

# 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

30 octobre 2024

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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   {2024-10-30}
3   {0.9.12}
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 \file_if_exist:nTF {##1}{
10 \seq_gput_right:Nn \g__letgut_included_files_seq {
11 \attachfile[
12 description={
13 Fichier~ bibliographique~ utilisé~ dans~ le~
14 présent~ article~ (fichier~ \tl_to_str:n{##1})`
15 },
16 mimetype=application/x-bib
17 ]
18 {\tl_to_str:n{##1}}
19 }
20 }
21 }
22 }
23 }

```

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_tl}
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  \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 watermark is rotated in order to be parallelly 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 , allcolorslinks .code:n = {
43     \colorlet{letgut_allcolorslinks}{#1}}
44 , allcolorslinks .initial:V
45 = \c__letgut_default_allcolorslinks_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 \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_texheight_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={|
8
9       >{\bfseries}X|
10    },
11    vlines,
12    hlines,
13    rowsep=2.5mm,
14    colsep=2.5mm
15  }
16   #2
17 \end{tblr}
18 \skip_vertical:N \c_zero_dim
19 }

```

## 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     align=center,
14     title~ addon/.store~ in=\l__letgut_title_addon_tl,
15     after~ title={
16       \tl_if_empty:NF {\l__letgut_title_addon_tl}{
17         \c_space_tl(\emph{\l__letgut_title_addon_tl})
18       }
19     },
20     float = bh,
21     colback = __letgut_background_terminal_stdout,
22     colbacktitle = __letgut_background_terminal_stdin,
23     coltitle = black
24   }
25 }
26 \tcbset{
27   no~ solution/.style={
28     no~ recording,
29     after~ upper=dans~ la~ prochaine~ \lettre{},
30     after~ upper~ pre={
31       \par\bigskip\hfill\scriptsize\itshape
32       Solution\c_space_tl
33     },
34   }
35 }
36 \NewTColorBox{rebus}{+!0{}}{%
37   before~ title~ pre = {\int_gincr:N \g__letgut_rebus_int},
38   rebus~ style,
39   fonttitle=\bfseries,
40   title={Rébus},
41   label={rebus@\int_use:N \g__letgut_rebus_int},
42   after~ upper={\vpageref[ci-dessous]{solution@\int_use:N
43     \g__letgut_rebus_int}},
44   after~ upper~ pre={
45     \par\bigskip\hfill\scriptsize\itshape
46     Solution\c_space_tl
47   },
48   lowerbox=ignored,
49   savelowerto=rebus-\int_use:N \g__letgut_rebus_int.tex,
50   record={\string\rebus\solution*[\int_use:N \g__letgut_rebus_int][[]]},
51   #1
52 }

```

```

52 \NewDocumentCommand{\rebussolution}{s +o o 0{}}{%
53   \IfValueTF{#2}{
54     \begin{tcolorbox}[
55       rebus~ style,
56       label=solution@\int_use:N\g__letgut_rebus_int,
57       halign=justify,
58       before~ title={\lefthand{~}Solution~ du~ rébus\c_space_tl},
59       title={
60         \IfBooleanTF{#1}{
61           \vpageref[ci-dessus]{rebus@#2}
62         }{
63           de~la~\lettre{~}\c_space_tl
64           \IfValueTF{#3}{
65             #3
66           }{
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 {
1   \file_if_exist:nTF {\c__letgut_banner_file_tl.pdf}{
2     \AddToHookNext{shipout/background}
3     {
4       \begin{picture}(0,0)
5         \put(-2cm,-25.275cm){
6           \__letgut_orig_includegraphics*[scale=0.96]{
7             \c__letgut_banner_file_tl.pdf
8           }
9         }
10        \end{picture}
11      }
12    }{

```

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:nn{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 textheight 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

1     > \c_zero_int
2     {
3       \c_space_tl~ \int_use:N \g__letgut_number_int
4     }
5   },
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 :

—  $\langle \textit{Last name} \rangle, \langle \textit{First name} \rangle$

— and possibly  $\langle \textit{Last name} \rangle, \langle \textit{First name} \rangle, \langle \textit>Title} \rangle$

— 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:NNn \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:NNn \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~
3    remarques~
4    pertinentes~ ou~ par~ leurs~ articles,~ ont~ contribué~ à~ cette~
5    \lettre{}~ :~ %
6  }
7  \tl_const:Nn \c__letgut_postamble_list_of_contributors_tl {
8    \c_space_tl (et~ nous~ espérons~ n'avoir~ oublié~ personne).
9  }
10 \cs_new_protected:Nn \__letgut_list_of_contributors:nnn
11 {
12   \par
13   \fbox{
14     \begin{minipage}[t]{\linewidth-2\fboxsep-2\fboxrule}
15       #1
16       \person*{#3}
17       #2
18     \end{minipage}
19   }
20 \NewDocumentCommand {\listofcontributors} {
21   0{\c__letgut_preamble_list_of_contributors_tl}
22   0{\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    0{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 (TeX 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 cstan.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_softwares_font_switch_tl ##1}}
3 \tl_if_empty:nTF {#1}
4 {
5   \seq_use:Nn \l__letgut_tmpb_seq { ~ }
6 }{
7   \href{#1}{ \seq_use:Nn \l__letgut_tmpb_seq { ~ } }
8 }
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 0{ } m 0{\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 { \lamport } { } {
50   \person{Lamport,~ 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
10        \l__letgut_tmpa_tl\tl_range:Nnn \l__letgut_tmpb_tl { 2 } { -1 }}}
11      {\c__letgut_minus_tl} {\int_eval:n {\g__letgut_number_int
12        \l__letgut_tmpa_tl\tl_range:Nnn \l__letgut_tmpb_tl { 2 } { -1 }}}
13      {\c__letgut_dot_tl} {\int_use:N \g__letgut_number_int}
14    }
15    {\l__letgut_tmpb_tl}
16  }
17  \NewDocumentCommand { \lettrenumber } { s 0{} } {
18    \IfBooleanT{#1}{
19      \no
20    }
21    \__letgut_get_lettre_number:n { #2 }
22  }

