{#3}
20 }
21 \NewDocumentCommand{\class}{ s o m 0{\c__letgut_class_tl} } {
22   \IfBooleanT{#1}{
23     #4
24     \c_space_tl
25   }
26   \__letgut_tex_stuff:nn {#2}{#3}
27 }
28 \NewDocumentCommand{\file}{ s m 0{\c__letgut_file_tl} } {

```

```

29   \IfBooleanT{#1}{
30     #3
31     \c_space_tl
32   }
33   \__letgut_file:n {#2}
34 }
35 \NewDocumentCommand {\software} { s O{} m O{\c__letgut_software_tl} } {
36   \IfBooleanT{#1}{
37     #4
38     \c_space_tl
39   }
40   \__letgut_software:nn {#2}{#3}
41 }

```

### Names, expressions, etc.

We define here some commands for names and expressions that are likely to be frequently used. The more the users will resort to these commands, the less will be inconsistently typesetted these names and expressions.

```

1   \NewExpandableDocumentCommand { \gutenberg } { } {
2     \c__letgut_gutenberg_tl
3   }
4   \NewExpandableDocumentCommand { \gut } { } {
5     \c__letgut_gutenberg_tl
6   }
7   \NewExpandableDocumentCommand { \assogut } { } {
8     \c__letgut_association_tl \c_space_tl \c__letgut_gutenberg_tl
9   }
10  \NewExpandableDocumentCommand { \Assogut } { } {
11    \text_titlecase_first:n {\assogut}
12  }
13  \NewExpandableDocumentCommand { \lettres } { } {
14    \c__letgut_Lettres_tl
15  }
16  \NewExpandableDocumentCommand { \lettresgut } { } {
17    \c__letgut_Lettres_tl \c_space_tl \c__letgut_gutenberg_tl
18  }
19  \NewExpandableDocumentCommand { \Cahier } { } {
20    \c__letgut_cahier_tl
21  }
22  \NewExpandableDocumentCommand { \Cahiers } { } {
23    \c__letgut_cahiers_tl
24  }
25  \NewExpandableDocumentCommand { \cahier } { } {
26    \c__letgut_cahier_tl
27  }
28  \NewExpandableDocumentCommand { \cahiers } { } {
29    \c__letgut_cahiers_tl
30  }
31  \NewExpandableDocumentCommand { \cahiergut } { } {
32    \cahier \c_space_tl \gutenberg
33  }
34  \NewExpandableDocumentCommand { \cahiersgut } { } {

```



```

35   \cahiers \c_space_tl \gutenberg
36   }
37   \NewExpandableDocumentCommand { \letgut } { } {
38     \class{letgut}
39   }
40   \NewExpandableDocumentCommand { \letgutcls } { } {
41     \class*{letgut}
42   }
43   \NewExpandableDocumentCommand { \tugboat } { } {
44     \c__letgut_tugboat_tl
45   }
46   \NewExpandableDocumentCommand { \knuth } { } {
47     \person{Knuth,~ Donald~ E.}
48   }
49   \NewExpandableDocumentCommand { \lampport } { } {
50     \person{Lampport,~ Leslie}
51   }
52   \NewExpandableDocumentCommand { \tl } { } {
53     \c__letgut_tex_live_tl
54   }
55   \NewExpandableDocumentCommand { \linux } { } {
56     \c__letgut_gnu_linux_tl
57   }
58   \NewExpandableDocumentCommand { \macos } { } {
59     \c__letgut_macOS_tl
60   }
61   \NewExpandableDocumentCommand { \windows } { } {
62     \c__letgut_windows_tl
63   }

```

We define the command `\lettrenumber` that displays the number of some *Lettre* issue :

- preceded by “n°” if used starred,
- by default the current one,
- possibly shifted w.r.t. the current one, depending on the first token of the optional argument :
  - if it is not `.`, `+` nor `-` : this argument (pretty useless : it is easier to directly type the desired number),
  - if it is `.` : the current number of the *Lettre*(pretty useless : it is easier to just not use the optional argument),
  - if it is `+` or `-` followed by a number : the current number of the *Lettre*, shifted by what is specified.

```

1   \cs_new_protected:Npn \__letgut_get_lettre_number:n #1
2   {
3     \tl_if_empty:nTF {#1}{
4       \int_use:N \g__letgut_number_int
5     }{
6       \tl_set:Nx \l__letgut_tmpa_tl {\tl_head:n { #1 }}
7       \tl_set:Nn \l__letgut_tmpb_tl { #1 }
8       \tl_case:NnF \l__letgut_tmpa_tl {

```

```

9      {\c__letgut_plus_tl} {\int_eval:n {\g__letgut_number_int
\l__letgut_tmpa_tl\tl_range:Nnn \l__letgut_tmpb_tl { 2 } { -1 }}}
10     {\c__letgut_minus_tl} {\int_eval:n {\g__letgut_number_int
\l__letgut_tmpa_tl\tl_range:Nnn \l__letgut_tmpb_tl { 2 } { -1 }}}
11     {\c__letgut_dot_tl} {\int_use:N \g__letgut_number_int}
12   }
13   {\l__letgut_tmpb_tl}
14 }
15 }
16 \NewDocumentCommand { \lettre } { s 0{} } {
17   \IfBooleanT{#1}{
18     \no
19   }
20   \__letgut_get_lettre_number:n { #2 }
21 }

```

The “*Lettre*” and “*Lettre GUTenberg*” expressions are treated separately since they are subject to variations, depending on how they are used. The corresponding commands `\lettre` and `\lettre gut` used without star nor optional argument typeset resp. “*Lettre*” and “*Lettre GUTenberg*” :

- immediately followed by “n°” if used starred,
- followed by some strings, depending on the first token of their optional argument :
  - if it is not `.`, `+` nor `-` : this argument,
  - if it is `.` : the current number of the *Lettre*,
  - if it is `+` or `-` followed by a number : the current number of the *Lettre*, shifted by what is specified.

```

1  \tl_const:Nn \c__letgut_plus_tl { + }
2  \tl_const:Nn \c__letgut_minus_tl { - }
3  \tl_const:Nn \c__letgut_dot_tl { . }
4  \cs_new_protected:Npn \__letgut_lettre:nnn #1 #2 #3
5  {
6    \c__letgut_Lettre_tl #2
7    \tl_if_empty:nF {#1}
8    {
9      #3
10     \nobreakspace
11     \__letgut_get_lettre_number:n {#1}
12   }
13 }
14 \NewDocumentCommand { \lettre } { s 0{} } {
15   \IfBooleanTF{#1}{
16     \__letgut_lettre:nnn { #2 } { } {
17       \tl_if_empty:nF {#2}{
18         \c_space_tl\no
19       }
20     }
21   }{
22     \__letgut_lettre:nnn { #2 } { } { }
23   }
24 }

```

```

25 \NewDocumentCommand { \lettregut } { s 0{} } {
26   \IfBooleanTF{#1}{
27     \__letgut_lettre:nnn { #2 } { \c_space_tl \c__letgut_gutenberg_tl }
28     { \c_space_tl\no }
29   }{
30     \__letgut_lettre:nnn { #2 } { \c_space_tl \c__letgut_gutenberg_tl }
31     { }
32   }
33 }

```

The `\lettre` and `\lettregut` can be used in titles, sections, etc. (involving bookmarks) but, because their last argument isn't a mandatory one, they would have an inconsistent behavior if used with their star or their optional argument (see <https://tex.stackexchange.com/q/427557/18401>).

### Foreign locutions

```

1 \cs_new_protected:Npn \__letgut_emphasis:n #1
2 {
3   \emph{#1}
4 }
5 \NewDocumentCommand { \foreignloc } { m } {
6   \__letgut_emphasis:n {#1}
7 }
8 \NewDocumentCommand { \latinloc } { m } {
9   \__letgut_emphasis:n {#1}
10 }

```

### Unicode code points

```

1 \cs_new_protected:Npn \__letgut_unicode_code:nn #1 #2
2 {
3   U+\bgroup\addfontfeature{Numbers={Lining,Proportional}}#2\egroup
4   \tl_if_empty:nF {#1}{
5     \c_space_tl
6     ({\addfontfeature{RawFeature={smcp,c2sc}}#1})
7   }
8 }
9 \NewDocumentCommand { \Ucode } { O{} m } {
10   \__letgut_unicode_code:nn {#1}{#2}
11 }

```

### Bookmarks handling

We disabling some commands when their arguments have to go to bookmarks.

```

1 \AddToHook{beginning/end}{
2   \pdfstringdefDisableCommands{
3     \RenewExpandableDocumentCommand\person { m }{#1}
4     \RenewExpandableDocumentCommand\author { m }{#1}
5     \RenewExpandableDocumentCommand \package { s 0{} m }{
6       \IfBooleanT{#1}{\c__letgut_package_tl\c_space_tl}#3
7     }
8     \RenewExpandableDocumentCommand\class { s 0{} m }{
9       \IfBooleanT{#1}{\c__letgut_class_tl\c_space_tl}#3
10    }
11    \RenewExpandableDocumentCommand\file { s m }{
12      \IfBooleanT{#1}{\c__letgut_file_tl\c_space_tl}#2

```

```

13     }
14     \RenewExpandableDocumentCommand\software { s 0{} m }{
15         \IfBooleanT{#1}{\c__letgut_software_tl\c_space_tl}#3
16     }
17     \RenewExpandableDocumentCommand\foreignloc{ m }{#1}
18     \RenewExpandableDocumentCommand\latinloc{ m }{#1}
19     \RenewExpandableDocumentCommand\lettre{ }{Lettre}
20     \RenewExpandableDocumentCommand\gutenberg{ }{GUTenberg}
21     \RenewExpandableDocumentCommand\gut{ }{\gutenberg}
22     \RenewExpandableDocumentCommand\lettregut{ }{
23         \lettre\c_space_tl\gutenberg
24     }
25     \RenewExpandableDocumentCommand\Cahier{ }{Cahier}
26     \RenewExpandableDocumentCommand\Cahiers{ }{\Cahier s}
27     \RenewExpandableDocumentCommand\cahier{ }{Cahier}
28     \RenewExpandableDocumentCommand\cahiers{ }{\cahier s}
29     \RenewExpandableDocumentCommand\cahiergut{ }{
30         \cahier\c_space_tl\gutenberg
31     }
32     \RenewExpandableDocumentCommand\cahiersgut{ }{
33         \cahier s\c_space_tl\gutenberg
34     }
35     \RenewExpandableDocumentCommand\letgut{ }{letgut}
36     \RenewExpandableDocumentCommand\letgutcls{ }{classe~ letgut}
37     \RenewExpandableDocumentCommand\knuth{ }{Donald~ E.~ Knuth}
38     \RenewExpandableDocumentCommand\lamport{ }{Leslie~ Lamport}
39     \RenewExpandableDocumentCommand\linux{ }{GNU/Linux}
40     \RenewExpandableDocumentCommand\macos{ }{macOS}
41     \RenewExpandableDocumentCommand\windows{ }{Windows}
42 }
43 }

```

## Acronyms

The following command let us define acronyms. The arguments are as follows :

- #1 : optional argument that let us override the default settings of this command,
- #2 : the uppercase version of both the id and the short form of the acronym,
- #3 : the long form (in French if #4 has -NoValue-, in English otherwise),
- #4 : the French translation of an English acronym.

```

1 \cs_new_protected:Nn \__letgut_acronym:nnnn
2 {
3     \AddToHook{begindocument/before}{
4     \IfValueTF {#4}{
5         \tl_if_empty:nTF {#4}{
6             \exp_args:Nx \DeclareAcronym{\text_lowercase:n {#2}}{
7                 short = \text_lowercase:n {#2},
8                 sort= #2,
9                 long = {\emph{#3}},
10                extra-long = {anglais},
11                pdfstring = #2,
12                short-acc = #2,
13                #1
14            }

```

```

15     }{
16     \exp_args:Nx \DeclareAcronym{\text_lowercase:n {#2}}{
17     short = \text_lowercase:n {#2},
18     sort= #2,
19     long = {#4},
20     foreign = {#3},
21     foreign-babel = english,
22     foreign-locale = anglais,
23     pdfstring = #2,
24     short-acc = #2,
25     #1
26     }
27   }
28 }{
29 \exp_args:Nx \DeclareAcronym{\text_lowercase:n {#2}}{
30 short = \text_lowercase:n {#2},
31 sort= #2,
32 long = {#3},
33 pdfstring = #2,
34 short-acc = #2,
35 #1
36 }
37 }

```

The `<id>` of the acronym will automatically be the name of a public command (`\<id>`) acting as `\ac{<id>`.

```

1 \exp_after:wN \cs_if_exist:cT { \text_lowercase:n {#2} } {
2   \msg_note:nnn{letgut}{Existing~command}{#2}
3 }
4 \exp_args:Nc \ProvideDocumentCommand
5 { \text_lowercase:n {#2} } { s } {
6   \IfBooleanTF {##1}{
7     \exp_args:Nx \acs { \text_lowercase:n {#2} }
8   }{
9     \exp_args:Nx \ac { \text_lowercase:n { #2 } }
10  }
11 }

```

We want the command `\<id>` to work also in bookmarks (the resulting string will be the uppercased acronym).

```

1 \pdfstringdefDisableCommands
2 {
3   \exp_after:wN
4   \def\cs:w \text_lowercase:n {#2} \cs_end: { #2 }
5 }
6 }
7 }

```

The first occurrences of the acronyms will be displayed in their short forms, with the long ones in footnotes. But what about acronyms whom first occurrences arise within footnotes? We want them to be displayed as their short forms followed by their the long form in parentheses. For this, we have to add a boolean at the beginning (and

reversed at the end) of the `\footnote` command to know whether we currently are in a footnote or not and display the acronym accordingly.

BTW, we hack the `\footnote` command in order to mimic the multiple option of the `footmisc` package (consecutive `\footnote` commands make their corresponding footnote marks separated by commas). See <https://tex.stackexchange.com/a/62091>.

```

1 \let\__letgut_next_token\relax
2 \cs_new_protected:Npn \__letgut_next_token_is_footnote:
3 {\if_meaning:w\footnote\__letgut_next_token\textsuperscript{,}\fi}
4 \NewCommandCopy{\__letgut_old_footnote}{\footnote}
5 \RenewDocumentCommand {\footnote} { 0{} m }{
6   \bool_set_true:N \l__letgut_in_footnote_bool
7   \tl_if_empty:nTF {#1}{
8     \__letgut_old_footnote { #2 }
9   }{
10    \__letgut_old_footnote [#1] { #2 }
11  }
12  \bool_set_false:N \l__letgut_in_footnote_bool
13  \futurelet\__letgut_next_token\__letgut_next_token_is_footnote:
14 }

```

We change a bit both the footnote acro template, the `description` list template, and the macro which prints the locale.

```

1 \DeclareAcroProperty{extra-foreign}
2 \DeclareAcroProperty{extra-long}
3 \RenewAcroTemplate {footnote}
4 {
5   \acrowrite {short}
6   \acroiffirstT
7   {

```

If we are in a footnote, first occurrences of the acronyms are displayed as “short (long)”. Otherwise, they are displayed as “short<sup>1</sup>”.

```

1   \bool_if:NTF \l__letgut_in_footnote_bool {
2     \space
3     (
4     \acroifT {alt} { \acrotranslate {or} ~ \acrowrite {alt} ~ }
5     \acroifT {foreign} { \acrowrite {foreign} }
6     \acrowrite {long}
7     \acrogroupcite
8     )
9   }{
10    \acfootnote
11    {
12      \acroifT {alt} {
13        \acrotranslate {or} ~ \acrowrite {alt} :~
14      }
15      \acroifT {foreign} { \acrowrite {foreign} }
16      \acrowrite {long}
17      \acroifT {extra-long} { ~ [\acrowrite {extra-long}] }
18      \acroifT {extra-foreign} {

```

---

1. long

```

19         \c_space_tl [\acrowrite {extra-foreign}]
20     }
21     \acrogroupcite
22 }
23 }
24 }
25 }
26 \RenewAcroTemplate[list]{description}{%
27     \acroheading
28     \acropreamble
29     \begin{description}
30         \acronymsmapF{%
31             \item[\acrowrite{short}\acroifT{alt}]{\acrowrite{alt}}]
32             \acroifT{foreign}{
33                 \acrowrite{foreign}\acroifT{extra}{, }
34             }%
35             \acroifT{extra}{\acrowrite{extra}}%
36             \acroifanyT{foreign,extra}{\acspace (}%
37             \acrowrite{list}%
38             \acroifT {extra-foreign} {
39                 , \c_space_tl \acrowrite {extra-foreign}
40             }
41             \acroifanyT{foreign,extra}{})}%
42             \acropagefill
43             \acropages
44             {\acrotranslate{page}\nobreakspace}
45             {\acrotranslate{pages}\nobreakspace}%
46         }
47         {\item\AcroRerun}
48     \end{description}
49 }
50 % #1: id
51 % #2: property
52 % #3: text
53 \cs_set_protected:Npn \acro_locale:nnn #1#2#3
54 {
55     \acro_if_foreign:nTF {#2}
56     {
57         \acro_if_locale:nnTF {#1} {#2}
58         {
59             \__acro_foreign_language:en
60             { \str_lowercase:e {
61                 \acro_property_get:nn {#1} {foreign-babel}
62             }
63         }
64         {#3}
65         \bool_if:NTF \l__acro_list_bool
66         { \bool_if:NT \l__acro_list_show_locale_bool }
67         { \bool_if:NT \l__acro_show_locale_bool }
68         {
69             {
70                 \l__acro_locale_format_tl

```

```

71         {
72             \acro_property_if_set:nnTF {#1} {
73                 foreign-locale
74             }
75             {
76                 \acspace
77                 [
78                     \acro_property_get:nn {#1} {
79                         foreign-locale
80                     }
81                 ]
82             }{
83                 \baselanguage
84                 {
85                     \acro_property_get:nn {#1} {
86                         foreign-babel
87                     }
88                 }
89             }
90         }
91     }
92     :~
93 }
94 }
95 {#3}
96 }
97 {#3}
98 }

```

Now, the document command that let the user create acronyms.

```

1 \NewDocumentCommand{\letgutacro}{ O{} m m o }
2 {
3     \__letgut_acronym:nnnn {#1} {#2} {#3} {#4}
4 }

```

For printing the acronyms, we define two new heading templates for the structure levels `\title` and `\subtitle`.

```

1 \NewAcroTemplate[heading] {title}
2 { \title { \acrolistname } }
3 \NewAcroTemplate[heading] {subtitle}
4 { \subtitle { \acrolistname } }

```

We make `\letgutacro` available only in the preamble part of the document (otherwise, no warning from `acro` but only the long form of the acronym is printed when used for the first time with `\ac`).

```

1 \@onlypreamble\letgutacro

```

## Bibliography

We want the `\citeauthor` command to display, not only the last, but the full name of the authors.

```

1 \NewCommandCopy{\__letgut_old_citeauthor}{
2     \citeauthor
3 }

```



```

4 \RenewDocumentCommand {\citeauthor} { 0{} 0{} m } {
5   \AtNextCite{
6     \DeclareNameAlias{labelname}{given-family}
7     \protected\def\mkbibnamefamily#1{%
8       \textnohyphenation{#1}}%
9   }
10  \__letgut_old_citeauthor[#1][#2]{#3}
11 }

```

## Book reviews

```

1 \tl_new:N \l__letgut_bookreview_frontcover_tl
2 \tl_new:N \g__letgut_bookreview_bibkey_tl

```

The keys options are created.

```

1 \keys_define:nn { letgut/bookreview }
2 {
3   title .tl_gset:N = \g__letgut_bookreview_title_tl,
4   frontcover .tl_set:N = \l__letgut_bookreview_frontcover_tl,
5   bibkey .tl_gset:N = \g__letgut_bookreview_bibkey_tl,
6   reviewer .tl_gset:N = \g__letgut_bookreview_reviewer_tl,
7   price .tl_gset:N = \g__letgut_bookreview_price_tl,

```

All these options, when used, must receive a value.

```

1   title .value_required:n = true,
2   frontcover .value_required:n = true,
3   bibkey .value_required:n = true,
4   reviewer .value_required:n = true,
5 }

```

We create the new environment for the book reviews.

```

1 \cs_generate_variant:Nn \msg_warning:nnn { nnV }
2 \cs_generate_variant:Nn \msg_error:nnnn { nnVV }
3 \NewDocumentEnvironment{bookreview}{ m }
4 {
5   \tl_gclear:N \g__letgut_bookreview_price_tl
6   \keys_set:nn { letgut/bookreview } { #1 }
7   \section{\g__letgut_bookreview_title_tl}
8   \tl_if_empty:NTF \l__letgut_bookreview_frontcover_tl {
9     \msg_warning:nnV{letgut}{frontcover-missing}{
10      \g__letgut_bookreview_title_tl
11   }
12 }{

```

We check if the front cover file is available against the list of accepted extensions of the graphicx package.

```

1   \clist_map_inline:Nn \Gin@extensions {
2     \file_if_exist:nT{\l__letgut_bookreview_frontcover_tl##1}{
3       \bool_set_true:N \l__letgut_tmpa_bool
4       \clist_map_break:
5     }
6   }
7   \bool_if:NTF \l__letgut_tmpa_bool {
8     \marginpar{
9       \hspace*{\c__letgut_bookreview_frontcover_margin_sep_dim}

```

```

10     % \raggedleft
11     \raisebox{-\totalheight}{
12         \fbox{
13             \includegraphics*[width=-\c__letgut_title_hoffset_dim]{
14                 \l__letgut_bookreview_frontcover_tl
15             }
16         }
17     }
18 }
19 }{
20     \msg_error:nnVV
21     {letgut}
22     {frontcover-file-not-found}
23     {\g__letgut_bookreview_title_tl}
24     {\l__letgut_bookreview_frontcover_tl}
25 }
26 }
27 \noindent
28 \textsf{\fullcite{\g__letgut_bookreview_bibkey_tl}}
29 \tl_if_empty:NF \g__letgut_bookreview_price_tl{
30     .\c_space_tl\g__letgut_bookreview_price_tl\c_space_tl €
31 }
32 \par
33 }{
34     \exp_args:NV \author{\g__letgut_bookreview_reviewer_tl}
35     \bool_if:NT \g__letgut_included_files_attached_bool {
36         \seq_map_inline:Nn \g__letgut_added_bib_resources_seq {
37             \seq_gput_right:Nn \g__letgut_included_files_seq {##1}}
38     }

```

## Keyboard keys

We make use of the Linux Biolinum Keyboard font and extend somehow the `\LKey` provided by the package `biolinum` in order to more easily write keyboard keys for usual characters on French keyboards.

```

1 \DeclareRobustCommand*\LKey[1]{%
2 \ifx#10\biolinumKeyGlyph{zero}% % spurious space removed 2016/06/24
3 \else\ifx#11\biolinumKeyGlyph{one}%
4 \else\ifx#12\biolinumKeyGlyph{two}%
5 \else\ifx#13\biolinumKeyGlyph{three}%
6 \else\ifx#14\biolinumKeyGlyph{four}%
7 \else\ifx#15\biolinumKeyGlyph{five}%
8 \else\ifx#16\biolinumKeyGlyph{six}%
9 \else\ifx#17\biolinumKeyGlyph{seven}%
10 \else\ifx#18\biolinumKeyGlyph{eight}%
11 \else\ifx#19\biolinumKeyGlyph{nine}%
12 \else\ifx#1à\biolinumKeyGlyph{agrave}%
13 \else\ifx#1À\biolinumKeyGlyph{Agrave}%
14 \else\ifx#1â\biolinumKeyGlyph{acircumflex}%
15 \else\ifx#1Â\biolinumKeyGlyph{Acircumflex}%
16 \else\ifx#1é\biolinumKeyGlyph{eacute}%

```



### Typesetting of code, etc.

We provide a `\meta` macro that (poorly) mimics the one of the package `doc`. It is added at the very end of the preamble since other package that provide another definition of this macro may have been loaded (e.g. `tcolorbox`).

```

1 \colorlet {__letgut_meta} {
2   brown
3 }
4 \cs_new_protected:Nn \__letgut_meta:nn
5 {
6   \bgroup
7   \normalfont
8   \ttfamily
9   \itshape
10  \textcolor{#1}{$\langle\!#2\!\rangle$}
11  \egroup
12 }
13 \AddToHook{begindocument/end}{
14   \DeclareDocumentCommand{\meta}{ O{__letgut_meta} m } {
15     \__letgut_meta:nn {#1}{#2}
16   }
17 }
```

### Input of articles

We create our own `\input` command for the articles of the Lettre with the following characteristics :

- The previous style is applied automatically. Hence, the keywords defined in a previous file (by loading some particular (La)TeX dialects, i.e. control sequences and keywords specific to some class or packages) won't interfere with the ones of the current file.
- All the acronyms are reset (each acronym is developed at its first occurrence).
- The source file of the article is attached to the PDF (if desired, otherwise, use the starred version).

We first create a function that attach to the PDF a file only if it exists in the current directory and is non empty. This will be applied to both the `localconf.tex` and `pre-documentclass.tex` files below.

```

1 \cs_new_protected:Npn \__letgut_attach_non_empty_existing_file:n #1 {
2   \file_get_size:nN {./#1.tex} \l__letgut_tmpa_tl
3   \quark_if_no_value:NF \l__letgut_tmpa_tl {
4     \tl_if_eq:NnF \l__letgut_tmpa_tl {0} {
5       \seq_gput_left:Nn \g__letgut_included_files_seq {
6         \attachfile[
7           description={Source~ nécessaire~ (fichier~ `#1.tex`)},
8           mimetype=application/x-tex]
9           {#1.tex}
10        }
11      }
12    }
13 }
```

```

1  \cs_new_protected:Npn \__letgut_input_article:nn #1 #2
2  {
3    \FloatBarrier
4    \lstset{ style=__letgut_reset_listings_styles }
5    \acresetall%
6    \begin{refsection}
7      \input{#2}%
8    \end{refsection}
9    \bool_if:NT \g__letgut_included_files_attached_bool {
10     \IfBooleanF {#1}{
11       \__letgut_attach_non_empty_existing_file:n {
12         \c__letgut_local_config_file_tl
13       }
14       \__letgut_attach_non_empty_existing_file:n {
15         \c__letgut_pre_documentclass_file_tl
16       }
17       \seq_gput_left:Nn \g__letgut_included_files_seq {
18         \attachfile[
19           description={Source~ du~ présent~ article~ (fichier~ `#2.tex`)},
20           mimetype=application/x-tex]
21         {#2.tex}
22       }
23       \bool_if:NT \g__letgut_acronyms_file_attached_bool {
24         \seq_gput_right:No \g__letgut_included_files_seq {
25           \c__letgut_acronyms_file_attached_tl
26         }
27       }
28       \bool_if:NT \g__letgut_lstlanguage_file_attached_bool {
29         \seq_gput_right:No \g__letgut_included_files_seq {
30           \c__letgut_lstlanguage_file_attached_tl
31         }
32       }
33       \seq_remove_duplicates:N \g__letgut_included_files_seq
34       \seq_use:Nn \g__letgut_included_files_seq { \c_space_tl }
35       \seq_clear:N \g__letgut_included_files_seq
36       \bool_gset_false:N \g__letgut_acronyms_file_attached_bool
37       \bool_gset_false:N \g__letgut_lstlanguage_file_attached_bool
38     }
39   }
40 }
41 \NewDocumentCommand{\inputarticle}{ s m }{
42   \__letgut_input_article:nn { #1 } { #2 }
43 }

```

### Included graphics attached to the PDF

We hack the `\includegraphics` command in order to attach the included graphics to the PDF (if desired, otherwise, use the starred version).

```

1  \NewCommandCopy {\__letgut_orig_includegraphics} {\includegraphics}
2  \clist_set:Nx \l__letgut_tmpa_clist {\Gin@extensions}
3  \cs_new_protected:Npn \__letgut_includegraphics:nnn #1 #2 #3
4  {
5    \file_if_exist:nTF {./#3} {

```

```

6     \bool_if:NT \g__letgut_included_files_attached_bool {
7       \IfBooleanF {#1}{
8         \seq_gput_left:Nn \g__letgut_included_files_seq {
9           \attachfile[
10            description={
11              Fichier~ image~ inclus~ dans~ le~
12              présent~ article~ (fichier~ `#3`)
13            },
14            mimetype=image
15            ]{./#3}
16          }
17        }
18      }
19    \__letgut_orig_includegraphics[#2]{./#3}
20  }{
21    \bool_gset_false:N \g__letgut_tmpa_bool
22    \clist_map_inline:Nn \l__letgut_tmpa_clist {%
23      \file_if_exist:nT {./#3##1} {
24        \clist_map_break:n {
25          \bool_if:NT \g__letgut_included_files_attached_bool {
26            \IfBooleanF {#1}{
27              \seq_gput_left:Nn \g__letgut_included_files_seq {
28                \attachfile[
29                  description={Fichier~ image~ inclus~ dans~ le~ présent~
30                  article~ (fichier~ `#3##1`)},
31                  mimetype=image/##1
32                  ]{./#3##1}
33                }
34              }
35            \__letgut_orig_includegraphics[#2]{#3}
36            \bool_gset_true:N \g__letgut_tmpa_bool
37          }
38        }
39      }
40      % \bool_if:NF \g__letgut_tmpa_bool {
41      %   \@latex@error{File~ `#3'~ not~ found}%
42      %   {I~ could~ not~ locate~ the~ file~ with~ any~ of~ these~
43      %   extensions:^^J%
44      %   \clist_use:Nn \l__letgut_tmpa_clist { ~ }^^J\@ehc}%
45      % }
46    }
47    \RenewDocumentCommand {\includegraphics} {s O{} m } {
48      \__letgut_includegraphics:nnn {#1} {#2} {#3}
49    }

```

### Added bibliographic resources attached to the PDF

We hack the `\addbibresource` command in order to attach the bibliographic resources to the PDF (if desired, otherwise, use the starred version).

```

1 \NewCommandCopy {\__letgut_orig_addbibresource} {\addbibresource}
2 \cs_new_protected:Npn \__letgut_addbibresource:nnn #1 #2 #3

```

```

3 {
4   \file_if_exist:nT {#3} {
5     \IfBooleanF {#1}{
6       \seq_gput_left:Nn \g__letgut_added_bib_resources_seq {
7         \attachfile[
8           description={
9             Source~ du~ fichier~ bibliographique~ utilisé~
10            dans~ le~ présent~ article~ (fichier~ `#3`)
11          },
12          mimetype=application/x-bibtex
13        ]%
14        {#3}%
15      }
16    }
17  }
18  \__letgut_orig_addbibresource[#2]{#3}
19 }
20 \RenewDocumentCommand {\addbibresource} { s 0{} m } {
21   \__letgut_addbibresource:nnn {#1} {#2} {#3}
22 }

```

#### Added acronym definitions file attached to the PDF

We hack the `\ac` and `\acs` commands in order to attach the acronym definitions file to the PDF.

```

1 \bool_if:NT \g__letgut_included_files_attached_bool {
2   \tl_const:Nn \c__letgut_acronyms_file_attached_tl {
3     \attachfile[
4       description={
5         Source~ du~ fichier~ d'acronymes~ utilisé~ dans~
6         le~ présent~ article~
7         (fichier~ `c__letgut_acronyms_file_tl.tex`)
8       },
9       mimetype=application/x-tex]%
10      {\g__letgut_effective_acronyms_file_tl}%
11    }
12    \AddToHook{cmd/ac/before}{
13      \bool_gset_true:N \g__letgut_acronyms_file_attached_bool
14    }
15    \AddToHook{cmd/acs/before}{
16      \bool_gset_true:N \g__letgut_acronyms_file_attached_bool
17    }
18  }

```

#### Added letgut listings language file attached to the PDF

We hack the `\ac` and `\acs` commands in order to attach the acronym definitions file to the PDF.

```

1 \bool_if:NT \g__letgut_included_files_attached_bool {
2   \tl_const:Nn \c__letgut_lstlanguage_file_attached_tl {
3     \attachfile[
4       description={
5         Source~ du~ fichier~ de~ langages~ informatiques~ utilisé~
6         dans~ le~ présent~ article~

```

```

7      (fichier~ `c__letgut_lstlanguage_file_tl`)
8    },
9    mimetype=application/x-tex]%
10   {../c__letgut_lstlanguage_file_tl}%
11   }
12   \AddToHook{env/ltx-code/before}{
13     \bool_gset_true:N \g__letgut_lstlanguage_file_attached_bool
14   }
15   \AddToHook{env/ltx-code-result/before}{
16     \bool_gset_true:N \g__letgut_lstlanguage_file_attached_bool
17   }
18   \AddToHook{env/ltx-code-external-result/before}{
19     \bool_gset_true:N \g__letgut_lstlanguage_file_attached_bool
20   }
21   }

```

## Listings

We define a style for all the listings which resets all the T<sub>E</sub>X control sequences and keywords, and fix some defaults.

```

1 \lstdefinestyle{__letgut_reset_listings_styles}{
2   basicstyle=\ttfamily,
3   breaklines,
4   language=TeX,%
5   texcs={},%
6   language={},%
7   keywords={},%
8   keywords=[2]{},%
9   keywords=[3]{},%
10  keywords=[4]{},%
11  keywords=[5]{},%
12  otherkeywords={},%
13  alsoletter={},%
14  alsodigit={},%
15  escapechar=f,
16  columns=fullflexible,
17  keepspaces=true,
18  upquote=true,
19  showstringspaces=false,

```

If line numbers are asked, they should always have the same layout and not be selectable (hence the `\__letgut_unselectable:n`).

```

1 numbersep=\c__letgut_number_sep_dim,
2 numberstyle=\scriptsize\ttfamily
3 \color{__letgut_foregroundLinenumber}
4 \__letgut_unselectable:n,

```

Because of a current issue involving `parskip` and `listings` (<https://github.com/rankMittelbach/fmitex-parskip/issues/3>), we have to set the skip below the displayed listings to a (almost) zero length. We do the same for the above skip.

```

1   aboveskip={0\p@ \@plus 6\p@},
2   belowskip={0\p@ \@plus 6\p@},
3 }

```



We define as short equivalent of `\lstinline` the character `™` which is unlikely to be used in ordinary text.

```
1 \lstMakeShortInline[breaklines=false]™
```

We start with an empty listings style.

```
1 \lstset{ style=__letgut_reset_listings_styles }
```

### **L<sup>A</sup>T<sub>E</sub>X listings and examples**

We define the colors for the syntax highlighting of L<sup>A</sup>T<sub>E</sub>X listings.

```
1 \colorlet{__letgut_texcs}{blue}
2 \colorlet{__letgut_comment}{gray}
3 \colorlet{__letgut_argument_specification_separator}{red}
4 \colorlet{__letgut_argument_specification}{cyan}
5 \colorlet{__letgut_mandatory_argument}{purple}
6 \colorlet{__letgut_environment}{teal}
7 \colorlet{__letgut_key}{__letgut_mandatory_argument}
8 \colorlet{__letgut_value}{violet}
9 \colorlet{__letgut_optional_argument}{__letgut_key}
10 \colorlet{__letgut_math}{green!50!black}
```

We add our own language files taken in account by the package `listings`. They will be considered after the other usual ones, if found. They are searched firstly in the current directory, secondly in the parent directory, thirdly in the TDS.

```
1 \def\lstlanguagefiles{
2   % lstlang0.sty,
3   lstlang1.sty,
4   lstlang2.sty,
5   lstlang3.sty,
6   ./\c__letgut_lstlanguage_file_tl,
7   ../\c__letgut_lstlanguage_file_tl,
8   \c__letgut_lstlanguage_file_tl,
9 }
```

We define a listing style specific to L<sup>A</sup>T<sub>E</sub>X listings.

