

The enparen package

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Abstract

The package defines macros to set parentheses that automatically change the symbols from inner to outer fences.

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1 Documentation

The \LaTeX package provides macros for automatically changed parentheses symbols depending on the fence order. The innermost parentheses are always using the same parentheses. The symbols changes for the outer fences.

Example:

{a (b) [c (d)] (e)}

is generated by

```
\documentclass{article}
\usepackage{enparen}
\begin{document}
  \enparen{a \enparen{b} \enparen{c \enparen{d}} \enparen{e}}
\end{document}
```

The package is the result of a newsgroup thread. Dan gives the following specification [1]:

“On the other hand, the rules for fences are usually the reverse: innermost fences are always (), next outer are [], etc. This means the opening fence has to wait until all the fences between it and the matching close have been detected before it can decide whether to be (or [or {.”

The fence level counting starts from innermost parentheses with one. For the next outer fences the level is increased by one. The example above with level indexes:

$$\{_{3}a (_{1}b)_{1} [_{2}c (_{1}d)_{1}]_{2} (e)\}_{3}$$

The correct level is only known at the closing symbol. Therefore the correct value is remembered in the main .aux file and used in the second L^AT_EX run.

1.1 User macros

`\enparen {text}`

The macro `\enparen` puts its argument *text* in parentheses. If the macro is nested, the used fence symbols change for the outer fences.

`\enparenLeft`
`\enparenRight`

Instead of `\enparen{text}` the left and right symbol can be used separately, but in pairs:

```
\enparenLeft text\enparenRight
```

`\enparenLeft` and `\enparenRight` may be used at different group levels, but they must be properly nested.

`\enparenSetSymbols {level} {opening symbol} {closing symbol}`

Macro `\enparenSetSymbols` configures the *opening symbol* and *closing symbol* for the *level*. The *level* is a number and the counting starts with one. Level zero is used, if the correct level is not known (e.g. in the first L^AT_EX run). The package defines the following sets:

```
\enparenSetSymbols{0}{\{ }\}
\enparenSetSymbols{1}{\{ }\}
\enparenSetSymbols{2}{\[ \]}
\enparenSetSymbols{3}{\{ \}}
```

Example for changing the third and adding a fourth level:

```
\enparenSetSymbols{3}{\ensuremath{\langle}}{\ensuremath{\rangle}}
\enparenSetSymbols{4}{\{ \}}
```

```
\enparenUnsetSymbols {<level>}
```

The symbols for level *<level>* are removed. Example scenario: Only two nesting levels must be used, the package defines more, then the third level can be disabled by `\enparenUnsetSymbols{3}` and the user gets warnings if parentheses at level 3 are needed.

1.2 Contexts

```
\enparenBeginContext {<name>}  
\enparenEndContext {<name>}
```

If the current text is interrupted by footnotes, floats with captions, then the parentheses inside the text of footnotes, captions, ...should restart from scratch. This can be achieved by embedding the text inside macros `\enparenBeginContext` and `\enparenEndContext`. These macros must be properly nested. The *<name>* for the begin and end macro must be the same. It is a help for debugging problems, because the warning messages show the context name. But it is not necessary that the begin/end pairs have different names. Example:

```
\enparenLeft text before table ...  
\begin{table}  
  \caption{Table caption}  
  \enparenBegin{Context}{table}  
  Other text \enparen{foobar}.  
  \enparenEnd{Context}{table}  
\end{table}  
text after table ...  
\enparenRight
```

The parentheses inside the table environment and context ‘table’ are not nested inside other parentheses: (foobar). In case of captions and footnotes the contexts are automatically added, see next section about options.

1.3 Options

```
\enparenSetup {<key value list>}
```

Some options (currently all) can also be set after the package is loaded. They can be set in the argument *<key value list>* of `\enparenSetup`. Options are disabled after they are used the last time. Currently all options are boolean options and are disabled in `\begin{document}`.

caption: The caption text is put in a context `caption`.

footnote: The footnote text is put in a context `footnote`.

Example for disabling the two options at different places:

```
\usepackage[caption=false]{enparen}  
\enparenSetup{footnote=false}
```

1.4 Notes

Implicite kerning: Unexpandable stuff might affect the implicite kerning. The package cannot avoid this, because it need to define and redefine macros at the occurrence of each symbol. This is done before the opening and after the closing symbol, thus that the implicite kerning inside is not affected.

