

The HEP-TEXT package*

List and text extensions

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Abstract

The HEP-TEXT package collects lightweight text utilities. It configures language-aware hyphenation, quotation marks, and Latin abbreviations through established L^AT_EX packages, adds helpers for software names, online references, email addresses, numero labels, prefix constructions, and line-breakable underlining, and defines compact inline and enumerated description lists based on ENUMITEM.

Load the package with `\usepackage{hep-text}`.

lang The `lang` option selects the document language. It accepts the language names understood by BABEL [1], which is loaded for hyphenation support.

\enquote CSQUOTES [2] provides context-sensitive quotation commands. The macros `\enquote{<text>}` and `\MakeOuterQuote{}` leave the choice of quotation marks to L^AT_EX. The latter also allows " to be used instead of the pair ‘ ‘ and ’ ’.

\eg The FOREIGN package [3] defines common Latin abbreviations such as `\eg`, `\ie`, `\cf`, and `\vs`. They are typeset as e.g., i.e., cf., and vs. with appropriate spacing. Redefine `\foreignabbrfont` to adjust their style, for example `\renewcommand\foreignabbrfont{\itshape}` for italic abbreviations.

\vs The `\no{<number>}` macro prints a numero sign followed by a non-breaking space, as in N^o 123.

\no The `\software[<version>]{<name>}` macro typesets software names in small caps, with optional version information, as in HEP-PAPER v1.5.

\online The `\online{<url>}{<text>}` macro links `<text>` to `<url>` when HYPERREF [4] is loaded and otherwise prints the text in a URL-like style, as in `ctan.org/pkg/hep-text`.

\email The `\email{<address>}` macro is shorthand for `\online{<mailto:address>}{<address>}`, as in `jan.hajer@tecnico.ulisboa.pt`.

\prefix The `\prefix{<prefix>}{<word>}` macro typesets prefix constructions with a permissible line break after the prefix, as in (pre-)selection.

\subsubparagraph The `\subsubparagraph` macro starts an unnumbered paragraph-level break with the same vertical spacing as `\paragraph` but without a heading.

inlinelist The `inlinelist` and `enumdescript` environments are built with ENUMITEM [5].

enumdescript

*This document corresponds to HEP-TEXT v1.5.

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The three main points are

```
\begin{inlinelist}
  \item one
  \item two
  \item three
\end{inlinelist}
```

The three main points are i) one, ii) two, and
iii) three.

```
\begin{enumdescript}[label=\Roman*]
  \item{First} one
  \item{Second} two
  \item{Third} three
\end{enumdescript}
```

I) **First** one
II) **Second** two
III) **Third** three

`\underline` The `\underline` macro is redefined with `soul` [6] so that underlined text can break across lines.

A Implementation

<*package>

Load `KVOPTIONS` [7] and set up the `heptext` option namespace.

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

`lang` Define the `lang` option, which accepts the language names provided by `BABEL` [1]. Use `british` as the default.

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

Load `BABEL` [1] for hyphenation and `CSQUOTES` [2] for quotation commands.

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

`\underline` Load `soul` [6] for underlined text that can break across lines.

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

Use `PDFTEXCMDS` [8] to map the selected language to the option expected by `FOREIGN`.

```
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 FOREIGN [3] for common foreign abbreviations and vocabulary. Add the missing `\vs` abbreviation.

```

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 [9]. Ensure that `\xspace` is compatible with the `\enquote` macro from CSQUOTES.

```

28 \xspaceaddeceptions{\csq@qclose@i}

```

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

```

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

```

`\software` Define `\software[<version>]{<name>}` for software names with optional version information, using RELSIZE [10] and XPARSE [11].

```

30 \RequirePackage{relsize}
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 `\online{<url>}{<text>}`, combining the link target of `\href` with the URL-style text of `\email \url`. Define `\email{<address>}` as a convenience wrapper.

```

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 `\prefix{<prefix>}{<word>}` with a controlled line break after the prefix.

```

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

```

`\subsubparagraph` Define `\subsubparagraph`, which starts a paragraph-level break without printing a 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 ENUMITEM [5].

```

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

```

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

```

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

```

`enumdescript` (*env.*) Define the enumerated description 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}}

```

Load NOINDENTAFTER [12] and suppress paragraph indentation after list environments.

```

68 \RequirePackage{noindentafter}
69 \NoIndentAfterEnv{itemize}
70 \NoIndentAfterEnv{enumerate}
71 \NoIndentAfterEnv{description}
72 \NoIndentAfterEnv{enumdescript}
73 \NoIndentAfterEnv{verbatim}

```

</package>

B Test

<*test>