```
1 \lstdefinestyle{__letgut_latex_listings_style}{
2   language=TeX,%
3   alsolanguage=[AllaTeX]TeX,%
4   alsolanguage=[LaTeX]TeX,%
5   alsolanguage=[plain]TeX,%
6   alsolanguage=[common]TeX,%
7   alsolanguage=[primitive]TeX,%
8   alsolanguage=[extendedLaTeX]TeX,%
9   alsolanguage=[classes]TeX,%
10  texcsstyle=*\color{__letgut_texcs},
11  commentstyle=\color{__letgut_comment}\itshape,
12  keywordstyle= \color{__letgut_argument_specification_separator},
13  keywordstyle={[2]\color{__letgut_environment}},
14  keywordstyle={[3]\color{__letgut_key}},
15  keywordstyle={[4]\color{__letgut_value}},
16  keywordstyle={[5]\color{__letgut_argument_specification}},
17  keywordstyle={[6]\color{__letgut_key}},
18  numbers=left,
```

The listings package defines some of the LaTeX’s environments as keywords of order 1. This would force us to do the same in our own language driver file but would ruin our effort to stylize in a special way (in red) other keywords (see `otherkeywords={...}`) that are stylized as keywords of order 1. Hence, we delete these keywords of order 1 and will add them as keywords of order 2 like all the environments in our own language driver file (in the extendedLaTeX dialect that we load by default).

```

1 deletekeywords={%
2   array, center, displaymath, document, enumerate, eqnarray, %
3   equation, flushleft, flushright, itemize, list, lrbox, math, minipage, %
4   picture, sloppypar, tabbing, tabular, trivlist, verbatim, %
5 }, %
1 literate=*%
2 {\}\}\{\{\color{__letgut_textcs}\textbackslash\textbackslash}\}\}\{2}%
3 {\}\[\{\{\textcolor{__letgut_math}\textbackslash[\}\}\}\{2}%
4 {\}\}\]\{\{\textcolor{__letgut_math}\textbackslash}\}\}\}\{2}%
5 {\$\}\{\{\textcolor{__letgut_math}\backslash$\}\}\}\{1}%$
6 }
```

We first define some colors used in the listings and examples.

```

1 \definecolor{__letgut_backgroundCode}{cmyk}{0,0,0,0.04}
2 \definecolor{__letgut_borderCode}{cmyk}{0,0,0,0.2}
3 \definecolor{__letgut_foregroundLinenumber}{cmyk}{0,0,0,0.5}
4 \definecolor{__letgut_foregroundMention}{cmyk}{0,0,0,0}
5 \definecolor{__letgut_backgroundResult}{cmyk}{0,0,0,0}
```

For the listings and examples, we rely on package `tcolorbox`, and more specifically on some of its libraries.

```

1 \tcbuselibrary{listings,breakable,skins,hooks,documentation}
```

We want some common settings for all the `~tcolorbox~es`.

```

1 \tcbset{
2   breakable,
3   sharp~ corners,
4   fonttitle=\sffamily\bfseries,
5 }
```

The functions :

- `\__letgut_code_result_mention_box:n` draws the mentions “code” and “résultat” in the codes boxes and the possible corresponding results boxes,
- `\__letgut_title_code_result_box:n` for the title of codes and the results boxes : “Exemple” followed by the number of the example and, if a title addon option is provided, the specified title addon.

```

1 \cs_new_protected:Npn \__letgut_code_result_mention_box:nn #1 #2
2 {
3   \node[
4     minimum~ width=1cm,
5     minimum~ height=\c__letgut_height_mentions_dim,
6     outer~ sep=auto,
7     anchor=north~ east,
8     fill=__letgut_borderCode
9   ]~ at~ (#1)
10 {
11   \itshape
```

```

12     \small
13     \color{__letgut_foregroundMention}
14     \__letgut_unselectable:n {#2}
15   };
16 }
17 \cs_new_protected:Npn \__letgut_title_code_result_box:n #1
18 {
19   Exemple~ \thetcbcounter
20   \tl_if_empty:NF {#1} { \hypersetup{hidelinks} \c_space_tl :~#1 }
21 }
22 \cs_new_protected:Nn \__letgut_on_callout_page:nn
23 {
24   \tl_set:Nn \l__letgut_tmpa_int {\getpagerefnumber{#1}}
25   \tl_set:Nn \l__letgut_tmpb_int {\thepage}
26   \int_compare:nNnF {\l__letgut_tmpa_int} = {\l__letgut_tmpb_int}
27   {#2}
28 }

```

We define the style of the codes.

```

1 \tl_set:Nn \l__letgut_reference_text_tl {
2   Cf.~\vref{\g__letgut_label_ltx_example_str}.
3 }
4 \tcbset{
5   __letgut_code/.style={
6     listing~ options={
7       style=__letgut_latex_listings_style,
8     },
9     every~ float=\raggedleft,
10    colback=__letgut_backgroundCode,
11    boxrule=0.25mm,
12    colframe=__letgut_borderCode,
13    sidebyside~ align=top~ seam,
14    toprule~ at~ break=0mm,
15    bottomrule~ at~ break=0mm,
16    colbacktitle=__letgut_borderCode,
17    fonttitle=\sffamily\bfseries,
18    before~ title={
19      \tl_set:Nn \l__letgut__tex_stuff_font_switch_tl {\rmfamily}
20    },

```

We define a custom package `tcolorbox`'s `title addon` option that let us specify an addon to the title which will added after the automatically generated title “Exemple *(number)*”.

```

1 title~ addon/.store~ in=\l__letgut_title_addon_tl,
2 title=\__letgut_title_code_result_box:n {\l__letgut_title_addon_tl},

```

We define a custom package `tcolorbox`'s `reference text` option that let us override the text of the reference for the examples with code and result side by side that are floating and not being of their call out pages.

```

1 reference~ text/.code={
2   \tl_set:Nn \l__letgut_reference_text_tl {##1}
3 },

```

We define a custom package `tcolorbox`'s `result width` option that let us specify the width of the result which is `\linewidth` by default.

```
1 result~ width/.store~ in=\l__letgut_result_width_dim,
2 result~ width=\linewidth,
3 },
```

We define more specifically the style of the codes with results.

```
1 __letgut_code_result/.style={
2   __letgut_code={#1},
3   bicolor,
4   colbacklower=__letgut_backgroundResult,
5   segmentation~ at~ break=false,
6   top=\c__letgut_height_mentions_dim,
7   middle=\c__letgut_height_mentions_dim,
```

We want the side by side code/result examples to automatically be floating.

```
1 sidebyside@true/.code={%
2   \tcb@sidebysidetrue%
3   \tcb@isbreakablefalse%
4   \pgfkeysalso{floatplacement=ht}%
5   \pgfkeysalso{float}%
6   \pgfkeysalso{label={\g__letgut_label_ltx_example_str}}%
7   \tl_set:Nx \l__letgut_tmpa_tl {
8     \getpagerefnumber {
9       \g__letgut_callout_label_ltx_example_str
10    }
11  }
12  \tl_set:Nx \l__letgut_tmpb_tl {
13    \getpagerefnumber {
14      \g__letgut_label_ltx_example_str
15    }
16  }
17  \tl_if_eq:NNF \l__letgut_tmpa_tl \l__letgut_tmpb_tl
18  {
19    \l__letgut_reference_text_tl
20    \tl_set:Nn \l__letgut_reference_text_tl {
21      Cf.~\vref{\g__letgut_label_ltx_example_str}.
22    }
23    \pgfkeysalso{
24      drop~ shadow=black,
25      grow~ to~ left~ by=4cm,
26      boxed~ title~ style={sharp~ corners},
27    }
28    \pgfkeysalso{after~ title~ app=\c_space_tl (cf.~page~\thepage)}
29  }
30 },%
31 overlay={
32   \iftcb@sidebyside
33   \__letgut_code_result_mention_box:nn {segmentation.north} {code}
34   \__letgut_code_result_mention_box:nn {interior.north~ east} {résultat}
35   \else
36   \ifcase\tcbsegmentstate
37   % 0 = Box contains only an upper part
```

```

38   \_letgut_code_result_mention_box:nn {interior.north~ east} {code}
39   \or%
40   % 1 = Box contains an upper and a lower part
41   \_letgut_code_result_mention_box:nn {interior.north~ east} {code}
1     \int_compare:nNnT {\thetcbbreakpart} > {1} {~(suite)}
2   }
3   \_letgut_code_result_mention_box:nn {
4     [yshift=.1mm]segmentation.east
5   } {résultat}
6   \else%
7   % 2 = Box contains only a lower part
8   \_letgut_code_result_mention_box:nn {interior.north~ east} {résultat}
1     \int_compare:nNnT {\thetcbbreakpart} > {1} {~(suite)}
2   }
3   \fi
4   \fi
5   },
6   },
7   }

```

The package `tcolorbox` listings defined below make use of package `cleveref`'s features. But, since the latter package is loaded `\AddToHook{begindocument/before}`, the same is needed for these listings.

```

1 \AddToHook{begindocument/before}{

```

We now define the environments that let us display :

1. only  $\LaTeX$  code :

```

1 \DeclareTCBListing[
2   auto~ counter,
3   crefname={exemple}{exemples}
4 ]{ltx-code}{ !0{} }{%
5   \_letgut_code,
6   listing~ only,
7   #1%
8 }

```

1. both  $\LaTeX$  code and its result :

- (a) ordinary :

```

1 \DeclareTCBListing[
2   use~ counter~ from=ltx-code,
3   crefname={exemple}{exemples}
4 ]{ltx-code-result}{ !0{} }{%
5   \_letgut_code_result,
6   #1%
7 }

```

1. with the result obtained externally :

```

1 \DeclareTCBListing[
2   use~ counter~ from=ltx-code,
3   crefname={exemple}{exemples}
4 ]{ltx-code-external-result}{ 0{ } m }{%
5   __letgut_code_result,
6   listing~ and~ comment,
7   image~ comment={width=\l__letgut_result_width_dim}{#2},
8   center~ lower,
9   #1%
10 }
1 }

```

The examples with code and result side by side will be floating but we want the ones being of their call out pages to have before and after them a reduced vertical glue (`\g__letgut_reduced_intextsep_dim`). Hence we store the original glue (`\intextsep`) in a custom one (`\g__letgut_orig_intextsep_dim`) in order to retrieve the original skip for floats other than these ones.

```

1 \skip_const:Nn \c__letgut_orig_intextsep_skip {\intextsep}
2 \skip_const:Nn \c__letgut_reduced_intextsep_skip {
3   4\p@ \@plus .667\p@ \@minus .667\p@
4 }

```

We now use hooks in order to...

```

1 \AddToHook{env/ltx-code-result/before}{
2   \int_gincr:N \g__letgut_ltx_example_int
3   \str_set:Nx \g__letgut_label_ltx_example_str {
4     \c__letgut_label_ltx_example_str-
5     \int_use:N \g__letgut_ltx_example_int
6   }
7   \str_set:Nx \g__letgut_callout_label_ltx_example_str {
8     \c__letgut_callout_label_ltx_example_str-
9     \int_use:N \g__letgut_ltx_example_int
10  }
11  \label{\g__letgut_callout_label_ltx_example_str}
12  \tl_set:Nx \l__letgut_tmpa_tl {
13    \getpagerefnumber {
14      \g__letgut_callout_label_ltx_example_str
15    }
16  }
17  \tl_set:Nx \l__letgut_tmpb_tl {
18    \getpagerefnumber {
19      \g__letgut_label_ltx_example_str
20    }
21  }
22  \tl_if_eq:NNF \l__letgut_tmpa_tl \l__letgut_tmpb_tl
23  {
24    \skip_set_eq:NN \intextsep \c__letgut_reduced_intextsep_skip
25  }
26 }

```

Since the syntax highlighting is reset at each `\input`, the `ltx-code-*` environments above provide syntax highlighting only for the commands of the TeX dialects specified in the class. So we provide a specific command that let us specify (the dialects of) the

main language (TeX by default) for which we want syntax highlighting. This assumes that the commands and keywords of these packages are listed (properly, according to the listings package syntax) in the ‘lstlang0.sty’ or letgut-lstlang.sty files.

```

1 \cs_new_protected:Npn \__letgut_tcbset:n #1
2 {
3   \tcbset{
4     __letgut_code/.append~ style={
5       listing~ options~ app={
6         #1
7       }
8     }
9   }
10 }
11 \cs_new_protected:Npn \__letgut_alsolanguage_list:nn #1 #2
12 {

```

To reduce syntax highlighting conflicts, we reset all previous ones each time a new one is asked.

```

1   \lstset{%
2     style=__letgut_reset_listings_styles,%
3   }
4   \tl_if_empty:nTF {#1} {
5     \tl_set:Nx \l__letgut_tmpa_tl {
6       alsolanguage={#2}
7     }
8     \exp_args:NV \__letgut_tcbset:n
9     {
10      \l__letgut_tmpa_tl
11    }
12  }{
13    \seq_set_from_clist:Nn \l__letgut_tmpa_seq {#1}
14    \seq_set_map_x:NNn \l__letgut_tmpb_seq \l__letgut_tmpa_seq {
15      alsolanguage={[#1]#2}
16    }
17    \tl_set:Nx \l__letgut_tmpa_tl
18    {
19      \seq_use:Nn \l__letgut_tmpb_seq {,}
20    }
21    \exp_args:NV \__letgut_tcbset:n
22    {
23      \l__letgut_tmpa_tl
24    }
25  }
26 }
27 \NewDocumentCommand{\syntaxhl}{ O{TeX} m}{%
28   \__letgut_alsolanguage_list:nn {#2} {#1}
29 }

```

### Terminal listings

We define a command dedicated to terminal stdin and stdout.

```
1 \AddToHook{begindocument/before}{
```

We define a listing style specific to these terminal commands.

```

1 \definecolor{__letgut_terminal_prompt}{RGB}{204,0,0}
2 \colorlet{__letgut_terminal_comment}{gray!80}
3 \definecolor{__letgut_terminal_commands}{RGB}{241,124,81}
4 \definecolor{__letgut_terminal_keywords}{RGB}{173,127,168}
5 \definecolor{__letgut_terminal_variables}{RGB}{114,159,207}
6 \colorlet{__letgut_terminal_utilities}{__letgut_terminal_commands}
7 \definecolor{__letgut_terminal_strings}{RGB}{78,154,6}

1 \lstdefinestyle{__letgut_terminal_listings_style}{
2   commentstyle= \color{__letgut_terminal_comment},
3   keywordstyle= \color{__letgut_terminal_commands},
4   keywordstyle={[2]\color{__letgut_terminal_keywords}},
5   keywordstyle={[3]\color{__letgut_terminal_utilities}},
6   stringstyle= \color{__letgut_terminal_strings},
7   literate=*%
8   {$}\{\textcolor{__letgut_terminal_variables}{\$}}\{1}%$
9 }

```

We define a dialect which is missing in the package `listings`.

```

1 \lstdefinelanguage{terminal}{%
2   morekeywords={%
3     alias,bg,bind,break,builtin,caller,cd,command,compgen,%
4     complete,compopt,continue,declare,dirs,disown,echo,enable,%
5     eval,exec,exit,export,fc,fg,getopts,hash,help,history,%
6     jobs,kill,let,local,logout,mapfile,popd,printf,pushd,pwd,%
7     read,readarray,readonly,return,set,shift,shopt,source,%
8     suspend,test,times,trap,type,typeset,ulimit,umask,unalias,%
9     unset,wait,%
10  },%
11  morekeywords=[2]{%
12    case,do,done,elif,else,esac,fi,for,function,if,in,select,%
13    then,time,until,while,%
14  },%
15  morekeywords=[3]{%
16    apropos,apt,apt-get,aptitude,aspell,at,awk,base32,base64,%
17    basename,bash,bc,bzip2,cal,cat,cfdisk,chatr,chrp,%
18    chkconfig,chmod,chown,chpasswd,chroot,cksum,clear,cmp,comm,%
19    cp,cpio,cron,crontab,csplit,curl,cut,date,dc,dd,ddrescue,%
20    df,diff,diff3,dig,dir,dircolors,dirname,dmesg,dos2unix,%
21    dpkg,du,egrep,eject,env,ethtool,expand,expr,false,fdformat,%
22    fdisk,fgrep,file,find,fmt,fold,format,free,fsck,ftp,fuser,%
23    gawk,grep,groupadd,groupdel,groupmod,groups,gzip,head,%
24    hostname,htop,iconv,id,ifconfig,ifdown,ifup,import,install,%
25    iostat,ip,join,killall,less,link,ln,locate,logname,look,%
26    lpc,lpr,lprint,lprintd,lprintq,lprm,ls,lsattr,lsblk,lsof,%
27    lspci,make,man,mkdir,mkfifo,mkfile,mkisofs,mknod,mktemp,%
28    mmv,more,most,mount,mtools,mtr,mv,nc,netstat,nft,nice,nl,%
29    nohup,notify-send,nslookup,op,open,passwd,paste,pathchk,%
30    Perf,pgrep,ping,ps,kill,pr,printcap,printenv,ps,pv,quota,%
31    quotacheck,ram,rar,rcp,reboot,remsync,rename,renice,rev,rm,%
32    rmdir,rsync,scp,screen,sdiff,sed,seq,sftp,shuf,shutdown,%
33    sleep,slocate,sort,split,ss,ssh,stat,strace,su,sudo,sum,%
34    sync,tail,tar,tee,timeout,tmux,top,touch,tput,tr,%

```



```

35     traceroute, true, tsort, tty, umount, uname, unexpand, uniq, units, %
36     unix2dos, unrar, unshar, uptime, useradd, userdel, usermod, users, %
37     uuencode, uuencode, vdir, vi, vmstat, watch, wc, wget, whereis, %
38     which, who, whoami, write, xargs, xdg-open, xxd, xz, yes, zip, %
39     }, %
40     alsoletter={2346-}, %
41     morecomment=[l]\#, %
42     morestring=[d]", %
43     morestring=[d]', %
44     sensitive%
45 }[keywords, comments, strings]%

```

We define some colors used in the terminal listings.

```

1  \definecolor{__letgut_foreground_terminal_dark}{named}{black}
2  \colorlet{__letgut_background_terminal_dark_stdin}{
3    letgut_pagecolor!95!gray
4  }
5  \colorlet{__letgut_background_terminal_dark_stdout}{
6    __letgut_background_terminal_dark_stdin!60
7  }
8  \definecolor{__letgut_foreground_terminal_light}{named}{black}
9  \definecolor{__letgut_background_terminal_light_stdin}{rgb}{
10   0.99,0.975,0.98
11 }
12 \colorlet{__letgut_background_terminal_light_stdout}{
13   __letgut_background_terminal_light_stdin!40
14 }
1  \bool_if:NTF \g__letgut_paper_bool {
2    \colorlet{__letgut_foreground_terminal}{
3      __letgut_foreground_terminal_light
4    }
5    \colorlet{__letgut_background_terminal_stdin}{
6      __letgut_background_terminal_light_stdin
7    }
8    \colorlet{__letgut_background_terminal_stdout}{
9      __letgut_background_terminal_light_stdout
10   }
11  }{
12    \colorlet{__letgut_foreground_terminal}{
13      __letgut_foreground_terminal_dark
14    }
15    \colorlet{__letgut_background_terminal_stdin}{
16      __letgut_background_terminal_dark_stdin
17    }
18    \colorlet{__letgut_background_terminal_stdout}{
19      __letgut_background_terminal_dark_stdout
20    }
21  }

```

We define the style of the tcolorbox in which the terminal stdin and stdout will be displayed.

```

1  \tcbset{%
2    terminal/.style={%

```

```

3     colupper=__letgut_foreground_terminal,
4     collower=__letgut_foreground_terminal,
5     breakable,
6     segmentation~ at~ break=false,
7     boxrule=0mm,
8     before~ lower={\tcbset{every~ listing~ line={}}},
9     listing~ options={%
10        style=__letgut_terminal_listings_style,
11        language=terminal,
12    },
13    fontupper=\ttfamily,
14    fontlower=\ttfamily,
15  },
16 }

```

We now define the command.

```

1 \cs_new_protected:Npn \__letgut_terminal:nnnn #1 #2 #3 #4
2 {
3   \bool_set_false:N \l__letgut_tmpa_bool
4   \tl_if_empty:nTF {#3}{
5     \tl_if_empty:nTF {#4}{
6       \bool_set_true:N \l__letgut_tmpa_bool
7     }{
8       \tcbset{colback=__letgut_background_terminal_stdout}
9     }
10  }{
11    \tcbset{colback=__letgut_background_terminal_stdin}
12    \tl_if_empty:nF {#4}{
13      \tcbset{
14        bicolor,
15        colbacklower=__letgut_background_terminal_stdout,
16      }
17    }
18  }
19  \bool_if:NF \l__letgut_tmpa_bool {
20    \begin{tcolorbox}[terminal,#2]
21      \lstset{aboveskip=0pt}
22      \tl_if_empty:nF {#3}{
23        \tl_if_empty:nF {#1}{
24          \textcolor{__letgut_terminal_prompt}{%
25            \ttfamily%
26            \bfseries%
27            \__letgut_unselectable:n {#1\c_space_tl}
28          }
29        }
30        #3
31        \tl_if_empty:nF {#4}{
32          \tcblower
33        }
34      }
35      \tl_if_empty:nF {#4}{
36        \tl_if_empty:nF {#3}{

```

```

37         \lstset{aboveskip=0pt}
38     }
39     \tcbset{
40         every~ listing~ line={},
41         listing~ options~ app={
42             language={}
43         }
44     }
45     #4
46 }
47 \end{tcolorbox}
48 }
49 }
50 \NewDocumentCommand{\terminal}{ 0{\$} 0{ } +v +v}{
51     \__letgut_terminal:nnnn {#1} {#2} {#3} {#4}
52 }

```

We close the `\AddToHook{begindocument/before}` argument.

```
1 }
```

### Unicode characters with positions above 256

Unicode characters with positions above 256 cause troubles in listings. Here is a workaround for some of them (see <https://tex.stackexchange.com/a/25396>).

```

1 \lst@InputCatcodes
2 \def\lst@DefEC{%
3     \lst@CCECUse \lst@ProcessLetter
4     ^^80^^81^^82^^83^^84^^85^^86^^87^^88^^89^^8a^^8b^^8c^^8d^^8e^^8f%
5     ^^90^^91^^92^^93^^94^^95^^96^^97^^98^^99^^9a^^9b^^9c^^9d^^9e^^9f%
6     ^^a0^^a1^^a2^^a3^^a4^^a5^^a6^^a7^^a8^^a9^^aa^^ab^^ac^^ad^^ae^^af%
7     ^^b0^^b1^^b2^^b3^^b4^^b5^^b6^^b7^^b8^^b9^^ba^^bb^^bc^^bd^^be^^bf%
8     ^^c0^^c1^^c2^^c3^^c4^^c5^^c6^^c7^^c8^^c9^^ca^^cb^^cc^^cd^^ce^^cf%
9     ^^d0^^d1^^d2^^d3^^d4^^d5^^d6^^d7^^d8^^d9^^da^^db^^dc^^dd^^de^^df%
10    ^^e0^^e1^^e2^^e3^^e4^^e5^^e6^^e7^^e8^^e9^^ea^^eb^^ec^^ed^^ee^^ef%
11    ^^f0^^f1^^f2^^f3^^f4^^f5^^f6^^f7^^f8^^f9^^fa^^fb^^fc^^fd^^fe^^ff%
12    ^^201c% for “
13    ^^201d% for ”
14    ^^215b% for ½
15    ^^2122% for ™
16    ^^2019% for ’
17    ^^0153% for œ
18    ^^0152% for Œ
19    ^^20ac% for €
20    ^^27e8% for
21    ^^27e9% for
22    ^^00%
23 }
24 \lst@RestoreCatcodes

```

### Local config file

Each issue of the Lettre requires certain local configurations : configuration dedicated to the issue in question, particular packages used in the articles, specific configurations of the package `listings`, etc. In order to not clutter the main fichier

.tex of the Lettre, a local configuration file named localconf.tex, if present in the current directory, is automatically included at the end the preamble. And since this file is input in the current category régime (`\ExplSyntaxOn`), a `\ExplSyntaxOff` is automatically inserted at its beginning.

```

1 \file_if_exist:nT {./\c__letgut_local_config_file_tl}{
2   \@pushfilename
3   \xdef\@currname{\c__letgut_local_config_file_tl}
4   \input {./\c__letgut_local_config_file_tl}
5   \@popfilename
6 }

```

We don't want the book review entry types to be listed in the bibliography (they appears only thanks to the bookreview environment).

```

1 \ExecuteBibliographyOptions[bookreview]{skipbib,skiplab}
1 \endinput

```

## (bibtex) Data model

We give the (bibtex) data model that enriches the default one for several purposes :

- the books reviews,
- the books advertisements.

```

1 \ProvidesFile{letgut.lbx}[2024-10-07 v0.9.10 letgut localization]
2 \InheritBibliographyExtras{french}
3 \DeclareBibliographyStrings{
4   inherit      = {french},
5   number      = {{\no}{\no}},
6   volume      = {{volume}{vol\adddot}},
7   volumes     = {{volumes}{vol\adddot}},
8 }

```

We create the new bibliography driver bookreview (that seems to create the corresponding new entry).

```

1 \ProvidesFile{letgut.dbx}[2024-10-07 v0.9.10 letgut data model macros]
2 \DeclareBibliographyDriver{bookreview}{%
3   \usebibmacro{bibindex}%
4   \usebibmacro{begentry}%
5   \usebibmacro{author/editor+others/translator+others}%
6   \setunit{\printdelim{nametitle}}
7   \newblock
8   \usebibmacro{maintitle+title}%
9   \newunit
10  \printlist{language}%
11  \newunit\newblock
12  \usebibmacro{byauthor}%
13  \newunit\newblock
14  \usebibmacro{byeditor+others}%
15  \newunit\newblock
16  \printfield{edition}%
17  \newunit
18  \iffieldundef{maintitle}
19    {\printfield{volume}}%
20    \printfield{part}}
21  {}%

```

```

22 \newunit
23 \printfield{volumes}%
24 \newunit\newblock
25 \usebibmacro{series+number}%
26 \newunit\newblock
27 \printfield{note}%
28 \newunit\newblock
29 \usebibmacro{publisher+location+date}%
30 \newunit\newblock
31 \usebibmacro{chapter+pages}%
32 \newunit
33 \printfield{pagetotal}%
34 \newunit\newblock
35 \iftoggle{bbx:isbn}
36   {\printfield{isbn}}
37   {}%
38 \newunit\newblock
39 \usebibmacro{doi+eprint+url}%
40 \newunit\newblock
41 \usebibmacro{addendum+pubstate}%
42 \setunit{\bibpagerefpunct}\newblock
43 \usebibmacro{pageref}%
44 \newunit\newblock
45 \iftoggle{bbx:related}
46   {\usebibmacro{related:init}%
47     \usebibmacro{related}}
48   {}%
49   \finentrypunct
50 \usebibmacro{finentry}}

```

We provide a specific biblatex citation style .

```

1 \ProvidesFile{letgut.cbx}[2024-10-07 v0.9.10 letgut base citation style]
2 \RequireCitationStyle{numeric}

```

The books reviewed have their titles not only emphasized, but in bold face as well...

```

1 \DeclareFieldFormat[bookreview]{title}{\textbf{\emph{#1}}}

```

... but not their subtitles.

```

1 \renewbibmacro*{title}{%
2   \ifboolexpr{
3     test {\iffieldundef{title}}
4     and
5     test {\iffieldundef{subtitle}}
6   }
7   {}
8   {\printtext[title]{%
9     \printfield[titlecase]{title}%
10    \setunit{\subtitlepunct}}%
11   \printfield[emph]{subtitle}%
12   \newunit}%
13 \printfield{titleaddon}}

```

## Provided files

### Example file of an issue of the newsletter

```

1  % Hey, Emacs! This is a -*- mode: latex -*- file!
2
3  \documentclass{letgut}
4
5  \letgutsetup{
6    % % Option booléenne pour la version finale de la Lettre.
7    % % L'option contraire `draft` (par défaut) affiche
8    % % « Brouillon » en filigrane et actionne le package
9    % % `lua-typo`.
10   %
11   % , final
12   %
13   % % Option coloriant le fond de la page d'une couleur
14   % % par défaut (`1.0, 0.98, 0.94` en « rgb ») mais
15   % % modifiable au moyen de l'option `pagecolor` ci-dessous.
16   %
17   % , paper
18   %
19   % % Numéro de la Lettre
20   %
21   % , number=44
22   %
23   % % Date de la Lettre. Celle-ci est déduite de la
24   % % date du jour, mais peut être spécifiée sous la forme
25   % % AAAA-MM (avec garde-fous) ou librement
26   % % (p. ex. `date=Printemps 2021`).
27   %
28   % , date=2025-16
29   %
30   % % Couleur de la page, à spécifier selon le modèle « rgb ».
31   %
32   % , pagecolor={1.0, 0.1, 0.94}
33   %
34   % % Couleur des hyperliens, à spécifier selon le modèle
35   % % « named ».
36   %
37   % , allcolorlinks=cyan
38   %
39   % % Un (r)appel à cotisation est automatiquement ajouté
40   % % en 1re page. Si on ne le souhaite pas, il suffit de
41   % % passer l'option `membership-reminder=false`.
42   %
43   % , membership-reminder=false
44   %
45   % % Si un fichier `editorial.tex`, on s'en doute censé
46   % % contenir l'éditorial, est présent dans le répertoire
47   % % courant, son contenu est automatiquement ajouté en
48   % % 1re page. Si un tel fichier est absent du répertoire
49   % % courant, une alerte est affichée à la place, sauf si,

```

```

50      % % parce qu'on ne souhaite pas d'éditorial, on passe
51      % % l'option `editorial=false`.
52      %
53      % , editorial=false
54      %
55      % % Les informations concernant GUTenberg, si elles
56      % % figurent dans un fichier `informations-gut.tex`
57      % % présent dans le répertoire courant, sont
58      % % automatiquement ajoutées en dernière page.
59      % % Si on ne souhaite pas que figurent ces
60      % % informations, il suffit de passer l'option
61      % % `informations=false`.
62      %
63      % , informations=false
64      %
65      % % Lors de la conception d'un numéro de la Lettre,
66      % % il peut être utile d'avoir un plan détaillé au
67      % % maximum de l'ensemble du document. C'est ce que
68      % % permet l'option `detailedtoc`.
69      %
70      % , detailedtoc
71      %
72      % % Les fichiers sources sont attachés au PDF si et seulement si la
73      % % Lettre est
74      % % à la fois en version pour les lecteurs (option `for-readers` activée
75      % % par
76      % % défaut) et en sortie écran (option `screen` activée par défaut). L'
77      % % option
78      % % `reverse-files-attachement` inverse ce comportement par défaut.
79      %
80      % , reverse-files-attachement
81      %
82      }
83
84      \setmainfont{TeX Gyre Schola} % Par exemple
85
86      \usepackage[maths=both]{duckuments}
87      \usepackage{mwe}
88
89      % \addbibresource{biblio.bib}
90
91      \begin{document}
92      \duckument
93      \end{document}
94
95      %% Local Variables:
96      %% TeX-engine: luatex
97      %% TeX-master: t
98      %% End:

```

### Example of an editorial

```

1      Ceci est un intéressant éditorial de la \lettregut{}

```

```

2 dans lequel on peut causer de l'\ag{} et du \ca{}
3 de l'association. Il peut aussi y être question du \ctan.
4
5 \lipsum[1-5]
6
7 \begin{figure}[ht]
8   \centering
9   \includegraphics[width=.7\linewidth]{example-image}
10  \caption{Ducks ?}
11  \label{fig:ducks}
12 \end{figure}
13
14 \lipsum[6-10]

```

### Informations about GUTenberg

```

1 % Hey, Emacs! This is a -*- mode: latex -*- file!
2
3 \enlargethispage{1.5cm}
4 \scriptsize
5 \vspace*{-1cm}
6 \hspace*{-1.5cm}%
7 \ExplSyntaxOn
8 \raisebox{-\height+0.7\baselineskip}{%
9   \begin{minipage}[t]{.6\textwidth}%\vspace{0pt}%
10    \__letgut_orig_includegraphics*[width=\linewidth]{logo-gut.pdf}
11   \end{minipage}%
12 }%
13 \ExplSyntaxOff
14 \hfill%
15 \begin{minipage}[t]{.5\textwidth}%\vspace{0pt}%
16   \footnotesize\raggedleft%
17   Association \gut{}\ \
18   15 rue des Halles -- \textsc{bp} 74\ \
19   75001 Paris\ \
20   France\ \
21   \url{secretariat[at]gutenberg-asso[dot]fr}
22 \end{minipage}%
23
24 \begin{description}
25 \item[Site Internet :] \url{https://www.gutenberg-asso.fr/}
26 \item[\Cahiers{} :] \url{http://www.numdam.org/journals/CG/}
27 \item[Problèmes techniques :]
28   \leavevmode
29   \begin{description}
30 \item[la liste \texttt{gut} :]
31   \url{https://www.gutenberg-asso.fr/-Listes-de-diffusion-}
32 \item[le site \hologo{TeX}nique de questions et réponses :]
33   \url{https://texnique.fr/}
34 \item[la foire aux questions :]
35   \url{https://faq.gutenberg-asso.fr/}
36 \end{description}
37 \end{description}

```



```

38 %
39 \alertbox{%
40     Cette association est la vôtre : faites-nous part de
41     vos idées, de vos envies, de vos préoccupations
42     à l'adresse \url{secretariat[at]gutenberg-asso[dot]fr}.%
43 }
44
45 % \section[Association GUTenberg (tout sur l')]
46 % {Adhésion à l'association}
47 \title{Adhésion à l'association}
48 \label{letgut_label_adhesions}
49
50 \begin{itemize}
51 \item % Adhésions et abonnements
52     Les adhésions sont à renouveler en début d'année
53     pour l'année civile.
54     % \item Il n'y a pas de lettre de rappel, chaque membre
55     % doit faire son renouvellement annuel; %\hspace*{1em}
56     % merci de renvoyer spontanément le bulletin ci-dessous
57     % en début d'année.
58 \item Les administrations peuvent joindre un bon de commande
59     revêtu de la signature de la personne responsable ;
60     les étudiants doivent joindre un justificatif.
61     % \item Si vous souhaitez que vos coordonnées restent
62     % confidentielles, merci de le signaler.
63 \end{itemize}
64
65 \vspace*{-0.7cm}
66 \section{Tarifs \the\year}
67
68 Les membres de \gut\ peuvent adhérer à l'association
69 internationale, le \acf{tug}, et recevoir son bulletin
70 \tugboat{} à un tarif préférentiel :
71 \begin{description}
72 \item[tarif normal :] 65~€ (au lieu de 85~\$)
73 \item[tarif étudiant :] 40~€ (au lieu de 55~\$)
74 \end{description}
75 % (49~€50), étudiants et demandeurs d'emploi :
76 % 29~€, au lieu de 85\$ et % 65\$). Voir
77 % \url{%
78 % https://www.gutenberg-asso.fr/?Adherer-en-ligne%
79 % }.
80
81 \footnotesize
82 \begin{center}
83 \begin{tabular}{lr}
84 \toprule
85 \textbf{Type d'adhésion} & \textbf{Prix} \\ \
86 \midrule
87 Membre individuel & 30~€ \\ \
88 Membre individuel + adhésion \acs{tug} & 95~€ \\ \
89 Membre individuel étudiant/demandeur d'emploi & 15~€ \\ \

```

