

# The HEP-TEXT package\*

## List and text extensions

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### Abstract

The HEP-TEXT package extends L<sup>A</sup>T<sub>E</sub>X 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<sup>A</sup>T<sub>E</sub>X 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<sup>o</sup> 123.
- `\software` The `\software{<version>}{<name>}` macro is typeset as HEP-PAPER v1.4.
- `\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
- |   |   |
|---|---|
| <pre>\begin{inlinelist}   \item one   \item two   \item three \end{inlinelist}</pre>  | The three main points are i) one, ii) two, and iii) three.              |
| <pre>\begin{enumdescript}[label=\Roman*]   \item{First} one   \item{Second} two   \item{Third} three \end{enumdescript}</pre> | I) <b>First</b> one<br>II) <b>Second</b> two<br>III) <b>Third</b> three |
- `\underline` The `\underline` macro is redefined to allow line-breaks using the SOUL package [7].

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\*This document corresponds to HEP-TEXT v1.4.

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## 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  $N^{\circ}$  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.
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77 The package can be loaded by '\usepackage{hep-text}'.
78
79 ## Author
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81 Jan Hajer
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83 ## License
84
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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<sub>A</sub>T<sub>E</sub>X<sub>3</sub> 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](http://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<sub>A</sub>T<sub>E</sub>X 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<sub>A</sub>T<sub>E</sub>X<sub>3</sub> Project*. ‘The `xparse` package: A generic document command parser’ (1999). CTAN: `xparse`.