```

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 `\lettregut` 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 } { 0{} 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{begindocument/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 whose first occurrences arise within footnotes? We want them to be displayed as their short forms followed by their 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} ~ }
```

---

1. long

```

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} {
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}{ 0{} 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       \file_if_exist:nTF {##1}{
38         \seq_gput_right:Nn \g__letgut_included_files_seq {
39           \attachfile[
40             description={
41               Fichier~ bibliographique~ utilisé~ dans~ le~
42               présent~ article~ (fichier~ ` \tl_to_str:n{##1}`)
43             },
44             mimetype=application/x-bib
45           ]
46           {\tl_to_str:n{##1}}

```

```

47     }
48   }
49 }
50 }
51 }

```

## 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}%
17 \else\ifx#1É\biolinumKeyGlyph{Eacute}%
18 \else\ifx#1è\biolinumKeyGlyph{egrave}%
19 \else\ifx#1È\biolinumKeyGlyph{Egrave}%
20 \else\ifx#1ê\biolinumKeyGlyph{ecircumflex}%
21 \else\ifx#1Ê\biolinumKeyGlyph{Ecircumflex}%
22 \else\ifx#1ë\biolinumKeyGlyph{edieresis}%
23 \else\ifx#1Ë\biolinumKeyGlyph{Edieresis}%
24 \else\ifx#1î\biolinumKeyGlyph{icircumflex}%
25 \else\ifx#1Î\biolinumKeyGlyph{Icircumflex}%
26 \else\ifx#1ï\biolinumKeyGlyph{idieresis}%
27 \else\ifx#1Ï\biolinumKeyGlyph{Idieresis}%
28 \else\ifx#1ô\biolinumKeyGlyph{ocircumflex}%
29 \else\ifx#1Ô\biolinumKeyGlyph{Ocircumflex}%
30 \else\ifx#1ù\biolinumKeyGlyph{ugrave}%
31 \else\ifx#1Û\biolinumKeyGlyph{Ugrave}%
32 \else\ifx#1û\biolinumKeyGlyph{ucircumflex}%
33 \else\ifx#1Û\biolinumKeyGlyph{Ucircumflex}%
34 \else\ifx#1ü\biolinumKeyGlyph{udieresis}%
35 \else\ifx#1Ü\biolinumKeyGlyph{Udieresis}%
36 \else\ifx#1ÿ\biolinumKeyGlyph{ydieresis}%
37 \else\ifx#1ÿ\biolinumKeyGlyph{Ydieresis}%
38 \else\ifx#1ç\biolinumKeyGlyph{ccedilla}%
39 \else\ifx#1Ç\biolinumKeyGlyph{Ccedilla}%
40 \else\biolinumKeyGlyph{#1}%

```



## 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       \file_if_exist:nTF {##1}{
6         \seq_gput_left:Nn \g__letgut_included_files_seq {
7           \attachfile[
8             description={Source~ nécessaire~ (fichier~ `#1.tex`)},
9             mimetype=application/x-tex]
10            {##1.tex}
11          }
12        }
13      }
14    }
15  }
16
17 \cs_new_protected:Npn \__letgut_input_article:nn #1 #2
18 {
19   \FloatBarrier
20   \lstset{ style=__letgut_reset_listings_styles }
21   \acresetall%
22   \begin{refsection}
23     \input{#2}%
24   \end{refsection}
25   \bool_if:NT \g__letgut_included_files_attached_bool {
26     \IfBooleanF {#1}{
27       \__letgut_attach_non_empty_existing_file:n {
28         \c__letgut_local_config_file_tl
29       }
30       \__letgut_attach_non_empty_existing_file:n {
31         \c__letgut_pre_documentclass_file_tl
32       }
33       \seq_gput_left:Nn \g__letgut_included_files_seq {
34         \attachfile[
35           description={Source~ du~ présent~ article~ (fichier~ `#2.tex`)},
36           mimetype=application/x-tex]
37         {#2.tex}
38       }
39     }
40   }

```

```

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~
article~ (fichier~ `#3##1`)},
30             mimetype=image/##1
31         ]{./#3##1}
32     }
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~
extensions:^^J%
43 % \clist_use:Nn \l__letgut_tmpa_clist { ~ }^^J\@ehc}%
44 % }
45 }
46 }
47 \RenewDocumentCommand {\includegraphics} {s 0{} 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.

```

1 \cs_new:Nn \__letgut_extract_file_for:nn
2 {
3 \seq_clear:N \g__letgut_added_bib_resources_seq
4 \regex_extract_all:nnNT
5 {
6 \c{ #1 } \[?.*?\]? \{ ( .*? ) \}
7 }
8 {
9 #2
10 }
11 \g__letgut_added_bib_resources_seq
12 {
13 \seq_map_indexed_inline:Nn \g__letgut_added_bib_resources_seq {
14 \int_if_odd:nT {##1}
15 {
16 \seq_gset_item:Nnn \g__letgut_added_bib_resources_seq {##1} {}
17 }
18 }
19 \seq_gremove_duplicates:N \g__letgut_added_bib_resources_seq
20 \seq_gpop:NN \g__letgut_added_bib_resources_seq \l_tmpa_tl
21 }
22 }
23 \NewCommandCopy {\__letgut_orig_addbibresource} {\addbibresource}
24 \cs_new_protected:Npn \__letgut_addbibresource:nnn #1 #2 #3