```

90     Membre individuel étudiant + adhésion \acs{tug} & 55~€      \\
91     Association d'étudiants                & 65~€      \\
92     Organisme à but non lucratif           & 130~€     \\
93     Organisme à but lucratif               & 229~€     \\
94     \bottomrule
95     \end{tabular}
96 \end{center}
97
98 \section{Règlements}
99
100 Les règlements peuvent s'effectuer par :
101 \begin{itemize}
102 \item \textbf{virement bancaire}%
103     \footnote{Nous vous remercions de \textbf{privilégier}
104     le \textbf{virement bancaire}.\label{fn:1}} (\textsc{iban} :
105     FR76 3000 3001 0900 0372 6086 280)%
106     \leavevmode
107
108     \alertbox{%
109     Veuillez à bien \emph{indiquer vos nom et prénom}
110     dans les références du virement !%
111     }
112 \item Paypal\footnotemark[\value{footnote}] :
113     \url{https://www.gutenberg-asso.fr/?Adherer-en-ligne}
114 \item bulletin et chèque\footnotemark[\value{footnote}] :
115     \url{https://www.gutenberg-asso.fr/?Adherer-a-l-association}
116 \end{itemize}
117
118 \vfill
119
120 \mbox{}
121
122 \vfill{}
123
124 \begin{center}
125     \begin{tblr}{
126     width=.9\linewidth,
127     colspec={
128     % < (Just not to disturb the parentheses
129     % balancing detection of my editor.)
130     >\bfseries}r@{ }X
131     },
132     vline{1,3}={solid},
133     hline{1,7}={solid},
134     rowsep=0mm,
135     row{1} = {abovesep+=.25cm},
136     row{2} = {belowsep+=.125cm},
137     row{6} = {belowsep+=.25cm},
138     % colsep=2.5mm,
139     }
140     \SetCell[c=2]{c} \emph{La \lettregut}\\
141     \SetCell[c=2]{c} \mdseries Bulletin irrégulomestriel

```

```

142     de l'association \gut\\
143     Directeur de la publication :
144     & \person{Bideault, Patrick} \\
145     Comité de rédaction :
146     & {Patrick Bideault, Denis Bitouzé, \\
147       Céline Chevalier, Maxime Chupin \& Bastien Dumont} \\
148     Adresse de la rédaction : &
149     {
150       Association \gut\\
151       15 rue des Halles -- \textsc{bp} 74\\
152       75001 Paris
153     }
154     \\
155     \acs{issn} : & \letgutissn
156     \end{tblr}
157     \end{center}
158     \clearpage

```

## Acronyms

```

1  % Hey, Emacs! This is a -*- mode: latex -*- file!
2
3  %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4  % Acronymes anglais %
5  %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
6  \letgutacro%
7  {CTAN}%
8  {\href{https://www.ctan.org/}{Comprehensive \hologo{TeX} Archive
9   Network}}%
10 [réseau complet d'archives \hologo{TeX}]
11
12 \letgutacro%
13 {PDF}%
14 {Portable Document Format}%
15 [format de document portable]
16
17 \letgutacro%
18 {URL}%
19 {Uniform Resource Locator}%
20 [localisateur uniforme de ressource ou, plus clairement, format des
21  adresses du Web]
22
23 \letgutacro%
24 {ORCID}%
25 {Open Researcher and Contributor \textsc{id}}%
26 [identifiant ouvert pour chercheur et contributeur]
27
28 \letgutacro%[extra-foreign=souvent librement traduit en \enquote{foire
29  %aux questions}]
30 {FAQ}%
31 {Frequently Asked Questions}%
32 [questions fréquemment posées]
33

```

```
34 \letgutamacro%
35 {SVG}%
36 {Scalable Vector Graphics}%
37 [graphiques vectoriels extensibles]
38
39 \letgutamacro%
40 {DNS}%
41 {Domain Name System}%
42 [système de noms de domaine]
43
44 \letgutamacro%
45 {VPS}%
46 {Virtual Private Server}%
47 [serveur dédié virtuel]
48
49 \letgutamacro%
50 {LDAP}%
51 {Lightweight Directory Access Protocol}%
52 [protocole d'accès à répertoire léger, système garantissant
53 l'authentification d'utilisateurs de plusieurs services dispersés]
54
55 \letgutamacro%
56 {OTF}%
57 {Open Type Format}%
58 []
59
60 \letgutamacro%
61 {DOI}%
62 {Digital Object Identifier}%
63 [identifiant numérique d'objet]
64
65 \letgutamacro%
66 {ISSN}%
67 {International Standard Serial Number}%
68 [numéro international normalisé des publications en série]
69
70 \letgutamacro%
71 {TUG}%
72 {\hologo{TeX} User Group}%
73 [groupe (international) d'utilisateurs de \hologo{TeX}]
74
75 \letgutamacro%
76 {WCAG}%
77 {Web Content Accessibility Guidelines}%
78 [directives sur l'accessibilité du contenu Web]
79
80 \letgutamacro%
81 {HTML}%
82 {HyperText Markup Language}%
83 [langage de balises pour l'hypertexte]
84
85 \letgutamacro%
```

```
86 {CSS}%
87 {Cascading Style Sheets}%
88 [feuilles de style en cascade]
89
90 \letgutacro%
91 {UTF}%
92 {Universal (Character Set) Transformation Format}%
93 [format de transformation (du jeu) universel (de caractères codés)]
94
95 \letgutacro%[short=\emph{Ti\emph{k}Z},short-format=\em,foreign-babel=
96     german,foreign-locale=allemand]
97 {TIKZ}%
98 {Ti\emph{k}Z ist \emph{kein} Zeichenprogramm}%
99 [Ti\emph{k}Z \emph{n'}est \emph{pas} un programme de dessin]
100
101 \letgutacro%
102 {PGF}%
103 {Portable Graphics Format}%
104 [format de graphiques portable]
105
106 \letgutacro%
107 {GPL}%
108 {\textsc{gnu} General Public License}%
109 [licence publique générale \textsc{gnu}]
110
111 \letgutacro%
112 {OFL}%
113 {SIL Open Font License}%
114 []
115
116 \letgutacro%
117 {DVI}%
118 {DeVice-Independent}%
119 [indépendant du type de périphérique]
120
121 \letgutacro%
122 {PS}%
123 {PostScript}%
124 []
125
126 \letgutacro%
127 {DVIPS}%
128 {\acs{dvi}-to-\acs{ps} (translator)}%
129 [(convertisseur) \acs{dvi} vers \acs{ps}]
130
131 \letgutacro%
132 {IPA}%
133 {International Phonetic Alphabet}%
134 [alphabet phonétique international]
135
136 \letgutacro%
137 {TIPA}%
```

```
137  {\hologo{TeX} \acs{ipa} or Tokyo \acs{ipa}}%
138  [alphabet phonétique international]
139
140  \letgutacro%
141  {XML}%
142  {eXtensible Markup Language}%
143  [langage de balisage extensible]
144
145  \letgutacro%
146  {APA}%
147  {American Psychological Association}%
148  [association américaine de psychologie]
149
150  \letgutacro%
151  {OS}%
152  {Operating System}%
153  [système d'exploitation]
154
155  \letgutacro%
156  {BSD}%
157  {Berkeley Software Distribution}%
158  [collection de logiciels de Berkeley]
159
160  \letgutacro%
161  {IMAP}%
162  {Internet Message Access Protocol}%
163  []
164
165  \letgutacro%
166  {SMTP}%
167  {Simple Mail Transfer Protocol}%
168  [protocole simple de transfert de courrier]
169
170  \letgutacro%
171  {RTF}%
172  {Rich Text Format}%
173  [format de texte enrichi]
174
175  \letgutacro%
176  {WYSIWYG}%
177  {What You See Is What You Get}%
178  [ce que vous voyez est ce que vous obtenez]
179
180  \letgutacro%
181  {ISO}%
182  {\href{https://www.iso.org/home.html}{International Organization for
183   Standardization}}%
184  [\href{https://www.iso.org/fr/home.html}{organisation internationale de
185   normalisation}]
186
187  \letgutacro%
188  {OFF}%
```

```

189  {Open Font Format}%
190  [format de fonte ouvert]
191
192  \letgutacro%
193  {CSV}%
194  {Comma-separated values}%
195  [valeurs séparées par des virgules]
196
197  \letgutacro%
198  {YAML}%
199  {\textsc{yaml} Ain't Markup Language}%
200  [\textsc{yaml} n'est pas un langage de balisage (acronyme récursif)]
201
202  \letgutacro%
203  {UCA}%
204  {Unicode Collation Algorithm}%
205  [algorithme de tris d'Unicode]
206
207  \letgutacro%
208  {NFSS}%
209  {New Font Selection Scheme}%
210  [nouveau schéma de sélection de fonte]
211
212  \letgutacro%
213  {ASCII}%
214  {American Standard Code for Information Interchange}%
215  [code américain normalisé pour l'échange d'information]
216
217  \letgutacro%
218  {TDS}%
219  {\TeX{ } Directory Structure}%
220  [structure de répertoire de \TeX{ }]
221
222  %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
223  % Acronymes français %
224  %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
225  \letgutacro%
226  {SMAI}%
227  {\href{http://smai.emath.fr/}{Société de Mathématiques Appliquées et
228   Industrielles}}%
229
230  \letgutacro%
231  {AG}%
232  {Assemblée Générale}%
233
234  \letgutacro%
235  {CA}%
236  {Conseil d'Administration}%
237
238  \letgutacro%
239  {SHS}%
240  {Sciences Humaines et Sociales}%

```

```
241
242 \letgutacro%
243 {IREM}%
244 {\href{https://www.univ-irem.fr/}{Instituts de Recherche sur
245   l'Enseignement des Mathématiques}}%
246
247 \letgutacro%
248 {MEEF}%
249 {Métiers de l'Enseignement, de l'Éducation et de la Formation}%
250
251 \letgutacro%
252 {ECM}%
253 {\href{https://texnique.fr/osqa/faq/\#custom-id-ecm}{Exemple Complet
254   Minimal}}%
255
256 \letgutacro%
257 {INSPÉ}%
258 {\href{https://www.reseau-inspe.fr/}{Instituts Nationaux Supérieurs du
259   Professorat et de l'Éducation}}%
260
261 \letgutacro[short=\textsc{gra}pp\textsc{a},short-format=\upshape]
262 {GRAppA}%
263 {Groupe de recherche en Apprentissage Automatique}%
264
265 \letgutacro%
266 {BBB}%
267 {BigBlueButton}%
268
269 \letgutacro%
270 {CV}%
271 {Curriculum Vitæ}%
272
273 \letgutacro%
274 {RGPD}%
275 {Règlement Général sur la Protection des Données}%
276
277 \letgutacro%
278 {NDLR}%
279 {Note de la Rédaction}%
280
281 \letgutacro%
282 {BTS}%
283 {Brevet de Technicien Supérieur}%
284
285 \letgutacro%
286 {APMEP}%
287 {Association des Professeurs de Mathématiques de l'Enseignement Public}%
288
289 \letgutacro%
290 {PAO}%
291 {Publication Assistée par Ordinateur}%
```



**Language driver file**

```

1 % \lst@definlanguage[...]{TeX}{%
2 % % Control sequences names
3 % moretexcs={%
4 % },%
5 % % Keywords of class 1 : keywords that contain other characters
6 % % (since of the same class as the ones specified as 'otherkeywords')
7 % morekeywords={%
8 % },%
9 % % Keywords of class 2 : environments names
10 % morekeywords=[2]{%
11 % },%
12 % % Keywords of class 3 : mandatory arguments (not environments) &
13 % % optional arguments which are keys (in key=value)
14 % morekeywords=[3]{%
15 % },%
16 % % Keywords of class 4 : values of keys (in key=value)
17 % morekeywords=[4]{%
18 % },%
19 % % Keywords of class 5 : arguments specifications (after ":" in expl3
20 % % syntax)
21 % morekeywords=[5]{%
22 % },%
23 % % Keywords of class 6 : current package name (and possibly derived
24 % % packages)
25 % morekeywords=[6]{%
26 % %
27 % },%
28 % % otherkeywords={},
29 % % alsoletter={},
30 % % alsodigit={},%
31 % % alsoother={},%
32 % sensitive,%
33 % }[keywords, tex, comments]
34
35 \lst@definlanguage[lstfiracode]{TeX}{%
36 % Control sequences names
37 moretexcs={%
38 % },%
39 % Keywords of class 1 : keywords that contain other characters
40 % (since of the same class as the ones specified as 'otherkeywords')
41 morekeywords={%
42 % },%
43 % Keywords of class 2 : environments names
44 morekeywords=[2]{%
45 % },%
46 % Keywords of class 3 : mandatory arguments (not environments) &
47 % optional arguments which are keys (in key=value)
48 morekeywords=[3]{%
49 % },%
50 % Keywords of class 4 : values of keys (in key=value)
51 morekeywords=[4]{%

```

```

52     FiraCodeStyle%
53   },%
54   % Keywords of class 5 : arguments specifications (after ":" in expl3
55   % syntax)
56   morekeywords=[5]{%
57   },%
58   % Keywords of class 6 : current package name (and possibly derived
59   % packages)
60   morekeywords=[6]{%
61     lstfiracode%
62   },%
63   % otherkeywords={},
64   % alsoletter={},
65   % alsodigit={},%
66   % alsoother={},%
67   sensitive,%
68 }[keywords, tex, comments]
69
70 \lst@definlanguage[Scrabble]{TeX}{%
71   % Control sequences names
72   moretexcs={%
73     PlateauScrabble, ScrabblePlaceMot,%
74     ScrabbleBoard, ScrabblePutWord,%
75   },%
76   % Keywords of class 1 : keywords that contain other characters
77   % (since of the same class as the ones specified as 'otherkeywords')
78   morekeywords=%
79   },%
80   % Keywords of class 2 : environments names
81   morekeywords=[2]{%
82     EnvScrabble,%
83   },%
84   % Keywords of class 3 : mandatory arguments (not environments) &
85   % optional arguments which are keys (in key=value)
86   morekeywords=[3]{%
87     FR, EN, DE, ES, GR, SP,%
88     Echelle, Echellelabels, Cadre, Labels, Aide,%
89     Scale, ScaleLabels, Border, Help,%
90   },%
91   % Keywords of class 4 : values of keys (in key=value)
92   morekeywords=[4]{%
93   },%
94   % Keywords of class 5 : arguments specifications (after ":" in expl3
95   % syntax)
96   morekeywords=[5]{%
97   },%
98   % Keywords of class 6 : current package name (and possibly derived
99   % packages)
100  morekeywords=[6]{%
101    Scrabble%
102  },%
103  % otherkeywords={},

```

```

104     % alsoletter={},
105     % alsodigit={},%
106     % alsoother={},%
107     sensitive,%
108 }[keywords,tex,comments]
109
110 \lst@definlanguage[FiraSans]{TeX}{%
111     % Control sequences names
112     moretexcs={%
113         sfigures,firaoldstyle,firalining,firatabular,firaproportional,
114         firathin,firalight,firaextralight,firaultralight,firamedium,firabook
115         ,
116         firasemibold,firaextrabold,firaheavy,%
117     }%
118     % Keywords of class 1 : keywords that contain other characters
119     % (since of the same class as the ones specified as 'otherkeywords')
120     morekeywords={%
121     },%
122     % Keywords of class 2 : environments names
123     morekeywords=[2]{%
124     },%
125     % Keywords of class 3 : mandatory arguments (not environments) &
126     % optional arguments which are keys (in key=value)
127     morekeywords=[3]{%
128         sfdefault,scaled,scale,type1,lining,lf,oldstyle,osf,tabular,t,
129         proportional,%
130         p,book,medium,mb,semibold,sb,light,l,extralight,ultralight,thin,%
131         extrabold,heavy,default,%
132     },%
133     % Keywords of class 4 : values of keys (in key=value)
134     morekeywords=[4]{%
135     },%
136     % Keywords of class 5 : arguments specifications (after ":" in expl3
137     % syntax)
138     morekeywords=[5]{%
139     },%
140     % Keywords of class 6 : current package name (and possibly derived
141     % packages)
142     morekeywords=[6]{%
143         FiraSans%
144     },%
145     % otherkeywords={},
146     alsoletter={1},
147     % alsodigit={},%
148     % alsoother={},%
149     sensitive,%
150 }[keywords,tex,comments]
151
152 \lst@definlanguage[luagcd]{TeX}{%
153     % Control sequences names
154     moretexcs={%
155         luagcdwithsteps,%

```

```

154     },%
155     % Keywords of class 1 : keywords that contain other characters
156     % (since of the same class as the ones specified as 'otherkeywords')
157     morekeywords={%
158     },%
159     % Keywords of class 2 : environments names
160     morekeywords=[2]{%
161     },%
162     % Keywords of class 3 : mandatory arguments (not environments) &
163     % optional arguments which are keys (in key=value)
164     morekeywords=[3]{%
165     },%
166     % Keywords of class 4 : values of keys (in key=value)
167     morekeywords=[4]{%
168     },%
169     % Keywords of class 5 : arguments specifications (after ":" in expl3
170     % syntax)
171     morekeywords=[5]{%
172     },%
173     % Keywords of class 6 : current package name (and possibly derived
174     % packages)
175     morekeywords=[6]{%
176     luagcd%
177     },%
178     % otherkeywords={},
179     % alsoletter={},
180     % alsodigit={},%
181     % alsoother={},%
182     sensitive,%
183 }[keywords, tex, comments]
184
185 \lst@definlanguage[maze]{TeX}{%
186     % Control sequences names
187     moretexcs={%
188     maze,%
189     },%
190     % Keywords of class 1 : keywords that contain other characters
191     % (since of the same class as the ones specified as 'otherkeywords')
192     morekeywords={%
193     },%
194     % Keywords of class 2 : environments names
195     morekeywords=[2]{%
196     },%
197     % Keywords of class 3 : mandatory arguments (not environments) &
198     % optional arguments which are keys (in key=value)
199     morekeywords=[3]{%
200     },%
201     % Keywords of class 4 : values of keys (in key=value)
202     morekeywords=[4]{%
203     },%
204     % Keywords of class 5 : arguments specifications (after ":" in expl3
205     % syntax)

```

```
206     morekeywords=[5]{%
207     },%
208     % Keywords of class 6 : current package name (and possibly derived
209     % packages)
210     morekeywords=[6]{%
211         maze%
212     },%
213     % otherkeywords={},
214     % alsoletter={},
215     % alsodigit={},%
216     % alsoother={},%
217     sensitive,%
218 }[keywords, tex, comments]
219
220 \lst@definlanguage[animate]{TeX}{%
221     % Control sequences names
222     moretexcs={%
223         multiframe,%
224     },%
225     % Keywords of class 1 : keywords that contain other characters
226     % (since of the same class as the ones specified as 'otherkeywords')
227     morekeywords={%
228     },%
229     % Keywords of class 2 : environments names
230     morekeywords=[2]{%
231         animateinline,
232     },%
233     % Keywords of class 3 : mandatory arguments (not environments) &
234     % optional arguments which are keys (in key=value)
235     morekeywords=[3]{%
236         poster, controls, palindrome, bb, rx,%
237     },%
238     % Keywords of class 4 : values of keys (in key=value)
239     morekeywords=[4]{%
240         first,%
241     },%
242     % Keywords of class 5 : arguments specifications (after ":" in expl3
243     % syntax)
244     morekeywords=[5]{%
245     },%
246     % Keywords of class 6 : current package name (and possibly derived
247     % packages)
248     morekeywords=[6]{%
249         animate%
250     },%
251     % otherkeywords={},
252     % alsoletter={},
253     % alsodigit={},%
254     % alsoother={},%
255     sensitive,%
256 }[keywords, tex, comments]
257
```

```

258 \lst@definlanguage[tikz-mirror-lens]{TeX}{%
259   % Control sequences names
260   moretexcs={%
261     lensSphGaussFixed,%
262   },%
263   % Keywords of class 1 : keywords that contain other characters
264   % (since of the same class as the ones specified as 'otherkeywords')
265   morekeywords={%
266   },%
267   % Keywords of class 2 : environments names
268   morekeywords=[2]{%
269   },%
270   % Keywords of class 3 : mandatory arguments (not environments) &
271   % optional arguments which are keys (in key=value)
272   morekeywords=[3]{%
273   },%
274   % Keywords of class 4 : values of keys (in key=value)
275   morekeywords=[4]{%
276   },%
277   % Keywords of class 5 : arguments specifications (after ":" in expl3
278   % syntax)
279   morekeywords=[5]{%
280   },%
281   % Keywords of class 6 : current package name (and possibly derived
282   % packages)
283   morekeywords=[6]{%
284     tikz-mirror-lens%
285   },%
286   % otherkeywords={},
287   alsoletter={-},
288   % alsodigit={},%
289   % alsoother={},%
290   sensitive,%
291 }[keywords, tex, comments]
292
293 \lst@definlanguage[jeuxcartes]{TeX}{%
294   % Control sequences names
295   moretexcs={%
296     MainCartesJeu,%
297   },%
298   % Keywords of class 1 : keywords that contain other characters
299   % (since of the same class as the ones specified as 'otherkeywords')
300   morekeywords={%
301   },%
302   % Keywords of class 2 : environments names
303   morekeywords=[2]{%
304   },%
305   % Keywords of class 3 : mandatory arguments (not environments) &
306   % optional arguments which are keys (in key=value)
307   morekeywords=[3]{%
308     Eventail,10C,10K,AC,AT,AP,%
309   },%

```

```
310 % Keywords of class 4 : values of keys (in key=value)
311 morekeywords=[4]{%
312 },%
313 % Keywords of class 5 : arguments specifications (after ":" in expl3
314 % syntax)
315 morekeywords=[5]{%
316 },%
317 % Keywords of class 6 : current package name (and possibly derived
318 % packages)
319 morekeywords=[6]{%
320 jeuxcartes%
321 },%
322 % otherkeywords={},
323 alsoletter={0123456789},
324 % alsodigit={},%
325 % alsoother={},%
326 sensitive,%
327 }[keywords, tex, comments]
328
329 \lst@definlanguage[plex-otf]{TeX}{%
330 % Control sequences names
331 moretexcs={%
332 },%
333 % Keywords of class 1 : keywords that contain other characters
334 % (since of the same class as the ones specified as 'otherkeywords')
335 morekeywords={%
336 },%
337 % Keywords of class 2 : environments names
338 morekeywords=[2]{%
339 },%
340 % Keywords of class 3 : mandatory arguments (not environments) &
341 % optional arguments which are keys (in key=value)
342 morekeywords=[3]{%
343 RM
344 },%
345 % Keywords of class 4 : values of keys (in key=value)
346 morekeywords=[4]{%
347 },%
348 % Keywords of class 5 : arguments specifications (after ":" in expl3
349 % syntax)
350 morekeywords=[5]{%
351 },%
352 % Keywords of class 6 : current package name (and possibly derived
353 % packages)
354 morekeywords=[6]{%
355 plex-otf%
356 },%
357 % otherkeywords={},
358 % alsoletter={},
359 % alsodigit={},%
360 % alsoother={},%
361 sensitive,%
```

```

362 }[keywords,tex,comments]
363
364 \lst@definlanguage[mathtools]{TeX}{%
365   % Control sequences names
366   moretexcs={%
367     mathclap,DeclarePairedDelimiter,%
368   },%
369   % Keywords of class 1 : keywords that contain other characters
370   % (since of the same class as the ones specified as 'otherkeywords')
371   morekeywords={%
372   },%
373   % Keywords of class 2 : environments names
374   morekeywords=[2]{%
375   },%
376   % Keywords of class 3 : mandatory arguments (not environments) &
377   % optional arguments which are keys (in key=value)
378   morekeywords=[3]{%
379   },%
380   % Keywords of class 4 : values of keys (in key=value)
381   morekeywords=[4]{%
382   },%
383   % Keywords of class 5 : arguments specifications (after ":" in expl3
384   % syntax)
385   morekeywords=[5]{%
386   },%
387   % Keywords of class 6 : current package name (and possibly derived
388   % packages)
389   morekeywords=[6]{%
390     %
391   },%
392   % otherkeywords={},
393   % alsoletter={},
394   % alsodigit={},%
395   % alsoother={},%
396   sensitive,%
397 }[keywords,tex,comments]
398
399 \lst@definlanguage[tikz-ext]{TeX}{%
400   % Control sequences names
401   moretexcs={%
402   },%
403   % Keywords of class 1 : keywords that contain other characters
404   % (since of the same class as the ones specified as 'otherkeywords')
405   morekeywords={%
406   },%
407   % Keywords of class 2 : environments names
408   morekeywords=[2]{%
409   },%
410   % Keywords of class 3 : mandatory arguments (not environments) &
411   % optional arguments which are keys (in key=value)
412   morekeywords=[3]{%
413     distancebetween,%

```



```
414     },%
415     % Keywords of class 4 : values of keys (in key=value)
416     morekeywords=[4]{%
417     },%
418     % Keywords of class 5 : arguments specifications (after ":" in expl3
419     % syntax)
420     morekeywords=[5]{%
421     },%
422     % Keywords of class 6 : current package name (and possibly derived
423     % packages)
424     morekeywords=[6]{%
425         tikz-ext%
426     },%
427     % otherkeywords={},
428     % alsoletter={},
429     % alsodigit={},%
430     % alsoother={},%
431     sensitive,%
432 }[keywords,tex,comments]
433
434 \lst@definlanguage[tikzfill]{TeX}{%
435     % Control sequences names
436     moretexcs={%
437     },%
438     % Keywords of class 1 : keywords that contain other characters
439     % (since of the same class as the ones specified as 'otherkeywords')
440     morekeywords={%
441     },%
442     % Keywords of class 2 : environments names
443     morekeywords=[2]{%
444     },%
445     % Keywords of class 3 : mandatory arguments (not environments) &
446     % optional arguments which are keys (in key=value)
447     morekeywords=[3]{%
448         pattern,hexagon,cycle,color,
449     },%
450     % Keywords of class 4 : values of keys (in key=value)
451     morekeywords=[4]{%
452     },%
453     % Keywords of class 5 : arguments specifications (after ":" in expl3
454     % syntax)
455     morekeywords=[5]{%
456     },%
457     % Keywords of class 6 : current package name (and possibly derived
458     % packages)
459     morekeywords=[6]{%
460         tikzfill
461     },%
462     % otherkeywords={},
463     % alsoletter={},
464     % alsodigit={},%
465     % alsoother={},%
```

```

466     sensitive,%
467 }[keywords, tex, comments]
468
469 \lst@definlanguage[unicodemath]{TeX}{%
470     % Control sequences names
471     moretexcs={%
472         symscr, symbb, symfrac, symsfup, symffit, symtt, setmathfont,%
473     },%
474     % Keywords of class 1 : keywords that contain other characters
475     % (since of the same class as the ones specified as 'otherkeywords')
476     morekeywords={%
477     },%
478     % Keywords of class 2 : environments names
479     morekeywords=[2]{%
480     },%
481     % Keywords of class 3 : mandatory arguments (not environments) &
482     % optional arguments which are keys (in key=value)
483     morekeywords=[3]{%
484         range, mathrm,%
485     },%
486     % Keywords of class 4 : values of keys (in key=value)
487     morekeywords=[4]{%
488         up, it, bb, bbit, scr, cal, bfcalf, frak, tt, sfup, sfit, bfup, bfit, bfscr,
489         bffrak,%
490         bbsfup, bbsffit, sym,%
491     },%
492     % Keywords of class 5 : arguments specifications (after ":" in expl3
493     % syntax)
494     morekeywords=[5]{%
495     },%
496     % Keywords of class 6 : current package name (and possibly derived
497     % packages)
498     morekeywords=[6]{%
499         unicode-math
500     },%
501     % otherkeywords={},
502     alsoletter={-},
503     % alsodigit={},%
504     % alsoother={},%
505     sensitive,%
506 }[keywords, tex, comments]
507
508 \lst@definlanguage[xcharter-otf]{TeX}{%
509     % Control sequences names
510     moretexcs={%
511         Bbbone, Bbbk,%
512     },%
513     % Keywords of class 1 : keywords that contain other characters
514     % (since of the same class as the ones specified as 'otherkeywords')
515     morekeywords={%
516     },%
517     % Keywords of class 2 : environments names

```

```

517     morekeywords=[2]{%
518     },%
519     % Keywords of class 3 : mandatory arguments (not environments) &
520     % optional arguments which are keys (in key=value)
521     morekeywords=[3]{%
522         range
523     },%
524     % Keywords of class 4 : values of keys (in key=value)
525     morekeywords=[4]{%
526     },%
527     % Keywords of class 5 : arguments specifications (after ":" in expl3
528     % syntax)
529     morekeywords=[5]{%
530     },%
531     % Keywords of class 6 : current package name (and possibly derived
532     % packages)
533     morekeywords=[6]{%
534         xcharter-otf
535     },%
536     % otherkeywords={},
537     alsoletter={-},
538     % alsodigit={},%
539     % alsoother={},%
540     sensitive,%
541 }[keywords,tex,comments]
542
543 \lst@definelanguage[braille]{TeX}{%
544     % Control sequences names
545     moretexcs={%
546         braille
547     },%
548     % Keywords of class 1 : keywords that contain other characters
549     % (since of the same class as the ones specified as 'otherkeywords')
550     morekeywords={%
551     },%
552     % Keywords of class 2 : environments names
553     morekeywords=[2]{%
554     },%
555     % Keywords of class 3 : mandatory arguments (not environments) &
556     % optional arguments which are keys (in key=value)
557     morekeywords=[3]{%
558     },%
559     % Keywords of class 4 : values of keys (in key=value)
560     morekeywords=[4]{%
561     },%
562     % Keywords of class 5 : arguments specifications (after ":" in expl3
563     % syntax)
564     morekeywords=[5]{%
565     },%
566     % Keywords of class 6 : current package name (and possibly derived
567     % packages)
568     morekeywords=[6]{%

```

```

569     %
570   },%
571   % otherkeywords={},
572   % alsoletter={},
573   % alsodigit={},%
574   % alsoother={},%
575   sensitive,%
576 }[keywords, tex, comments]
577
578 \lst@definlanguage[swungdash]{TeX}{%
579   % Control sequences names
580   moretexcs={%
581     swungdash
582   },%
583   % Keywords of class 1 : keywords that contain other characters
584   % (since of the same class as the ones specified as 'otherkeywords')
585   morekeywords={%
586   },%
587   % Keywords of class 2 : environments names
588   morekeywords=[2]{%
589   },%
590   % Keywords of class 3 : mandatory arguments (not environments) &
591   % optional arguments which are keys (in key=value)
592   morekeywords=[3]{%
593   },%
594   % Keywords of class 4 : values of keys (in key=value)
595   morekeywords=[4]{%
596   },%
597   % Keywords of class 5 : arguments specifications (after ":" in expl3
598   % syntax)
599   morekeywords=[5]{%
600   },%
601   % Keywords of class 6 : current package name (and possibly derived
602   % packages)
603   morekeywords=[6]{%
604     %
605   },%
606   % otherkeywords={},
607   % alsoletter={},
608   % alsodigit={},%
609   % alsoother={},%
610   sensitive,%
611 }[keywords, tex, comments]
612
613
614 \lst@definlanguage[simples-matrices]{TeX}{%
615   % Control sequences names
616   moretexcs={%
617     matrice
618   },%
619   % Keywords of class 1 : keywords that contain other characters
620   % (since of the same class as the ones specified as 'otherkeywords')

```

```

621     morekeywords={%
622     },%
623     % Keywords of class 2 : environments names
624     morekeywords=[2]{%
625     },%
626     % Keywords of class 3 : mandatory arguments (not environments) &
627     % optional arguments which are keys (in key=value)
628     morekeywords=[3]{%
629     b,%
630     },%
631     % Keywords of class 4 : values of keys (in key=value)
632     morekeywords=[4]{%
633     },%
634     % Keywords of class 5 : arguments specifications (after ":" in expl3
635     % syntax)
636     morekeywords=[5]{%
637     },%
638     % Keywords of class 6 : current package name (and possibly derived
639     % packages)
640     morekeywords=[6]{%
641     %
642     },%
643     % otherkeywords={},
644     % alsoletter={},
645     % alsodigit={},%
646     % alsoother={},%
647     sensitive,%
648 }[keywords,tex,comments]
649
650 \lst@definlanguage[customdice]{TeX}{%
651     % Control sequences names
652     moretexcs={%
653     dice
654     },%
655     % Keywords of class 1 : keywords that contain other characters
656     % (since of the same class as the ones specified as 'otherkeywords')
657     morekeywords={%
658     },%
659     % Keywords of class 2 : environments names
660     morekeywords=[2]{%
661     },%
662     % Keywords of class 3 : mandatory arguments (not environments) &
663     % optional arguments which are keys (in key=value)
664     morekeywords=[3]{%
665     violet,yellow
666     },%
667     % Keywords of class 4 : values of keys (in key=value)
668     morekeywords=[4]{%
669     },%
670     % Keywords of class 5 : arguments specifications (after ":" in expl3
671     % syntax)
672     morekeywords=[5]{%

```

```

673     },%
674     % Keywords of class 6 : current package name (and possibly derived
675     % packages)
676     morekeywords=[6]{%
677         %
678     },%
679     % otherkeywords={},
680     % alsoletter={},
681     % alsodigit={},%
682     % alsoother={},%
683     sensitive,%
684 }[keywords, tex, comments]
685
686 \lst@definlanguage[pingu]{TeX}{%
687     % Control sequences names
688     moretexcs={%
689         pingu
690     },%
691     % Keywords of class 1 : keywords that contain other characters
692     % (since of the same class as the ones specified as 'otherkeywords')
693     morekeywords={%
694     },%
695     % Keywords of class 2 : environments names
696     morekeywords=[2]{%
697     },%
698     % Keywords of class 3 : mandatory arguments (not environments) &
699     % optional arguments which are keys (in key=value)
700     morekeywords=[3]{%
701         left, wing, wave, right, grab, eyes, shiny, cup,%
702     },%
703     % Keywords of class 4 : values of keys (in key=value)
704     morekeywords=[4]{%
705     },%
706     % Keywords of class 5 : arguments specifications (after ":" in expl3
707     % syntax)
708     morekeywords=[5]{%
709     },%
710     % Keywords of class 6 : current package name (and possibly derived
711     % packages)
712     morekeywords=[6]{%
713         %
714     },%
715     % otherkeywords={},
716     % alsoletter={},
717     % alsodigit={},%
718     % alsoother={},%
719     sensitive,%
720 }[keywords, tex, comments]%
721
722 \lst@definlanguage[letgut]{TeX}{%
723     % Control sequences names
724     moretexcs={%

```

```

725     letgutsetup, title, subtitle, author, francophony, person, author, %
726     package, package*, class, class*, software, software*, file, file*, %
727     foreignloc, latinloc, gutenberg, gut, lettre, lettregut, Cahier, %
728     Cahiers, letgut, letgutcls, knuth, lampport, tugboat, item*, letgutacro, %
729     separator, alertbox, terminal, inputarticle, lettrenumber, solution, %
730     rebussolution, Ucode, %
731     }, %
732     % Keywords of class 1 : keywords that contain other characters (since
733     % of the same class as the ones specified as 'otherkeywords')
734     morekeywords={%
735     }, %
736     % Keywords of class 2 : environments names
737     morekeywords=[2]{%
738     ctannews, ltx-code, ltx-code-result, ltx-code-external-result, %
739     bookreview, announcement, rebus, %
740     }, %
741     % Keywords of class 3 : mandatory arguments (not environments) &
742     % optional arguments which are keys (in key=value)
743     morekeywords=[3]{%
744     for-authors, for-readers, draft, final, screen, paper, number, date, %
745     pagecolor, allcolorlinks, membership-reminder, editorial, informations,
746     %
747     title, addon, result width, reference, text, title, reviewer, bibkey, %
748     frontcover, price, result, and, no, solution, color, toc, title, %
749     }, %
750     % Keywords of class 4 : values of keys (in key=value)
751     morekeywords=[4]{%
752     }, %
753     % Keywords of class 5 : arguments specifications (after ":" in expl3
754     % syntax)
755     morekeywords=[5]{%
756     }, %
757     % Keywords of class 6 : current package name (and possibly derived
758     % packages)
759     morekeywords=[6]{%
760     letgut%
761     }, %
762     % otherkeywords={}, %
763     alsoletter={-\ }, %
764     % alsodigit={}, %
765     alsoother={*}, %
766     % alsoother={}, %
767     sensitive, %
768     }[keywords, tex, comments]%
769     %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
770     % LaTeX texcs and keywords that are missing in `listings` driver file
771     %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
772     \lst@definlanguage[extendedLaTeX]{TeX}{%
773     % Control sequences names
774     moretexcs={%
775     Huge, LARGE, Large, LoadClass, NewCommandCopy, RequirePackage, %

```

