

# The `telprint` package

Heiko Oberdiek  
<heiko.oberdiek at googlemail.com>

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## Abstract

Package `telprint` provides \`telprint` for formatting German phone numbers.

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# 1 Documentation

## 1.1 Introduction

This is a very old package that I have written to format phone numbers. It follows German conventions and the documentation is mainly in German.

## 1.2 Short overview in English

LATEX:

```
\usepackage{telprint}
\telprint{123/456-789}
```

plain TEX:

```
\input telprint.sty
\telprint{123/456-789}
```

`\telprint` `\telprint{...}` formats the explicitly given number. Digits, spaces and some special characters ('+', '/', '·', '(', ')', '~, '·') are supported. Numbers are divided into groups of two digits from the right. Examples:

```
\telprint{0761/12345}    ==> 07\,61/1\,23\,45
\telprint{01234/567-89} ==> 0\,12\,34/5\,67\leavevmode\hbox{-}89
\telprint{+49 (6221) 297} ==> +49~(62\,21)~2\,97
```

### 1.2.1 Configuration

The output of the symbols can be configured by `\telhyphen`, `\telslash`, `\telleftparen`, `\telrightparen`, `\telplus`, `\teltilde`. Example:

```
\telslash{\,/\,}\ \telprint{12/34} ==> 12\,/\,34
```

`\telspace` `\telspace` configures the space between digit groups.

`\telnumber` only formats a number in digit groups; special characters are not recognized.

## 1.3 Documentation in German

`\telprint`

- `telprint#1`

Der eigentliche Anwenderbefehl zur formatierten Ausgabe von Telefonnummern. Diese dürfen dabei nur als Zahlen angegeben werden (, da sie tokenweise analysiert werden). Als Trenn- oder Sonderzeichen werden unterstützt: '+', '/', '·', '(', ')', '~, '·' Einfache Leerzeichen werden erkannt und durch Tilden ersetzt, um Trennungen in der Telefonnummer zu verhindern. (Man beachte aus gleichem Grunde die `\hbox` bei '·'.) Beispiele:

```
\telprint{0761/12345}    ==> 07\,61/1\,23\,45
\telprint{01234/567-89} ==> 0\,12\,34/5\,67\leavevmode\hbox{-}89
\telprint{+49 (6221) 297} ==> +49~(62\,21)~2\,97
```

Der Rest enthält eher Technisches:

`\telspace`

- `\telspace#1`

Mit diesem Befehl wird der Abstand zwischen den Zifferngruppen angegeben (Default: \,). (Durch `\telspace{}` kann dieser zusätzliche Abstand abgestellt werden.)

- |   |   |
|---|---|
| <pre>\telhyphen</pre>   | <ul style="list-style-type: none"> <li>• <code>\telhyphen#1</code><br/>Dieser Befehl gibt die Art des Bindestriches, wie er ausgegeben werden soll. In der Eingabe darf jedoch nur der einfache Bindestrich stehen: <code>\telprint{123-45}</code>, jedoch NICHT <code>\telprint{123--45}</code>! Kopka-Bindestrich-Fans geben an: <code>\telhyphen{\leavevmode\hbox{--}}</code></li> </ul>   |
| <pre>\telslash \telleftparen \telrightparen \telplus \teltilde \telnumber</pre> | <ul style="list-style-type: none"> <li>• <code>\telslash#1, \telleftparen#1, \telrightparen#1, \telplus#1, \teltilde</code><br/>Diese Befehle konfigurieren die Zeichen '/', '(', ')', '+' und '~'. Sie funktionieren analog zu <code>\telhyphen</code>.</li> </ul>   |
|   | <ul style="list-style-type: none"> <li>• <code>\telnumber#1</code><br/>Richtung interner Befehl: Er dient dazu, eine Zifferngruppe in Zweiergruppen auszugeben. Die einzelnen Zahlen werden im Tokenregister <code>\TELtoks</code> gespeichert. Abwechselnd werden dabei zwischen zwei Token (Zahlen) <code>\TELx</code> bzw. <code>\TELy</code> eingefügt, abhängig von dem wechselnden Wert von <code>\TELswitch</code>. Zum Schluss kann dann einfach festgestellt werden ob die Nummer nun eine geradzahlige oder ungeradzahlige Zahl von Ziffern aufwies. Dem entsprechend wird <code>\TELx</code> mit dem Zusatzabstand belegt und <code>\TELy</code> leer definiert oder umgekehrt. )</li> </ul> |
|   | <ul style="list-style-type: none"> <li>• <code>\TEL... interne Befehle, Technisches:</code><br/><code>\TELsplit</code> dient zur Aufteilung einer zusammengesetzten Telefonnummer (Vorwahl, Hauptnummer, Nebenstelle). In dieser Implementation werden als Trennzeichen nur '/' und '-' erkannt. Die einzelnen Bestandteile wie Vorwahl werden dann dem Befehl <code>\telnumber</code> zur Formatierung uebergeben.</li> </ul>  |
|   | <ul style="list-style-type: none"> <li>• Die Erkennung von einfachen Leerzeichen ist um einiges schwieriger: Die Tokentrennung ueber Parameter <code>#1#2</code> funktioniert nicht für einfache Leerzeichen, da TeX sie <i>niemals</i> als eigenständige Argumente behandelt! (The TeXbook, Chapter 20, p. 201)<br/>(Anmerkung am Rande: Deshalb funktionieren die entsprechenden Tokenmakros auf S. 149 des Buches „Einführung in TeX“ von N. Schwarz (3. Aufl.) nicht, wenn im Tokenregister als erstes ein einfaches Leerzeichen steht!)</li> </ul>   |