2 Implementation

```
1 (*package)
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{enparen}
4 [2012/01/07 v1.0 Parentheses nesting (HO)]%
```

2.1 Resources

```
5 \RequirePackage{ltxcms}[2011/11/09]
6 \ltx@ifundefined{numexpr}{%
7   \PackageError{enparen}{%
8     Missing e-TeX's \ltx@backslashchar numexpr.\MessageBreak
9     The package will continue with emergency definitions%
10  }{@ehc}
11  \def\enparenLeft{(%}
12  \def\enparenRight{)%}
13  \long\def\enparen#1{\enparenLeft#1\enparenRight}%
14  \let\enparenSetup\ltx@gobble
15  \let\enparenSetSymbols\ltx@gobblethree
16  \let\enparenUnsetSymbols\ltx@gobble
17  \endinput
18 }{}

19 \RequirePackage{protecteddef}[2011/01/31]
20 \RequirePackage{atveryend}[2011/06/30]
21 \RequirePackage{uniquecounter}[2011/01/30]
22 \RequirePackage{zref-base}[2011/03/18]
23 \RequirePackage{kvoptions}[2011/06/30]
24 \RequirePackage{kvsetkeys}[2011/10/18]
```

`\zref@wrapper@mainaux`

```
25 \providecommand{\zref@wrapper@mainaux}[1]{%
26   \ifx\@auxout\@mainaux
27     #1%
28   \else
29     \begingroup
30       \let\@auxout\@mainaux
31       #1%
32     \endgroup
33   \fi
34 }

35 \UniqueCounterNew{enparen}
36 \zref@newprop{enparen}[0]{}
```

2.2 Contexts

`\enparenContextDefault`

```
37 \def\enparenContextDefault{main}
```

`\enparen@ctx`

```
38 \let\enparen@ctx\ltx@empty
```

`\enparen@stack`

```
39 \let\enparen@stack\ltx@empty
```

2.2.1 Stack for contexts

`\enparen@CtxStack`

```
40 \global\let\enparen@CtxStack\ltx@empty
```

`\enparen@CtxStackPush`

```
41 \def\enparen@CtxStackPush#1{%
42   \xdef\enparen@CtxStack{%
43     {\enparen@ctx}{\enparen@stack}%
44     \enparen@CtxStack
45   }%
46   \xdef\enparen@ctx{#1}%
47   \global\let\enparen@stack\ltx@empty
48 }
```

`\enparen@CtxStackPop`

```
49 \def\enparen@CtxStackPop{%
50   \ifx\enparen@CtxStack\ltx@empty
51     \PackageWarning{enparen}{%
52       Pop request for empty context stack%
53     }%
54     \global\let\enparen@ctx\enparenContextDefault
55     \global\let\enparen@stack\ltx@empty
56   \else
57     \xdef\enparen@ctx{%
58       \expandafter\ltx@car\enparen@CtxStack\@nil
59     }%
60     \xdef\enparen@stack{%
61       \expandafter\ltx@carsecond\enparen@CtxStack\@nil
62     }%
63     \xdef\enparen@CtxStack{%
64       \expandafter\ltx@cdrtwo\enparen@CtxStack\@nil
65     }%
66   \fi
67 }
```

2.2.2 Context user macros

`\enparenBeginContext`

```
68 \ProtectedDef*{\enparenBeginContext}[1]{%
69   \enparen@CtxStackPush{#1}%
70 }
```

`\enparenEndContext`

```
71 \ProtectedDef*{\enparenEndContext}[1]{%
72   \edef\enparen@temp{#1}%
73   \ifx\enparen@temp\enparen@ctx
74     \else
75       \PackageWarning{enparen}{%
76         Context mismatch in end request.\MessageBreak
77         `#1' should be ended, but current context\MessageBreak
78         is \enparen@ctx'%
79       }%
80     \fi
81     \enparenCheckEmptyStack
82     \enparen@CtxStackPop
83 }
```

`\enparenCheckEmptyStack`

```
84 \ProtectedDef*{\enparenCheckEmptyStack}[0]{%
85   \ifx\enparen@stack\ltx@empty
86     \else
87       \PackageWarning{enparen}{%
88         Ending non-empty stack \enparen@ctx':\MessageBreak
89         \enparen@PrintStack\MessageBreak
90       }%
91     \fi
```

```
92 }
```

```
\enparen@PrintStack
```

```
93 \def\enparen@PrintStack{%  
94   \expandafter\enparen@PrintStackAux  
95   \enparen@stack\ltx@empty\ltx@empty  
96 }
```

```
\enparen@PrintStackAux
```

```
97 \def\enparen@PrintStackAux#1#2{%  
98   \ifx\ltx@empty#1%  
99   \else  
100     {#1:#2}%  
101     \expandafter\enparen@PrintStackAux  
102   \fi  
103 }
```

