

The HEP-TEXT package*

List and text extensions

Jan Hajer[†]

2024/11/01

Abstract

The HEP-TEXT package extends L^AT_EX lists using the ENUMITEM package and provides some text macros.

The package can be loaded by `\usepackage{hep-text}`.

- `lang` The `lang` option sets the used language and takes the values allowed by the BABEL package [1], that is loaded for its hyphenation support.
- `\enquote` Quotation commands are provided by the CSQUOTES package [2]. It provides the convenient macros `\enquote{<text>}` and `\MakeOuterQuote{}` allowing to leave the choice of quotation marks to L^AT_EX and use " instead of the pair ‘ ‘ and ’ ’, respectively.
- `\eg` The FOREIGN package [3] defines macros such as `\eg`, `\ie`, `\cf`, and `\vs` which are typeset as e.g., i.e., cf., and vs. with the appropriate spacing. Issuing `\renewcommand\foreignabbrfont{\itshape}` these abbreviations are typeset in italic.
- `\vs`
- `\no` The `\no{<number>}` macro is typeset as N^o 123.
- `\software` The `\software{<version>}{<name>}` macro is typeset as HEP-PAPER v1.3.
- `\online` The `\online{<url>}{<text>}` macro combines the features of the `\href{<url>}{<text>}` [4] and the `\url{<text>}` [5] macros, resulting in e.g. ctan.org/pkg/hep-text.
- `inlinelist` The `inlinelist` and `enumdescript` environments are defined using the ENUMITEM package [6].
- `enumdescript` The three main points are
- | | |
|--|--|
| <code>\begin{inlinelist}</code> | The three main points are i) one, ii) two, and |
| <code>\item one</code> | iii) three. |
| <code>\item two</code> | |
| <code>\item three</code> | |
| <code>\end{inlinelist}</code> | |
| <code>\begin{enumdescript}[label=\Roman*]</code> | |
| <code>\item{First} one</code> | I) First one |
| <code>\item{Second} two</code> | II) Second two |
| <code>\item{Third} three</code> | III) Third three |
| <code>\end{enumdescript}</code> | |
- `\underline` The `\underline` macro is redefined to allow line-breaks using the SOUL package [7].

*This document corresponds to HEP-TEXT v1.3.

[†]jan.hajer@tecnico.ulisboa.pt

A Implementation

<*package>

Load the `KVOPTIONS` package [8] and define a `heptext` namespace.

```
1 \RequirePackage{kvoptions}
2 \SetupKeyvalOptions{
3   family=heptext,
4   prefix=heptext@
5 }
```

`lang` Define the `lang` option, which takes the values provided by the `BABEL` package [1]. Make `british` the default language.

```
6 \DeclareStringOption[british]{lang}
7 \ProcessKeyvalOptions*
```

Load the `BABEL` package [1] for hyphenation and the recommended `CSQUOTES` package [2].

```
8 \PassOptionsToPackage{\heptext@lang}{babel}
9 \RequirePackage{babel}
10 \PassOptionsToPackage{autostyle}{csquotes}
11 \RequirePackage{csquotes}
```

`\underline` Load the `SOUL` package [7] for hyphenable underlined text.

```
12 \RequirePackage{soul}
13 \let\underline\textul
```

Check the `lang` option using the `PDFTEXCMDS` package [9].

```
14 \RequirePackage{pdftexcmds}
15 \ifnum\pdf@strcmp{\heptext@lang}{american}=0
16   \newcommand{\heptext@lang@foreign}{USenglish}
17 \else
18   \ifnum\pdf@strcmp{\heptext@lang}{USenglish}=0
19     \newcommand{\heptext@lang@foreign}{USenglish}
20   \else
21     \newcommand{\heptext@lang@foreign}{british}
22   \fi
23 \fi
```

`\vs` Load the `FOREIGN` package [3] in order to highlight abbreviations and vocabularies from foreign languages. Add the missing `\vs` command.

```
24 \PassOptionsToPackage{all, \heptext@lang@foreign}{foreign}
25 \RequirePackage{foreign}
26 \renewcommand\foreignabbrfont{}
27 \DeclareRobustCommand\vs{\xperiodafter{\foreignabbrfont{vs}}}
```

The FOREIGN package relies on the XSPACE package [10]. Ensure that `\xspace` is compatible with the `\enquote` macro from the CSQUOTE package.

```
28 \xspaceaddexceptions{\csq@qc@close@i}
```

`\no` Define the macro `\no{<number>}` for the use of N° with appropriate spacing.

```
29 \newcommand{\no}[1]{\textnumero~#1}
```

`\software` Define a macro for software with optional version information `\software[<version>]{<name>}`, using the RELSIZE [11] and XPARSE [12] packages.

```
30 \RequirePackage{reysize}
31 \newcommand{\software}[2][\hspace{-\fontdimen2\font}]{%
32   {\smaller[.5]\textsc{#2}~#1}%
33 }
34 \RequirePackage{xparse}
35 \NewExpandableDocumentCommand\hep@gobble@opt@arg{om}{#2}
36 \AtBeginDocument{\@ifpackageloaded{hyperref}{%
37   \pdfstringdefDisableCommands{\let\software\hep@gobble@opt@arg}%
38 }}{}}
```