```

776 ShowCommand,abovecaptionskip,abstractname,appendix,appendixname,%
777 arraycolsep,arrayrulewidth,author,backmatter,baselinestretch,%
778 belowcaptionskip,bf,bibindent,bibName,bigskipamount,bottomfraction,%
779 brokenpenalty,cal,chapter,chaptermark,chaptername,clubpenalty,%
780 columnsep,columnseprule,contentname,date,dblfloatpagefraction,%
781 dblfloatsep,dbltextfloatsep,dbltopfraction,descriptionlabel,%
782 displaywidowpenalty,doublerulesep,evensidemargin,fboxrule,fboxsep,%
783 figurename,floatpagefraction,floatsep,footins,footnoterule,%
784 footnotesep,footnotesize,footskip,frontmatter,headheight,headsep,%
785 huge,indexname,indexspace,interlinepenalty,intextsep,it,jot,%
786 labelenumi,labelenumii,labelenumiii,labelenumiv,labelitemfont,%
787 labelitemi,labelitemii,labelitemiii,labelitemiv,labelsep,%
788 labelwidth,large,leftmargin,leftmargini,leftmarginii,leftmarginiii,%
789 leftmarginiv,leftmarginv,leftmarginvi,lineskip,listfigurename,%
790 listoffigures,listoftables,listtablename,mainmatter,maketitle,%
791 marginparpush,marginparsep,marginparwidth,maxdepth,medskipamount,%
792 mit,newblock,normallineskip,normalsize,oddsidemargin,paragraph,%
793 paragraphmark,parindent,parskip,part,partname,partopsep,%
794 postdisplaypenalty,predisplaypenalty,refname,rm,sc,scriptsize,%
795 section,sectionmark,setlength,sf,sl,small,smallskipamount,%
796 subitem,subparagraph,subparagraphmark,subsection,subsectionmark,%
797 subsubitem,subsubsection,subsubsectionmark,tabbingsep,tabcolsep,%
798 tablename,tableofcontents,textfloatsep,textfraction,textheight,%
799 textwidth,thechapter,theenumi,theenumii,theenumiii,theenumiv,%
800 theequation,theparagraph,the part,thesection,thesubparagraph,%
801 thesubsection,thesubsubsection,tiny,title,today,topfraction,%
802 topmargin,topskip,tt,widowpenalty,%
803 },%
804 % Keywords of class 1 : keywords that contain other characters (since
805 % of the same class as the ones specified as 'otherkeywords')
806 morekeywords={%
807 },%
808 % Keywords of class 2 : environments names
809 morekeywords=[2]{%
810 abstract,array,center,description,displaymath,document,enumerate,%
811 eqnarray,equation,figure,flushleft,flushright,itemize,list,lrbox,
math,%
812 minipage,picture,quotation,quote,sloppypar,tabbing,table,tabular,%
813 thebibliography,theindex,titlepage,trivlist,verbatim,verse,%
814 },%
815 % Keywords of class 3 : mandatory arguments (not environments) &
816 % optional arguments which are keys (in key=value)
817 morekeywords=[3]{%
818 % c,cc,ccc,cccc,X,l,
819 empty,%
820 },%
821 % Keywords of class 4 : values of keys (in key=value)
822 morekeywords=[4]{%
823 },%
824 % Keywords of class 5 : arguments specifications (after ":" in expl3
825 % syntax)
826 morekeywords=[5]{%

```



```

827     },%
828     % Keywords of class 6 : current package name (and possibly derived
829     % packages)
830     morekeywords=[6]{%
831         %
832     },
833     otherkeywords={|},%
834     % alsoletter={},% alsodigit={},%
835     % alsoother={},%
836     sensitive,%
837 }[keywords, tex, comments]%
838
839 \lst@definlanguage[ listings ]{TeX}{%
840     % Control sequences names
841     moretexcs={%
842         lstDeleteShortInline, lstMakeShortInline, lstalias, lstaspectfiles,%
843         lstdefineformat, lstdefinlanguage, lst@definlanguage, lstdefinestyle,%
844         %
845         lstindexmacro, lstinline, lstinputlisting, lstlanguagefiles,%
846         lstlgrindefile, lstlistingname, lstlistingnamestyle,%
847         lstlistlistingname, lstlistoflistings, lstloadlanguages, lstname,%
848         lstnewenvironment, lstset, theHlstnumber, thelstlabel, thelstlisting,%
849         thelstnumber,%
850     },%
851     % Keywords of class 1 : keywords that contain other characters (since
852     % of the same class as the ones specified as 'otherkeywords')
853     morekeywords={%
854     },%
855     % Keywords of class 2 : environments names
856     morekeywords=[2]{%
857         lstlisting,%
858     },%
859     % Keywords of class 3 : mandatory arguments (not environments) &
860     % optional arguments which are keys (in key=value)
861     morekeywords=[3]{%
862         0.21, ABAP, ACM, ACMscript, ACSL, Ada, Algol, Ant, Assembler, Awk,%
863         Basic, C, C++, CIL, Caml, Clean, Cobol, Comal 80, Comsol, Delphi,%
864         Eiffel, Elan, Euphoria, Fortran, GAP, GCL, Gnuplot, Go, HTML, Haskell,%
865         IDL, JVMIS, Java, LLVM, Lingo, Lisp, Logo, Lua, ML, Mathematica, Matlab,%
866         Mercury, MetaPost, Miranda, Mizar, Modula-2, MuPAD, NASTRAN, OCL,%
867         OORexx, Oberon-2, Octave, Oz, PHP, PL/I, POV, PSTricks, Pascal, Perl,%
868         Plasm, PostScript, Prolog, Promela, Python, R, RSL, Reduce, Rexx, Ruby,%
869         S, SAS, SHELXL, SPARQL, SQL, Scala, Scilab, Simula, Swift, TeX,%
870         VBScript, VHDL, VRML, Verilog, XML, XSLT, [03]Fortran, [08]Fortran,%
871         [1.0]Mathematica, [11.0]Mathematica, [11]C++, [1974]Cobol, [1985]Cobol,%
872         [2005]Ada, [3.0]Mathematica, [5.0]Lua, [5.1]Lua, [5.2]Lua,%
873         [5.2]Mathematica, [5.3]Lua, [60]Algol, [67]Simula, [68]Algol,%
874         [77]Fortran, [83]Ada, [90]Fortran, [95]Ada, [95]Fortran, [97]VRML,%
875         [AMS]VHDL, [ANSI]C, [ANSI]C++, [AllaTeX]TeX, [AspectJ]Java, [Auto]Lisp,%
876         [Borland6]Pascal, [CII]Simula, [CORBA]IDL, [DEC]Simula, [GNU]C++,%
877         [Handel]C, [IBM]Simula, [ISO]C++, [LaTeX]TeX, [Motorola68k]Assembler,%
878         [OMG]OCL, [Objective]C, [Objective]Caml, [PLUS]S, [POSIX]Awk, [R/2

```

```

878 4.3]ABAP,[R/2 5.0]ABAP,[R/3 3.1]ABAP,[R/3 4.6C]ABAP,[R/3 6.10]ABAP,%
879 [Sharp]C,[Standard]Pascal,[VM/XA]Rexx,[Visual]Basic,[Visual]C++,%
880 [WinXP]command.com,[XSC]Pascal,[common]TeX,[decorative]OCL,%
881 [empty]IDL,[empty]Java,[empty]Lisp,[empty]Rexx,[empty]S,%
882 [empty]VHDL,[empty]make,[empty]tcl,[gnu]Awk,[gnu]make,[ibm]Cobol,%
883 [light]Caml,[plain]TeX,[primitive]TeX,[tk]tcl,[x86masm]Assembler,%
884 abovecaptionskip,aboveskip,alsodigit,alsolanguage,alsoletter,%
885 alsoother,backgroundcolor,basewidth,bash,basicstyle,%
886 belowcaptionskip,belowskip,boxpos,breakatwhitespace,breakautoindent,
%
887 breakindent,breaklines,caption,captionpos,classoffset,columns,%
888 command.com,comment,comments,commentstyle,consecutivenumbers,csh,%
889 defaultdialect,deletecomment,deletedelim,deletedirectives,%
890 deleteemph,deleteendkeywords,deletehyperref,deleteindex,%
891 deletekeywordcomment,deletekeywords,deleteprocnamekeys,deletestring,
%
892 deletetxcs,delim,directives,directivestyle,draft,elisp,emph,%
893 emphstyle,emptylines,erlang,escapebegin,escapechar,escapeend,%
894 escapeinside,extendedchars,fancyvrb,fillcolor,final,firstline,%
895 firstnumber,flexiblecolumns,float,floatplacement,fontadjust,%
896 formats,formfeed,frame,framround,framerule,framesep,frameshape,%
897 framexbottommargin,framexleftmargin,framexrightmargin,%
898 framextopmargin,fvcmdparams,gobble,hansl,hyper,hyperanchor,%
899 hyperlink,hyperref,identifierstyle,includerangemarker,index,%
900 indexprocnames,indexstyle,inform,inputencoding,inputpath,%
901 keepspaces,keywordcomment,keywordcommentsemicolon,keywords,%
902 keywordsprefix,keywordstyle,ksh,label,language,lastline,lgrind,%
903 lgrindef,linerange,lineskip,linewidth,literate,make,makemacrouse,%
904 markfirstintag,mathescape,morecomment,moredelim,moredirectives,%
905 moreemph,moreendkeywords,morefvcmdparams,morehyperref,moreindex,%
906 morekeywordcomment,morekeywords,moreprocnamekeys,morestring,%
907 moretexcs,multicols,name,ndkeywords,ndkeywordstyle,noaspects,%
908 nolol,numberblanklines,numberbychapter,numberfirstline,numbers,%
909 numbersep,numberstyle,otherkeywords,podcomment,postbreak,prebreak,%
910 print,printpod,procnamekeys,procnames,procnamestyle,%
911 rangebeginprefix,rangebeginsuffix,rangeendprefix,rangeendsuffix,%
912 rangeprefix,rangesuffix,resetmargins,rulecolor,rulesep,%
913 rulesepcolor,savemem,sensitive,%
914 sh,showlines,showspaces,showstringspaces,showtabs,stepnumber,%
915 string,stringstyle,style,tab,tabsize,tag,tagstyle,tcl,texcl,%
916 texcs,texcsstyle,title,upquote,usekeywordsintag,xleftmargin,%
917 xrightmargin,LaTeX,TeX,tex%
918 },%
919 % Keywords of class 4 : values of keys (in key=value)
920 morekeywords=[4]{%
921   b,c,t,none,left,right,%
922 },%
923 % Keywords of class 5 : arguments specifications (after ":" in expl3
924 % syntax)
925 morekeywords=[5]{%
926 },%
927 % Keywords of class 6 : current package name (and possibly derived

```

```

928     % packages)
929     morekeywords=[6]{%
930         listings,%
931     },%
932     % otherkeywords={},%
933     alsoletter={@021.[ ]},%
934     % alsodigit={},%
935     % alsoother={},%
936     sensitive,%
937 }[keywords, tex, comments]%
938
939 \lst@definlanguage[xcolor]{TeX}{%
940     % Control sequences names
941     moretexcs={%
942         color, pagecolor, definecolor, colorlet, textcolor,%
943     },%
944     % Keywords of class 1 : keywords that contain other characters (since
945     % of the same class as the ones specified as 'otherkeywords')
946     morekeywords={%
947     },%
948     % Keywords of class 2 : environments names
949     morekeywords=[2]{%
950     },%
951     % Keywords of class 3 : mandatory arguments (not environments) &
952     % optional arguments which are keys (in key=value)
953     morekeywords=[3]{%
954         red, green, blue, cyan, magenta, yellow, black, gray, white, darkgray,%
955         lightgray, brown, lime, olive, orange, pink, purple, teal, violet },%
956     % Keywords of class 4 : values of keys (in key=value)
957     morekeywords=[4]{%
958     },%
959     % Keywords of class 5 : arguments specifications (after ":" in expl3
960     % syntax)
961     morekeywords=[5]{%
962     },%
963     % Keywords of class 6 : current package name (and possibly derived
964     % packages)
965     morekeywords=[6]{%
966         xcolor },%
967     % otherkeywords={},
968     % alsoletter={},
969     % alsodigit={},%
970     % alsoother={},%
971     sensitive,%
972 }[keywords, tex, comments]%
973
974 \lst@definlanguage[expl3]{TeX}{%
975     % Control sequences names
976     moretexcs={%
977         .bool_gset,%
978         ExplFileDate, ExplFileDescription, ExplFileName, ExplFileVersion,%
979         ExplSyntaxOff, ExplSyntaxOn, GetIdInfo, ProvidesExplClass,%

```

```

980     ProvidesExplFile, ProvidesExplPackage, bool_case_false, bool_case_true,
      %
981     bool_const, bool_do_until, bool_do_while, bool_gset, bool_gset_eq, %
982     bool_gset_false, bool_gset_inverse, bool_gset_true, bool_if, %
983     bool_if_exist, bool_if_exist_p, bool_if_p, bool_lazy_all, %
984     bool_lazy_all_p, bool_lazy_and, bool_lazy_and_p, bool_lazy_any, %
985     bool_lazy_any_p, bool_lazy_or, bool_lazy_or_p, bool_log, bool_new, %
986     bool_not_p, bool_set, bool_set_eq, bool_set_false, bool_set_inverse, %
987     bool_set_true, bool_show, bool_to_str, bool_until_do, bool_while_do, %
988     bool_xor, bool_xor_p, box_autosize_to_wd_and_ht, %
989     box_autosize_to_wd_and_ht_plus_dp, box_clear, box_clear_new, box_clip, %
990     box_dp, box_gautosize_to_wd_and_ht, box_gautosize_to_wd_and_ht_plus_dp
      , %
991     box_gclear, box_gclear_new, box_gclip, box_gresize_to_ht, %
992     box_gresize_to_ht_plus_dp, box_gresize_to_wd, box_gresize_to_wd_and_ht
      , %
993     box_gresize_to_wd_and_ht_plus_dp, box_grotate, box_gscale, box_gset_dp,
      %
994     box_gset_eq, box_gset_eq_drop, box_gset_ht, box_gset_to_last, %
995     box_gset_trim, box_gset_viewport, box_gset_wd, box_ht, box_ht_plus_dp, %
996     box_if_empty, box_if_empty_p, box_if_exist, box_if_exist_p, %
997     box_if_horizontal, box_if_horizontal_p, box_if_vertical, %
998     box_if_vertical_p, box_log, box_move_down, box_move_left, %
999     box_move_right, box_move_up, box_new, box_resize_to_ht, %
1000    box_resize_to_ht_plus_dp, box_resize_to_wd, box_resize_to_wd_and_ht, %
1001    box_resize_to_wd_and_ht_plus_dp, box_rotate, box_scale, box_set_dp, %
1002    box_set_eq, box_set_eq_drop, box_set_ht, box_set_to_last, box_set_trim, %
1003    box_set_viewport, box_set_wd, box_show, box_use, box_use_drop, box_wd, %
1004    c_alignment_token, c_ampersand_str, c_atsign_str, c_backslash_str, %
1005    c_catcode_active_space_tl, c_catcode_active_tl, c_catcode_letter_token
      , %
1006    c_catcode_other_space_tl, c_catcode_other_token, c_circumflex_str, %
1007    c_code_cctab, c_colon_str, c_document_cctab, c_dollar_str, c_e_fp, %
1008    c_empty_box, c_empty_clist, c_empty_coffin, c_empty_prop, c_empty_seq, %
1009    c_empty_tl, c_false_bool, c_group_begin_token, c_group_end_token, %
1010    c_hash_str, c_inf_fp, c_initex_cctab, c_left_brace_str, c_log_iow, %
1011    c_math_subscript_token, c_math_superscript_token, c_math_toggle_token,
      %
1012    c_max_char_int, c_max_dim, c_max_int, c_max_muskip, c_max_register_int, %
1013    c_max_skip, c_minus_inf_fp, c_minus_zero_fp, c_nan_fp, c_novalue_tl, %
1014    c_one_degree_fp, c_one_fp, c_one_int, c_other_cctab, c_parameter_token, %
1015    c_percent_str, c_pi_fp, c_right_brace_str, c_space_tl, c_space_token, %
1016    c_str_cctab, c_sys_backend_str, c_sys_day_int, c_sys_engine_exec_str, %
1017    c_sys_engine_format_str, c_sys_engine_str, c_sys_engine_version_str, %
1018    c_sys_hour_int, c_sys_jobname_str, c_sys_minute_int, c_sys_month_int, %
1019    c_sys_output_str, c_sys_platform_str, c_sys_shell_escape_int, %
1020    c_sys_year_int, c_term_iow, c_tilde_str, c_true_bool, c_underscore_str, %
1021    c_zero_dim, c_zero_fp, c_zero_int, c_zero_muskip, c_zero_skip, %
1022    c_zero_str, cctab_begin, cctab_const, cctab_end, cctab_gset, %
1023    cctab_if_exist, cctab_if_exist_p, cctab_item, cctab_new, cctab_select, %
1024    char_foldcase, char_generate, char_gset_active_eq, char_lowercase, %
1025    char_set_active_eq, char_set_catcode, char_set_catcode_active, %

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1026 char\_set\_catcode\_alignment, char\_set\_catcode\_comment, %  
 1027 char\_set\_catcode\_end\_line, char\_set\_catcode\_escape, %  
 1028 char\_set\_catcode\_group\_begin, char\_set\_catcode\_group\_end, %  
 1029 char\_set\_catcode\_ignore, char\_set\_catcode\_invalid, %  
 1030 char\_set\_catcode\_letter, char\_set\_catcode\_math\_subscript, %  
 1031 char\_set\_catcode\_math\_superscript, char\_set\_catcode\_math\_toggle, %  
 1032 char\_set\_catcode\_other, char\_set\_catcode\_parameter, %  
 1033 char\_set\_catcode\_space, char\_set\_lccode, char\_set\_mathcode, %  
 1034 char\_set\_sfcode, char\_set\_uccode, char\_show\_value\_catcode, %  
 1035 char\_show\_value\_lccode, char\_show\_value\_mathcode, %  
 1036 char\_show\_value\_sfcode, char\_show\_value\_uccode, char\_str\_foldcase, %  
 1037 char\_str\_lowercase, char\_str\_titlecase, char\_str\_uppercase, %  
 1038 char\_titlecase, char\_to\_nfd, char\_to\_utfviii\_bytes, char\_uppercase, %  
 1039 char\_value\_catcode, char\_value\_lccode, char\_value\_mathcode, %  
 1040 char\_value\_sfcode, char\_value\_uccode, clist\_clear, clist\_clear\_new, %  
 1041 clist\_concat, clist\_const, clist\_count, clist\_gclear, clist\_gclear\_new, %  
 1042 clist\_gconcat, clist\_get, clist\_gpop, clist\_gpush, clist\_gput\_left, %  
 1043 clist\_gput\_right, clist\_gremove\_all, clist\_gremove\_duplicates, %  
 1044 clist\_greverse, clist\_gset, clist\_gset\_eq, clist\_gset\_from\_seq, %  
 1045 clist\_gsort, clist\_if\_empty, clist\_if\_empty\_p, clist\_if\_exist, %  
 1046 clist\_if\_exist\_p, clist\_if\_in, clist\_item, clist\_log, clist\_map\_break, %  
 1047 clist\_map\_function, clist\_map\_inline, clist\_map\_tokens, %  
 1048 clist\_map\_variable, clist\_new, clist\_pop, clist\_push, clist\_put\_left, %  
 1049 clist\_put\_right, clist\_rand\_item, clist\_remove\_all, %  
 1050 clist\_remove\_duplicates, clist\_reverse, clist\_set, clist\_set\_eq, %  
 1051 clist\_set\_from\_seq, clist\_show, clist\_sort, clist\_use, coffin\_attach, %  
 1052 coffin\_clear, coffin\_display\_handles, coffin\_dp, coffin\_gattach, %  
 1053 coffin\_gclear, coffin\_gjoin, coffin\_gresize, coffin\_grotate, %  
 1054 coffin\_gscale, coffin\_gset\_eq, coffin\_gset\_horizontal\_pole, %  
 1055 coffin\_gset\_vertical\_pole, coffin\_ht, coffin\_if\_exist, %  
 1056 coffin\_if\_exist\_p, coffin\_join, coffin\_log, coffin\_log\_structure, %  
 1057 coffin\_mark\_handle, coffin\_new, coffin\_resize, coffin\_rotate, %  
 1058 coffin\_scale, coffin\_set\_eq, coffin\_set\_horizontal\_pole, %  
 1059 coffin\_set\_vertical\_pole, coffin\_show, coffin\_show\_structure, %  
 1060 coffin\_typeset, coffin\_wd, color\_ensure\_current, color\_export, %  
 1061 color\_fill, color\_group\_begin, color\_group\_end, color\_log, color\_math, %  
 1062 color\_model\_new, color\_profile\_apply, color\_select, color\_set, %  
 1063 color\_set\_eq, color\_show, color\_stroke, cs\_argument\_spec, cs, cs\_end, %  
 1064 cs\_generate\_from\_arg\_count, cs\_generate\_variant, cs\_gset, cs\_gset\_eq, %  
 1065 cs\_gset\_nopar, cs\_gset\_protected, cs\_gset\_protected\_nopar, cs\_if\_eq, %  
 1066 cs\_if\_eq\_p, cs\_if\_exist, cs\_if\_exist\_p, cs\_if\_exist\_use, cs\_if\_free, %  
 1067 cs\_if\_free\_p, cs\_log, cs\_meaning, cs\_new, cs\_new\_eq, cs\_new\_nopar, %  
 1068 cs\_new\_protected, cs\_new\_protected\_nopar, cs\_prefix\_spec, %  
 1069 cs\_replacement\_spec, cs\_set, cs\_set\_eq, cs\_set\_nopar, cs\_set\_protected, %  
 1070 cs\_set\_protected\_nopar, cs\_show, cs\_split\_function, cs\_to\_str, %  
 1071 cs\_undefine, debug\_off, debug\_on, debug\_resume, debug\_suspend, dim\_abs, %  
 1072 dim\_add, dim\_case, dim\_compare, dim\_compare\_p, dim\_const, dim\_do\_until, %  
 1073 dim\_do\_while, dim\_eval, dim\_gadd, dim\_gset, dim\_gset\_eq, dim\_gsub, %  
 1074 dim\_gzero, dim\_gzero\_new, dim\_if\_exist, dim\_if\_exist\_p, dim\_log, %  
 1075 dim\_max, dim\_min, dim\_new, dim\_ratio, dim\_set, dim\_set\_eq, dim\_show, %  
 1076 dim\_sign, dim\_step\_function, dim\_step\_inline, dim\_step\_variable, %  
 1077 dim\_sub, dim\_to\_decimal, dim\_to\_decimal\_in\_bp, dim\_to\_decimal\_in\_sp, %

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1078 dim_to_decimal_in_unit, dim_to_fp, dim_until_do, dim_use, dim_while_do, %
1079 dim_zero, dim_zero_new, draw_begin, draw_end, else, exp_after, exp_args, %
1080 exp_args_generate, exp_end, exp_end_continue_f, exp_last_two_unbraced, %
1081 exp_last_unbraced, exp_not, exp_stop_f, expandafter, expanded, fi, %
1082 file_compare_timestamp, file_compare_timestamp_p, file_full_name, %
1083 file_get, file_get_full_name, file_get_hex_dump, file_get_mdfive_hash, %
1084 file_get_size, file_get_timestamp, file_hex_dump, file_if_exist, %
1085 file_if_exist_input, file_input, file_input_stop, file_log_list, %
1086 file_mdfive_hash, file_parse_full_name, file_parse_full_name_apply, %
1087 file_show_list, file_size, file_timestamp, flag_clear, flag_clear_new, %
1088 flag_height, flag_if_exist, flag_if_exist_p, flag_if_raised, %
1089 flag_if_raised_p, flag_log, flag_new, flag_raise, flag_raise_if_clear, %
1090 flag_show, fp_abs, fp_add, fp_compare, fp_compare_p, fp_const, %
1091 fp_do_until, fp_do_while, fp_eval, fp_format, fp_gadd, fp_gset, %
1092 fp_gset_eq, fp_gsub, fp_gzero, fp_gzero_new, fp_if_exist, fp_if_exist_p, %
1093 fp_if_nan, fp_if_nan_p, fp_log, fp_max, fp_min, fp_new, fp_set, %
1094 fp_set_eq, fp_show, fp_sign, fp_step_function, fp_step_inline, %
1095 fp_step_variable, fp_sub, fp_to_decimal, fp_to_dim, fp_to_int, %
1096 fp_to_scientific, fp_to_tl, fp_trap, fp_until_do, fp_use, fp_while_do, %
1097 fp_zero, fp_zero_new, farray_count, farray_gset, farray_gzero, %
1098 farray_item, farray_item_to_tl, farray_new, g_file_curr_dir_str, %
1099 g_file_curr_ext_str, g_file_curr_name_str, g_msg_module_name_prop, %
1100 g_msg_module_type_prop, g_peek_token, %
1101 g__letgut_tmpa_bool, g__letgut_tmpa_box, g__letgut_tmpa_clist, %
1102 g__letgut_tmpa_coffin, g__letgut_tmpa_dim, g__letgut_tmpa_fp, %
1103 g__letgut_tmpa_int, g__letgut_tmpa_ior, g__letgut_tmpa_iow, %
1104 g__letgut_tmpa_muskip, g__letgut_tmpa_prop, g__letgut_tmpa_regex, %
1105 g__letgut_tmpa_seq, g__letgut_tmpa_skip, g__letgut_tmpa_str, %
1106 g__letgut_tmpa_tl, g__letgut_tmpb_bool, g__letgut_tmpb_box, %
1107 g__letgut_tmpb_clist, g__letgut_tmpb_coffin, g__letgut_tmpb_dim, %
1108 g__letgut_tmpb_fp, g__letgut_tmpb_int, g__letgut_tmpb_ior, %
1109 g__letgut_tmpb_iow, g__letgut_tmpb_muskip, g__letgut_tmpb_prop, %
1110 g__letgut_tmpb_regex, g__letgut_tmpb_seq, g__letgut_tmpb_skip, %
1111 g__letgut_tmpb_str, g__letgut_tmpb_tl, %
1112 group_align_safe_begin, %
1113 group_align_safe_end, group_begin, group_end, group_insert_after, %
1114 group_log_list, group_show_list, hbox, hbox_gset, hbox_gset_end, %
1115 hbox_gset_to_wd, hbox_overlap_center, hbox_overlap_left, %
1116 hbox_overlap_right, hbox_set, hbox_set_end, hbox_set_to_wd, hbox_to_wd, %
1117 hbox_to_zero, hbox_unpack, hbox_unpack_drop, hcoffin_gset, %
1118 hcoffin_gset_end, hcoffin_set, hcoffin_set_end, if, if_bool, %
1119 if_box_empty, if_case, if_catcode, if_charcode, if_cs_exist, if_dim, %
1120 if_eof, if_false, if_hbox, if_int_compare, if_int_odd, if_meaning, %
1121 if_mode_horizontal, if_mode_inner, if_mode_math, if_mode_vertical, %
1122 if_predicate, if_true, if_vbox, int_abs, int_add, int_case, int_compare, %
1123 int_compare_p, int_const, int_decr, int_div_round, int_div_truncate, %
1124 int_do_until, int_do_while, int_eval, int_from_alph, int_from_base, %
1125 int_from_bin, int_from_hex, int_from_oct, int_from_roman, int_gadd, %
1126 int_gdecr, int_gincr, int_gset, int_gset_eq, int_gsub, int_gzero, %
1127 int_gzero_new, int_if_even, int_if_even_p, int_if_exist, int_if_exist_p, %
1128 int_if_odd, int_if_odd_p, int_incr, int_log, int_max, int_min, int_mod, %

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1129     int_new, int_rand, int_set, int_set_eq, int_show, int_sign, %
1130     int_step_... , int_step_function, int_step_inline, int_step_variable, %
1131     int_sub, int_to_Alph, int_to_Base, int_to_Hex, int_to_Roman, %
1132     int_to_alph, int_to_arabic, int_to_base, int_to_bin, int_to_hex, %
1133     int_to_oct, int_to_roman, int_to_symbols, int_until_do, int_use, %
1134     int_value, int_while_do, int_zero, int_zero_new, %
1135     intarray_const_from_clist, intarray_count, intarray_gset, %
1136     intarray_gset_rand, intarray_gzero, intarray_item, intarray_log, %
1137     intarray_new, intarray_rand_item, intarray_show, intarray_to_clist, %
1138     ior_close, ior_get, ior_get_term, ior_if_eof, ior_if_eof_p, ior_log, %
1139     ior_log_list, ior_map_break, ior_map_inline, ior_map_variable, ior_new, %
1140     ior_open, ior_shell_open, ior_show, ior_show_list, ior_str_get, %
1141     ior_str_get_term, ior_str_map_inline, ior_str_map_variable, %
1142     iow_allow_break, iow_char, iow_close, iow_indent, iow_log, iow_log_list, %
1143     iow_new, iow_newline, iow_now, iow_open, iow_shipout, iow_shipout_x, %
1144     iow_show, iow_show_list, iow_term, iow_wrap, keys_define, %
1145     keys_if_choice_exist, keys_if_choice_exist_p, keys_if_exist, %
1146     keys_if_exist_p, keys_log, keys_set, keys_set_filter, keys_set_groups, %
1147     keys_set_known, keys_show, keyval_parse, l_char_active_seq, %
1148     l_char_special_seq, l_color_fixed_model_tl, l_color_math_active_tl, %
1149     l_file_search_path_seq, l_iow_line_count_int, l_keys_choice_int, %
1150     l_keys_choice_tl, l_keys_key_str, l_keys_path_str, %
1151     l_keys_usage_load_prop, l_keys_usage_preamble_prop, l_keys_value_tl, %
1152     l_my_int, l_peek_token, l_text_accents_tl, l_text_case_exclude_arg_tl, %
1153     l_text_expand_exclude_tl, l_text_letterlike_tl, l_text_math_arg_tl, %
1154     l_text_math_delims_tl, l_text_titlecase_check_letter_bool, %
1155     l__letgut_tmpa_bool, l__letgut_tmpa_box, l__letgut_tmpa_clist, %
1156     l__letgut_tmpa_coffin, l__letgut_tmpa_dim, l__letgut_tmpa_fp, %
1157     l__letgut_tmpa_int, l__letgut_tmpa_muskip, l__letgut_tmpa_prop, %
1158     l__letgut_tmpa_regex, l__letgut_tmpa_seq, l__letgut_tmpa_skip, %
1159     l__letgut_tmpa_str, l__letgut_tmpa_tl, l__letgut_tmpb_bool, %
1160     l__letgut_tmpb_box, l__letgut_tmpb_clist, l__letgut_tmpb_coffin, %
1161     l__letgut_tmpb_dim, l__letgut_tmpb_fp, l__letgut_tmpb_int, %
1162     l__letgut_tmpb_muskip, l__letgut_tmpb_prop, l__letgut_tmpb_regex, %
1163     l__letgut_tmpb_seq, l__letgut_tmpb_skip, l__letgut_tmpb_str, %
1164     l__letgut_tmpb_tl, %
1165     legacy_if, legacy_if_gset, legacy_if_gset_false, %
1166     legacy_if_gset_true, legacy_if_p, legacy_if_set, legacy_if_set_false, %
1167     legacy_if_set_true, lua_escape, lua_now, lua_shipout, lua_shipout_e, %
1168     mode_if_horizontal, mode_if_horizontal_p, mode_if_inner, %
1169     mode_if_inner_p, mode_if_math, mode_if_math_p, mode_if_vertical, %
1170     mode_if_vertical_p, mode_leave_vertical, msg_critical, %
1171     msg_critical_text, msg_error, msg_error_text, msg_expandable_error, %
1172     msg_fatal, msg_fatal_text, msg_gset, msg_if_exist, msg_if_exist_p, %
1173     msg_info, msg_info_text, msg_line_context, msg_line_number, msg_log, %
1174     msg_log_eval, msg_module_name, msg_module_type, msg_new, msg_none, %
1175     msg_note, msg_redirect_class, msg_redirect_module, msg_redirect_name, %
1176     msg_see_documentation_text, msg_set, msg_show, msg_show_eval, %
1177     msg_show_item, msg_show_item_unbraced, msg_term, msg_warning, %
1178     msg_warning_text, muskip_add, muskip_const, muskip_eval, muskip_gadd, %
1179     muskip_gset, muskip_gset_eq, muskip_gsub, muskip_gzero, %
1180     muskip_gzero_new, muskip_if_exist, muskip_if_exist_p, muskip_log, %
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1181 muskip_new, muskip_set, muskip_set_eq, muskip_show, muskip_sub, %
1182 muskip_use, muskip_zero, muskip_zero_new, pdf_destination, %
1183 pdf_object_if_exist, pdf_object_if_exist_p, pdf_object_new, %
1184 pdf_object_ref, pdf_object_ref_last, pdf_object_unnamed_write, %
1185 pdf_object_write, pdf_pageobject_ref, pdf_pagobject_ref, pdf_uncompress
, %
1186 pdf_version, pdf_version_compare, pdf_version_compare_p, %
1187 pdf_version_gset, pdf_version_major, pdf_version_min_gset, %
1188 pdf_version_minor, peek_N_type, peek_after, peek_analysis_map_break, %
1189 peek_analysis_map_inline, peek_catcode, peek_catcode_collect_inline, %
1190 peek_catcode_remove, peek_charcode, peek_charcode_collect_inline, %
1191 peek_charcode_remove, peek_gafter, peek_meaning, %
1192 peek_meaning_collect_inline, peek_meaning_remove, peek_regex, %
1193 peek_regex_remove_once, peek_regex_replace_once, peek_remove_filler, %
1194 peek_remove_spaces, prg_break, prg_break_point, prg_do_nothing, %
1195 prg_generate_conditional_variant, prg_map_break, prg_new_conditional, %
1196 prg_new_eq_conditional, prg_new_protected_conditional, prg_replicate, %
1197 prg_return_false, prg_return_true, prg_set_conditional, %
1198 prg_set_eq_conditional, prg_set_protected_conditional, prop_clear, %
1199 prop_clear_new, prop_concat, prop_const_from_keyval, prop_count, %
1200 prop_gclear, prop_gclear_new, prop_gconcat, prop_get, prop_gpop, %
1201 prop_gput, prop_gput_from_keyval, prop_gput_if_new, prop_gremove, %
1202 prop_gset_eq, prop_gset_from_keyval, prop_if_empty, prop_if_empty_p, %
1203 prop_if_exist, prop_if_exist_p, prop_if_in, prop_if_in_p, prop_item, %
1204 prop_log, prop_map_break, prop_map_function, prop_map_inline, %
1205 prop_map_tokens, prop_new, prop_pop, prop_put, prop_put_from_keyval, %
1206 prop_put_if_new, prop_rand_key_value, prop_remove, prop_set_eq, %
1207 prop_set_from_keyval, prop_show, prop_to_keyval, q_mark, q_nil, %
1208 q_no_value, q_recursion_stop, q_recursion_tail, q_stop, quark_if_nil, %
1209 quark_if_nil_p, quark_if_no_value, quark_if_no_value_p, %
1210 quark_if_recursion_tail_break, quark_if_recursion_tail_stop, %
1211 quark_if_recursion_tail_stop_do, quark_new, regex_const, regex_count, %
1212 regex_extract_all, regex_extract_once, regex_gset, regex_log, %
1213 regex_match, regex_match_case, regex_new, regex_replace, %
1214 regex_replace_all, regex_replace_case_all, regex_replace_case_once, %
1215 regex_replace_once, regex_set, regex_show, regex_split, reverse_if, %
1216 s_stop, scan_new, scan_stop, seq_clear, seq_clear_new, seq_concat, %
1217 seq_const_from_clist, seq_count, seq_gclear, seq_gclear_new, %
1218 seq_gconcat, seq_get, seq_get_left, seq_get_right, seq_gpop, %
1219 seq_gpop_item, seq_gpop_left, seq_gpop_right, seq_gpush, seq_gput_left, %
1220 seq_gput_right, seq_gremove_all, seq_gremove_duplicates, seq_greverse, %
1221 seq_gset_eq, seq_gset_filter, seq_gset_from_clist, %
1222 seq_gset_from_function, seq_gset_from_inline_x, seq_gset_item, %
1223 seq_gset_map, seq_gset_map_x, seq_gset_split, %
1224 seq_gset_split_keep_spaces, seq_gshuffle, seq_gsort, seq_if_empty, %
1225 seq_if_empty_p, seq_if_exist, seq_if_exist_p, seq_if_in, seq_item, %
1226 seq_log, seq_map_break, seq_map_function, seq_map_indexed_function, %
1227 seq_map_indexed_inline, seq_map_inline, seq_map_tokens, %
1228 seq_map_variable, seq_mapthread_function, seq_new, seq_pop, %
1229 seq_pop_item, seq_pop_left, seq_pop_right, seq_push, seq_put_left, %
1230 seq_put_right, seq_rand_item, seq_remove_all, seq_remove_duplicates, %
1231 seq_reverse, seq_set_eq, seq_set_filter, seq_set_from_clist, %

```