2.3 Symbols

```
\enparenSetSymbols
```

```
104 \ProtectedDef*\enparenSetSymbols}[3]{%  
105   \expandafter  
106   \def\csname enparen@symbol\the\numexpr#1L\endcsname{#2}%  
107   \expandafter  
108   \def\csname enparen@symbol\the\numexpr#1R\endcsname{#3}%  
109 }
```

```
\enparenUnsetSymbols
```

```
110 \ProtectedDef*\enparenUnsetSymbols}[1]{%  
111   \expandafter  
112   \let\csname enparen@symbol\the\numexpr#1L\endcsname\ltx@undefined  
113   \expandafter  
114   \let\csname enparen@symbol\the\numexpr#1R\endcsname\ltx@undefined  
115 }  
  
116 \enparenSetSymbols{0}{\{-\}}  
117 \enparenSetSymbols{1}{\{\}\}}  
118 \enparenSetSymbols{2}{\{\}\}}  
119 \enparenSetSymbols{3}{\{\}\}}  
120 \enparenSetSymbols{4}{\ensuremath{\langle}\}\{\ensuremath{\rangle}\}}
```

2.4 Main user macros

```
\enparen
```

```
121 \ProtectedDef{\enparen}[1]{%  
122   \enparenLeft#1\enparenRight  
123 }
```

```
\enparenLeft
```

```
124 \ProtectedDef*\enparenLeft}[0]{%  
125   \UniqueCounterCall{enparen}\enparen@Left  
126 }
```

```
\enparen@Left
```

```
127 \def\enparen@Left#1{%  
128   \xdef\enparen@stack{%  
129     {#1}{1}%  
130     \expandafter\enparen@Inc\expandafter2\expandafter!%  
131     \enparen@stack\ltx@empty\ltx@empty  
132   }%  
133   \edef\enparen@tmp{\zref@extract{enparen#1}{enparen}}%
```

```

134 \ltx@ifundefined{enparen@symbol\enparen@tmp L}{%
135   \PackageWarning{enparen}{%
136     Undefined symbols for level \enparen@tmp
137   }%
138   \csname enparen@symbol0L\endcsname
139 }{%
140   \csname enparen@symbol\enparen@tmp L\endcsname
141 }%
142 }

```

`\enparen@Inc`

```

143 \def\enparen@Inc#1#2#3{%
144   \ifx\ltx@empty#2%
145   \else
146     \ifnum#3<#1 %
147       {#2}{#1}%
148       \expandafter\enparen@Inc
149       \the\numexpr#1+1\expandafter\expandafter\expandafter!%
150     \else
151       {#2}{#3}%
152     \fi
153   \fi
154 }

```

`\enparenRight`

```

155 \ProtectedDef*{\enparenRight}[0]{%
156   \ifx\enparen@stack\ltx@empty
157   \PackageWarning{enparen}{%
158     Missing left symbol for right symbol%
159   }%
160   \csname enparen@symbol0R\endcsname
161   \else
162   \expandafter\enparen@Right\enparen@stack\@nil
163   \fi
164 }

```

`\enparen@Right`

```

165 \def\enparen@Right#1#2#3\@nil{%
166   \ltx@ifundefined{%
167     enparen@symbol%
168     \zref@extract{enparen#1}{enparen}%
169     R%
170   }{%
171     \csname enparen@symbol0R\endcsname
172   }{%
173     \csname
174       enparen@symbol%
175       \zref@extract{enparen#1}{enparen}%
176       R%
177     \endcsname
178   }%
179   \zref@wrapper@mainaux{%
180     \zref@setcurrent{enparen}{#2}%
181     \zref@labelbyprops{enparen#1}{enparen}%
182   }%
183   \xdef\enparen@stack{#3}%
184 }

```

2.5 Options

```

185 \SetupKeyvalOptions{%
186   family=enparen,%

```

```
187 prefix=enparen@,%
188 }
```

`\enparenSetup`

```
189 \ProtectedDef*{\enparenSetup}[0]{%
190   \kvsetkeys{enparen}%
191 }

192 \DeclareBoolOption[true]{footnote}
193 \DeclareBoolOption[true]{caption}
194 \ProcessKeyvalOptions*
```