```

74 \documentclass{article}
75

```

```

76 \usepackage[lang=american]{hep-text}
77 \usepackage{hyperref}
78
79 \begin{document}
80
81 \section{HEP-Text test}
82
83 Language selection: \language.
84
85 \MakeOuterQuote{"}
86 Quotation commands: \enquote{quoted text} and "outer quoted text".
87
88 Foreign abbreviations: \eg, \ie, \cf, and \vs.
89 \begin{group}
90 \renewcommand\foreignabbrfont{\itshape}
91 Styled foreign abbreviations: \eg, \ie, \cf, and \vs.
92 \end{group}
93
94 Numero labels: \no{123}.
95
96 Software names: \software{HEP-Text} and \software[v1.5]{HEP-Text}.
97
98 Online material:
99 \online{https://ctan.org/pkg/hep-text}
100 {ctan.org/pkg/hep-text}.
101 Email addresses: \email{jan.hajer@tecnico.ulisboa.pt}.
102
103 Prefix constructions: \prefix{pre}{selection} and \prefix{post}{processing}.
104
105 \subsubparagraph
106 This paragraph follows a heading-free paragraph-level break.
107
108 \begin{itemize}
109 \item An itemize entry.
110 \end{itemize}
111 This paragraph tests indentation after an itemize environment.
112
113 \begin{enumerate}
114 \item An enumerate entry.
115 \end{enumerate}
116 This paragraph tests indentation after an enumerate environment.
117
118 \begin{description}
119 \item[Term] A description entry.
120 \end{description}
121 This paragraph tests indentation after a description environment.
122
123 Inline lists:
124 \begin{inlinelist}
125 \item first

```

```

126 \item second
127 \item third
128 \end{inlinelist}
129
130 \begin{enumdescript}[label=\Roman*]]
131 \item{First} one
132 \item{Second} two
133 \item{Third} three
134 \end{enumdescript}
135 This paragraph tests indentation after an enumdescript environment.
136
137 \noindent\begin{minipage}{.35\linewidth}
138 \underline{This underlined sentence is long enough to wrap across
139 multiple lines.}
140 \end{minipage}
141
142 \end{document}
</test>

```

C Readme

```

<*readme>

143 # The 'hep-text' package
144
145 List and text extensions
146
147 ## Introduction
148
149 The 'hep-text' package collects lightweight text utilities. It configures
150 language-aware hyphenation, quotation marks, and Latin abbreviations
151 through established LaTeX packages; adds helpers for software names,
152 online references, email addresses, numero labels, prefix constructions,
153 and line-breakable underlining; and defines compact inline and enumerated
154 description lists based on 'enumitem'.
155
156 Load the package with '\usepackage{hep-text}'.
157
158 ## Author
159
160 Jan Hajer
161
162 ## License
163
164 This file may be distributed and/or modified under the conditions of the
165 'LaTeX' Project Public License, either version 1.3c of this license or
166 (at your option) any later version. The latest version of this license is
167 in 'http://www.latex-project.org/lppl.txt' and version 1.3c or later is
168 part of all distributions of LaTeX version 2005/12/01 or later.

```

</readme>

Change History

v1.0	General: Created the dedicated text package with language and quotation support, foreign abbreviations, text helpers, list environments, and line-breakable underlining.	1	README wrapping.	1	
			v1.3	General: Switched line-breakable underlining from soulutf8 to soul and adjusted list example layout.	1
v1.1	General: Disabled styling of foreign abbreviations by default, made software names safe in PDF strings, added subsubparagraph, and tightened enumdescript internals.	1	v1.4	General: Applied starred command definitions consistently.	1
			v1.5	General: Raised the LaTeX format requirement, bumped release metadata, expanded the user documentation, README, and tests, and added no-indent-after-list handling.	1
v1.2	General: Updated documentation formatting, package metadata, and				

References

- [1] J. Braams, J. Bezos, and at al. ‘**Babel** Localization and internationalization: Multilingual support for Plain $\text{\TeX}$ or $\text{\LaTeX}$ ’ (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: Systematic treatment of “foreign” words in documents’ (2012). CTAN: **foreign**.
- [4] *$\text{\LaTeX}3$ Project*. ‘Hypertext marks in $\text{\LaTeX}$: a manual for **hyperref**: Extensive support for hypertext in $\text{\LaTeX}$ ’ (1995). CTAN: **hyperref**. GitHub: **latex3/hyperref**.
- [5] 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**.
- [6] M. Franz. ‘The **soul** package: Hyphenation for letterspacing, underlining, and more’ (1998). CTAN: **soul**.
- [7] H. Oberdiek. ‘The **kvoptions** package: Key value format for package options’ (2004). CTAN: **kvoptions**. GitHub: **ho-tex/kvoptions**.
- [8] H. Oberdiek. ‘The **pdftexcmds** package: Lua $\text{\TeX}$ support for pdf $\text{\TeX}$ utility functions’ (2007). CTAN: **pdftexcmds**.
- [9] *$\text{\LaTeX}$ Team*. ‘The **xspace** package: Define commands that appear not to eat spaces’ (1993). CTAN: **xspace**.
- [10] D. Arseneau and M. Swift. ‘The **relsize** package: Set the font size relative to the current font size’ (2011). CTAN: **relsize**.
- [11] *$\text{\LaTeX}3$ Project*. ‘The **xparse** package: A generic document command parser’ (1999). CTAN: **xparse**.
- [12] M. Helvensteijn and F. Hanisch. ‘The **noindentafter** package: Prevent paragraph indentation after environments or macros’ (2014). CTAN: **noindentafter**.