```
1232     seq_set_from_function, seq_set_from_inline_x, seq_set_item, seq_set_map
1233     ,%
1234     seq_set_map_x, seq_set_split, seq_set_split_keep_spaces, seq_show,%
1235     seq_shuffle, seq_sort, seq_use, skip_add, skip_const, skip_eval,%
1236     skip_gadd, skip_gset, skip_gset_eq, skip_gsub, skip_gzero,%
1237     skip_gzero_new, skip_horizontal, skip_if_eq, skip_if_eq_p,%
1238     skip_if_exist, skip_if_exist_p, skip_if_finite, skip_if_finite_p,%
1239     skip_log, skip_new, skip_set, skip_set_eq, skip_show, skip_sub,%
1240     skip_use, skip_vertical, skip_zero, skip_zero_new, sort_return_same,%
1241     sort_return_swapped, str_case, str_case_e, str_clear, str_clear_new,%
1242     str_compare, str_compare_p, str_concat, str_const, str_convert_pdfname,%
1243     str_count, str_count_ignore_spaces, str_count_spaces, str_foldcase,%
1244     str_gclear, str_gconcat, str_gput_left, str_gput_right, str_gremove_all,%
1245     %
1246     str_gremove_once, str_greplace_all, str_greplace_once, str_gset,%
1247     str_gset_convert, str_gset_eq, str_head, str_head_ignore_spaces,%
1248     str_if_empty, str_if_empty_p, str_if_eq, str_if_eq_p, str_if_exist,%
1249     str_if_exist_p, str_if_in, str_item, str_item_ignore_spaces, str_log,%
1250     str_lowercase, str_map_break, str_map_function, str_map_inline,%
1251     str_map_tokens, str_map_variable, str_new, str_put_left, str_put_right,%
1252     str_range, str_range_ignore_spaces, str_remove_all, str_remove_once,%
1253     str_replace_all, str_replace_once, str_set, str_set_convert, str_set_eq,%
1254     %
1255     str_show, str_tail, str_tail_ignore_spaces, str_uppercase, str_use,%
1256     sys_finalise, sys_get_shell, sys_gset_rand_seed, sys_if_engine_luatex,%
1257     sys_if_engine_luatex_p, sys_if_engine_pdftex, sys_if_engine_pdftex_p,%
1258     sys_if_engine_ptex, sys_if_engine_ptex_p, sys_if_engine_uptex,%
1259     sys_if_engine_uptex_p, sys_if_engine_xetex, sys_if_engine_xetex_p,%
1260     sys_if_output_dvi, sys_if_output_dvi_p, sys_if_output_pdf,%
1261     sys_if_output_pdf_p, sys_if_platform_unix, sys_if_platform_unix_p,%
1262     sys_if_platform_windows, sys_if_platform_windows_p, sys_if_rand_exist,%
1263     %
1264     sys_if_rand_exist_p, sys_if_shell, sys_if_shell_p,%
1265     sys_if_shell_restricted, sys_if_shell_restricted_p,%
1266     sys_if_shell_unrestricted, sys_if_shell_unrestricted_p,%
1267     sys_load_backend, sys_load_debug, sys_rand_seed, sys_shell_now,%
1268     sys_shell_shipout, sys_timer, text_declare_expand_equivalent,%
1269     text_declare_purify_equivalent, text_expand, text_lowercase,%
1270     text_purify, text_titlecase, text_titlecase_first, text_uppercase,%
1271     tl_analysis_log, tl_analysis_map_inline, tl_analysis_show,%
1272     tl_build_begin, tl_build_clear, tl_build_end, tl_build_gbegin,%
1273     tl_build_gclear, tl_build_gend, tl_build_get, tl_build_gput_left,%
1274     tl_build_gput_right, tl_build_put_left, tl_build_put_right, tl_case,%
1275     tl_clear, tl_clear_new, tl_concat, tl_const, tl_count, tl_count_tokens,%
1276     tl_gclear, tl_gclear_new, tl_gconcat, tl_gput_left, tl_gput_right,%
1277     tl_gremove_all, tl_gremove_once, tl_greplace_all, tl_greplace_once,%
1278     tl_greverse, tl_gset, tl_gset_eq, tl_gset_rescan, tl_gsort,%
1279     tl_gtrim_spaces, tl_head, tl_if_blank, tl_if_blank_p, tl_if_empty,%
1280     tl_if_empty_p, tl_if_eq, tl_if_eq_p, tl_if_exist, tl_if_exist_p,%
1281     tl_if_head_eq_catcode, tl_if_head_eq_catcode_p, tl_if_head_eq_charcode
1282     ,%
1283     tl_if_head_eq_charcode_p, tl_if_head_eq_meaning,%
```

```

1279     tl_if_head_eq_meaning_p,tl_if_head_is_N_type,tl_if_head_is_N_type_p,
%
1280     tl_if_head_is_group,tl_if_head_is_group_p,tl_if_head_is_space,%
1281     tl_if_head_is_space_p,tl_if_in,tl_if_novalue,tl_if_novalue_p,%
1282     tl_if_single,tl_if_single_p,tl_if_single_token,tl_if_single_token_p,
%
1283     tl_item,tl_log,tl_map_break,tl_map_function,tl_map_inline,%
1284     tl_map_tokens,tl_map_variable,tl_new,tl_put_left,tl_put_right,%
1285     tl_rand_item,tl_range,tl_range_braced,tl_range_unbraced,%
1286     tl_remove_all,tl_remove_once,tl_replace_all,tl_replace_once,%
1287     tl_rescan,tl_reverse,tl_reverse_items,tl_set,tl_set_eq,%
1288     tl_set_rescan,tl_show,tl_sort,tl_tail,tl_to_str,tl_trim_spaces,%
1289     tl_trim_spaces_apply,tl_use,token_case_catcode,token_case_charcode,%
1290     token_case_meaning,token_if_active,token_if_active_p,%
1291     token_if_alignment,token_if_alignment_p,token_if_chardef,%
1292     token_if_chardef_p,token_if_cs,token_if_cs_p,token_if_dim_register,%
1293     token_if_dim_register_p,token_if_eq_catcode,token_if_eq_catcode_p,%
1294     token_if_eq_charcode,token_if_eq_charcode_p,token_if_eq_meaning,%
1295     token_if_eq_meaning_p,token_if_expandable,token_if_expandable_p,%
1296     token_if_font_selection,token_if_font_selection_p,%
1297     token_if_group_begin,token_if_group_begin_p,token_if_group_end,%
1298     token_if_group_end_p,token_if_int_register,token_if_int_register_p,%
1299     token_if_letter,token_if_letter_p,token_if_long_macro,%
1300     token_if_long_macro_p,token_if_macro,token_if_macro_p,%
1301     token_if_math_subscript,token_if_math_subscript_p,%
1302     token_if_math_superscript,token_if_math_superscript_p,%
1303     token_if_math_toggle,token_if_math_toggle_p,token_if_mathchardef,%
1304     token_if_mathchardef_p,token_if_muskip_register,%
1305     token_if_muskip_register_p,token_if_other,token_if_other_p,%
1306     token_if_parameter,token_if_parameter_p,token_if_primitive,%
1307     token_if_primitive_p,token_if_protected_long_macro,%
1308     token_if_protected_long_macro_p,token_if_protected_macro,%
1309     token_if_protected_macro_p,token_if_skip_register,%
1310     token_if_skip_register_p,token_if_space,token_if_space_p,%
1311     token_if_toks_register,token_if_toks_register_p,token_to_meaning,%
1312     token_to_str,unvcopy,use,use_i,use_i_delimit_by_q_nil,%
1313     use_i_delimit_by_q_recursion_stop,use_i_delimit_by_q_stop,use_ii,%
1314     use_ii,use_ii_i,use_iii,use_iv,use_none,use_none_delimit_by_q_nil,%
1315     use_none_delimit_by_q_recursion_stop,use_none_delimit_by_q_stop,%
1316     use_none_delimit_by_s_stop,vbox,vbox_gset,vbox_gset_end,%
1317     vbox_gset_split_to_ht,vbox_gset_to_ht,vbox_gset_top,vbox_set,%
1318     vbox_set_end,vbox_set_split_to_ht,vbox_set_to_ht,vbox_set_top,%
1319     vbox_to_ht,vbox_to_zero,vbox_top,vbox_unpack,vbox_unpack_drop,%
1320     vcoffin_gset,vcoffin_gset_end,vcoffin_set,vcoffin_set_end,%
1321     },%
1322     % Keywords of class 1 : keywords that contain other characters (since
1323     % of the same class as the ones specified as 'otherkeywords')
1324     morekeywords={%
1325     },%
1326     % Keywords of class 2 : environments names
1327     morekeywords=[2]{%
1328     },%

```

```

1329 % Keywords of class 3 : mandatory arguments (not environments) &
1330 % optional arguments which are keys (in key=value)
1331 morekeywords=[3]{%
1332     name, alternative-model, alternative-values,%
1333 },%
1334 % Keywords of class 4 : values of keys (in key=value)
1335 morekeywords=[4]{%
1336     cmyk,%
1337 },%
1338 % Keywords of class 5 : arguments specifications (after ":" in expl3
1339 % syntax)
1340 morekeywords=[5]{%
1341     D, N, Nn, NF, NN, Nx, NT, NTF, NNn, NnV, Nnn, Npn, Nnnn, V, c, e, en, f, n, nF,%
1342     nn, nT, nnn, nnF, nnV, nTF, nnnn, nNnF, nNnT, nnVV, o, p, v, w, x, nnTF,%
1343 },%
1344 % Keywords of class 6 : current package name (and possibly derived
1345 % packages)
1346 morekeywords=[6]{%
1347     expl3,%
1348 },%
1349 otherkeywords={:, ~},%
1350 alsoletter={_-.},%
1351 % alsodigit={},%
1352 % alsoother={},%
1353 sensitive,%
1354 }[keywords, tex, comments]%
1355
1356 \lst@definlanguage[pdftex]{TeX}{%
1357     % Control sequences names
1358     moretexcs={%
1359         pdfinfo, pdfcatalog, pdfpageattr, pdfpagesattr, pdfpageresources,%
1360         pdfcolorstack,%
1361     },%
1362     % Keywords of class 1 : keywords that contain other characters (since
1363     % of the same class as the ones specified as 'otherkeywords')
1364     morekeywords={%
1365     },%
1366     % Keywords of class 2 : environments names
1367     morekeywords=[2]{%
1368     },%
1369     % Keywords of class 3 : mandatory arguments (not environments) &
1370     % optional arguments which are keys (in key=value)
1371     morekeywords=[3]{%
1372     },%
1373     % Keywords of class 4 : values of keys (in key=value)
1374     morekeywords=[4]{%
1375     },%
1376     % Keywords of class 5 : arguments specifications (after ":" in expl3
1377     % syntax)
1378     morekeywords=[5]{%
1379     },%
1380     % Keywords of class 6 : current package name (and possibly derived

```

```

1381     % packages)
1382     morekeywords=[6]{%
1383         pdftex,%
1384     },%
1385     % otherkeywords={},
1386     % alsoletter={},
1387     % alsodigit={},%
1388     % alsoother={},%
1389     sensitive,%
1390 }[keywords, tex, comments]%
1391
1392 \lst@definlanguage[luatex]{TeX}{%
1393     % Control sequences names
1394     moretexcs={%
1395         pdfextension, ifluatex, directlua,%
1396     },%
1397     % Keywords of class 1 : keywords that contain other characters (since
1398     % of the same class as the ones specified as 'otherkeywords')
1399     morekeywords={%
1400     },%
1401     % Keywords of class 2 : environments names
1402     morekeywords=[2]{%
1403     },%
1404     % Keywords of class 3 : mandatory arguments (not environments) &
1405     % optional arguments which are keys (in key=value)
1406     morekeywords=[3]{%
1407         colorstack },%
1408     % Keywords of class 4 : values of keys (in key=value)
1409     morekeywords=[4]{%
1410     },%
1411     % Keywords of class 5 : arguments specifications (after ":" in expl3
1412     % syntax)
1413     morekeywords=[5]{%
1414     },%
1415     % Keywords of class 6 : current package name (and possibly derived
1416     % packages)
1417     morekeywords=[6]{%
1418         luatex,%
1419     },%
1420     % otherkeywords={},
1421     % alsoletter={},
1422     % alsodigit={},%
1423     % alsoother={},%
1424     sensitive,%
1425 }[keywords, tex, comments]%
1426
1427 \lst@definlanguage[dvips]{TeX}{%
1428     % Control sequences names
1429     moretexcs={%
1430     },%
1431     % Keywords of class 1 : keywords that contain other characters (since
1432     % of the same class as the ones specified as 'otherkeywords')

```

```
1433     morekeywords={%
1434     },%
1435     % Keywords of class 2 : environments names
1436     morekeywords=[2]{%
1437     },%
1438     % Keywords of class 3 : mandatory arguments (not environments) &
1439     % optional arguments which are keys (in key=value)
1440     morekeywords=[3]{%
1441         color,push,%
1442     },%
1443     % Keywords of class 4 : values of keys (in key=value)
1444     morekeywords=[4]{%
1445     },%
1446     % Keywords of class 5 : arguments specifications (after ":" in expl3
1447     % syntax)
1448     morekeywords=[5]{%
1449     },%
1450     % Keywords of class 6 : current package name (and possibly derived
1451     % packages)
1452     morekeywords=[6]{%
1453         dvips,%
1454     },%
1455     % otherkeywords={},
1456     % alsoletter={},
1457     % alsodigit={},%
1458     % alsoother={},%
1459     sensitive,%
1460 }[keywords, tex, comments]%
1461
1462 \lst@definlanguage[xetex]{TeX}{%
1463     % Control sequences names
1464     moretexcs={%
1465     },%
1466     % Keywords of class 1 : keywords that contain other characters (since
1467     % of the same class as the ones specified as 'otherkeywords')
1468     morekeywords={%
1469     },%
1470     % Keywords of class 2 : environments names
1471     morekeywords=[2]{%
1472     },%
1473     % Keywords of class 3 : mandatory arguments (not environments) &
1474     % optional arguments which are keys (in key=value)
1475     morekeywords=[3]{%
1476         pdfcolorstack,%
1477     },%
1478     % Keywords of class 4 : values of keys (in key=value)
1479     morekeywords=[4]{%
1480     },%
1481     % Keywords of class 5 : arguments specifications (after ":" in expl3
1482     % syntax)
1483     morekeywords=[5]{%
1484     },%
```

```

1485 % Keywords of class 6 : current package name (and possibly derived
1486 % packages)
1487 morekeywords=[6]{%
1488     xetex,%
1489 },%
1490 % otherkeywords={},
1491 % alsoletter={},
1492 % alsodigit={},%
1493 % alsoother={},%
1494 sensitive,%
1495 }[keywords,tex,comments]%
1496
1497 \lst@definlanguage[inputenc]{TeX}{%
1498     % Control sequences names
1499     moretexcs={%
1500     },%
1501     % Keywords of class 1 : keywords that contain other characters (since
1502     % of the same class as the ones specified as 'otherkeywords')
1503     morekeywords={%
1504     },%
1505     % Keywords of class 2 : environments names
1506     morekeywords=[2]{%
1507     },%
1508     % Keywords of class 3 : mandatory arguments (not environments) &
1509     % optional arguments which are keys (in key=value)
1510     morekeywords=[3]{%
1511         latin1 },%
1512     % Keywords of class 4 : values of keys (in key=value)
1513     morekeywords=[4]{%
1514     },%
1515     % Keywords of class 5 : arguments specifications (after ":" in expl3
1516     % syntax)
1517     morekeywords=[5]{%
1518     },%
1519     % Keywords of class 6 : current package name (and possibly derived
1520     % packages)
1521     morekeywords=[6]{%
1522         inputenc,%
1523     },%
1524     % otherkeywords={},%
1525     alsoletter={1},%
1526     % alsodigit={},%
1527     % alsoother={},%
1528     sensitive,%
1529 }[keywords,tex,comments]%
1530
1531 \lst@definlanguage[pdfmanagement-testphase]{TeX}{%
1532     % Control sequences names
1533     moretexcs={%
1534         pdfmanagement_add,DeclareDocumentMetadata,AddToDocumentProperties,%
1535         ShowDocumentProperties,GetDocumentProperties,%
1536     },%

```

```
1537 % Keywords of class 1 : keywords that contain other characters (since
1538 % of the same class as the ones specified as 'otherkeywords')
1539 morekeywords={%
1540 },%
1541 % Keywords of class 2 : environments names
1542 morekeywords=[2]{%
1543 },%
1544 % Keywords of class 3 : mandatory arguments (not environments) &
1545 % optional arguments which are keys (in key=value)
1546 morekeywords=[3]{% Keys or optional arguments
1547 pdfmanagement-testphase,uncompress,geometry,top-level,backend,Info,%
1548 ThisPage,pdfversion,pdfstandard,paper,topic,Title,Rotate,%
1549 },%
1550 % Keywords of class 4 : values of keys (in key=value)
1551 morekeywords=[4]{%
1552 dvipdfmx,%
1553 },%
1554 % Keywords of class 5 : arguments specifications (after ":" in expl3
1555 % syntax)
1556 morekeywords=[5]{%
1557 nnn,%
1558 },%
1559 % Keywords of class 6 : current package name (and possibly derived
1560 % packages)
1561 morekeywords=[6]{%
1562 pdfmanagement-testphase,%
1563 },
1564 otherkeywords={:},%
1565 alsoletter={_-},%
1566 % alsodigit={},%
1567 % alsoother={},%
1568 sensitive,%
1569 }[keywords,tex,comments]%
1570
1571 \lst@definlanguage[rotating]{TeX}{%
1572 % Control sequences names
1573 moretexcs={%
1574 },%
1575 % Keywords of class 1 : keywords that contain other characters (since
1576 % of the same class as the ones specified as 'otherkeywords')
1577 morekeywords={%
1578 },%
1579 % Keywords of class 2 : environments names
1580 morekeywords=[2]{%
1581 sidewaysstable,%
1582 },%
1583 % Keywords of class 3 : mandatory arguments (not environments) &
1584 % optional arguments which are keys (in key=value)
1585 morekeywords=[3]{%
1586 },%
1587 % Keywords of class 4 : values of keys (in key=value)
1588 morekeywords=[4]{%
```

```

1589     },%
1590     % Keywords of class 5 : arguments specifications (after ":" in expl3
1591     % syntax)
1592     morekeywords=[5]{%
1593     },%
1594     % Keywords of class 6 : current package name (and possibly derived
1595     % packages)
1596     morekeywords=[6]{%
1597         rotating,%
1598     },%
1599     % alsoletter={},
1600     % alsodigit={},%
1601     % alsoother={},%
1602     sensitive,%
1603 }[keywords, tex, comments]%
1604
1605 \lst@definlanguage[fontenc]{TeX}%
1606 {%
1607     % Control sequences names
1608     moretexcs={%
1609     },%
1610     % Keywords of class 1 : keywords that contain other characters (since
1611     % of the same class as the ones specified as 'otherkeywords')
1612     morekeywords={%
1613     },%
1614     % Keywords of class 2 : environments names
1615     morekeywords=[2]{%
1616     },%
1617     % Keywords of class 3 : mandatory arguments (not environments) &
1618     % optional arguments which are keys (in key=value)
1619     morekeywords=[3]{%
1620         T1 },%
1621     % Keywords of class 4 : values of keys (in key=value)
1622     morekeywords=[4]{%
1623     },%
1624     % Keywords of class 5 : arguments specifications (after ":" in expl3
1625     % syntax)
1626     morekeywords=[5]{%
1627     },%
1628     % Keywords of class 6 : current package name (and possibly derived
1629     % packages)
1630     morekeywords=[6]{%
1631         fontenc,%
1632     },%
1633     % otherkeywords={},
1634     % alsoletter={1},%
1635     alsodigit={1},%
1636     % alsoother={},%
1637     sensitive,%
1638 }[keywords, tex, comments]%
1639
1640 \lst@definlanguage[babel]{TeX}%

```



```
1641 {%
1642   % Control sequences names
1643   moretexcs={%
1644     foreignlanguage,selectlanguage,iflanguage,%
1645   },%
1646   % Keywords of class 1 : keywords that contain other characters (since
1647   % of the same class as the ones specified as 'otherkeywords')
1648   morekeywords={%
1649     },%
1650   % Keywords of class 2 : environments names
1651   morekeywords=[2]{%
1652     otherlanguage,%
1653   },%
1654   % Keywords of class 3 : mandatory arguments (not environments) &
1655   % optional arguments which are keys (in key=value)
1656   morekeywords=[3]{%
1657     },%
1658   % Keywords of class 4 : values of keys (in key=value)
1659   morekeywords=[4]{%
1660     UKenglish,USenglish,acadian,afrikaans,american,arabic,australian,%
1661     austrian,azerbaijani,bahasa,bahasai,basque,bgreek,brazil,%
1662     brazilian,breton,british,bulgarian,canadian,canadien,catalan,%
1663     croatian,czech,danish,dutch,english,esperanto,estonian,ethiop,%
1664     farsi,finnish,français,french,frenchle,friulan,galician,german,%
1665     germanb,greek,hebrew,hindi,ibygreek,icelandic,indon,indonesian,%
1666     interlingua,irish,italian,japanese,latin,latvian,lithuanian,%
1667     lowersorbian,magyar,malay,melayu (bahasam),mongolian,naustrian,%
1668     newzealand,ngerman,norsk,nynorsk,pinyin,polish,polutonikogreek,%
1669     portuges,portuguese,romanian,romansh,russian,samin,scottish,%
1670     serbian,serbianc,slovak,slovene,spanenglish,spanish,swedish,thai,%
1671     thaicjk,turkish,turkmen,ukrainian,upporsorbian,vietnamese,%
1672     welsh,%
1673   },%
1674   % Keywords of class 5 : arguments specifications (after ":" in expl3
1675   % syntax)
1676   morekeywords=[5]{%
1677     },%
1678   % Keywords of class 6 : current package name (and possibly derived
1679   % packages)
1680   morekeywords=[6]{%
1681     babel,%
1682   },%
1683   % otherkeywords={},
1684   % alsoletter={},
1685   % alsodigit={},%
1686   % alsoother={},%
1687   sensitive,%
1688 }[keywords,tex,comments]%
1689
1690 \lst@definlanguage[babel-french]{TeX}%
1691 {%
1692   % Control sequences names
```

```

1693   moretexcs={%
1694       og, fg, up, bsc, ier, iers, iere, ieres, ieme, iemes, primo, secundo, %
1695       tertio, quarto, FrenchEnumerate, No, Nos, no, nos, degre, nombre, %
1696       frenchabstractname, frenchbibname, frenchrefname, frenchprefacename, %
1697       frenchchaptername, frenchappendixname, frenchcontentsname, %
1698       frenchlistfigurename, frenchlisttablename, frenchindexname, %
1699       frenchglossaryname, frenchfigurename, frenchtablename, frenchpartname, %
1700       frenchenclname, frenchccname, frenchheadtoname, frenchpagename, %
1701       frenchseenname, frenchalsoname, frenchproofname%, %
1702       frquote, %
1703   }, %
1704   % Keywords of class 1 : keywords that contain other characters (since
1705   % of the same class as the ones specified as 'otherkeywords')
1706   morekeywords={%
1707   }, %
1708   % Keywords of class 2 : environments names
1709   morekeywords=[2]{%
1710   }, %
1711   % Keywords of class 3 : mandatory arguments (not environments) &
1712   % optional arguments which are keys (in key=value)
1713   morekeywords=[3]{%
1714   }, %
1715   % Keywords of class 4 : values of keys (in key=value)
1716   morekeywords=[4]{%
1717   }, %
1718   % Keywords of class 5 : arguments specifications (after ":" in expl3
1719   % syntax)
1720   morekeywords=[5]{%
1721   }, %
1722   % Keywords of class 6 : current package name (and possibly derived
1723   % packages)
1724   morekeywords=[6]{%
1725       babel-french, %
1726   }, %
1727   % otherkeywords={}, %
1728   alsoletter={-}, %
1729   % alsodigit={}, %
1730   % alsoother={}, %
1731   sensitive, %
1732 }[keywords, tex, comments]%
1733
1734 \lst@definlanguage[kantlipsum]{TeX}{%
1735   % Control sequences names
1736   moretexcs={%
1737       kant, %
1738   }, %
1739   % Keywords of class 1 : keywords that contain other characters (since
1740   % of the same class as the ones specified as 'otherkeywords')
1741   morekeywords={%
1742   }, %
1743   % Keywords of class 2 : environments names
1744   morekeywords=[2]{%

```

```
1745     },%
1746     % Keywords of class 3 : mandatory arguments (not environments) &
1747     % optional arguments which are keys (in key=value)
1748     morekeywords=[3]{%
1749     },%
1750     % Keywords of class 4 : values of keys (in key=value)
1751     morekeywords=[4]{%
1752     },%
1753     % Keywords of class 5 : arguments specifications (after ":" in expl3
1754     % syntax)
1755     morekeywords=[5]{%
1756     },%
1757     % Keywords of class 6 : current package name (and possibly derived
1758     % packages)
1759     morekeywords=[6]{%
1760         kantlipsum,%
1761     },%
1762     % otherkeywords={},
1763     % alsoletter={},
1764     % alsodigit={},%
1765     % alsoother={},%
1766     sensitive,%
1767 }[keywords, tex, comments]%
1768
1769 \lst@definlanguage[hyperxmp]{TeX}{%
1770     % Control sequences names
1771     moretexcs={%
1772     },%
1773     % Keywords of class 1 : keywords that contain other characters (since
1774     % of the same class as the ones specified as 'otherkeywords')
1775     morekeywords={%
1776     },%
1777     % Keywords of class 2 : environments names
1778     morekeywords=[2]{%
1779     },%
1780     % Keywords of class 3 : mandatory arguments (not environments) &
1781     % optional arguments which are keys (in key=value)
1782     morekeywords=[3]{%
1783     },%
1784     % Keywords of class 4 : values of keys (in key=value)
1785     morekeywords=[4]{%
1786     },%
1787     % Keywords of class 5 : arguments specifications (after ":" in expl3
1788     % syntax)
1789     morekeywords=[5]{%
1790     },%
1791     % Keywords of class 6 : current package name (and possibly derived
1792     % packages)
1793     morekeywords=[6]{%
1794         hyperxmp,%
1795     },%
1796     % otherkeywords={},
```

```

1797 % alsoletter={},
1798 % alsodigit={},%
1799 % alsoother={},%
1800 sensitive,%
1801 }[keywords, tex, comments]%
1802
1803 \lst@definlanguage[hyperref]{TeX}{%
1804 % Control sequences names
1805 moretexcs={%
1806     hypersetup, href, phantomsection, pdfstringdefDisableCommands, url,%
1807     nolinkurl, hyperbaseurl, hyperimage, hyperdef, hyperref, hyperlink,%
1808     hypertarget, hyperget, autoref, autopageref, ref*, pageref*, autoref*,%
1809     autopageref*, pdfstringdef, pdfbookmark, currentpdfbookmark,%
1810     subpdfbookmark, belowpdfbookmark, texorpdfstring, thispdfpagelabel,%
1811     hypercalcbp, nameref,%
1812 },%
1813 % Keywords of class 1 : keywords that contain other characters (since
1814 % of the same class as the ones specified as 'otherkeywords')
1815 morekeywords={%
1816 },%
1817 % Keywords of class 2 : environments names
1818 morekeywords=[2]{%
1819 },%
1820 % Keywords of class 3 : mandatory arguments (not environments) &
1821 % optional arguments which are keys (in key=value)
1822 morekeywords=[3]{%
1823     allbordercolors, allcolors, anchorcolor, backref, baseurl, bookmarks,%
1824     bookmarksnumbered, bookmarksopen, bookmarksopenlevel, bookmarkstype,%
1825     breaklinks, CJKbookmarks, citebordercolor, citecolor, colorlinks, debug,%
1826     destlabel, draft, driverfallback, dvipdfm, dvipdfmx, dvips, dvipsone,%
1827     dviwindo, encap, extension, filebordercolor, filecolor, final,%
1828     frenchlinks, hidelinks, hyperfigures, hyperfootnotes, hyperindex,%
1829     hypertex, hypertexnames, implicit, latex2html, linkbordercolor,%
1830     linkcolor, linktoc, linktocpage, menubordercolor, menucolor, nativepdf,%
1831     naturalnames, nesting, next-anchor, pageanchor, pagebackref, pdfauthor,%
1832     pdfborder, pdfborderstyle, pdfcenterwindow, pdfcreator, pdfdirection,%
1833     pdfdisplaydoctitle, pdfduplex, pdfffitwindow, pdfhighlight, pdfinfo,%
1834     pdfkeywords, pdflang, pdfmark, pdfmenubar, pdfnewwindow,%
1835     pdfnonfullscreenpagemode, pdfnumcopies, pdfpagelabels, pdfpagelayout,%
1836     pdfpagemode, pdfpagescrop, pdfpagetransition, pdfpicktraybypdfsize,%
1837     pdfprintarea, pdfprintclip, pdfprintpagerange, pdfprintsclaping,%
1838     pdfproducer, pdfremotestartview, pdfstartpage, pdfstartview, pdfsubject,%
1839     %
1840     pdftex, pdftitle, pdftoolbar, pdftrapped, pdfview, pdfviewarea,%
1841     pdfviewclip, pdfwindowui, plainpages, ps2pdf, psdextra, raiselinks,%
1842     runbordercolor, runcolor, setpagesize, tex4ht, textures, unicode,%
1843     urlbordercolor, urlcolor, verbose, vtex, xetex,%
1844 },%
1845 % Keywords of class 4 : values of keys (in key=value)
1846 morekeywords=[4]{%
1847 },%
1848 % Keywords of class 5 : arguments specifications (after ":" in expl3

```

```

1848     % syntax)
1849     morekeywords=[5]{%
1850     },%
1851     % Keywords of class 6 : current package name (and possibly derived
1852     % packages)
1853     morekeywords=[6]{%
1854     hyperref,%
1855     },%
1856     % otherkeywords={},%
1857     alsoletter={*},%
1858     % alsodigit={},%
1859     % alsoother={},%
1860     sensitive,%
1861 }[keywords, tex, comments]%
1862
1863 \lst@definelanguage[graphicx]{TeX}{%
1864     % Control sequences names
1865     moretexcs={%
1866         includegraphics, includegraphics*, definecolor, color, textcolor,%
1867         mathcolor, pagecolor, nopagecolor, colorbox, fcolorbox, rotatebox,%
1868         scalebox, reflectbox, resizebox, resizebox*, graphicspath,%
1869         DeclareGraphicsExtensions, DeclareGraphicsRule },%
1870     % Keywords of class 1 : keywords that contain other characters (since
1871     % of the same class as the ones specified as 'otherkeywords')
1872     morekeywords={%
1873     },%
1874     % Keywords of class 2 : environments names
1875     morekeywords=[2]{%
1876     },%
1877     % Keywords of class 3 : mandatory arguments (not environments) &
1878     % optional arguments which are keys (in key=value)
1879     morekeywords=[3]{%
1880         draft, final, hiresbb, demo, setpagesize, nosetpagesize, dvips, xdvi,%
1881         dvipdf, dvipdfm, dvipdfmx, xetex, pdftex, luatex, dvisvgm, dvipsone,%
1882         dviwindo, emtex, dviwin, oztex, textures, pctexps, pctexwin, pctexhp,%
1883         pctex32, truetex, tcidvi, vtex, debugshow, hiderotate, hidescale, alt,%
1884         %
1885         bb, bblx, bblly, bburx, bbury, natwidth, natheight, hiresbb, pagebox,%
1886         viewport, trim, angle, origin, width, height, totalheight,%
1887         keepaspectratio, scale, clip, draft, type, ext, read, command, quiet,%
1888         page, interpolate, decodearray, origin, x, y, units,%
1889     },%
1890     % Keywords of class 4 : values of keys (in key=value)
1891     morekeywords=[4]{%
1892         mediabox, cropbox, bleedbox, trimbox, artbox, true, false,%
1893     },%
1894     % Keywords of class 5 : arguments specifications (after ":" in expl3
1895     % syntax)
1896     morekeywords=[5]{%
1897     },%
1898     % Keywords of class 6 : current package name (and possibly derived
1899     % packages)

```