```

```

25 {
26   \__letgut_orig_addbibresource[#2]{#3}
27 }
28 \RenewDocumentCommand {\addbibresource} { s O{} m } {
29   \__letgut_addbibresource:nnn {#1} {#2} {#3}
30 }
31 \AddToHookWithArguments{cmd/sa@gobble/before}{
32   \__letgut_extract_file_for:nn { addbibresource }{ #1 }
33 }

```

### 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     \file_if_exist:nTF {\g__letgut_effective_acronyms_file_t}{
4       \attachfile[
5         description={
6           Source~ du~ fichier~ d'acronymes~ utilisé~ dans~
7           le~ présent~ article~
8           (fichier~ ` \c__letgut_acronyms_file_tl`)
9         },
10        mimetype=application/x-tex]%
11        {\g__letgut_effective_acronyms_file_tl}%
12      }
13    }
14    \AddToHook{cmd/ac/before}{
15      \bool_gset_true:N \g__letgut_acronyms_file_attached_bool
16    }
17    \AddToHook{cmd/acs/before}{
18      \bool_gset_true:N \g__letgut_acronyms_file_attached_bool
19    }
20  }

```

### 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   \file_if_exist:nTF {../\c__letgut_lstlanguage_file_tl}{
3     \tl_const:Nn \c__letgut_lstlanguage_file_attached_tl {
4       \attachfile[
5         description={
6           Source~ du~ fichier~ de~ langages~ informatiques~ utilisé~
7           dans~ le~ présent~ article~
8           (fichier~ ` \c__letgut_lstlanguage_file_tl`)
9         },
10        mimetype=application/x-tex]%
11        {../\c__letgut_lstlanguage_file_tl}%
12      }
13    }{
14      \tl_const:Nn \c__letgut_lstlanguage_file_attached_tl {}
15    }

```

```

16 \AddToHook{env/ltx-code/before}{
17   \bool_gset_true:N \g__letgut_lstlanguage_file_attached_bool
18 }
19 \AddToHook{env/ltx-code-result/before}{
20   \bool_gset_true:N \g__letgut_lstlanguage_file_attached_bool
21 }
22 \AddToHook{env/ltx-code-external-result/before}{
23   \bool_gset_true:N \g__letgut_lstlanguage_file_attached_bool
24 }
25 }

```

## 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/FrankMittelbach/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 }
```

### LaTeX listings and examples

We define the colors for the syntax highlighting of LaTeX 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 LaTeX 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_texc}\textbackslash\textbackslash}\}\}\{2}%
3   {\}\}\{\{\textcolor{__letgut_math}\textbackslash[}\}\}\{2}%
4   {\}\}\{\{\textcolor{__letgut_math}\textbackslash}\}\}\{2}%
5   {\$}\{\{\textcolor{__letgut_math}\{\$\}\}\}\{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_foregroundLinenum}{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~`s.

```

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   Example\nobreakspace\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 \tcbsset{
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}
42   \int_compare:nNnT {\thetcbbreakpart} > {1} {~(suite)}
43 }

```

```

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 }
```

```

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{beginningdocument/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,cacat,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,mount,mtools,mtr,mv,nc,netstat,nft,nice,nl,%
29    nohup,notify-send,nslookup,op,open,passwd,paste,pathchk,%
30    Perf,pgrep,ping,pkill,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=[1]\#,%
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 ¼
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}[2024-10-30 v0.9.12 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}[2024-10-30 v0.9.12 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}[2024-10-30 v0.9.12 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 \letgutacro%
35 {SVG}%
36 {Scalable Vector Graphics}%
37 [graphiques vectoriels extensibles]
38
39 \letgutacro%
40 {DNS}%
41 {Domain Name System}%
42 [système de noms de domaine]
43
44 \letgutacro%

```

```
45 {VPS}%
46 {Virtual Private Server}%
47 [serveur dédié virtuel]
48
49 \letgutacro%
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 \letgutacro%
56 {OTF}%
57 {Open Type Format}%
58 []
59
60 \letgutacro%
61 {DOI}%
62 {Digital Object Identifier}%
63 [identifiant numérique d'objet]
64
65 \letgutacro%
66 {ISSN}%
67 {International Standard Serial Number}%
68 [numéro international normalisé des publications en série]
69
70 \letgutacro%
71 {TUG}%
72 {\hologo{TeX} User Group}%
73 [groupe (international) d'utilisateurs de \hologo{TeX}]
74
75 \letgutacro%
76 {WCAG}%
77 {Web Content Accessibility Guidelines}%
78 [directives sur l'accessibilité du contenu Web]
79
80 \letgutacro%
81 {HTML}%
82 {HyperText Markup Language}%
83 [langage de balises pour l'hypertexte]
84
85 \letgutacro%
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=
    german,foreign-locale=allemand]
```

```
96 {TIKZ}%
97 {Ti\emph{k}Z ist \emph{kein} Zeichenprogramm}%
98 [Ti\emph{k}Z \emph{n'}est \emph{pas} un programme de dessin]
99
100 \letgutacro%
101 {PGF}%
102 {Portable Graphics Format}%
103 [format de graphiques portable]
104
105 \letgutacro%
106 {GPL}%
107 {\textsc{gnu} General Public License}%
108 [licence publique générale \textsc{gnu}]
109
110 \letgutacro%
111 {OFL}%
112 {SIL Open Font License}%
113 []
114
115 \letgutacro%
116 {DVI}%
117 {DeVice-Independent}%
118 [indépendant du type de périphérique]
119
120 \letgutacro%
121 {PS}%
122 {PostScript}%
123 []
124
125 \letgutacro%
126 {DVIPS}%
127 {\acs{dvi}-to-\acs{ps} (translator)}%
128 [(convertisseur) \acs{dvi} vers \acs{ps}]
129
130 \letgutacro%
131 {IPA}%
132 {International Phonetic Alphabet}%
133 [alphabet phonétique international]
134
135 \letgutacro%
136 {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@define\language[...]{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         sufigures,firaoldstyle,firalining,firatabular,firaproportional,
114         firathin,firalight,firaextralight,firaultralight,firamedium,firabook

```