2.6 Context settings

`\enparen@AtBegin`

```
195 \def\enparen@AtBegin{%
196   \ifenparen@footnote
197     \let\enparen@org@makefntext\@makefntext
198     \long\def\@makefntext##1{%
199       \enparen@org@makefntext{%
200         \enparenBeginContext{footnote}%
201         ##1%
202         \enparenEndContext{footnote}%
203       }%
204     }%
205   \fi
206   \enparen@Disable{footnote}%
207   \ifenparen@caption
208     \let\enparen@org@makecaption\@makecaption
209     \long\def\@makecaption##1##2{%
210       \enparen@org@makecaption{##1}{%
211         \enparenBeginContext{caption}%
212         ##2%
213         \enparenEndContext{caption}%
214       }%
215     }%
216   \fi
217   \enparen@Disable{caption}%
218 }
```

`\enparen@Disable`

```
219 \def\enparen@Disable#1{%
220   \DisableKeyvalOption[%
221     action=warning,%
222     package=enparen,%
223   ]{enparen}{#1}%
224 }

225 \AtBeginDocument{\enparen@AtBegin}
```

2.7 At end of document

`\enparen@AtEnd`

```
226 \def\enparen@AtEnd{%
227   \enparenCheckEmptyStack
228   \ifx\enparen@CtxStack\ltx@empty
229   \else
230     \PackageWarningNoLine{enparen}{%
231       Context stack is not empty at end of document.\MessageBreak
232       Current stack and contents of context stack:\MessageBreak
233       [\enparen@ctx]: [\enparen@PrintStack]%
234     }
235   \expandafter
```



```

235     \enparen@PrintContextStack\enparen@CtxStack\relax\relax
236   }%
237 \fi
238 }

\enparen@PrintContextStack

239 \def\enparen@PrintContextStack#1#2{%
240   \ifx\relax#1\ltx@empty
241   \else
242     \MessageBreak
243     [#1]:[\enparen@PrintStackAux#2\ltx@empty\ltx@empty]% hash-ok
244     \expandafter\enparen@PrintContextStack
245   \fi
246 }

247 \AtVeryEndDocument{\enparen@AtEnd}
248 \</package>

```

3 Installation

3.1 Download

Package. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/oberdiek/enparen.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/enparen.pdf](#) Documentation.

Bundle. All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

[CTAN:install/macros/latex/contrib/oberdiek.tds.zip](#)

TDS refers to the standard “A Directory Structure for \TeX Files” ([CTAN:tds/tds.pdf](#)). Directories with `texmf` in their name are usually organized this way.

3.2 Bundle installation

Unpacking. Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

Script installation. Check the directory `TDS:scripts/oberdiek/` for scripts that need further installation steps. Package `attachfile2` comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

3.3 Package installation

Unpacking. The `.dtx` file is a self-extracting docstrip archive. The files are extracted by running the `.dtx` through plain \TeX :

```
tex enparen.dtx
```

¹<http://ftp.ctan.org/tex-archive/>

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

```
enparen.sty → tex/latex/oberdiek/enparen.sty
enparen.pdf → doc/latex/oberdiek/enparen.pdf
enparen.dtx → source/latex/oberdiek/enparen.dtx
```

If you have a `docstrip.cfg` that configures and enables `docstrip`'s TDS installing feature, then some files can already be in the right place, see the documentation of `docstrip`.

3.4 Refresh file name databases

If your $\text{T}_{\text{E}}\text{X}$ distribution (`te $\text{T}_{\text{E}}\text{X}$` , `mik $\text{T}_{\text{E}}\text{X}$` , ...) relies on file name databases, you must refresh these. For example, `te $\text{T}_{\text{E}}\text{X}$` users run `texhash` or `mktextlsr`.

3.5 Some details for the interested

Attached source. The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk enparen.pdf unpack_files output .
```

Unpacking with $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$. The `.dtx` chooses its action depending on the format:
plain $\text{T}_{\text{E}}\text{X}$: Run `docstrip` and extract the files.

$\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$: Generate the documentation.

If you insist on using $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ for `docstrip` (really, `docstrip` does not need $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{enparen.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

Generating the documentation. You can use both the `.dtx` or the `.drv` to generate the documentation. The process can be configured by the configuration file `ltxdoc.cfg`. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with `pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$` :

```
pdflatex enparen.dtx
makeindex -s gind.ist enparen.idx
pdflatex enparen.dtx
makeindex -s gind.ist enparen.idx
pdflatex enparen.dtx
```

4 References

- [1] Dan Luecking: *Re: bracket order*; newsgroup `comp.text.tex`; message id `(9b07c9c8-ff92-4cbf-b3a9-84efecfeb506@124g2000yqm.googlegroups.com)` 2012-01-05. <http://groups.google.com/group/comp.text.tex/msg/8774519da31c2352>

5 History

[2012/01/07 v1.0]

- First version.

6 Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

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