```

1900     morekeywords=[6]{%
1901         graphicx,%
1902     },%
1903     % otherkeywords={},%
1904     alsoletter={23},%
1905     % alsodigit={},%
1906     % alsoother={},%
1907     sensitive,%
1908 }[keywords, tex, comments]%
1909
1910 \lst@definlanguage[geometry]{TeX}{%
1911     % Control sequences names
1912     moretexcs={%
1913         geometry, newgeometry, restoregeometry, savegeometry, loadgeometry,%
1914     },%
1915     % Keywords of class 1 : keywords that contain other characters (since
1916     % of the same class as the ones specified as 'otherkeywords')
1917     morekeywords={%
1918     },%
1919     % Keywords of class 2 : environments names
1920     morekeywords=[2]{%
1921     },%
1922     % Keywords of class 3 : mandatory arguments (not environments) &
1923     % optional arguments which are keys (in key=value)
1924     morekeywords=[3]{%
1925         paper, papername, paperwidth, paperheight, papersize, landscape,%
1926         portrait, layout, layoutwidth, layoutheight, layoutsize, layoutoffset,%
1927         layoutvoffset, layoutoffset, hscale, vscale, scale, width, totalwidth,%
1928         height, totalheight, total, textwidth, textheight, text, body, lines,%
1929         includehead, includefoot, includeheadfoot, includemp, includeall,%
1930         ignorehead, ignorefoot, ignoreheadfoot, ignoremp, ignoreall,%
1931         heightrounded, hdivide, vdivide, divide, left, lmargin, inner, right,%
1932         rmargin, outer, top, tmargin, bottom, bmargin, hmargin, vmargin, margin,%
1933         hmarginratio, vmarginratio, marginratio, ratio, hcentering, vcentering,%
1934         centering, twoside, asymmetric, headheight, head, headsep, footskip,%
1935         foot, nohead, nofoot, noheadfoot, footnotesep, marginparwidth,%
1936         marginparsep, nomarginpar, columnsep, hoffset, voffset, offset,%
1937         twocolumn, onecolumn, reversemp, reversemarginpar, verbose, reset, mag,%
1938         truedimen, pass, showframe, showcrop,%
1939     },%
1940     % Keywords of class 4 : values of keys (in key=value)
1941     morekeywords=[4]{%
1942         a0paper, a1paper, a2paper, a3paper, a4paper, a5paper, a6paper, b0paper,%
1943         b1paper, b2paper, b3paper, b4paper, b5paper, b6paper, c0paper, c1paper,%
1944         c2paper, c3paper, c4paper, c5paper, c6paper, b0j, b1j, b2j, b3j, b4j,%
1945         b5j, b6j, ansiapaper, ansipaper, ansicpaper, ansidpaper, ansiepaper,%
1946         letterpaper, executivepaper, legalpaper, screen, dvips, dvipdfm, pdftex,%
1947         luatex, xetex, vtex, dvipdfmx, xdvipdfmx,%
1948     },%
1949     % Keywords of class 5 : arguments specifications (after ":" in expl3
1950     % syntax)
1951     morekeywords=[5]{%

```

```

1952     },%
1953     % Keywords of class 6 : current package name (and possibly derived
1954     % packages)
1955     morekeywords=[6]{%
1956         geometry,%
1957     },%
1958     % otherkeywords={},%
1959     alsoletter={0123456},%
1960     % alsodigit={},%
1961     % alsoother={},%
1962     sensitive,%
1963 }[keywords, tex, comments]%
1964
1965 \lst@definlanguage[newpax]{TeX}{%
1966     % Control sequences names
1967     moretexcs={%
1968         newpaxsetup,%
1969     },%
1970     % Keywords of class 1 : keywords that contain other characters (since
1971     % of the same class as the ones specified as 'otherkeywords')
1972     morekeywords={%
1973     },%
1974     % Keywords of class 2 : environments names
1975     morekeywords=[2]{%
1976     },%
1977     % Keywords of class 3 : mandatory arguments (not environments) &
1978     % optional arguments which are keys (in key=value)
1979     morekeywords=[3]{%
1980         addannots,%
1981     },%
1982     % Keywords of class 4 : values of keys (in key=value)
1983     morekeywords=[4]{%
1984         false,%
1985     },%
1986     % Keywords of class 5 : arguments specifications (after ":" in expl3
1987     % syntax)
1988     morekeywords=[5]{%
1989     },%
1990     % Keywords of class 6 : current package name (and possibly derived
1991     % packages)
1992     morekeywords=[6]{%
1993         newpax,%
1994     },%
1995     % otherkeywords={},
1996     % alsoletter={},
1997     % alsodigit={},%
1998     % alsoother={},%
1999     sensitive,%
2000 }[keywords, tex, comments]%
2001
2002 \lst@definlanguage[tikz]{TeX}{%
2003     % Control sequences names

```

```

2004   moretexcs={%
2005       usetikzlibrary,draw,node,matrix,fill,foreach,tikz,pgfmathsetmacro,%
2006       path,%
2007   },%
2008   % Keywords of class 1 : keywords that contain other characters (since
2009   % of the same class as the ones specified as 'otherkeywords')
2010   morekeywords={%
2011   },%
2012   % Keywords of class 2 : environments names
2013   morekeywords=[2]{%
2014       tikzpicture,%
2015   },%
2016   % Keywords of class 3 : mandatory arguments (not environments) &
2017   % optional arguments which are keys (in key=value)
2018   morekeywords=[3]{%
2019       pic,rotate,xshift,yshift,every node,inner sep,blend mode,fill,%
2020       fit,circle,anchor,in,count,x,y,matrix,of,math,nodes,above right,%
2021       at,--, -|, |- ,thick,size,angle,circle,through,intersection,of,%
2022       draw,coordinate,shift,and,cycle,cs:A,node,barycentric,%
2023   },%
2024   % Keywords of class 4 : values of keys (in key=value)
2025   morekeywords=[4]{%
2026       multiply,lightgray,base,red%
2027   },%
2028   % Keywords of class 5 : arguments specifications (after ":" in expl3
2029   % syntax)
2030   morekeywords=[5]{%
2031   },%
2032   % Keywords of class 6 : current package name (and possibly derived
2033   % packages)
2034   morekeywords=[6]{%
2035       tikz,%
2036   },%
2037   % otherkeywords={},%
2038   alsoletter={-| \ :},%
2039   % alsodigit={},%
2040   % alsoother={},%
2041   sensitive,%
2042 }[keywords, tex, comments]%
2043
2044 \lst@definlanguage[tikzducks]{TeX}{%
2045   % Control sequences names
2046   moretexcs={%
2047       duck,%
2048   },%
2049   % Keywords of class 1 : keywords that contain other characters (since
2050   % of the same class as the ones specified as 'otherkeywords')
2051   morekeywords={%
2052   },%
2053   % Keywords of class 2 : environments names
2054   morekeywords=[2]{%
2055   },%

```



```

2056 % Keywords of class 3 : mandatory arguments (not environments) &
2057 % optional arguments which are keys (in key=value)
2058 morekeywords=[3]{%
2059     alien, aodai, baguette, basket, beard, beret, bill, body, book, %
2060     bookcolour, bowtie, bubblecolour, bunny, buttons, cake, cap, cape, %
2061     cheese, chef, cocktail, conicalhat, crazyhair, cricket, crown, crozier, %
2062     crystalball, darthvader, devil, easter, egga, eggb, eggc, eye, eyebrow, %
2063     flavoura, flavourb, flavourc, football, glasses, graduate, grumpy, %
2064     handbag, harlequin, hat, head, helmet, hockey, horsetail, icecream, %
2065     inear, invisible, jacket, kingcrown, lapel, laughing, lightsaber, %
2066     longhair, magichat, magicstars, magicwand, mask, milkshake, mohican, %
2067     mullet, name, neckerchief, necklace, niuqelrah, overleaf, parrot, %
2068     parting, peakedcap, pickaxe, pizza, prison, queencrown, recedinghair, %
2069     ribbon, rollingpin, sailor, santa, sheep, shorthair, shovel, signback, %
2070     signcolour, signpost, snowduck, speech, squareglasses, stethoscope, %
2071     strawhat, sunglasses, tail, tassel, think, tie, tophat, torch, tshirt, %
2072     umbrella, umbrellaclosed, unicorn, vampire, viking, water, wine, wing, %
2073     witch, woggle, %
2074 }, %
2075 % Keywords of class 4 : values of keys (in key=value)
2076 morekeywords=[4]{%
2077     blue, green, red, yellow, %
2078 }, %
2079 % Keywords of class 5 : arguments specifications (after ":" in expl3
2080 % syntax)
2081 morekeywords=[5]{%
2082 }, %
2083 % Keywords of class 6 : current package name (and possibly derived
2084 % packages)
2085 morekeywords=[6]{%
2086     tikzducks, %
2087 }, %
2088 % otherkeywords={},
2089 % alsoletter={},
2090 % alsodigit={}, %
2091 % alsoother={}, %
2092 sensitive, %
2093 }[keywords, tex, comments]%
2094
2095 \lst@definlanguage[tikzlings]{TeX}{%
2096     % Control sequences names
2097     moretexcs={%
2098         anteater, bear, bee, cat, chicken, coati, elephant, hippo, koala, %
2099         marmot, mole, mouse, owl, panda, penguin, pig, rhino, sheep, sloth, %
2100         squirrel, snowman, %
2101     }, %
2102     % Keywords of class 1 : keywords that contain other characters (since
2103     % of the same class as the ones specified as 'otherkeywords')
2104     morekeywords={%
2105     }, %
2106     % Keywords of class 2 : environments names
2107     morekeywords=[2]{%

```

```

2108     },%
2109     % Keywords of class 3 : mandatory arguments (not environments) &
2110     % optional arguments which are keys (in key=value)
2111     morekeywords=[3]{%
2112         3D, eye, contour, back, globalwarming, whiskers, schroedinger, %
2113     },%
2114     % Keywords of class 4 : values of keys (in key=value)
2115     morekeywords=[4]{%
2116     },%
2117     % Keywords of class 5 : arguments specifications (after ":" in expl3
2118     % syntax)
2119     morekeywords=[5]{%
2120     },%
2121     % Keywords of class 6 : current package name (and possibly derived
2122     % packages)
2123     morekeywords=[6]{%
2124         tikzlings, %
2125     },%
2126     % otherkeywords={},%
2127     alsoletter={3},%
2128     % alsodigit={},%
2129     % alsoother={},%
2130     sensitive,%
2131 }[keywords, tex, comments]%
2132
2133 \lst@definlanguage[amsmath]{TeX}{%
2134     % Control sequences names
2135     moretexcs={%
2136         cdots, ddots, vdots, %
2137     },%
2138     % Keywords of class 1 : keywords that contain other characters (since
2139     % of the same class as the ones specified as 'otherkeywords')
2140     morekeywords={%
2141     },%
2142     % Keywords of class 2 : environments names
2143     morekeywords=[2]{%
2144         pmatrix, %
2145     },%
2146     % Keywords of class 3 : mandatory arguments (not environments) &
2147     % optional arguments which are keys (in key=value)
2148     morekeywords=[3]{%
2149     },%
2150     % Keywords of class 4 : values of keys (in key=value)
2151     morekeywords=[4]{%
2152     },%
2153     % Keywords of class 5 : arguments specifications (after ":" in expl3
2154     % syntax)
2155     morekeywords=[5]{%
2156     },%
2157     % Keywords of class 6 : current package name (and possibly derived
2158     % packages)
2159     morekeywords=[6]{%

```

```

2160     amsmath,%
2161   },%
2162   % otherkeywords={},
2163   % alsoletter={},
2164   % alsodigit={},%
2165   % alsoother={},%
2166   sensitive,%
2167 }[keywords, tex, comments]%
2168
2169 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2170 % xparse
2171 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2172 \lst@definlanguage[xparse]{TeX}{%
2173   % Control sequences names
2174   moretexcs={%
2175     NewDocumentCommand, RenewDocumentCommand, ProvideDocumentCommand,%
2176     DeclareDocumentCommand, NewDocumentEnvironment,%
2177     RenewDocumentEnvironment, ProvideDocumentEnvironment,%
2178     DeclareDocumentEnvironment, NewExpandableDocumentCommand,%
2179     RenewExpandableDocumentCommand, ProvideExpandableDocumentCommand,%
2180     DeclareExpandableDocumentCommand, IfNoValueT, IfNoValueF, IfNoValueTF,%
2181     IfValueT, IfValueF, IfValueTF, IfBooleanT, IfBooleanF, IfBooleanTF,%
2182     BooleanTrue, BooleanFalse, ProcessedArgument, ReverseBoolean,%
2183     SplitArgument, SplitList, ProcessList, TrimSpaces,%
2184     GetDocumentCommandArgSpec, GetDocumentEnvironmentArgSpec,%
2185     ShowDocumentCommandArgSpec, ShowDocumentEnvironmentArgSpec,%
2186   },%
2187   % Keywords of class 1 : keywords that contain other characters (since
2188   % of the same class as the ones specified as 'otherkeywords')
2189   morekeywords={%
2190   },%
2191   % Keywords of class 2 : environments names
2192   morekeywords=[2]{%
2193   },%
2194   % Keywords of class 3 : mandatory arguments (not environments) &
2195   % optional arguments which are keys (in key=value)
2196   morekeywords=[3]{%
2197     log-declarations,%
2198     m, r, R, v, b, o, d, O, D, s, t, e, E,%
2199   },%
2200   % Keywords of class 4 : values of keys (in key=value)
2201   morekeywords=[4]{%
2202   },%
2203   % Keywords of class 5 : arguments specifications (after ":" in expl3
2204   % syntax)
2205   morekeywords=[5]{%
2206   },%
2207   % Keywords of class 6 : current package name (and possibly derived
2208   % packages)
2209   morekeywords=[6]{%
2210     xparse,%
2211   },%

```

```

2212 % otherkeywords={},%
2213 alsoletter={-},%
2214 % alsodigit={},%
2215 % alsoother={},%
2216 sensitive,%
2217 }[keywords,tex,comments]%
2218
2219 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2220 % colortbl
2221 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2222 \lst@definlanguage[colortbl]{TeX}{%
2223 % Control sequences names
2224 moretexcs={%
2225 columncolor,rowcolor,cellcolor,arrayrulecolor,doublerulesepcolor,%
2226 minrowclearance,%
2227 },%
2228 % Keywords of class 1 : keywords that contain other characters (since
2229 % of the same class as the ones specified as 'otherkeywords')
2230 morekeywords={%
2231 },%
2232 % Keywords of class 2 : environments names
2233 morekeywords=[2]{%
2234 },%
2235 % Keywords of class 3 : mandatory arguments (not environments) &
2236 % optional arguments which are keys (in key=value)
2237 morekeywords=[3]{%
2238 },%
2239 % Keywords of class 4 : values of keys (in key=value)
2240 morekeywords=[4]{%
2241 },%
2242 % Keywords of class 5 : arguments specifications (after ":" in expl3
2243 % syntax)
2244 morekeywords=[5]{%
2245 },%
2246 % Keywords of class 6 : current package name (and possibly derived
2247 % packages)
2248 morekeywords=[6]{%
2249 colortbl,%
2250 },%
2251 % otherkeywords={},
2252 % alsoletter={},
2253 % alsodigit={},%
2254 % alsoother={},%
2255 sensitive,%
2256 }[keywords,tex,comments]%
2257
2258 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2259 % multirow
2260 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2261 \lst@definlanguage[multirow]{TeX}%
2262 {%
2263 % Control sequences names

```

```

2264     moretexcs={%
2265         multirow,%
2266     },%
2267     % Keywords of class 1 : keywords that contain other characters (since
2268     % of the same class as the ones specified as 'otherkeywords')
2269     morekeywords={%
2270     },%
2271     % Keywords of class 2 : environments names
2272     morekeywords=[2]{%
2273     },%
2274     % Keywords of class 3 : mandatory arguments (not environments) &
2275     % optional arguments which are keys (in key=value)
2276     morekeywords=[3]{%
2277     },%
2278     % Keywords of class 4 : values of keys (in key=value)
2279     morekeywords=[4]{%
2280     },%
2281     % Keywords of class 5 : arguments specifications (after ":" in expl3
2282     % syntax)
2283     morekeywords=[5]{%
2284     },%
2285     % Keywords of class 6 : current package name (and possibly derived
2286     % packages)
2287     morekeywords=[6]{%
2288         multirow,%
2289     },%
2290     % otherkeywords={},
2291     % alsoletter={},
2292     % alsodigit={},%
2293     % alsoother={},%
2294     sensitive,%
2295 }[keywords, tex, comments]%
2296
2297 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2298 % nicematrix
2299 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2300 \lst@definlanguage[nicematrix]{TeX}%
2301 {%
2302     % Control sequences names
2303     moretexcs={%
2304         Cdots, Ddots, Vdots, Body, CodeBefore, CodeAfter, Block,%
2305     },%
2306     % Keywords of class 1 : keywords that contain other characters (since
2307     % of the same class as the ones specified as 'otherkeywords')
2308     morekeywords={%
2309     },%
2310     % Keywords of class 2 : environments names
2311     morekeywords=[2]{%
2312         pNiceMatrix, NiceMatrix, NiceTabular, bNiceArray,%
2313     },%
2314     % Keywords of class 3 : mandatory arguments (not environments) &
2315     % optional arguments which are keys (in key=value)

```

```

2316     morekeywords=[3]{%
2317         hvlines, rules/width, baseline, colortbl-like, margin, right-margin, %
2318         create-cell-nodes, rounded-corners, draw, %
2319     }, %
2320     % Keywords of class 4 : values of keys (in key=value)
2321     morekeywords=[4]{%
2322     }, %
2323     % Keywords of class 5 : arguments specifications (after ":" in expl3
2324     % syntax)
2325     morekeywords=[5]{%
2326     }, %
2327     % Keywords of class 6 : current package name (and possibly derived
2328     % packages)
2329     morekeywords=[6]{%
2330         nicematrix, %
2331     },
2332     otherkeywords={&}, %
2333     alsoletter={/}, %
2334     % alsodigit={}, %
2335     % alsoother={}, %
2336     sensitive, %
2337 }[keywords, tex, comments]%
2338
2339 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2340 % booktabs
2341 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2342 \lst@definlanguage[booktabs]{TeX}%
2343 {%
2344     % Control sequences names
2345     moretexcs={%
2346         toprule, midrule, bottomrule, cmidrule, addlinespace, morecmidrules, %
2347         specialrule, %
2348     }, %
2349     % Keywords of class 1 : keywords that contain other characters (since
2350     % of the same class as the ones specified as 'otherkeywords')
2351     morekeywords={%
2352     }, %
2353     % Keywords of class 2 : environments names
2354     morekeywords=[2]{%
2355     }, %
2356     % Keywords of class 3 : mandatory arguments (not environments) &
2357     % optional arguments which are keys (in key=value)
2358     morekeywords=[3]{%
2359     }, %
2360     % Keywords of class 4 : values of keys (in key=value)
2361     morekeywords=[4]{%
2362     }, %
2363     % Keywords of class 5 : arguments specifications (after ":" in expl3
2364     % syntax)
2365     morekeywords=[5]{%
2366     }, %
2367     % Keywords of class 6 : current package name (and possibly derived

```



```

2420 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2421 \lst@definlanguage[cartonaugh]{TeX}%
2422 {%
2423   % Control sequences names
2424   moretexcs={%
2425     maxterms,minterms,terms,implicant,%
2426   },%
2427   % Keywords of class 1 : keywords that contain other characters (since
2428   % of the same class as the ones specified as 'otherkeywords')
2429   morekeywords={%
2430   },%
2431   % Keywords of class 2 : environments names
2432   morekeywords=[2]{%
2433     cartonaugh,%
2434   },%
2435   % Keywords of class 3 : mandatory arguments (not environments) &
2436   % optional arguments which are keys (in key=value)
2437   morekeywords=[3]{%
2438   },%
2439   % Keywords of class 4 : values of keys (in key=value)
2440   morekeywords=[4]{%
2441   },%
2442   % Keywords of class 5 : arguments specifications (after ":" in expl3
2443   % syntax)
2444   morekeywords=[5]{%
2445   },%
2446   % Keywords of class 6 : current package name (and possibly derived
2447   % packages)
2448   morekeywords=[6]{%
2449     cartonaugh,%
2450   },%
2451   % otherkeywords={},
2452   % alsoletter={},
2453   % alsodigit={},%
2454   % alsoother={},%
2455   sensitive,%
2456 }[keywords,tex,comments]%
2457 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2458 % xistercian
2459 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2460 \lst@definlanguage[xistercian]{TeX}%
2461 {%
2462   % Control sequences names
2463   moretexcs={%
2464     cisterciannum,%
2465   },%
2466   % Keywords of class 1 : keywords that contain other characters (since
2467   % of the same class as the ones specified as 'otherkeywords')
2468   morekeywords={%
2469   },%
2470   % Keywords of class 2 : environments names

```



```

2472     morekeywords=[2]{%
2473         xistercian,%
2474     },%
2475     % Keywords of class 3 : mandatory arguments (not environments) &
2476     % optional arguments which are keys (in key=value)
2477     morekeywords=[3]{%
2478     },%
2479     % Keywords of class 4 : values of keys (in key=value)
2480     morekeywords=[4]{%
2481     },%
2482     % Keywords of class 5 : arguments specifications (after ":" in expl3
2483     % syntax)
2484     morekeywords=[5]{%
2485     },%
2486     % Keywords of class 6 : current package name (and possibly derived
2487     % packages)
2488     morekeywords=[6]{%
2489         xistercian,%
2490     },%
2491     % otherkeywords={},
2492     % alsoletter={},
2493     % alsodigit={},%
2494     % alsoother={},%
2495     sensitive,%
2496 }[keywords,tex,comments]%
2497
2498 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2499 % aboensis
2500 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2501 \lst@definlanguage[aboensis]{TeX}%
2502 {%
2503     % Control sequences names
2504     moretexcs={%
2505         abcursivefamily,%
2506     },%
2507     % Keywords of class 1 : keywords that contain other characters (since
2508     % of the same class as the ones specified as 'otherkeywords')
2509     morekeywords={%
2510     },%
2511     % Keywords of class 2 : environments names
2512     morekeywords=[2]{%
2513     },%
2514     % Keywords of class 3 : mandatory arguments (not environments) &
2515     % optional arguments which are keys (in key=value)
2516     morekeywords=[3]{%
2517     },%
2518     % Keywords of class 4 : values of keys (in key=value)
2519     morekeywords=[4]{%
2520     },%
2521     % Keywords of class 5 : arguments specifications (after ":" in expl3
2522     % syntax)
2523     morekeywords=[5]{%

```

```

2524     },%
2525     % Keywords of class 6 : current package name (and possibly derived
2526     % packages)
2527     morekeywords=[6]{%
2528         aboensis,%
2529     },%
2530     % otherkeywords={},
2531     % alsoletter={},
2532     % alsodigit={},%
2533     % alsoother={},%
2534     sensitive,%
2535 }[keywords, tex, comments]%
2536
2537 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2538 % tabularray
2539 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2540 \lst@definlanguage[tabularray]{TeX}%
2541 {%
2542     % Control sequences names
2543     moretexcs={%
2544         ,%
2545     },%
2546     % Keywords of class 1 : keywords that contain other characters (since
2547     % of the same class as the ones specified as 'otherkeywords')
2548     morekeywords={%
2549     },%
2550     % Keywords of class 2 : environments names
2551     morekeywords=[2]{%
2552         tblr,%
2553     },%
2554     % Keywords of class 3 : mandatory arguments (not environments) &
2555     % optional arguments which are keys (in key=value)
2556     morekeywords=[3]{%
2557         width, colspec, row, bg, fg, font, column, hlines, X,%
2558     },%
2559     % Keywords of class 4 : values of keys (in key=value)
2560     morekeywords=[4]{%
2561         odd,%
2562     },%
2563     % Keywords of class 5 : arguments specifications (after ":" in expl3
2564     % syntax)
2565     morekeywords=[5]{%
2566     },%
2567     % Keywords of class 6 : current package name (and possibly derived
2568     % packages)
2569     morekeywords=[6]{%
2570         tabularray,%
2571     },%
2572     % otherkeywords={},
2573     % alsoletter={},
2574     % alsodigit={},%
2575     % alsoother={},%

```

```

2576     sensitive,%
2577 }[keywords, tex, comments]%
2578
2579 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2580 % ninecolors
2581 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2582 \lst@definlanguage[ninecolors]{TeX}%
2583 {%
2584     % Control sequences names
2585     moretexcs={%
2586         NineColors,%
2587     },%
2588     % Keywords of class 1 : keywords that contain other characters (since
2589     % of the same class as the ones specified as 'otherkeywords')
2590     morekeywords={%
2591     },%
2592     % Keywords of class 2 : environments names
2593     morekeywords=[2]{%
2594     },%
2595     % Keywords of class 3 : mandatory arguments (not environments) &
2596     % optional arguments which are keys (in key=value)
2597     morekeywords=[3]{%
2598         gray1, red1, brown1, yellow1, olive1, green1, teal1, cyan1, azure1, %
2599         blue1, violet1, magenta1, purple1, gray2, red2, brown2, yellow2, olive2, %
2600         green2, teal2, cyan2, azure2, blue2, violet2, magenta2, purple2, gray3, %
2601         red3, brown3, yellow3, olive3, green3, teal3, cyan3, azure3, blue3, %
2602         violet3, magenta3, purple3, gray4, red4, brown4, yellow4, olive4, %
2603         green4, teal4, cyan4, azure4, blue4, violet4, magenta4, purple4, gray5, %
2604         red5, brown5, yellow5, olive5, green5, teal5, cyan5, azure5, blue5, %
2605         violet5, magenta5, purple5, gray6, red6, brown6, yellow6, olive6, %
2606         green6, teal6, cyan6, azure6, blue6, violet6, magenta6, purple6, gray7, %
2607         red7, brown7, yellow7, olive7, green7, teal7, cyan7, azure7, blue7, %
2608         violet7, magenta7, purple7, gray8, red8, brown8, yellow8, olive8, %
2609         green8, teal8, cyan8, azure8, blue8, violet8, magenta8, purple8, gray9, %
2610         red9, brown9, yellow9, olive9, green9, teal9, cyan9, azure9, blue9, %
2611         violet9, magenta9, purple9, gray1, red1, brown1, yellow1, olive1, %
2612         green1, teal1, cyan1, azure1, blue1, violet1, magenta1, purple1, gray2, %
2613         red2, brown2, yellow2, olive2, green2, teal2, cyan2, azure2, blue2, %
2614         violet2, magenta2, purple2, gray3, red3, brown3, yellow3, olive3, %
2615         green3, teal3, cyan3, azure3, blue3, violet3, magenta3, purple3, gray4, %
2616         red4, brown4, yellow4, olive4, green4, teal4, cyan4, azure4, blue4, %
2617         violet4, magenta4, purple4, gray5, red5, brown5, yellow5, olive5, %
2618         green5, teal5, cyan5, azure5, blue5, violet5, magenta5, purple5, gray6, %
2619         red6, brown6, yellow6, olive6, green6, teal6, cyan6, azure6, blue6, %
2620         violet6, magenta6, purple6, gray7, red7, brown7, yellow7, olive7, %
2621         green7, teal7, cyan7, azure7, blue7, violet7, magenta7, purple7, gray8, %
2622         red8, brown8, yellow8, olive8, green8, teal8, cyan8, azure8, blue8, %
2623         violet8, magenta8, purple8, gray9, red9, brown9, yellow9, olive9, %
2624         green9, teal9, cyan9, azure9, blue9, violet9, magenta9, purple9, %
2625         saturation,%
2626     },%
2627     % Keywords of class 4 : values of keys (in key=value)

```

```

2628     morekeywords=[4]{%
2629         low,medium,high,%
2630     },%
2631     % Keywords of class 5 : arguments specifications (after ":" in expl3
2632     % syntax)
2633     morekeywords=[5]{%
2634     },%
2635     % Keywords of class 6 : current package name (and possibly derived
2636     % packages)
2637     morekeywords=[6]{%
2638         ninecolors,%
2639     },%
2640     % otherkeywords={},%
2641     alsoletter={123456789},%
2642     % alsodigit={},%
2643     % alsoother={},%
2644     sensitive,%
2645 }[keywords,tex,comments]%
2646
2647 \lst@definlanguage[ fontspec ]{TeX}{%
2648     % Control sequences names
2649     moretexcs={%
2650         EncodingAccent,EncodingCommand,EncodingComposite,%
2651         EncodingCompositeCommand,EncodingSymbol,IfFontExistsTF,%
2652         IfFontFeatureActiveTF,UndeclareAccent,UndeclareCommand,%
2653         UndeclareComposite,UndeclareSymbol,addfontfeature,addfontfeatures,%
2654         aliasfontfeature,aliasfontfeatureoption,defaultfontfeatures,fontspec
2655         ,%
2656         liningnums,newAATfeature,newfontface,newfontfamily,newfontfeature,%
2657         newfontlanguage,newfontscript,newopentypefeature,oldstylenums,%
2658         providefontface,providefontfamily,renewfontface,renewfontfamily,%
2659         setboldmathrm,setfontface,setfontfamily,setmainfont,setmathrm,%
2660         setmathsf,setmathtt,setmonofont,setromanfont,setsansfont,strong,%
2661         strongfontdeclare,strongresetsetmainfont,%
2662     },%
2663     % Keywords of class 1 : keywords that contain other characters (since
2664     % of the same class as the ones specified as 'otherkeywords')
2665     morekeywords={%
2666     },%
2667     % Keywords of class 2 : environments names
2668     morekeywords=[2]{%
2669     },%
2670     % Keywords of class 3 : mandatory arguments (not environments) &
2671     % optional arguments which are keys (in key=value)
2672     morekeywords=[3]{%
2673         Alternate,Annotation,AutoFakeBold,AutoFakeSlant,BoldFeatures,%
2674         BoldFont,BoldItalicFeatures,BoldItalicFont,BoldSlantedFeatures,%
2675         BoldSlantedFont,BoldSwashFeatures,BoldSwashFont,CJKShape,
2676         ItalicFeatures,%
2677         CharacterVariant,CharacterWidth,Color,Colour,Contextuals,%
2678         Diacritics,Extension,FakeBold,FakeSlant,FakeStretch,Font,FontFace,%
2679         Fractions,HyphenChar,IgnoreFontspecFileItalicFeatures,ItalicFont,%

```

```

2678     Kerning, Language, LetterSpace, Letters, Ligatures, LocalForms, %
2679     NFSSFamily, Numbers, OpticalSize, Ornament, Path, PunctuationSpace, %
2680     RawFeature, Scale, ScaleAgain, Script, Size, SizeFeatures, %
2681     SlantedFeatures, SlantedFont, SmallCapsFeatures, SmallCapsFont, Style, %
2682     StylisticAlternates, StylisticSet, SwashFeatures, SwashFont, %
2683     UprightFeatures, UprightFont, Variant, Vertical, VerticalPosition, %
2684     WordSpace, Mapping, Renderer, Traditional, Simplified, JIS1978, JIS1983, %
2685     JIS1990, Expert, NLC, %
2686   }, %
2687   % Keywords of class 4 : values of keys (in key=value)
2688   morekeywords=[4]{%
2689     AboveBase, Alternate, AlternateHalf, AlternateMetrics, %
2690     AlternateProportional, Alternates, AlternatesForRotation, Arabic, %
2691     ArabicOff, BelowBase, Common, Contextual, Cursive, Denominator, %
2692     Discretionary, Expert, Full, Half, HalfMetrics, Historic, %
2693     HorizontalKana, Inferior, Inner, Italic, JIS1978, JIS1983, JIS1990, %
2694     KanaAlternates, Kerning, LineFinal, Lining, LiningOff, Lowercase, %
2695     LowercaseOff, MarkToBase, MarkToMark, Monospaced, MonospacedOff, NLC, %
2696     Numerator, Off, OldStyle, OldStyleOff, On, Ordinal, PetiteCaps, %
2697     Proportional, ProportionalMetrics, ProportionalOff, Quarter, Rare, %
2698     Required, Reset, ResetAll, RotatedGlyphs, Ruby, ScientificInferior, %
2699     Simplified, SlashedZero, SlashedZeroOff, SmallCaps, Superior, Swash, %
2700     TeX, Thurd, Titling, Traditional, Unicase, Uppercase, UppercaseOff, %
2701     UppercasePetiteCaps, UppercaseSmallCaps, VerticalKana, WordFinal, %
2702     WordInitial, ResetAll, c2sc, scmp, sinf, sups, zero, ss06, ss01, %
2703     ss04, -liga, frac, titl, swsh, hist, hlig, MatchUppercase, MatchLowercase, %
2704   }, %
2705   % Keywords of class 5 : arguments specifications (after ":" in expl3
2706   % syntax)
2707   morekeywords=[5]{%
2708   }, %
2709   % Keywords of class 6 : current package name (and possibly derived
2710   % packages)
2711   morekeywords=[6]{%
2712     fontspec%
2713   }, %
2714   % otherkeywords={}, %
2715   alsoletter={20614-}, %
2716   % alsodigit={}, %
2717   % alsoother={}, %
2718   sensitive, %
2719 }[keywords, tex, comments]%
2720
2721 \lst@definlanguage[ProfCollege]{TeX}{%
2722   % Control sequences names
2723   moretexcs={%
2724     Thales, Pourcentage, ResolEquation%
2725   }, %
2726   % Keywords of class 1 : keywords that contain other characters (since
2727   % of the same class as the ones specified as 'otherkeywords')
2728   morekeywords={%
2729   }, %

```

```

2730 % Keywords of class 2 : environments names
2731 morekeywords=[2]{%
2732   Twitter,Scratch,%
2733 },%
2734 % Keywords of class 3 : mandatory arguments (not environments) &
2735 % optional arguments which are keys (in key=value)
2736 morekeywords=[3]{%
2737   Auteur,Logo,Calculer,%
2738 },%
2739 % Keywords of class 4 : values of keys (in key=value)
2740 morekeywords=[4]{%
2741   Place,Drapeau,Avancer,Repeter,Tournerg,FinBlocRepeter,%
2742 },%
2743 % Keywords of class 5 : arguments specifications (after ":" in expl3
2744 % syntax)
2745 morekeywords=[5]{%
2746 },%
2747 % Keywords of class 6 : current package name (and possibly derived
2748 % packages)
2749 morekeywords=[6]{%
2750   ProfCollege,%
2751 },%
2752 % otherkeywords={},
2753 % alsoletter={},
2754 % alsodigit={},%
2755 % alsoother={},%
2756 sensitive,%
2757 }[keywords,tex,comments]%
2758
2759 \lst@definlanguage[tkz-euclide]{TeX}{%
2760 % Control sequences names
2761 moretexcs={%
2762   tkzDefPoint,tkzInterCC,tkzGetPoints,tkzDrawCircles,tkzDrawPolygon,%
2763   tkzDrawPoints,tkzMarkSegments,tkzLabelSegments,tkzLabelPoints,%
2764   tkzLabelPoints,%
2765 },%
2766 % Keywords of class 1 : keywords that contain other characters (since
2767 % of the same class as the ones specified as 'otherkeywords')
2768 morekeywords={%
2769 },%
2770 % Keywords of class 2 : environments names
2771 morekeywords=[2]{%
2772   tikzpicture,%
2773 },%
2774 % Keywords of class 3 : mandatory arguments (not environments) &
2775 % optional arguments which are keys (in key=value)
2776 morekeywords=[3]{%
2777   mark,swap,above,scale,%
2778 },%
2779 % Keywords of class 4 : values of keys (in key=value)
2780 morekeywords=[4]{%
2781 },%

```