```

115     firasemibold,firaextrabold,firaheavy,%
116   }%
117   % Keywords of class 1 : keywords that contain other characters
118   % (since of the same class as the ones specified as 'otherkeywords')
119   morekeywords={%
120   },%
121   % Keywords of class 2 : environments names
122   morekeywords=[2]{%
123   },%
124   % Keywords of class 3 : mandatory arguments (not environments) &
125   % optional arguments which are keys (in key=value)
126   morekeywords=[3]{%
127     sfdefault,scaled,scale,type1,lining,lf,oldstyle,osf,tabular,t,
128     proportional,%
129     p,book,medium,mb,semibold,sb,light,l,extralight,ultralight,thin,%
130     extrabold,heavy,default,%
131   },%
132   % Keywords of class 4 : values of keys (in key=value)
133   morekeywords=[4]{%
134   },%
135   % Keywords of class 5 : arguments specifications (after ":" in expl3
136   % syntax)
137   morekeywords=[5]{%
138   },%
139   % Keywords of class 6 : current package name (and possibly derived
140   % packages)
141   morekeywords=[6]{%
142     FiraSans%
143   },%
144   % otherkeywords={},
145   alsoletter={1},
146   % alsodigit={},%
147   % alsoother={},%
148   sensitive,%
149 }[keywords,tex,comments]
150 \lst@definlanguage[luagcd]{TeX}{%
151   % Control sequences names
152   moretexcs={%
153     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,bfcal,frak,tt,sfup ,sfit,bfup,bfit,bfscr,
489     bffrak,%
490     bfsfup,bfsfit,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
518     morekeywords=[2]{%
519     },%
520     % Keywords of class 3 : mandatory arguments (not environments) &
521     % optional arguments which are keys (in key=value)
522     morekeywords=[3]{%
523     range
524     },%
525     % Keywords of class 4 : values of keys (in key=value)
526     morekeywords=[4]{%
527     },%
528     % 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 xcharacter-otf
535 },%
536 % otherkeywords={},
537 alsoletter={-},
538 % alsodigit={},%
539 % alsoother={},%
540 sensitive,%
541 }[keywords, tex, comments]
542
543 \lst@definlanguage[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   ctanews,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,allcolorslinks,membership-reminder,editorial,informations,%
746   title,addon,result width,reference,text,title,reviewer,bibkey,%
747   frontcover,price,result,and,no,solution,color,toc,title,%
748 },%
749 % Keywords of class 4 : values of keys (in key=value)
750 morekeywords=[4]{%
751 },%
752 % Keywords of class 5 : arguments specifications (after ":" in expl3
753 % syntax)
754 morekeywords=[5]{%
755 },%
756 % Keywords of class 6 : current package name (and possibly derived
757 % packages)
758 morekeywords=[6]{%
759   letgut%
760 },%
761 % otherkeywords={},%
762 alsoletter={-\ },%
763 % alsodigit={},%
764 alsoother={*},%
765 % alsoother={},%
766 sensitive,%
767 }[keywords,tex,comments]%
768
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,contentsname,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,
812     math,%
813     minipage,picture,quotation,quote,sloppypar,tabbing,table,tabular,%
814     thebibliography,theindex,titlepage,trivlist,verbatim,verse,%
815 },%
816 % Keywords of class 3 : mandatory arguments (not environments) &
817 % optional arguments which are keys (in key=value)
818 morekeywords=[3]{%
819     % c,cc,ccc,cccc,X,l,
820     empty,%
821 },%
822 % Keywords of class 4 : values of keys (in key=value)
823 morekeywords=[4]{%
824 },%
825 % Keywords of class 5 : arguments specifications (after ":" in expl3
826 % syntax)
827 morekeywords=[5]{%
828 },%
829 % Keywords of class 6 : current package name (and possibly derived
830 % packages)
831 morekeywords=[6]{%
832     %
833 },%
834 otherkeywords={|},%
835 % alsoletter={},% alsodigit={},%
836 % alsoother={},%
837 sensitive,%
838 }[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     lstlgrindfile,lstlistingname,lstlistingnamestyle,%
847     lstlistlistingname,lstlistoflistings,lstloadlanguages,lstname,%
848     lstnewenvironment,lstset,theHlstnumber,theHlstlabel,theHlstlisting,%
849     theHlstnumber,%
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
879     4.3]ABAP,[R/2 5.0]ABAP,[R/3 3.1]ABAP,[R/3 4.6C]ABAP,[R/3 6.10]ABAP,%