`\online` Define the `\online{<text>}{<url>}` macro combining the features of the `\href` and the `\url` `\email` macros. Define a macro for typesetting emails.

```
39 \providecommand{\online}[2]{\texttt{#2}}%
40 \providecommand{\hep@email}[1]{\online{mailto:#1}{#1}}
41 \providecommand\email{\hep@email}
42 \AtBeginDocument{\@ifpackageloaded{hyperref}{%
43   \renewcommand{\online}[2]{\href{#1}{\nolinkurl{#2}}}%
44 }}{}}
```

`\prefix` Define the `\prefix{<prefix>}{<word>}` macro ensuring the correct linebreak in (prefix-)word.

```
45 \newcommand{\prefix}[2]{(#1\mbox{-})\allowbreak #2}
```

`\subsubparagraph` Define the `\subsubparagraph` macro starting a new paragraph with the same spacing as the paragraph macro but without title.

```
46 \newcommand\subsubparagraph{%
47   \@tempskipa 3.25ex \@plus 1ex \@minus .2ex\relax%
48   \addpenalty\@secpenalty\addvspace\@tempskipa%
49   \everypar{\setbox\z@\lastbox\everypar{}}%
50 }
```

A.1 Lists

Load the ENUMITEM package [6].

```
51 \PassOptionsToPackage{inline}{enumitem}
52 \RequirePackage{enumitem}
```

`inlinelist` (*env.*) Define an inline list environment.

```
53 \newlist{inlinelist}{enumerate*}{1}
54 \setlist*[inlinelist,1]{%
55   label=\roman*), itemjoin={, \ }, itemjoin*={, and \ }, after=.%
56 }
```

`enumdescript` (*env.*) Define an enumdescript list environment.

```
57 \newlist{enumdesc}{enumerate}{2}
58 \setlist[enumdesc]{label=\arabic*.}
59 \newenvironment{enumdescript}[1] [] {
60 \begin{enumdesc} [#1]
61   \let\hep@item\item
62   \renewcommand{\item}[2] [] {%
63     \ifx###1&\hep@item\else\hep@item[##1]\fi%
64     \textbf{##2}\ifx##2\empty\else\hspace{1em}\fi%
65     \@ifnextchar\par\@gobble\relax%
66   }
67 }\end{enumdesc}}
```

</package>

B Readme

<*readme>

```
68 # The 'hep-text' package
69
70 List and text extensions
71
72 ## Introduction
73
74 The 'hep-text' package extends 'LaTeX' lists using the 'enumitem' package
75 and provides some text macros.
76
77 The package can be loaded by '\usepackage{hep-text}'.
78
79 ## Author
80
81 Jan Hajer
82
83 ## License
84
85 This file may be distributed and/or modified under the conditions of the
86 'LaTeX' Project Public License, either version 1.3c of this license or
87 (at your option) any later version. The latest version of this license is
88 in 'http://www.latex-project.org/lppl.txt' and version 1.3c or later is
89 part of all distributions of LaTeX version 2005/12/01 or later.
```

</readme>

References

- [1] J. Braams, J. Bezos, and at al. ‘Babel Localization and internationalization: Multilingual support for Plain $\text{T}_{\text{E}}\text{X}$ or $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ ’ (1989). CTAN: `babel`. GitHub: `latex3/babel`.
- [2] P. Lehman and J. Wright. ‘The `csquotes` Package: Context sensitive quotation facilities’ (2003). CTAN: `csquotes`.
- [3] P. G. Ratcliffe. ‘The `foreign` package for $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}_{2_{\epsilon}}$: Systematic treatment of “foreign” words in documents’ (2012). CTAN: `foreign`.
- [4] *L_AT_EX₃ Project*. ‘Hypertext marks in $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$: a manual for `hyperref`: Extensive support for hypertext in $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ ’ (1995). CTAN: `hyperref`. GitHub: `latex3/hyperref`.
- [5] D. Arseneau. ‘The `url` package: Verbatim with URL-sensitive line breaks’ (1996). CTAN: `url`.
- [6] J. Bezos. ‘Customizing lists with the `enumitem` package: Control layout of itemize, enumerate, description’ (2003). CTAN: `enumitem`. URL: texnia.com/enumitem.html. GitHub: `jbezos/enumitem`.
- [7] M. Franz. ‘The `soul` package: Hyphenation for letterspacing, underlining, and more’ (1998). CTAN: `soul`.
- [8] H. Oberdiek. ‘The `kvoptions` package: Key value format for package options’ (2004). CTAN: `kvoptions`. GitHub: `ho-tex/kvoptions`.
- [9] H. Oberdiek. ‘The `pdftexcmds` package: Lua $\text{T}_{\text{E}}\text{X}$ support for pdf $\text{T}_{\text{E}}\text{X}$ utility functions’ (2007). CTAN: `pdftexcmds`.
- [10] *L_AT_EX Team*. ‘The `xspace` package: Define commands that appear not to eat spaces’ (1993). CTAN: `xspace`.
- [11] D. Arseneau and M. Swift. ‘The `relsize` package: Set the font size relative to the current font size’ (2011). CTAN: `relsize`.
- [12] *L_AT_EX₃ Project*. ‘The `xparse` package: A generic document command parser’ (1999). CTAN: `xparse`.