```

2782 % Keywords of class 5 : arguments specifications (after ":" in expl3
2783 % syntax)
2784 morekeywords=[5]{%
2785 },%
2786 % Keywords of class 6 : current package name (and possibly derived
2787 % packages)
2788 morekeywords=[6]{%
2789   tkz-euclide },%
2790 % otherkeywords={},
2791 % alsoletter={},
2792 % alsodigit={},%
2793 % alsoother={},%
2794 sensitive,%
2795 }[keywords, tex, comments]%
2796
2797 \lst@definlanguage[tkz-fct]{TeX}{%
2798 % Control sequences names
2799 moretexcs={%
2800   tkzInit,tkzDrawX,tkzDrawY,tkzFct,tkzDefPoint,tkzDrawPoint,%
2801   tkzPointShowCoord,tkzDefPoint,tkzDrawPoint,tkzPointShowCoord,%
2802   tkzRep,%
2803 },%
2804 % Keywords of class 1 : keywords that contain other characters (since
2805 % of the same class as the ones specified as 'otherkeywords')
2806 morekeywords={%
2807 },%
2808 % Keywords of class 2 : environments names
2809 morekeywords=[2]{%
2810   tikzpicture,%
2811 },%
2812 % Keywords of class 3 : mandatory arguments (not environments) &
2813 % optional arguments which are keys (in key=value)
2814 morekeywords=[3]{%
2815   xmin,xmax,ymin,ymax,samples,domain,xlabel,ylabel,xscale,yscale%
2816 },%
2817 % Keywords of class 4 : values of keys (in key=value)
2818 morekeywords=[4]{%
2819 },%
2820 % Keywords of class 5 : arguments specifications (after ":" in expl3
2821 % syntax)
2822 morekeywords=[5]{%
2823 },%
2824 % Keywords of class 6 : current package name (and possibly derived
2825 % packages)
2826 morekeywords=[6]{%
2827   tkz-fct },%
2828 % otherkeywords={},
2829 % alsoletter={},
2830 % alsodigit={},%
2831 % alsoother={},%
2832 sensitive,%
2833 }[keywords, tex, comments]%

```

```

2834
2835 \lst@definlanguage[tkz-tab]{TeX}{%
2836   % Control sequences names
2837   moretexcs={%
2838     tkzTabInit,tkzTabLine,tkzTabVar,%
2839   },%
2840   % Keywords of class 1 : keywords that contain other characters (since
2841   % of the same class as the ones specified as 'otherkeywords')
2842   morekeywords={%
2843   },%
2844   % Keywords of class 2 : environments names
2845   morekeywords=[2]{%
2846     tikzpicture,%
2847   },%
2848   % Keywords of class 3 : mandatory arguments (not environments) &
2849   % optional arguments which are keys (in key=value)
2850   morekeywords=[3]{%
2851     lgt,espcl,t,d,z,+,-,-D+/,+/, -/, +D/, scale,%
2852   },%
2853   % Keywords of class 4 : values of keys (in key=value)
2854   morekeywords=[4]{%
2855   },%
2856   % Keywords of class 5 : arguments specifications (after ":" in expl3
2857   % syntax)
2858   morekeywords=[5]{%
2859   },%
2860   % Keywords of class 6 : current package name (and possibly derived
2861   % packages)
2862   morekeywords=[6]{%
2863     tkz-tab },%
2864   % otherkeywords={},%
2865   alsoletter={+ - /},%
2866   % alsodigit={},%
2867   % alsoother={},%
2868   sensitive,%
2869 }[keywords, tex, comments]%
2870
2871 \lst@definlanguage[mecaso]{TeX}{%
2872   % Control sequences names
2873   moretexcs={%
2874     KineticT,%
2875   },%
2876   % Keywords of class 1 : keywords that contain other characters (since
2877   % of the same class as the ones specified as 'otherkeywords')
2878   morekeywords={%
2879   },%
2880   % Keywords of class 2 : environments names
2881   morekeywords=[2]{%
2882   },%
2883   % Keywords of class 3 : mandatory arguments (not environments) &
2884   % optional arguments which are keys (in key=value)
2885   morekeywords=[3]{%

```



```
2886     },%
2887     % Keywords of class 4 : values of keys (in key=value)
2888     morekeywords=[4]{%
2889     },%
2890     % Keywords of class 5 : arguments specifications (after ":" in expl3
2891     % syntax)
2892     morekeywords=[5]{%
2893     },%
2894     % Keywords of class 6 : current package name (and possibly derived
2895     % packages)
2896     morekeywords=[6]{%
2897     micaso },%
2898     % otherkeywords={},
2899     % alsoletter={},
2900     % alsodigit={},%
2901     % alsoother={},%
2902     sensitive,%
2903 }[keywords,tex,comments]%
2904
2905 \lst@definlanguage[hanzibox]{TeX}{%
2906     % Control sequences names
2907     moretexcs={%
2908         hanzibox*,hanziboxset,%
2909     },%
2910     % Keywords of class 1 : keywords that contain other characters (since
2911     % of the same class as the ones specified as 'otherkeywords')
2912     morekeywords={%
2913     },%
2914     % Keywords of class 2 : environments names
2915     morekeywords=[2]{%
2916     },%
2917     % Keywords of class 3 : mandatory arguments (not environments) &
2918     % optional arguments which are keys (in key=value)
2919     morekeywords=[3]{%
2920         frametype,pinyinline,%
2921     },%
2922     % Keywords of class 4 : values of keys (in key=value)
2923     morekeywords=[4]{%
2924         none,true,%
2925     },%
2926     % Keywords of class 5 : arguments specifications (after ":" in expl3
2927     % syntax)
2928     morekeywords=[5]{%
2929     },%
2930     % Keywords of class 6 : current package name (and possibly derived
2931     % packages)
2932     morekeywords=[6]{%
2933         hanzibox },%
2934     % otherkeywords={},%
2935     % alsoletter={},%
2936     % alsodigit={},%
2937     alsoother={*},%
```

```

2938     sensitive,%
2939 }[keywords,tex,comments]%
2940
2941 \lst@definlanguage[tikz-bagua]{TeX}{%
2942     % Control sequences names
2943     moretexcs={%
2944         Bagua*,%
2945     },%
2946     % Keywords of class 1 : keywords that contain other characters (since
2947     % of the same class as the ones specified as 'otherkeywords')
2948     morekeywords={%
2949     },%
2950     % Keywords of class 2 : environments names
2951     morekeywords=[2]{%
2952     },%
2953     % Keywords of class 3 : mandatory arguments (not environments) &
2954     % optional arguments which are keys (in key=value)
2955     morekeywords=[3]{%
2956     },%
2957     % Keywords of class 4 : values of keys (in key=value)
2958     morekeywords=[4]{%
2959     },%
2960     % Keywords of class 5 : arguments specifications (after ":" in expl3
2961     % syntax)
2962     morekeywords=[5]{%
2963     },%
2964     % Keywords of class 6 : current package name (and possibly derived
2965     % packages)
2966     morekeywords=[6]{%
2967         tikz-bagua },%
2968     % otherkeywords={},%
2969     % alsoletter={},%
2970     % alsodigit={},%
2971     alsoother={*},%
2972     sensitive,%
2973 }[keywords,tex,comments]%
2974
2975 \lst@definlanguage[bodeplot]{TeX}{%
2976     % Control sequences names
2977     moretexcs={%
2978         addBodeZPKPlots },%
2979     % Keywords of class 1 : keywords that contain other characters (since
2980     % of the same class as the ones specified as 'otherkeywords')
2981     morekeywords={%
2982     },%
2983     % Keywords of class 2 : environments names
2984     morekeywords=[2]{%
2985         BodePlot,%
2986     },%
2987     % Keywords of class 3 : mandatory arguments (not environments) &
2988     % optional arguments which are keys (in key=value)
2989     morekeywords=[3]{%

```

```
2990     ylabel, ytick, distance, height, width, magnitude, z, p, k, %
2991   }, %
2992   % Keywords of class 4 : values of keys (in key=value)
2993   morekeywords=[4]{%
2994     true, black, thick, linear, red, dashed, thick, asymptotic, blue, %
2995     dotted, thick, %
2996   }, %
2997   % Keywords of class 5 : arguments specifications (after ":" in expl3
2998   % syntax)
2999   morekeywords=[5]{%
3000   }, %
3001   % Keywords of class 6 : current package name (and possibly derived
3002   % packages)
3003   morekeywords=[6]{%
3004     bodeplot }, %
3005   % otherkeywords={}, %
3006   alsoletter={/}, %
3007   % alsodigit={}, %
3008   % alsoother={}, %
3009   sensitive, %
3010 }[keywords, tex, comments]%
3011
3012 \lst@definlanguage[formal-grammar]{TeX}{%
3013   % Control sequences names
3014   moretexcs={%
3015     highlight, firstcase, gralt, nonterm }, %
3016   % Keywords of class 1 : keywords that contain other characters (since
3017   % of the same class as the ones specified as 'otherkeywords')
3018   morekeywords={%
3019   }, %
3020   % Keywords of class 2 : environments names
3021   morekeywords=[2]{%
3022     grammar }, %
3023   % Keywords of class 3 : mandatory arguments (not environments) &
3024   % optional arguments which are keys (in key=value)
3025   morekeywords=[3]{%
3026   }, %
3027   % Keywords of class 4 : values of keys (in key=value)
3028   morekeywords=[4]{%
3029   }, %
3030   % Keywords of class 5 : arguments specifications (after ":" in expl3
3031   % syntax)
3032   morekeywords=[5]{%
3033   }, %
3034   % Keywords of class 6 : current package name (and possibly derived
3035   % packages)
3036   morekeywords=[6]{%
3037     formal-grammar }, %
3038   % otherkeywords={},
3039   % alsoletter={},
3040   % alsodigit={},
3041   % alsoother={},
```

```

3042     sensitive,%
3043 }[keywords,tex,comments]%
3044
3045 \lst@definlanguage[numerica-plus]{TeX}{%
3046     % Control sequences names
3047     moretexcs={%
3048         nmcRecur,%
3049     },%
3050     % Keywords of class 1 : keywords that contain other characters (since
3051     % of the same class as the ones specified as 'otherkeywords')
3052     morekeywords={%
3053     },%
3054     % Keywords of class 2 : environments names
3055     morekeywords=[2]{%
3056     },%
3057     % Keywords of class 3 : mandatory arguments (not environments) &
3058     % optional arguments which are keys (in key=value)
3059     morekeywords=[3]{%
3060         do,see1,f_,%
3061     },%
3062     % Keywords of class 4 : values of keys (in key=value)
3063     morekeywords=[4]{%
3064     },%
3065     % Keywords of class 5 : arguments specifications (after ":" in expl3
3066     % syntax)
3067     morekeywords=[5]{%
3068     },%
3069     % Keywords of class 6 : current package name (and possibly derived
3070     % packages)
3071     morekeywords=[6]{%
3072         numerica-plus },%
3073     % otherkeywords={},%
3074     alsoletter={_1},%
3075     % alsodigit={},%
3076     % alsoother={},%
3077     sensitive,%
3078 }[keywords,tex,comments]%
3079
3080 \lst@definlanguage[pascaltriangle]{TeX}{%
3081     % Control sequences names
3082     moretexcs={%
3083         pascal,%
3084     },%
3085     % Keywords of class 1 : keywords that contain other characters (since
3086     % of the same class as the ones specified as 'otherkeywords')
3087     morekeywords={%
3088     },%
3089     % Keywords of class 2 : environments names
3090     morekeywords=[2]{%
3091     },%
3092     % Keywords of class 3 : mandatory arguments (not environments) &
3093     % optional arguments which are keys (in key=value)

```

```

3094     morekeywords=[3]{%
3095     },%
3096     % Keywords of class 4 : values of keys (in key=value)
3097     morekeywords=[4]{%
3098     },%
3099     % Keywords of class 5 : arguments specifications (after ":" in expl3
3100     % syntax)
3101     morekeywords=[5]{%
3102     },%
3103     % Keywords of class 6 : current package name (and possibly derived
3104     % packages)
3105     morekeywords=[6]{%
3106     pascaltriangle },%
3107     % otherkeywords={},%
3108     % alsoletter={},%
3109     % alsodigit={},%
3110     % alsoother={},%
3111     sensitive,%
3112 }[keywords,tex,comments]%
3113
3114 \lst@definlanguage[pgf-interference]{TeX}{%
3115     % Control sequences names
3116     moretexcs={%
3117     pgfinterferencepattern,%
3118     },%
3119     % Keywords of class 1 : keywords that contain other characters
3120     % (since of the same class as the ones specified as 'otherkeywords')
3121     morekeywords={%
3122     },%
3123     % Keywords of class 2 : environments names
3124     morekeywords=[2]{%
3125     },%
3126     % Keywords of class 3 : mandatory arguments (not environments) &
3127     % optional arguments which are keys (in key=value)
3128     morekeywords=[3]{%
3129     slits,wavelength,slit-distance,intensity,ruler,scale,%
3130     },%
3131     % Keywords of class 4 : values of keys (in key=value)
3132     morekeywords=[4]{%
3133     },%
3134     % Keywords of class 5 : arguments specifications (after ":" in expl3
3135     % syntax)
3136     morekeywords=[5]{%
3137     },%
3138     % Keywords of class 6 : current package name (and possibly derived
3139     % packages)
3140     morekeywords=[6]{%
3141     pgf-interference%
3142     },%
3143     % otherkeywords={},%
3144     alsoletter={-},%
3145     % alsodigit={},%

```

```

3146     % alsoother={},%
3147     sensitive,%
3148 }[keywords, tex, comments]%
3149
3150 \lst@definlanguage[clistmap]{TeX}{%
3151     % Control sequences names
3152     moretexcs={%
3153         ExplSyntaxOn, ExplSyntaxOff, clistmap,%
3154     },%
3155     % Keywords of class 1 : keywords that contain other characters (since
3156     % of the same class as the ones specified as 'otherkeywords')
3157     morekeywords={%
3158     },%
3159     % Keywords of class 2 : environments names
3160     morekeywords=[2]{%
3161     },%
3162     % Keywords of class 3 : mandatory arguments (not environments) &
3163     % optional arguments which are keys (in key=value)
3164     morekeywords=[3]{%
3165         first_math, serial_rest_math_and,%
3166     },%
3167     % Keywords of class 4 : values of keys (in key=value)
3168     morekeywords=[4]{%
3169     },%
3170     % Keywords of class 5 : arguments specifications (after ":" in expl3
3171     % syntax)
3172     morekeywords=[5]{%
3173         nnn, N,%
3174     },%
3175     % Keywords of class 6 : current package name (and possibly derived
3176     % packages)
3177     morekeywords=[6]{%
3178         clistmap },%
3179     % otherkeywords={},%
3180     alsoletter={_},%
3181     % alsodigit={},%
3182     % alsoother={},%
3183     sensitive,%
3184 }[keywords, tex, comments]%
3185
3186 \lst@definlanguage[hexboard]{TeX}{%
3187     % Control sequences names
3188     moretexcs={%
3189         hexmove,%
3190     },%
3191     % Keywords of class 1 : keywords that contain other characters (since
3192     % of the same class as the ones specified as 'otherkeywords')
3193     morekeywords={%
3194     },%
3195     % Keywords of class 2 : environments names
3196     morekeywords=[2]{%
3197         hexgameLabels,%

```

```
3198     },%
3199     % Keywords of class 3 : mandatory arguments (not environments) &
3200     % optional arguments which are keys (in key=value)
3201     morekeywords={3}{%
3202     },%
3203     % Keywords of class 4 : values of keys (in key=value)
3204     morekeywords={4}{%
3205     },%
3206     % Keywords of class 5 : arguments specifications (after ":" in expl3
3207     % syntax)
3208     morekeywords={5}{%
3209     },%
3210     % Keywords of class 6 : current package name (and possibly derived
3211     % packages)
3212     morekeywords={6}{%
3213     hexboard },%
3214     % otherkeywords={},
3215     % alsoletter={},
3216     % alsodigit={},%
3217     % alsoother={},%
3218     sensitive,%
3219 }[keywords,tex,comments]%
3220
3221 \lst@definlanguage[robotarm]{TeX}{%
3222     % Control sequences names
3223     moretexcs={%
3224     robotArm,%
3225     },%
3226     % Keywords of class 1 : keywords that contain other characters (since
3227     % of the same class as the ones specified as 'otherkeywords')
3228     morekeywords={%
3229     },%
3230     % Keywords of class 2 : environments names
3231     morekeywords={2}{%
3232     tikzpicture },%
3233     % Keywords of class 3 : mandatory arguments (not environments) &
3234     % optional arguments which are keys (in key=value)
3235     morekeywords={3}{%
3236     config,q1,q2,q3,%
3237     },%
3238     % Keywords of class 4 : values of keys (in key=value)
3239     morekeywords={4}{%
3240     },%
3241     % Keywords of class 5 : arguments specifications (after ":" in expl3
3242     % syntax)
3243     morekeywords={5}{%
3244     },%
3245     % Keywords of class 6 : current package name (and possibly derived
3246     % packages)
3247     morekeywords={6}{%
3248     robotarm },%
3249     % otherkeywords={},%
```

```

3250     alsoletter={123},%
3251     % alsodigit={},%
3252     % alsoother={},%
3253     sensitive,%
3254 }[keywords, tex, comments]%
3255
3256 \lst@definlanguage[amsmath]{TeX}{%
3257     % Control sequences names
3258     moretexcs={%
3259         mathbb, mathfrak, angle, Box, dasharrow, dashleftarrow, dashrightarrow, %
3260         Diamond, hbar, Join, leadsto, lhd, llcorner, lozenge, lrcorner, mho, %
3261         rhd, rightleftharpoons, rightsquigarrow, sqsubset, sqsupset, square, %
3262         trianglelefteq, trianglerighteq, ulcorner, unlhd, unrhd, urcorner, %
3263         vartriangleleft, vartriangleright, widehat{arg}, widetilde{arg}, yen, %
3264         checkmark, circledR, maltese, %
3265     },%
3266     % Keywords of class 1 : keywords that contain other characters (since
3267     % of the same class as the ones specified as 'otherkeywords')
3268     morekeywords={%
3269     },%
3270     % Keywords of class 2 : environments names
3271     morekeywords=[2]{%
3272     },%
3273     % Keywords of class 3 : mandatory arguments (not environments) &
3274     % optional arguments which are keys (in key=value)
3275     morekeywords=[3]{%
3276     },%
3277     % Keywords of class 4 : values of keys (in key=value)
3278     morekeywords=[4]{%
3279     },%
3280     % Keywords of class 5 : arguments specifications (after ":" in expl3
3281     % syntax)
3282     morekeywords=[5]{%
3283     },%
3284     % Keywords of class 6 : current package name (and possibly derived
3285     % packages)
3286     morekeywords=[6]{%
3287         amsmath },%
3288     % otherkeywords={},
3289     % alsoletter={},
3290     % alsodigit={},%
3291     % alsoother={},%
3292     sensitive,%
3293 }[keywords, tex, comments]%
3294
3295 \lst@definlanguage[biolinum]{TeX}{%
3296     % Control sequences names
3297     moretexcs={%
3298         biolinum, biolinum0sF, biolinumLF, biolinumkey, sfigures, textsu, %
3299         textsuperior, oldstylenums, liningnums, oldstylenumsf, liningnumsf, %
3300         tabularnums, proportionalnums, tabularnumsf, proportionalnumsf, %
3301         DeclareTextGlyphY, biolinumGlyph, biolinumKeyGlyph, LKey, LKeyPad, %

```



```

3302     LKeyF, LKeyAltF, LKeyStrgAltF, LKeyCtrlAltF, LKeyStrgX, LKeyCtrlX, %
3303     LKeyShiftX, LKeyAltX, LKeyAltGrX, LKeyShiftStrgX, LKeyShiftCtrlX, %
3304     LKeyShiftAltX, LKeyShiftAltGrX, LKeyStrgAltX, LKeyCtrlAltX, %
3305     LKeyStrgAltEnt, LKeyCtrlAltEnt, LKeyReset, LKeyTux, LKeyWin, LKeyMenu, %
3306     LKeyStrg, LKeyCtrl, LKeyAlt, LKeyAltGr, LKeyShift, LKeyTab, LKeyEnter, %
3307     LKeyCapsLock, LKeyPos, LKeyEntf, LKeyEinf, LKeyLeer, LKeyEsc, LKeyEnde, %
3308     LKeyCommand, LKeyOptionKey, LKeyBack, LKeyUp, LKeyDown, LKeyLeft, %
3309     LKeyRight, LKeyPgUp, LKeyPgDown, LKeyAt, LKeyFn, LKeyHome, LKeyDel, %
3310     LKeySpace, LKeyScreenUp, LKeyScreenDown, LKeyIns, LKeyEnd, LKeyGNU, %
3311     LKeyPageUp, LKeyPageDown, LMouseEmpty, LMouseN, LMouseL, LMouseM, %
3312     LMouseR, LMouseLR, LMouseIIEmpty, LMouseIIN, LMouseIIL, LMouseIIR, %
3313     LMouseIILR, %
3314     }, %
3315     % Keywords of class 1 : keywords that contain other characters (since
3316     % of the same class as the ones specified as 'otherkeywords')
3317     morekeywords={%
3318     }, %
3319     % Keywords of class 2 : environments names
3320     morekeywords=[2]{%
3321     }, %
3322     % Keywords of class 3 : mandatory arguments (not environments) &
3323     % optional arguments which are keys (in key=value)
3324     morekeywords=[3]{%
3325         sfdefault, type1, nofontspec, lining, nf, lf, oldstyle, osf, sflining, %
3326         sflf, sfoldstyle, sfosf, osfss, tabular, t, p, sftabular, sft, %
3327         sfproportional, sfp, scaled, scale, defaultfeatures, space, uni0020, %
3328         exclam, uni0021, quotedbl, uni0022, numbersign, uni0023, dollar, %
3329         uni0024, percent, uni0025, ampersand, uni0026, quotesingle, uni0027, %
3330         parenleft, uni0028, parenright, uni0029, asterisk, uni002A, plus, %
3331         uni002B, comma, uni002C, hyphen, uni002D, period, uni002E, slash, %
3332         uni002F, zero, uni0030, one, uni0031, two, uni0032, three, uni0033, %
3333         four, uni0034, five, uni0035, six, uni0036, seven, uni0037, eight, %
3334         uni0038, nine, uni0039, colon, uni003A, semicolon, uni003B, less, %
3335         uni003C, equal, uni003D, greater, uni003E, question, uni003F, at, %
3336         bracketleft, uni005B, backslash, uni005C, bracketright, uni005D, %
3337         asciicircum, uni005E, underscore, uni005F, grave, uni0060, uni007A, %
3338         braceleft, uni007B, bar, uni007C, braceright, uni007D, asciitilde, %
3339         uni007E, exclamdown, uni00A1, cent, uni00A2, sterling, uni00A3, %
3340         currency, uni00A4, yen, uni00A5, brokenbar, uni00A6, section, uni00A7, %
3341         dieresis, uni00A8, guillemotleft, uni00AB, uni00AD, degree, uni00B0, %
3342         plusminus, uni00B1, acute, uni00B4, uni00B5, periodcentered, uni00B7, %
3343         cedilla, uni00B8, guillemotright, uni00BB, Agrave, uni00C0, Aacute, %
3344         uni00C1, Acircumflex, uni00C2, Atilde, uni00C3, Adieresis, uni00C4, %
3345         Aring, uni00C5, Ccedilla, uni00C7, Egrave, uni00C8, Eacute, uni00C9, %
3346         Ecircumflex, uni00CA, Edieresis, uni00CB, Igrave, uni00CC, Iacute, %
3347         uni00CD, Icircumflex, uni00CE, Idieresis, uni00CF, Eth, uni00D0, Ntilde, %
3348         uni00D1, Ograve, uni00D2, Oacute, uni00D3, Ocircumflex, uni00D4, Otilde, %
3349         uni00D5, Odieresis, uni00D6, multiply, uni00D7, Oslash, uni00D8, Ugrave, %
3350         uni00D9, Uacute, uni00DA, Ucircumflex, uni00DB, Udieresis, uni00DC, %
3351         Yacute, uni00DD, Thorn, uni00DE, germandbls, uni00DF, agrave, uni00E0, %
3352         aacute, uni00E1, acircumflex, uni00E2, atilde, uni00E3, adieresis, %
3353         uni00E4, aring, uni00E5, ae, uni00E6, ccedilla, uni00E7, egrave, %

```

3354 uni00E8, eacute, uni00E9, ecircumflex, uni00EA, edieresis, uni00EB, %  
 3355 igrave, uni00EC, iacute, uni00ED, icircumflex, uni00EE, idieresis, %  
 3356 uni00EF, eth, uni00F0, ntilde, uni00F1, ograve, uni00F2, oacute, %  
 3357 uni00F3, ocircumflex, uni00F4, otilde, uni00F5, odieresis, uni00F6, %  
 3358 divide, uni00F7, oslash, uni00F8, ugrave, uni00F9, uacute, uni00FA, %  
 3359 ucircumflex, uni00FB, udieresis, uni00FC, yacute, uni00FD, thorn, %  
 3360 uni00FE, ydieresis, uni00FF, Amacron, uni0100, amacron, uni0101, Abreve, %  
 3361 uni0102, abreve, uni0103, Aogonek, uni0104, aogonek, uni0105, Cacute, %  
 3362 uni0106, cacute, uni0107, Ccircumflex, uni0108, ccircumflex, uni0109, %  
 3363 Cdotaccent, uni010A, cdotaccent, uni010B, Ccaron, uni010C, ccaron, %  
 3364 uni010D, Dcaron, uni010E, dcaron, uni010F, Dcroat, uni0110, dcroat, %  
 3365 uni0111, Emacron, uni0112, emacron, uni0113, Ebreve, uni0114, ebreve, %  
 3366 uni0115, Edotaccent, uni0116, edotaccent, uni0117, Eogonek, uni0118, %  
 3367 eogonek, uni0119, Ecaron, uni011A, ecaron, uni011B, Gcircumflex, %  
 3368 uni011C, gcircumflex, uni011D, Gbreve, uni011E, gbreve, uni011F, %  
 3369 Gdotaccent, uni0120, gdotaccent, uni0121, Gcommaaccent, uni0122, %  
 3370 gcommaaccent, uni0123, Hcircumflex, uni0124, hcircumflex, uni0125, Hbar, %  
 3371 uni0126, hbar, uni0127, Itilde, uni0128, itilde, uni0129, Imacron, %  
 3372 uni012A, imacron, uni012B, Ibreve, uni012C, ibreve, uni012D, Iogonek, %  
 3373 uni012E, iogonek, uni012F, Idotaccent, uni0130, dotlessi, uni0131, IJ, %  
 3374 uni0132, ij, uni0133, Jcircumflex, uni0134, jcircumflex, uni0135, %  
 3375 Kcommaaccent, uni0136, kcommaaccent, uni0137, kgreenlandic, uni0138, %  
 3376 Lacute, uni0139, lacute, uni013A, Lcommaaccent, uni013B, lcommaaccent, %  
 3377 uni013C, Lcaron, uni013D, lcaron, uni013E, Ldot, uni013F, ldot, uni0140, %  
 3378 Lslash, uni0141, lslash, uni0142, Nacute, uni0143, nacute, uni0144, %  
 3379 Ncommaaccent, uni0145, ncommaaccent, uni0146, Ncaron, uni0147, ncaron, %  
 3380 uni0148, napostrophe, uni0149, Omacron, uni014C, omacron, uni014D, %  
 3381 Obreve, uni014E, obreve, uni014F, Ohungarumlaut, uni0150, hungarumlaut, %  
 3382 uni0151, Racute, uni0154, racute, uni0155, Rcommaaccent, uni0156, %  
 3383 rcommaaccent, uni0157, Rcaron, uni0158, rcaron, uni0159, Sacute, %  
 3384 uni015A, sacute, uni015B, Scircumflex, uni015C, scircumflex, uni015D, %  
 3385 Scedilla, uni015E, scedilla, uni015F, Scaron, uni0160, scaron, uni0161, %  
 3386 Tcedilla, uni0162, tcedilla, uni0163, Tcaron, uni0164, tcaron, uni0165, %  
 3387 Tbar, uni0166, tbar, uni0167, Utilde, uni0168, utilde, uni0169, Umacron, %  
 3388 uni016A, umacron, uni016B, Ubreve, uni016C, ubreve, uni016D, Uring, %  
 3389 uni016E, uring, uni016F, Uhungarumlaut, uni0170, hungarumlaut, uni0171, %  
 3390 Uogonek, uni0172, uogonek, uni0173, Wcircumflex, uni0174, wcircumflex, %  
 3391 uni0175, Ycircumflex, uni0176, ycircumflex, uni0177, Ydieresis, uni0178, %  
 3392 Zacute, uni0179, zacute, uni017A, Zdotaccent, uni017B, zdotaccent, %  
 3393 uni017C, Zcaron, uni017D, zcaron, uni017E, h.superior, uni02B0, %  
 3394 hhook.superior, uni02B1, j.superior, uni02B2, r.superior, uni02B3, %  
 3395 rturned.superior, uni02B4, rhoturned.superior, uni02B5, %  
 3396 Rsmallinverted.superior, uni02B6, w.superior, uni02B7, y.superior, %  
 3397 uni02B8, uni02B9, uni02BA, uni02BB, afii57929, uni02BC, afii64937, %  
 3398 uni02BD, uni02BE, uni02BF, uni02C0, uni02C1, uni02C2, uni02C3, uni02C4, %  
 3399 uni02C5, circumflex, uni02C6, caron, uni02C7, uni02C8, uni02C9, uni02CA, %  
 3400 uni02CB, uni02CC, uni02CD, uni02CE, uni02CF, uni02D0, uni02D1, uni02D2, %  
 3401 uni02D3, uni02D4, uni02D5, uni02D6, uni02D7, breve, uni02D8, dotaccent, %  
 3402 uni02D9, ring, uni02DA, ogonek, uni02DB, tilde, uni02DC, hungarumlaut, %  
 3403 uni02DD, uni02DE, uni02DF, gammalatin.superior, uni02E0, l.superior, %  
 3404 uni02E1, s.superior, uni02E2, x.superior, uni02E3, %  
 3405 glottalstopreversed.superior, uni02E4, uni02EC, uni02ED, uni02EE, %

3406 gravecomb, uni0300, acutecomb, uni0301, uni0302, tildecomb, uni0303, %  
3407 uni0304, uni0305, uni0306, uni0307, uni0308, hookabovecomb, uni0309, %  
3408 uni030A, uni030B, uni030C, uni030D, uni030E, uni030F, uni0310, uni0311, %  
3409 uni0312, uni0313, uni0314, uni0315, uni0316, uni0317, uni0318, uni0319, %  
3410 uni031A, uni031B, uni031C, uni031D, uni031E, uni031F, uni0320, uni0321, %  
3411 uni0322, dotbelowcomb, uni0323, uni0324, uni0325, uni0326, uni0327, %  
3412 uni0328, uni0329, uni032A, uni032B, uni032C, uni032D, uni032E, uni032F, %  
3413 uni0330, uni0331, uni0338, uni0342, uni0343, uni0351, uni0357, uni0358, %  
3414 uni0359, uni035A, uni035B, uni035C, uni035D, uni035E, uni035F, uni0360, %  
3415 uni0361, uni0362, uni0363, uni0374, uni0375, afii57799, uni05B0, %  
3416 afii57801, uni05B1, afii57800, uni05B2, afii57802, uni05B3, afii57793, %  
3417 uni05B4, afii57794, uni05B5, afii57795, uni05B6, afii57798, uni05B7, %  
3418 afii57797, uni05B8, afii57806, uni05B9, uni05BA, afii57796, uni05BB, %  
3419 afii57807, uni05BC, afii57839, uni05BD, afii57645, uni05BE, afii57841, %  
3420 uni05BF, afii57842, uni05C0, afii57804, uni05C1, afii57803, uni05C2, %  
3421 afii57658, uni05C3, uni05C6, afii57664, uni05D0, afii57665, uni05D1, %  
3422 afii57666, uni05D2, afii57667, uni05D3, afii57668, uni05D4, afii57669, %  
3423 uni05D5, afii57670, uni05D6, afii57671, uni05D7, afii57672, uni05D8, %  
3424 afii57673, uni05D9, afii57674, uni05DA, afii57675, uni05DB, afii57676, %  
3425 uni05DC, afii57677, uni05DD, afii57678, uni05DE, afii57679, uni05DF, %  
3426 afii57680, uni05E0, afii57681, uni05E1, afii57682, uni05E2, afii57683, %  
3427 uni05E3, afii57684, uni05E4, afii57685, uni05E5, afii57686, uni05E6, %  
3428 afii57687, uni05E7, afii57688, uni05E8, afii57689, uni05E9, afii57690, %  
3429 uni05EA, afii57716, uni05F0, afii57717, uni05F1, afii57718, uni05F2, %  
3430 arrowleft, uni2190, arrowup, uni2191, arrowright, uni2192, arrowdown, %  
3431 uni2193, arrowboth, uni2194, arrowupdn, uni2195, uni2196, uni2197, %  
3432 uni2198, uni2199, uni219A, uni219B, uni21A5, uni21A7, uni21BC, uni21BD, %  
3433 uni21C0, uni21C1, arrowdblleft, uni21D0, arrowdblup, uni21D1, %  
3434 arrowdblright, uni21D2, arrowdbldown, uni21D3, arrowdblboth, uni21D4, %  
3435 uni21D5, Nwarrow, uni21D6, Nearrow, uni21D7, Searrow, uni21D8, Swarrow, %  
3436 uni21D9, uni2318, uni2325, uni2326, uni2327, uni232B, uni237D, uni2380, %  
3437 uni2423, filledbox, uni25A0, H22073, uni25A1, triagup, uni25B2, uni25B3, %  
3438 uni25B6, uni25B7, triagdn, uni25BC, uni25BD, uni25C0, uni25C1, uni25C6, %  
3439 uni25C7, uni25C9, lozenge, uni25CA, circle, uni25CB, uni25CE, H18533, %  
3440 uni25CF, uni25D0, uni25D1, uni25D2, uni25D3, uni25D4, uni25D5, uni25D6, %  
3441 uni25D7, openbullet, uni25E6, uni2605, uni2619, uni261B, uni261E, %  
3442 uni2627, uni262F, uni2639, uni263A, uni263B, uni263C, uni263D, uni263E, %  
3443 uni263F, female, uni2640, uni2641, male, uni2642, uni2643, uni2644, %  
3444 uni2645, uni2646, uni2647, uni2648, uni2649, uni264A, uni264B, uni264C, %  
3445 uni264D, uni264E, uni264F, uni2650, uni2651, uni2652, uni2653, uni2660, %  
3446 uni2663, uni2665, uni2666, uni2669, musicalnote, uni266A, %  
3447 musicalnotedbl, uni266B, uni266C, uni2695, uni2698, uni26A2, uni26A3, %  
3448 uni26A4, uni26A5, uni26AD, uni2767, uni2776, uni2777, uni2778, uni2779, %  
3449 uni277A, uni277B, uni277C, uni277D, uni277E, uni277F, T\_u\_x, uniE000, %  
3450 uniE104, uniE128, uniE129, uniE12A, uniE130, uniE131, uniE132, uniE133, %  
3451 uniE134, uniE135, uniE138, uniE139, uniE13A, uniE13C, uniE13D, uniE168, %  
3452 B\_a\_c\_k, uniE16E, S\_t\_r\_g, uniE170, A\_l\_t, uniE171, A\_l\_t\_G\_r, uniE172, %  
3453 C\_t\_r\_l, uniE173, S\_h\_i\_f\_t, uniE174, T\_a\_b, uniE175, E\_n\_t\_e\_r, %  
3454 uniE176, C\_a\_p\_s\_l\_o\_c\_k, uniE177, F\_1, uniE178, F\_2, uniE179, F\_3, %  
3455 uniE17A, F\_4, uniE17B, F\_5, uniE17C, F\_6, uniE17D, F\_7, uniE17E, F\_8, %  
3456 uniE17F, F\_9, uniE180, F\_1\_0, uniE181, F\_1\_1, uniE182, F\_1\_2, uniE183, %  
3457 F\_1\_3, uniE184, F\_1\_4, uniE185, F\_1\_5, uniE186, F\_1\_6, uniE187, uniE188, %

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3458     H_o_m_e, uniE189, D_e_l, uniE18A, I_n_s, uniE18B, uniE18C, E_n_d, %
3459     uniE18E, G_N_U, uniE190, P_o_s_1, uniE191, E_n_t_f, uniE192, E_i_n_f, %
3460     uniE193, L_e_e_r, uniE194, E_s_c, uniE195, E_n_d_e, uniE196, uniE198, %
3461     uniE199, uniE19A, uniE19B, uniE1A0, uniE1A1, uniE1A2, uniE1A3, uniE1A4, %
3462     uniE1A5, uniE1A6, uniE1A7, uniE1A8, uniE1A9, uniE1AA, uniE1AB, uniE1AC, %
3463     uniE1AD, uniE1AE, uniE1B0, uniE1B1, grave.cap, uniE358, acute.cap, %
3464     uniE359, circumflex.cap, uniE35A, caron.cap, uniE35B, breve.cap, %
3465     uniE35C, hungarumlaut.cap, uniE35D, space_uni030F.cap, uniE35E, %
3466     breveinvertedcmb.cap, uniE35F, breve.cyr, uniE360, breve.cyr, %
3467     uniE361, dieresis.cap, uniE362, hookabovecomb.cap, uniE363, uniFFFD, %
3468     }, %
3469     % Keywords of class 4 : values of keys (in key=value)
3470     morekeywords=[4]{%
3471     }, %
3472     % Keywords of class 5 : arguments specifications (after ":" in expl3
3473     % syntax)
3474     morekeywords=[5]{%
3475     }, %
3476     % Keywords of class 6 : current package name (and possibly derived
3477     % packages)
3478     morekeywords=[6]{%
3479     biolinum }, %
3480     % otherkeywords={},
3481     % alsoletter={},
3482     % alsodigit={}, %
3483     % alsoother={}, %
3484     sensitive, %
3485 }[keywords, tex, comments]%
3486
3487 \lst@definlanguage[biblatex]{TeX}{%
3488     % Control sequences names
3489     moretexcs={%
3490         cite, Cite, parencite, Parencite, footcite, footcitetext, smartcite, %
3491         Smartcite, textcite, Textcite, supercite, cites, Cites, parencites, %
3492         Parencites, footcitesfootcitetexts, textcites, Textcites, supercites, %
3493         autocite, Autocite, autocite*, Autocite*, autocites, Autocites, %
3494         citeauthor, Citeauthor, citetitle, citetitle*, citeyear, citeurl, %
3495         parentext, brackettext, nocite, fullcite, footfullcite, volcite, %
3496         Volcite, pvolcite, Pvolcite, fvolcite, ftvolcite, tvolcite, Tvolcite, %
3497         avolcite, Avolcite, notecite, Notecite, pnotecite, Pnotecite, fnotecite, %
3498         citename, citelist, citefield, printbibliography, bibliography, %
3499         citedate, ExecuteBibliographyOptions, defbibnote, psq, psqq, %
3500         addbibresource, AtNextCite, DeclareNameAlias, %
3501     }, %
3502     % Keywords of class 1 : keywords that contain other characters (since
3503     % of the same class as the ones specified as 'otherkeywords')
3504     morekeywords={%
3505     }, %
3506     % Keywords of class 2 : environments names
3507     morekeywords=[2]{%
3508     }, %
3509     % Keywords of class 3 : mandatory arguments (not environments) &