880     [Sharp]C,[Standard]Pascal,[VM/XA]Rexx,[Visual]Basic,[Visual]C++,%
881     [WinXP]command.com,[XSC]Pascal,[common]TeX,[decorative]OCL,%
882     [empty]IDL,[empty]Java,[empty]Lisp,[empty]Rexx,[empty]S,%
883     [empty]VHDL,[empty]make,[empty]tcl,[gnu]Awk,[gnu]make,[ibm]Cobol,%
884     [light]Caml,[plain]TeX,[primitive]TeX,[tk]tcl,[x86masm]Assembler,%
885     abovecaptionskip,aboveskip,alsodigit,alsolanguage,alsoletter,%
886     alsoother,backgroundcolor,basewidth,bash,basicstyle,%
887     belowcaptionskip,belowskip,boxpos,breakatwhitespace,breakautoindent,%
888     %
889     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,framaround,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     , %
992     box_gclear, box_gclear_new, box_gclip, box_gresize_to_ht, %
993     box_gresize_to_ht_plus_dp, box_gresize_to_wd, box_gresize_to_wd_and_ht
994     , %
995     box_gresize_to_wd_and_ht_plus_dp, box_grotate, box_gscale, box_gset_dp,
996     %
997     box_gset_eq, box_gset_eq_drop, box_gset_ht, box_gset_to_last, %
998     box_gset_trim, box_gset_viewport, box_gset_wd, box_ht, box_ht_plus_dp, %
999     box_if_empty, box_if_empty_p, box_if_exist, box_if_exist_p, %
1000    box_if_horizontal, box_if_horizontal_p, box_if_vertical, %
1001    box_if_vertical_p, box_log, box_move_down, box_move_left, %
1002    box_move_right, box_move_up, box_new, box_resize_to_ht, %
1003    box_resize_to_ht_plus_dp, box_resize_to_wd, box_resize_to_wd_and_ht, %
1004    box_resize_to_wd_and_ht_plus_dp, box_rotate, box_scale, box_set_dp, %
1005    box_set_eq, box_set_eq_drop, box_set_ht, box_set_to_last, box_set_trim, %
1006    box_set_viewport, box_set_wd, box_show, box_use, box_use_drop, box_wd, %
1007    c_alignment_token, c_ampersand_str, c_at_sign_str, c_backslash_str, %
1008    c_catcode_active_space_tl, c_catcode_active_tl, c_catcode_letter_token
1009    , %
1010    c_catcode_other_space_tl, c_catcode_other_token, c_circumflex_str, %
1011    c_code_cctab, c_colon_str, c_document_cctab, c_dollar_str, c_e_fp, %
1012    c_empty_box, c_empty_clist, c_empty_coffin, c_empty_prop, c_empty_seq, %
1013    c_empty_tl, c_false_bool, c_group_begin_token, c_group_end_token, %
1014    c_hash_str, c_inf_fp, c_initex_cctab, c_left_brace_str, c_log_iow, %
1015    c_math_subscript_token, c_math_superscript_token, c_math_toggle_token,
1016    %
1017    c_max_char_int, c_max_dim, c_max_int, c_max_muskip, c_max_register_int, %
1018    c_max_skip, c_minus_inf_fp, c_minus_zero_fp, c_nan_fp, c_novalue_tl, %
1019    c_one_degree_fp, c_one_fp, c_one_int, c_other_cctab, c_parameter_token, %
1020    c_percent_str, c_pi_fp, c_right_brace_str, c_space_tl, c_space_token, %
1021    c_str_cctab, c_sys_backend_str, c_sys_day_int, c_sys_engine_exec_str, %
1022    c_sys_engine_format_str, c_sys_engine_str, c_sys_engine_version_str, %
1023    c_sys_hour_int, c_sys_jobname_str, c_sys_minute_int, c_sys_month_int, %
1024    c_sys_output_str, c_sys_platform_str, c_sys_shell_escape_int, %
1025    c_sys_year_int, c_term_iow, c_tilde_str, c_true_bool, c_underscore_str, %
1026    c_zero_dim, c_zero_fp, c_zero_int, c_zero_muskip, c_zero_skip, %
1027    c_zero_str, cctab_begin, cctab_const, cctab_end, cctab_gset, %
1028    cctab_if_exist, cctab_if_exist_p, cctab_item, cctab_new, cctab_select, %
1029    char_foldcase, char_generate, char_gset_active_eq, char_lowercase, %
1030    char_set_active_eq, char_set_catcode, char_set_catcode_active, %
1031    char_set_catcode_alignment, char_set_catcode_comment, %
1032    char_set_catcode_end_line, char_set_catcode_escape, %
1033    char_set_catcode_group_begin, char_set_catcode_group_end, %
1034    char_set_catcode_ignore, char_set_catcode_invalid, %
1035    char_set_catcode_letter, char_set_catcode_math_subscript, %
1036    char_set_catcode_math_superscript, char_set_catcode_math_toggle, %
1037    char_set_catcode_other, char_set_catcode_parameter, %
1038    char_set_catcode_space, char_set_lccode, char_set_mathcode, %
1039    char_set_sfcode, char_set_uccode, char_show_value_catcode, %
1040    char_show_value_lccode, char_show_value_mathcode, %
1041    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, %
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, %

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```

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, fpparray_count, fpparray_gset, fpparray_gzero, %
1098     fpparray_item, fpparray_item_to_tl, fpparray_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, %
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, %

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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,%
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 seq_set_map_x, seq_set_split, seq_set_split_keep_spaces, seq_show, %
1234 seq_shuffle, seq_sort, seq_use, skip_add, skip_const, skip_eval, %
1235 skip_gadd, skip_gset, skip_gset_eq, skip_gsub, skip_gzero, %
1236 skip_gzero_new, skip_horizontal, skip_if_eq, skip_if_eq_p, %
1237 skip_if_exist, skip_if_exist_p, skip_if_finite, skip_if_finite_p, %
1238 skip_log, skip_new, skip_set, skip_set_eq, skip_show, skip_sub, %
1239 skip_use, skip_vertical, skip_zero, skip_zero_new, sort_return_same, %
1240 sort_return_swapped, str_case, str_case_e, str_clear, str_clear_new, %
1241 str_compare, str_compare_p, str_concat, str_const, str_convert_pdfname, %

```

```

1242     str_count, str_count_ignore_spaces, str_count_spaces, str_foldcase, %
1243     str_gclear, str_gconcat, str_gput_left, str_gput_right, str_gremove_all,
%
1244     str_gremove_once, str_greplace_all, str_greplace_once, str_gset, %
1245     str_gset_convert, str_gset_eq, str_head, str_head_ignore_spaces, %
1246     str_if_empty, str_if_empty_p, str_if_eq, str_if_eq_p, str_if_exist, %
1247     str_if_exist_p, str_if_in, str_item, str_item_ignore_spaces, str_log, %
1248     str_lowercase, str_map_break, str_map_function, str_map_inline, %
1249     str_map_tokens, str_map_variable, str_new, str_put_left, str_put_right, %
1250     str_range, str_range_ignore_spaces, str_remove_all, str_remove_once, %
1251     str_replace_all, str_replace_once, str_set, str_set_convert, str_set_eq,
%
1252     str_show, str_tail, str_tail_ignore_spaces, str_uppercase, str_use, %
1253     sys_finalise, sys_get_shell, sys_gset_rand_seed, sys_if_engine luatex, %
1254     sys_if_engine luatex_p, sys_if_engine pdftex, sys_if_engine pdftex_p, %
1255     sys_if_engine ptex, sys_if_engine ptex_p, sys_if_engine uptex, %
1256     sys_if_engine uptex_p, sys_if_engine xetex, sys_if_engine xetex_p, %
1257     sys_if_output_dvi, sys_if_output_dvi_p, sys_if_output_pdf, %
1258     sys_if_output_pdf_p, sys_if_platform_unix, sys_if_platform_unix_p, %
1259     sys_if_platform_windows, sys_if_platform_windows_p, sys_if_rand_exist,
%
1260     sys_if_rand_exist_p, sys_if_shell, sys_if_shell_p, %
1261     sys_if_shell_restricted, sys_if_shell_restricted_p, %
1262     sys_if_shell_unrestricted, sys_if_shell_unrestricted_p, %
1263     sys_load_backend, sys_load_debug, sys_rand_seed, sys_shell_now, %
1264     sys_shell_shipout, sys_timer, text_declare_expand_equivalent, %
1265     text_declare_purify_equivalent, text_expand, text_lowercase, %
1266     text_purify, text_titlecase, text_titlecase_first, text_uppercase, %
1267     tl_analysis_log, tl_analysis_map_inline, tl_analysis_show, %
1268     tl_build_begin, tl_build_clear, tl_build_end, tl_build_gbegin, %
1269     tl_build_gclear, tl_build_gend, tl_build_get, tl_build_gput_left, %
1270     tl_build_gput_right, tl_build_put_left, tl_build_put_right, tl_case, %
1271     tl_clear, tl_clear_new, tl_concat, tl_const, tl_count, tl_count_tokens, %
1272     tl_gclear, tl_gclear_new, tl_gconcat, tl_gput_left, tl_gput_right, %
1273     tl_gremove_all, tl_gremove_once, tl_greplace_all, tl_greplace_once, %
1274     tl_greverse, tl_gset, tl_gset_eq, tl_gset_rescan, tl_gsort, %
1275     tl_gtrim_spaces, tl_head, tl_if_blank, tl_if_blank_p, tl_if_empty, %
1276     tl_if_empty_p, tl_if_eq, tl_if_eq_p, tl_if_exist, tl_if_exist_p, %
1277     tl_if_head_eq_catcode, tl_if_head_eq_catcode_p, tl_if_head_eq_charcode
,%
1278     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_i_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@definelanguage[pdftex]{TeX}{%
1357   % Control sequences names
1358   moretexcs={%
1359       pdfinfo,pdfcatalog,pdfpageattr,pdfpagesattr,pdfpagemresources,%
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,spanglish,spanish,swedish,thai,%
1671     thaicjk,turkish,turkmen,ukrainian,uppersorbian,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,teorpdfstring,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,dvipsones,%
1827         dviwindo,encap,extension,filebordercolor,filecolor,final,%
1828         frenchlinks,hidelinks,hyperfigures,hyperfootnotes,hyperindex,%
1829         hypertex,hypertextnames,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,pdffitwindow,pdfhighlight,pdfinfo,%
1834         pdfkeywords,pdflang,pdfmark,pdfmenubar,pdfnewwindow,%
1835         pdfnonfullscreenpagemode,pdfnumcopies,pdfpagelabels,pdfpagelayout,%
1836         pdfpagemode,pdfpagescrop,pdfpagetransition,pdfpicktraybypdfsize,%
1837         pdfprintarea,pdfprintclip,pdfprintpagerange,pdfprintscaling,%
1838         pdfproducer,pdfremotestartview,pdfstartpage,pdfstartview,pdfsubject,%
1839         pdftex,pdftitle,pdftoolbar,pdftrapped,pdfview,pdfviewarea,%
1840         pdfviewclip,pdfwindowui,plainpages,ps2pdf,psdextra,raiselinks,%
1841         runbordercolor,runcolor,setpagesize,tx4ht,textures,unicode,%
1842         urlbordercolor,urlcolor,verbose,vtex,xetex,%
1843     },%
1844     % Keywords of class 4 : values of keys (in key=value)
1845     morekeywords=[4]{%
1846     },%
1847     % 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@definlanguage[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, bblly, 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,ansipaper,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,egg,egg,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)

```



```

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
2368     % packages)
2369     morekeywords=[6]{%
2370         booktabs,%
2371     },%
2372     % otherkeywords={},
2373     % alsoletter={},
2374     % alsodigit={},%
2375     % alsoother={},%
2376     sensitive,%
2377 }[keywords, tex, comments]%
2378

```