```

```

3510 % optional arguments which are keys (in key=value)
3511 morekeywords=[3]{%
3512   abstract, addendum, afterword, annotation, annotator, author, %
3513   authortype, bookauthor, bookpagination, booksubtitle, booktitle, %
3514   booktitleaddon, chapter, commentator, date, doi, edition, editor, %
3515   editora, editorb, editorc, editortype, editoratype, editorbtype, %
3516   editorctype, eid, eprint, eprintclass, eprinttype, eventdate, %
3517   eventtitle, file, foreword, holder, howpublished, indextitle, %
3518   institution, introduction, isan, isbn, ismn, isrn, issn, issue, %
3519   issuesubtitle, issuetitle, iswc, journalsubtitle, journaltitle, label, %
3520   language, library, location, mainsubtitle, maintitle, maintitleaddon, %
3521   month, nameaddon, note, number, organization, origdate, origlanguage, %
3522   origlocation, origpublisher, origtitle, pages, pagetotal, pagination, %
3523   part, publisher, pubstate, reprinttitle, series, shortauthor, %
3524   shorteditor, shorthand, shorthandintro, shortjournal, shortseries, %
3525   shorttitle, subtitle, title, titleaddon, translator, type, url, urldate, %
3526   venue, version, volume, volumes, year, crossref, entryset, entrysubtype, %
3527   execute, gender, hyphenation, indexsorttitle, keywords, options, %
3528   presort, sortkey, sortname, sorttitle, sortyear, xref, annote, %
3529   archiveprefix, journal, key, pdf, primaryclass, school, address, %
3530   datamodel, %
3531   %
3532   backend, style, citestyle, bibstyle, sorting, maxnames, minnames, %
3533   maxitems, minitems, backref, abbreviate, firstinits, prenote, postnote, %
3534   useprefix, autopunct, giveninits, labelname, given-family, %
3535 }, %
3536 % Keywords of class 4 : values of keys (in key=value)
3537 morekeywords=[4]{%
3538   submitted, inpress, danish dutch, american, USenglish, english, british, %
3539   UKenglish, canadian, australian, newzealand, finnish, french, francais, %
3540   canadien, german, ngerman, austrian, naustrian, greek, italian, norsk, %
3541   nynorsk, brazil, portuges, spanish, swedish, %
3542   %
3543   biber, numeric, numeric-comp, numeric-verb, alphabetic, alphabetic-verb, %
3544   authoryear, authoryear-comp, authoryear-ibid, authoryear-icomp, %
3545   authortitle, authortitle-comp, authortitle-ibid, authortitle-icomp, %
3546   authortitle-terse, authortitle-tcomp, authortitle-ticomp, verbose, %
3547   verbose-ibid, verbose-note, verbose-inote, verbose-trad1, verbose-trad2, %
3548   %
3549   verbose-trad3, reading, draft, debug, and, inline, footnote, %
3550   superscript, plain, nyt, ynt, none, false, true, %
3551 }, %
3552 % Keywords of class 5 : arguments specifications (after ":" in expl3
3553 % syntax)
3554 morekeywords=[5]{%
3555 }, %
3556 % Keywords of class 6 : current package name (and possibly derived
3557 % packages)
3558 morekeywords=[6]{%
3559   biblatex }, %
3560 % directives
3561 directives={%

```

```

3561     article, book, inbook, bookinbook, suppbok, booklet, collection, %
3562     conference, incollection, suppcollection, manual, misc, online, patent, %
3563     periodical, suppperiodical, proceedings, inproceedings, reference, %
3564     inference, report, thesis, unpublished, masterthesis, phdthesis, %
3565     string, comment, %
3566   }, %
3567   % otherkeywords={}, %
3568   alsoletter={-}, %
3569   % alsodigit={}, %
3570   delim=[directive]@, sensitive=false, %
3571 }[keywords, directives, tex, comments]%
3572
3573 \lst@definlanguage[lthooks]{TeX}{%
3574   % Control sequences names
3575   moretexcs={%
3576     AddToHook, BeforeBeginEnvironment, AtBeginEnvironment, AtEndEnvironment
3577     , %
3578     AfterEndEnvironment, %
3579   }, %
3580   % Keywords of class 1 : keywords that contain other characters (since
3581   % of the same class as the ones specified as 'otherkeywords')
3582   morekeywords={%
3583     }, %
3584   % Keywords of class 2 : environments names
3585   morekeywords=[2]{%
3586     }, %
3587   % Keywords of class 3 : mandatory arguments (not environments) &
3588   % optional arguments which are keys (in key=value)
3589   morekeywords=[3]{%
3590     % begin, end,
3591     before, after, begindocument, begindocument/before, %
3592     begindocument/end, enddocument, enddocument/afterlastpage, %
3593     enddocument/afteraux, enddocument/info, enddocument/end, env, %
3594   }, %
3595   % Keywords of class 4 : values of keys (in key=value)
3596   morekeywords=[4]{%
3597     }, %
3598   % Keywords of class 5 : arguments specifications (after ":" in expl3
3599   % syntax)
3600   morekeywords=[5]{%
3601     }, %
3602   % Keywords of class 6 : current package name (and possibly derived
3603   % packages)
3604   morekeywords=[6]{%
3605     lthooks }, %
3606   % otherkeywords={}, %
3607   alsoletter={/}, %
3608   % alsodigit={}, %
3609   % alsoother={}, %
3610   sensitive, %
3611 }[keywords, tex, comments]%

```

```
3612 \lst@definlanguage[l3keys2e]{TeX}{%
3613   % Control sequences names
3614   moretexcs={%
3615     ProcessKeysOptions,ProcessKeysPackageOptions,%
3616   },%
3617   % Keywords of class 1 : keywords that contain other characters (since
3618   % of the same class as the ones specified as 'otherkeywords')
3619   morekeywords={%
3620   },%
3621   % Keywords of class 2 : environments names
3622   morekeywords=[2]{%
3623   },%
3624   % Keywords of class 3 : mandatory arguments (not environments) &
3625   % optional arguments which are keys (in key=value)
3626   morekeywords=[3]{%
3627   },%
3628   % Keywords of class 4 : values of keys (in key=value)
3629   morekeywords=[4]{%
3630   },%
3631   % Keywords of class 5 : arguments specifications (after ":" in expl3
3632   % syntax)
3633   morekeywords=[5]{%
3634   },%
3635   % Keywords of class 6 : current package name (and possibly derived
3636   % packages)
3637   morekeywords=[6]{%
3638     l3keys2e },%
3639   % otherkeywords={},%
3640   alsoletter={23},%
3641   % alsodigit={},%
3642   % alsoother={},%
3643   sensitive,%
3644 }[keywords,tex,comments]%
3645
3646 \lst@definlanguage[varioref]{TeX}{%
3647   % Control sequences names
3648   moretexcs={%
3649     vref,vpageref,%
3650   },%
3651   % Keywords of class 1 : keywords that contain other characters (since
3652   % of the same class as the ones specified as 'otherkeywords')
3653   morekeywords={%
3654   },%
3655   % Keywords of class 2 : environments names
3656   morekeywords=[2]{%
3657   },%
3658   % Keywords of class 3 : mandatory arguments (not environments) &
3659   % optional arguments which are keys (in key=value)
3660   morekeywords=[3]{%
3661   },%
3662   % Keywords of class 4 : values of keys (in key=value)
3663   morekeywords=[4]{%
```

```

3664     },%
3665     % Keywords of class 5 : arguments specifications (after ":" in expl3
3666     % syntax)
3667     morekeywords=[5]{%
3668     },%
3669     % Keywords of class 6 : current package name (and possibly derived
3670     % packages)
3671     morekeywords=[6]{%
3672     \variorref },%
3673     % otherkeywords={},
3674     % alsoletter={},
3675     % alsodigit={},%
3676     % alsoother={},%
3677     sensitive,%
3678 }[keywords, tex, comments]%
3679
3680 \lst@definlanguage[hologo]{TeX}{%
3681     % Control sequences names
3682     moretexcs={%
3683     hologo },%
3684     % Keywords of class 1 : keywords that contain other characters (since
3685     % of the same class as the ones specified as 'otherkeywords')
3686     morekeywords={%
3687     },%
3688     % Keywords of class 2 : environments names
3689     morekeywords=[2]{%
3690     },%
3691     % Keywords of class 3 : mandatory arguments (not environments) &
3692     % optional arguments which are keys (in key=value)
3693     morekeywords=[3]{%
3694     },%
3695     % Keywords of class 4 : values of keys (in key=va ,lue)
3696     morekeywords=[4]{%
3697     },%
3698     % Keywords of class 5 : arguments specifications (after ":" in expl3
3699     % syntax)
3700     morekeywords=[5]{%
3701     },%
3702     % Keywords of class 6 : current package name (and possibly derived
3703     % packages)
3704     morekeywords=[6]{%
3705     hologo%
3706     },%
3707     % otherkeywords={},
3708     % alsoletter={},
3709     % alsodigit={},%
3710     % alsoother={},%
3711     sensitive,%
3712 }[keywords, tex, comments]%
3713
3714 \lst@definlanguage[acro]{TeX}{%
3715     % Control sequences names

```



```

3716 moretexcs={%
3717   Ac, Aca, Acap, Acf, Acfp, Acl, Aclp, Acp, AcroAcronymsMap, AcroAddRow, %
3718   AcroMapBreak, AcroNeedPackage, AcroPropertiesMap, AcroPropertiesSet, %
3719   AcroRerun, AcroStyle, AcroTemplateName, AcroTemplateType, AcronymID, %
3720   AcronymTable, Acs, Acsp, BeginAccSupp, Dacs, DeclareAcroArticle, %
3721   DeclareAcroEnding, DeclareAcroPreset, DeclareAcroProperty, %
3722   DeclareAcroPropertyAlias, DeclareAcroTranslation, DeclareAcronym, Iac, %
3723   Iaca, Iacf, Iacl, Iacs, MakeAcroPropertyAlias, NewAcroCommand, %
3724   NewAcroPreset, NewAcroTemplate, RenewAcroCommand, RenewAcroPreset, %
3725   RenewAcroTemplate, SetupAcroTemplate, SetupNextAcroTemplate, %
3726   UseAcroTemplate, abbrdot, ac, aca, acap, acbarrier, acdot, acf, acfg, %
3727   acflike, acfootnote, acfp, acg, aciftrailing, acl, aclg, acpl, acp, %
3728   acreset, acresetall, acrocite, acrodefinite, acrodonotuse, acrodotfill, %
3729   acroendfootnote, acroformat, acrofull, acrogroupcite, acroheading, %
3730   acroifT, acroifTF, acroifallTF, acroifanyT, acroifanyTF, %
3731   acroifbooleanTF, acroifchapterF add, acroifchapterTF, acroiffirstT, %
3732   acroiffirstTF addchap, acroifpagesTF, acroifsingleTF, acroifstarredTF, %
3733   acroiftagTF, acroifusedTF, acroindefinite, acrolistname, acroneedpages, %
3734   acronopagerange, acronymsmap, acronymsmapF, acronymsmapTF, acropagefill,
%
3735   acropages, acroplural, acropossessive, acropreamble, acroshow, %
3736   acrotranslate, acroupper, acrowrite, acs, acsetup, acsp, acspace, %
3737   acswitchoff, acswitchon, acuse, dacs, declareAcronym, iac, iaca, iacf, %
3738   iacl, iacs, iacsg, printacronyms, %
3739   %
3740   acro_locale, acro_if_foreign, acro_if_locale, __acro_foreign_language, %
3741   acro_property_get, acro_property_if_set, acro_property_get, %
3742   }, %
3743   % Keywords of class 1 : keywords that contain other characters (since
3744   % of the same class as the ones specified as 'otherkeywords')
3745   morekeywords={%
3746   }, %
3747   % Keywords of class 2 : environments names
3748   morekeywords=[2]{%
3749   }, %
3750   % Keywords of class 3 : mandatory arguments (not environments) &
3751   % optional arguments which are keys (in key=value)
3752   morekeywords=[3]{%
3753   activate, addsec, addsec*, all, alt, alt, alt-acc, alt-format, %
3754   alt-indefinite, alt-plural, alt-plural-form, barriers, before-citation, %
3755   caption, %
3756   case-insensitive, %case-sensitive, %chapter, chapter*, cite, clear, cmd, %
3757   deactivate, define, description, disable, display, exclude, extra, %
3758   extra-acc, extra-foreign, extra-format, extra-long, fill, first, %
3759   first-long, first-long-format, first-style, first-style , floats, %
3760   footnote, foreign, foreign, foreign-acc, foreign-babel, foreign-format , %
3761   foreign-locale, foreign-plural, foreign-plural-form, format, format, %
3762   group, heading, id, include, index, index, index-cmd, index-sort, %
3763   language, link-only-first, list, list, list-acc, list-format, %
3764   list/display, lists, load-style, local, locale, lof, long, long, %
3765   long-acc, long-format, long-indefinite, long-plural, long-plural-ending,
%

```

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3766     long-plural-form, long-post, long-short, longtable, longtabu, lppl, %
3767     ltxtable, make-links, maketitle, method, name, no-index, none, options, %
3768     pages, pdf, pdf, pdfcomment, pdfcomment/cmd, pdfcomment/use, pdfstring, %
3769     post, pre, preamble, preset, replace, reset, section, section*, short, %
3770     short, short, short-acc, short-format, short-indefinite, short-long, %
3771     short-plural, short-plural-ending, short-plural-form , show, single, %
3772     single, single, single-acc threshold, single-format
3773     title, single-style, %
3774     single-style, sort, sort, subsequent-style, subsequent-style, %
3775     supertabular, tabular, tabularx, tag, upgrade, use, use-id-as-short, %
3776     uselist, version, %
3777   }, %
3778   % Keywords of class 4 : values of keys (in key=value)
3779   morekeywords=[4]{%
3780   }, %
3781   % Keywords of class 5 : arguments specifications (after ":" in expl3
3782   % syntax)
3783   morekeywords=[5]{%
3784   }, %
3785   % Keywords of class 6 : current package name (and possibly derived
3786   % packages)
3787   morekeywords=[6]{%
3788     acro%
3789   }, %
3790   % otherkeywords={}, %
3791   alsoletter={-}, %
3792   % alsodigit={}, %
3793   % alsoother={}, %
3794   sensitive, %
3795 }[keywords, tex, comments]%
3796
3797 \lst@definlanguage[csquotes]{TeX}{%
3798   % Control sequences names
3799   moretexcs={%
3800     enquote, %
3801   }, %
3802   % Keywords of class 1 : keywords that contain other characters (since
3803   % of the same class as the ones specified as 'otherkeywords')
3804   morekeywords={%
3805   }, %
3806   % Keywords of class 2 : environments names
3807   morekeywords=[2]{%
3808     displayquote, %
3809   }, %
3810   % Keywords of class 3 : mandatory arguments (not environments) &
3811   % optional arguments which are keys (in key=value)
3812   morekeywords=[3]{%
3813   }, %
3814   % Keywords of class 4 : values of keys (in key=value)
3815   morekeywords=[4]{%
3816   }, %
3817   % Keywords of class 5 : arguments specifications (after ":" in expl3

```

```

3818     % syntax)
3819     morekeywords=[5]{%
3820     },%
3821     % Keywords of class 6 : current package name (and possibly derived
3822     % packages)
3823     morekeywords=[6]{%
3824     csquotes%
3825     },%
3826     % otherkeywords={},
3827     % alsoletter={},
3828     % alsodigit={},%
3829     % alsoother={},%
3830     sensitive,%
3831 }[keywords, tex, comments]%
3832
3833 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
3834 % tcolorbox
3835 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
3836 \lst@definlanguage[tcolorbox]{TeX}%
3837 {%
3838     % Control sequences names
3839     moretexcs={%
3840     tcbuselibrary, newtcbtheorem, tcbset%
3841     },%
3842     % Keywords of class 1 : keywords that contain other characters (since
3843     % of the same class as the ones specified as 'otherkeywords')
3844     morekeywords={%
3845     %
3846     },%
3847     % Keywords of class 2 : environments names
3848     morekeywords=[2]{%
3849     absquote, boxarraystore, dispExample, dispExample*, dispListing, %
3850     dispListing*, docCommand, docCommand*, docCommands, docEnvironment, %
3851     docEnvironment*, docEnvironments, docKey, docKey*, docKeys, %
3852     docPathOperation, docPathOperation*, docPathOperations, extcolorbox, %
3853     extikzpicture, fooauxenv, foocolorbox, foocolorbox*, posterboxenv, %
3854     tcbclipframe, tcbclipinterior, tcbcliptitle, tcbexternal, %
3855     tcbinvclipframe, tcbitemize, tcblisting, tcboutputlisting, %
3856     tcbboxeditemize, tcbboxedraster, tcbposter, tcbraaster, tcbverbatimwrite, %
3857     tcbwritetemp, tcolorbox, %
3858     },%
3859     % Keywords of class 3 : mandatory arguments (not environments) &
3860     % optional arguments which are keys (in key=value)
3861     morekeywords=[3]{%
3862     Crefname, IfBooleanF, IfBooleanT, IfBooleanTF, IfNoValueF, IfNoValueT, %
3863     IfNoValueTF, IfValueF, IfValueT, IfValueTF, PassOptionsToClass, %
3864     PassOptionsToPackage, above*, above, actual, adapt, add, adjust, %
3865     adjusted, after, alert, alerted, algorithm, align*, align, all, ams, %
3866     and, angular, annotate, app, arara, arc, array, as, at, attach, auto, %
3867     autoparskip, balanced, base, basedim, baseline, beamer, bean, before, %
3868     beforeafter, % begin,
3869     below, between, biber, bibtex, bicolor, blank, %

```

3870 blanker, blankest, blend, body, bold, bookmark\*, bookmark, borderline, %  
 3871 both, bottom\*, bottom, bottomrule, bottomsep, bottomtitle, bounding, %  
 3872 box, boxed, boxes, boxrule, boxsep, break\*, break, breakable, broken, %  
 3873 by, caption, capture, center, check, circular, clear, clip, code, %  
 3874 colback, colbacklower, colbacktitle, colframe, collower, colon, color, %  
 3875 colorize, colors, colspacing, coltext, coltitle, column\*, column, %  
 3876 columns, colupper, command, comment, compilable, compiler, compress, %  
 3877 content, corner, corners, counter\*, counter, counters, coverage, %  
 3878 crefname, current, curved, dash, default, definition, delimiters, %  
 3879 description, detach, directory, do, doc, docexample, documentation, %  
 3880 downwards, draft, draftmode, draw, drop, dvips, east, empty, % end,  
 3881 %  
 3882 enforce, engine, english, enhanced, enlarge, enlargement, enlargepage, %  
 3883 entry, environment, environments, equal, equation\*, equation, error, %  
 3884 even, every, example!, example, extend, extension, external, %  
 3885 externalize, extras, extrude, fade, fading, file, fill, filled, finally, %  
 3886 finish, first, fit, fitting, fixed, flexible, flip, float\*, float, %  
 3887 floatplacement, flush, flushleft, flushright, font, fontlower, fontsize, %  
 3888 fonttitle, fontupper, for, force, format, formatter, frame, freelance, %  
 3889 freelancefirst, freelancelast, freelancemiddle, freestyle, freeze, from, %  
 3890 full, fuzzy, gap, gather\*, gather, geometry, german, goal, graphical, %  
 3891 graphics, group, grow, halign, halo, hanging, hbox, head, height, %  
 3892 hidden, hide, higher, highlight, hooks, horizontal, hyperlink, hyperref, %  
 3893 hypertarget, hyperurl\*, hyperurl, hyphenationfix, if, ignore, image, in, %  
 3894 indent, index\*, index, inherit, initially, input, inputencoding, inside, %  
 3895 interior, into, invisible, inwards, is, jigsaw, jpg, key, keypath, keys, %  
 3896 keywords, label, language, large, last, latex, layer, layers, left\*, %  
 3897 left, lefthand, leftlower, leftright, leftrule, lefttitle, leftupper, %  
 3898 length, lengths, level, lifted, limit, line\*, line, lines, list, %  
 3899 listing!, listing, listings, listingsutf, lower\*, lower, lowerbox, %  
 3900 lowered, lualatex, m, macros, magazine, makeindex, many, marginnote, %  
 3901 marker, math, maxfontdiff, maxfontdiffgap, maxstep, maxwidthdiff, %  
 3902 maxwidthdiffgap, method, midday, middle, minimum, minipage, minted, %  
 3903 most, move, multicolumn, multirow, n, name, nameref, natural, new, %  
 3904 nirvana, no, nobeforeafter, nobreak, node, nodes, nodisplayskip, %  
 3905 nofloat, none, noparskip, nophantom, north, northeast, northwest, not, %  
 3906 notitle, number, octagon, odd, of, offset, on, oneseide\*, oneseide, only, %  
 3907 opacity, opacityback, opacitybacklower, opacitybacktitle, opacityfill, %  
 3908 opacityframe, opacitylower, opacitytext, opacitytitle, opacityupper, %  
 3909 option, options, or, orientation, out, outer, outside, outwards, over, %  
 3910 overlay, overlays, oversize, overzoom, pad, page\*, page, pages, %  
 3911 pageshort, parameter, parbox, parenthesis, parfillskip, parskip, path, %  
 3912 paths, pdf, pdflatex, percent, phantom, phantomlabel, placeholder, %  
 3913 plain, plus, png, poster, pre, preamble, preclass, prefix, process, %  
 3914 pspdf, quote, raise, raised, raster, ratio, record, recording, remake, %  
 3915 remember, remove, reset, restore, right\*, right, righthand, rightlower, %  
 3916 rightrule, righttitle, rightupper, rotate, rounded, row, rows, %  
 3917 rowspacing, rowspan, run, runner, runs, safety, savedelimiter, %  
 3918 savelowerto, saveto, scale, scope, segmentation, semi, separated, %  
 3919 separator, sequence, settings, shade, shading, shadow, sharp, sharpish, %  
 3920 shield, show, showframe, shrink, side, sidebyside, sideways, sign, %  
 3921 size, skin, skins, skip, small, smart, sort, source, south, southeast, %



```

3974 \lst@definlanguage[classes]{TeX}{%
3975   % Control sequences
3976   moretexcs={%
3977     },%
3978   % Keywords of class 1 : keywords that contain other characters
3979   % (since of the same class as the ones specified as
3980   % 'otherkeywords')
3981   morekeywords={%
3982     %
3983   },%
3984   % Keywords of class 2 : environments names
3985   morekeywords=[2]{%
3986     },%
3987   % Keywords of class 3 : mandatory arguments (not environments)
3988   % & optional arguments which are keys (in key=value)
3989   morekeywords=[3]{%
3990     },%
3991   % Keywords of class 4 : values of keys (in key=value)
3992   morekeywords=[4]{%
3993     },%
3994   % Keywords of class 5 : arguments specifications (after ":"
3995   % in expl3 syntax)
3996   morekeywords=[5]{%
3997     },%
3998   % Keywords of class 6 : current package name (and possibly
3999   % derived packages)
4000   morekeywords=[6]{%
4001     a@poster, aalok, aastex631, abntex2, achemso, acmart, acmconf,
4002     active-conf, adfathesis, afparticle, afthesis, aguplus, aiaa-tc,
4003     akklecture, akkscrip, akktecdoc, akletter, myletter, ametsoc,
4004     amsart, amsbook, amsdtx, amsldoc, amsproc, aomart, apa, apa6,
4005     apa6e, apa7, arabart, arabbook, arabrep, arabrep1, articleingud,
4006     asaetr, ascelike, asmeconf, asmejour, assignment, aucklandthesis,
4007     bangorcsthesis, bangorexam, barticle, bbook, bletter,
4008     bankstatement, article, book, letter, ltnews, ltxdoc, ltxguide,
4009     minimal, proc, report, slides, source2edoc, basque-book, beamer,
4010     beamerswitch, beaulivre, beilstein, argetabelle, bewerbung,
4011     bgteubner, BHCexam, bitart, bitbook, bjfuthesis, BMSTU-IU8,
4012     bookcover, bookest, bookshelf, br-lex, brandeis-dissertation,
4013     brandeis-problemset, brandeis-thesis, buctcover, buctthesis,
4014     bxjsarticle, bxjsbook, bxjsreport, bxjsslide, cascadilla, cd,
4015     cd-cover, articoletteracdp, letteracdp, cesenaexam, cheatsheet,
4016     chemmacros-manual, chletter, cje, cnbwp, cnltx-doc, codedoc,
4017     colorart, colorbook, combine, cc, ConcProg, confproc, contracard,
4018     courseoutline, coursepaper, cquthesis, csbulletin, csbulobalka,
4019     csbulv1, ctexart, ctexbeamer, ctexbook, ctexrep, ctxdoc, curve,
4020     cv4tw, cweb, idcc, ijdc-v14, ijdc-v9, dinbrief, disser, gost732,
4021     dithesis, droit-fr, dtk, dvdcoll, easybook, ebsthesis, agecon,
4022     ajae, apecon, ecca, erae, itaxpf, jrurstud, njf, oegatb, pocoec,
4023     regstud, worlddev, ecv, einfart, ejpecp, elbioimp, elegantbook,
4024     elegantnote, elegantpaper, elpres, cas-dc, cas-sc, elsarticle,
4025     elteikthesis, emisa, emulateapj, erdc, eskd, eskdgraph, eskdtab,

```

4026 eskdtext, estcpmm, europasscv, europecv, exam, exam-n, examdesign,  
4027 exesheet, extarticle, extbook, extletter, extproc, extreport,  
4028 facsimile, factura, fancyhandout, fancyslides, fbithesis, fcavtex,  
4029 fdudoc, fduthesis-en, fduthesis, fei, ffslides, fithesis,  
4030 fithesis2, fithesis3, fithesis4, flacards, flashcards, frletter,  
4031 g-brief, g-brief2, gaceta, gammas, gatech-thesis, gmdocc,  
4032 gradstudentresume, grant-afosr, grant-aro, grant-darpa, grant-doe,  
4033 grant-nih, grant-nrl, grant-nsf, grant-onr, grant, graphpaper,  
4034 gridslides, gsemthesis, guitar tabs, gzt, gztarticle, h2020proposal,  
4035 hgbarticle, hgbreport, hgbthesis, harnon-cv, hausarbeit-jura,  
4036 hcart, hcletter, hcreport, hcslides, hecthesse, hepthesis, hitec,  
4037 hithesis, hitreport, hitszthesis, hletter, hpsdiss, fsbispit,  
4038 huawei, hustthesis, icsv, IEEEconf, IEEEtran, ijmart, ijsra,  
4039 image-gallery, IMTEKda, inkpaper, invoice-class, iodhbwm, isgram,  
4040 isov2, isodoc, iwhdp, jacow, jlreq, jmlr, jmlrbook, jnuexam, jpsj2,  
4041 jura, jurabook, juraovw, juraurtl, kdgcoursetext, kdgmasterthesis,  
4042 kdpcover, kerntest, kluwer, knittingpattern, scrartcl, scrarticle,  
4043 scrbook, scrdoc, scrletter, scrlett2, scrreport, scrreprt, komacv,  
4044 oblivoir-utf, oblivoir-xl, oblivoir, xoblivoir, ksp-thesis, l3doc,  
4045 labbook, leadsheet, leaflet, lebhart, lectures, letgut, lettre, limap,  
4046 limecv, lion-msc, lni, lps, lt3graph-packagedoc, ltxdockit,  
4047 ltxguidex, abstbook, beletter, flashcard, iagproc, cours, fiche,  
4048 matapli, matc3mem, mcmthesis, ltxmdf, medstarbeamer, meetingmins,  
4049 memoir, mensa-tex, mentis, metanorma, milog, minimart, minimbook,  
4050 mla, mluexercise, mnras, moderncv, modernposter, msu-thesis,  
4051 mucproc, mugstthesis, muling, musuos, muthesis, third-rep, mwart,  
4052 mwbk, mwrep, mycv, nature, ncc, nccproc, sibjnm, nddiss2e,  
4053 ndsu-thesis, newlfm, nih, nihbiosketch, njurepo, nlctdoc, nostarch,  
4054 nrc1, nrc2, artikel1, artikel2, artikel3, boek, boek3, brief,  
4055 rapport1, rapport3, nwejm, nwejmart, octavo, onrannual,  
4056 oup-authoring-template, journal, paper, papertex, pbsheet, pecha,  
4057 petiteannonce, philosophersimprint, pittetd, pkuthss, plari, play,  
4058 postcards, powerdot, FUpowerdot, ppr-prv, pracjourn, pressrelease,  
4059 proposal, reporting, dfgproposal, dfgreporting, euproposal,  
4060 eureporting, prosper, protocol, prtec, upmgr, wkmgr, pst-doc,  
4061 pptex, qcm, quantumarticle, qyxf-book, ReadableCV, recipe,  
4062 RecipeBook, recipecard, refart, refrep, resphilosophica, revtex4-2,  
4063 revtex4, revtex4-1, rtklage, ryersonSGSThesis, ryethesis, sageep,  
4064 saphesis, schuleab, schulein, schuleit, schulekl, schuleub,  
4065 schuleue, schullsg, schullzk, schulma-ab, schulma-gutachten,  
4066 schulma-klausur, schulma-komp, schulma-mdlprf, schulma-praes,  
4067 schwalbe, sciposter, screenplay, scrjrn1, sdapsclassic, sduthesis,  
4068 seminar, semproc, sesmanuel, seuthesix, sffms, cassette, etiketka,  
4069 shtthesis, caesar\_book, sides, simplecv, simplivre, skbarticle,  
4070 skbbeamer, skbbook, skblncsbeamer, skblncsppt, skbmoderncv, skdoc,  
4071 skeyval-testclass, skrapport, smfart, smfbook, SPhdThesis, spie,  
4072 sr-vor1, sslides, stage, standalone, usthesis, hwexam, mikoslides,  
4073 omdoc, smglom, subfiles, suftesi, sugconf, tabriz-thesis, talk,  
4074 tcldoc, tcldoc, powersem, thesis-ekf, thesis-gwu, thuthesis,  
4075 tikz-kalender, tikzposter, tlc-article, TOPletter, toptesi,  
4076 tudabeamer, tudaexercise, tudaleaflet, tudaletter, tudaposter,  
4077 tudapub, tudasciposter, tudscrartcl, tudscrbook, tudscrdoc,

```
4078     tudscrmanual, tudscrposter, tudscrreprt, tufte-book, tufte-handout,
4079     ltugboat, ltugproc, tui, turabian, turabian-researchpaper,
4080     turabian-thesis, my-thesis, ua-thesis, uafthesis,
4081     uantwerpenbamathesis, uantwerpencoursetext, uantwerpenexam,
4082     uantwerpenletter, uantwerpenphdthesis, uantwerpenreport,
4083     ucalgmthesis, ucbthesis, ucdavisthesis, ucsmonograph, ucthesis,
4084     udesoftec, uebungsblatt, uestcthesis, uhhassignment, uiucborder,
4085     uiucthesis, ulthese, legislation, umich-thesis, umthesis,
4086     unam-thesis, unifith, unitn-bimrep, univie-ling-expose,
4087     univie-ling-paper, univie-ling-thesis, univie-ling-wlg,
4088     unizgklasa, uothesis, UoWthesis, upmethodology-document, URbeamer,
4089     URletter, uspatent, ut-thesis, utexasthesis, uwmslide, uwthesis,
4090     verifica, webquiz, willowtreebook, withargs-packagedoc,
4091     wsemclassic, xduthesis, xebaposter, xmuthesis, xsim-manual,
4092     yaletter, yathesis, ycbook, ydoc, york-thesis,
4093     },%
4094     % otherkeywords={},%
4095     alsoletter={0123456789-},%
4096     % alsodigit={},%
4097     sensitive%
4098 }[keywords, tex, comments]%
```



# GUTenberg

Association GUTenberg  
15 rue des Halles – BP 74  
75001 Paris  
France

secretariat[at]gutenberg-asso[dot]fr

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le site T<sub>E</sub>Xnique de questions et réponses : <https://technique.fr/>

la foire aux questions : <https://faq.gutenberg-asso.fr/>

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- Les adhésions sont à renouveler en début d'année pour l'année civile.
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Les membres de GUTenberg peuvent adhérer à l'association internationale, le rug, et recevoir son bulletin *TUGboat* à un tarif préférentiel :

tarif normal : 65 € (au lieu de 85 \$)

tarif étudiant : 40 € (au lieu de 55 \$)

Type d'adhésion	Prix
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Membre individuel + adhésion rug	95 €
Membre individuel étudiant/demandeur d'emploi	15 €
Membre individuel étudiant + adhésion rug	55 €
Association d'étudiants	65 €
Organisme à but non lucratif	130 €
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