```

2379 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2380 % strands
2381 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2382 \lst@definlanguage[strands]{TeX}%
2383 {%
2384   % Control sequences names
2385   moretexcs={%
2386     strands,%
2387   },%
2388   % Keywords of class 1 : keywords that contain other characters (since
2389   % of the same class as the ones specified as 'otherkeywords')
2390   morekeywords={%
2391   },%
2392   % Keywords of class 2 : environments names
2393   morekeywords=[2]{%
2394   },%
2395   % Keywords of class 3 : mandatory arguments (not environments) &
2396   % optional arguments which are keys (in key=value)
2397   morekeywords=[3]{%
2398   },%
2399   % Keywords of class 4 : values of keys (in key=value)
2400   morekeywords=[4]{%
2401   },%
2402   % Keywords of class 5 : arguments specifications (after ":" in expl3
2403   % syntax)
2404   morekeywords=[5]{%
2405   },%
2406   % Keywords of class 6 : current package name (and possibly derived
2407   % packages)
2408   morekeywords=[6]{%
2409     strands,%
2410   },%
2411   % otherkeywords={},
2412   % alsoletter={},
2413   % alsodigit={},%
2414   % alsoother={},%
2415   sensitive,%
2416 }[keywords,tex,comments]%
2417 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2418 % cartonaugh
2419 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2420 \lst@definlanguage[cartonaugh]{TeX}%
2421 {%
2422   % Control sequences names
2423   moretexcs={%
2424     maxterms,minterms,terms,implicant,%
2425   },%
2426   % Keywords of class 1 : keywords that contain other characters (since
2427   % of the same class as the ones specified as 'otherkeywords')
2428   morekeywords={%
2429   },%
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 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2459 % xistercian
2460 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2461 \lst@definlanguage[xistercian]{TeX}%
2462 {%
2463   % Control sequences names
2464   moretexcs={%
2465     cisterciannum,%
2466   },%
2467   % Keywords of class 1 : keywords that contain other characters (since
2468   % of the same class as the ones specified as 'otherkeywords')
2469   morekeywords={%
2470   },%
2471   % 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, setmathhtt, 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,%
2680         Kerning, Language, LetterSpace, Letters, Ligatures, LocalForms,%
2681         NFSSFamily, Numbers, OpticalSize, Ornament, Path, PunctuationSpace,%
2682         RawFeature, Scale, ScaleAgain, Script, Size, SizeFeatures,%
2683         SlantedFeatures, SlantedFont, SmallCapsFeatures, SmallCapsFont, Style,%
2684         StylisticAlternates, StylisticSet, SwashFeatures, SwashFont,%
2685         UprightFeatures, UprightFont, Variant, Vertical, VerticalPosition,%
2686         WordSpace, Mapping, Renderer, Traditional, Simplified, JIS1978, JIS1983,%
2687         JIS1990, Expert, NLC,%
2688     },%
2689     % Keywords of class 4 : values of keys (in key=value)
2690     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     mecaso },%
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[amsfonts]{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, rightharpoons, 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     amsfonts }, %
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, sufigures, 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, LMouseIIEmpy, 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, ohungarumlaut, %  
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, uhungarumlaut, 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, rhocturned.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, %  
 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,issc,journalsubtitle,journaltitle,label,%
3520   language,library,location,mainsubtitle,maintitle,maintitleaddon,%

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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-icom, %
3545         authortitle, authortitle-comp, authortitle-ibid, authortitle-icom, %
3546         authortitle-terse, authortitle-tcomp, authortitle-ticom, verbose, %
3547         verbose-ibid, verbose-note, verbose-inote, verbose-trad1, verbose-trad2, %
3548         verbose-trad3, reading, draft, debug, and, inline, footnote, %
3549         superscript, plain, nyt, ynt, none, false, true, %
3550     }, %
3551     % Keywords of class 5 : arguments specifications (after ":" in expl3
3552     % syntax)
3553     morekeywords=[5]{%
3554     }, %
3555     % Keywords of class 6 : current package name (and possibly derived
3556     % packages)
3557     morekeywords=[6]{%
3558         biblatex }, %
3559     % directives
3560     directives={%
3561         article, book, inbook, bookinbook, suppbook, 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]%

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```
3572
3573 \lst@definlanguage[l1hooks]{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,endedocument,endedocument/afterlastpage,%
3593     endedocument/afteraux,endedocument/info,endedocument/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     l1hooks },%
3606   % otherkeywords={},%
3607   % alsoletter={/},%
3608   % alsodigit={},%
3609   % alsoother={},%
3610   sensitive,%
3611 }[keywords,tex,comments]%
3612
3613 \lst@definlanguage[l3keys2e]{TeX}{%
3614   % Control sequences names
3615   moretexcs={%
3616     ProcessKeysOptions,ProcessKeysPackageOptions,%
3617   },%
3618   % Keywords of class 1 : keywords that contain other characters (since
3619   % of the same class as the ones specified as 'otherkeywords')
3620   morekeywords={%
3621     },%
3622   % Keywords of class 2 : environments names
3623   morekeywords=[2]{%
```

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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     varioref },%
3673     % otherkeywords={},
3674     % alsoletter={},

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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=value)
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,aclp,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,
%
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         exttikzpicture, foauxenv, 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, octogon, 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, %  
 3922 southwest, space, spacing, span, spartan, split, spread, square, %  
 3923 squeezed, stack, standard, step, store, stretch, style, subskin, %  
 3924 subtitle, supplement, switch, system, tabulars\*, tabulars, tabularx\*, %  
 3925 tabularx, tcbimage, tcbbox, preamble tcbset, tempfile, terminator, text, %  
 3926 theorem, theorems, tight, tikz, tikznode, tile, title\*, title, titlebox, %  
 3927 titled, titlerule, to, toggle, top\*, top, toprule, topsep, toptitle, %  
 3928 type, unbreakable, unbroken, underlay, updated, upper\*, upper, upperbox, %  
 3929 upwards\*, upwards, use, utf, valign, value, values, varwidth, [verbatim](#), %  
 3930 vertical, vfill, vignette, visible, void, warning, watermark, west, %  
 3931 widget, width, with, within, xelatex, xmax, xmin, xparse, xshift, ymax, %  
 3932 ymin, yshift\*, yshift, yshifttext, zoom, %

```

3933     },%
3934     % Keywords of class 4 : values of keys (in key=value)
3935     morekeywords=[4]{%
3936         all, and, apart, areastyle, areastyle, as-is, auto, base, baselineskip, %
3937         beamer, beamerfirst, beamerlast, beamermiddle, bicolor, bicolorfirst, %
3938         bicolorlast, bicolormiddle, both, bottom, break, broken, center, change, %
3939         clipped, colon, copy, dash, direct, doc, downhill, draft, east, empty, %
3940         emptyfirst, emptylast, emptymiddle, enhanced, enhancedfirst, %
3941         enhancedlast, enhancedmiddle, evenpage, false, fbox, figures, final, %
3942         first, fitbox, flush, fontsize*, fontsize, forced, freelance, %
3943         freelancefirst, freelancelast, freelancemiddle, hang, hbox, hybrid*, %
3944         hybrid, ignored, invisible, jigsaw, justify, landscape*, landscape, %
3945         last, left, limited, listings, margin, maximum, middle, minimal, %
3946         minimum, minipage, minted, none, normal, north, northeast, northwest, %
3947         off, on, path, pathfirst, pathfirstjigsaw, pathjigsaw, pathlast, %
3948         pathlastjigsaw, pathmiddle, pathmiddlejigsaw, pgf, pgfchapter, %
3949         pgfsection, plain, portrait*, portrait, right, rows, scale*, scale, %
3950         seam, small, south, southeast, southwest, spartan, squeeze, standard, %
3951         tables, tight, tile, tilefirst, tilelast, tilemiddle, title, top, true, %
3952         unbroken, unlimited, uphill, visible, west, widget, widgetfirst, %
3953         widgetlast, widgetmiddle, red, black, white, none, %
3954     },%
3955     % Keywords of class 5 : arguments specifications (after ":" in expl3
3956     % syntax)
3957     morekeywords=[5]{%
3958     },%
3959     % Keywords of class 6 : current package name (and possibly derived
3960     % packages)
3961     morekeywords=[6]{%
3962         tcolorbox%
3963     },%
3964     % otherkeywords={}, %
3965     alsoletter={ \ }, %
3966     % alsodigit={}, %
3967     % alsoother={}, %
3968     sensitive,%
3969 }[keywords, tex, comments]%
3970
3971 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
3972 % Classes (La)TeX
3973 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
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, akkscript, 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, asmejourn, 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, ctdoc, 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, guitartabs, gzt, gztarticle, h2020proposal,
4035         hgbarticle, hgbreport, hgbthesis, hannon-cv, hausarbeit-jura,
4036         hcart, hcletter, hcreport, hcslides, hecthes, hepthesis, hitec,
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4037 hithesis, hitreport, hitszthesis, hletter, hpsdiss, fsbispit,  
4038 huawei, hustthesis, icsv, IEEEconf, IEEEtran, ijmart, ijsra,  
4039 image-gallery, IMTEKda, inkpaper, invoice-class, iodhbwm, iscram,  
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, scr1ttr2, scrreport, scrreprt, komacv,  
4044 obloivoir-utf, obloivoir-xl, obloivoir, xobloivoir, 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 ptptex, qcm, quantumarticle, qyxf-book, ReadableCV, recipe,  
4062 RecipeBook, recipecard, refart, refrep, resphilosophica, revtex4-2,  
4063 revtex4, revtex4-1, rtklage, ryersonSGSThesis, ryethesis, sageep,  
4064 saphthesis, 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, scrjrnl, 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-vorl, sslides, stage, standalone, usthesis, hwexam, mikoslides,  
4073 omdoc, smglom, subfiles, suftesi, sugconf, tabriz-thesis, talk,  
4074 tcldoc, tclldoc, 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,

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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]%
```

BroUillon

# GUTenberg

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

secretariat[at]gutenberg-asso[dot]fr

Site Internet : <https://www.gutenberg-asso.fr/>

Cahiers : <http://www.numdam.org/journals/CG/>

Problèmes techniques :

la liste gut : <https://www.gutenberg-asso.fr/~Listes-de-diffusion->

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

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

Cette association est la vôtre : faites-nous part de vos idées, de vos envies, de vos préoccupations à l'adresse [secretariat\[at\]gutenberg-asso\[dot\]fr](mailto:secretariat[at]gutenberg-asso[dot]fr).

## ADHÉSION À L'ASSOCIATION

- Les adhésions sont à renouveler en début d'année pour l'année civile.
- Les administrations peuvent joindre un bon de commande revêtu de la signature de la personne responsable ; les étudiants doivent joindre un justificatif.

### Tarifs 2024

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
Membre individuel	30 €
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 €
Organisme à but lucratif	229 €

## Règlements

Les règlements peuvent s'effectuer par :

- virement bancaire<sup>2</sup> (IBAN : FR76 3000 3001 0900 0372 6086 280)

**Veillez à bien indiquer vos nom et prénom dans les références du virement !**

- Paypal<sup>2</sup> : <https://www.gutenberg-asso.fr/?Adherer-en-ligne>
- bulletin et chèque<sup>2</sup> : <https://www.gutenberg-asso.fr/?Adherer-a-l-association>

### La Lettre GUTenberg

Bulletin irrégulomestriel de l'association GUTenberg

Directeur de la publication : Patrick Bideault

Comité de rédaction : Patrick Bideault, Denis Bitouzé,  
Céline Chevalier, Maxime Chupin & Bastien Dumont

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75001 Paris

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2. Nous vous remercions de privilégier le virement bancaire.