## 2 Implementation

1 `(*package)`

### 2.1 Reload check and package identification

Reload check, especially if the package is not used with L<sup>A</sup>T<sub>E</sub>X.

```
2 \begingroup\catcode61\catcode48\catcode32=10\relax%
3   \catcode13=5 % ^M
4   \endlinechar=13 %
5   \catcode35=6 % #
6   \catcode39=12 % '
7   \catcode44=12 % ,
8   \catcode45=12 % -
9   \catcode46=12 % .
10  \catcode58=12 % :
11  \catcode64=11 % @
12  \catcode123=1 % {
13  \catcode125=2 % }
14  \expandafter\let\expandafter\x\csname ver@telprint.sty\endcsname
15  \ifx\x\relax % plain-TeX, first loading
16  \else
17    \def\empty{}%
18    \ifx\x\empty % LaTeX, first loading,
19      % variable is initialized, but \ProvidesPackage not yet seen
20    \else
```

```

21      \expandafter\ifx\csname PackageInfo\endcsname\relax
22          \def\x#1#2{%
23              \immediate\write-1{Package #1 Info: #2.}%
24          }%
25      \else
26          \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
27      \fi
28      \x{telprint}{The package is already loaded}%
29      \aftergroup\endinput
30  \fi
31 \fi
32 \endgroup%

```

Package identification:

```

33 \begingroup\catcode61\catcode48\catcode32=10\relax%
34   \catcode13=5 % ^~M
35   \endlinechar=13 %
36   \catcode35=6 % #
37   \catcode39=12 % '
38   \catcode40=12 % (
39   \catcode41=12 % )
40   \catcode44=12 % ,
41   \catcode45=12 % -
42   \catcode46=12 % .
43   \catcode47=12 % /
44   \catcode58=12 % :
45   \catcode64=11 % @
46   \catcode91=12 % [
47   \catcode93=12 % ]
48   \catcode123=1 % {
49   \catcode125=2 % }
50   \expandafter\ifx\csname ProvidesPackage\endcsname\relax
51       \def\x#1#2#3[#4]{\endgroup
52           \immediate\write-1{Package: #3 #4}%
53           \xdef#1[#4]%
54       }%
55   \else
56       \def\x#1#2[#3]{\endgroup
57           #2[{#3}]%
58           \ifx#1\undefined
59               \xdef#1[#3]%
60           \fi
61           \ifx#1\relax
62               \xdef#1[#3]%
63           \fi
64       }%
65   \fi
66 \expandafter\x\csname ver@telprint.sty\endcsname
67 \ProvidesPackage{telprint}%
68   [2008/08/11 v1.10 Format German phone numbers (HO)]%

```

## 2.2 Catcodes

```

69 \begingroup\catcode61\catcode48\catcode32=10\relax%
70   \catcode13=5 % ^~M
71   \endlinechar=13 %
72   \catcode123=1 % {
73   \catcode125=2 % }
74   \catcode64=11 % @
75   \def\x{\endgroup
76   \expandafter\edef\csname TELAtEnd\endcsname{%
77       \endlinechar=\the\endlinechar\relax
78       \catcode13=\the\catcode13\relax

```

```

79      \catcode32=\the\catcode32\relax
80      \catcode35=\the\catcode35\relax
81      \catcode61=\the\catcode61\relax
82      \catcode64=\the\catcode64\relax
83      \catcode123=\the\catcode123\relax
84      \catcode125=\the\catcode125\relax
85      }%
86  }%
87 \x\catcode61\catcode48\catcode32=10\relax%
88 \catcode13=5 % ^~M
89 \endlinechar=13 %
90 \catcode35=6 % #
91 \catcode64=11 % @
92 \catcode123=1 % {
93 \catcode125=2 % }
94 \def\TMP@EnsureCode#1#2{%
95   \edef\TELAtEnd{%
96     \TELAtEnd
97     \catcode#1=\the\catcode#1\relax
98   }%
99   \catcode#1=#2\relax
100 }%
101 \TMP@EnsureCode{33}{12}!%
102 \TMP@EnsureCode{36}{3}$%
103 \TMP@EnsureCode{40}{12}(%
104 \TMP@EnsureCode{41}{12})%
105 \TMP@EnsureCode{42}{12}*%
106 \TMP@EnsureCode{43}{12}+%
107 \TMP@EnsureCode{44}{12},%
108 \TMP@EnsureCode{45}{12}-%
109 \TMP@EnsureCode{46}{12}.%
110 \TMP@EnsureCode{47}{12}/%
111 \TMP@EnsureCode{91}{12}[%
112 \TMP@EnsureCode{93}{12}]%
113 \TMP@EnsureCode{126}{13}~(active)
114 \edef\TELAtEnd{\TELAtEnd\noexpand\endinput}

```

### 2.3 Package macros

```

115 \ifx\DeclareRobustCommand\UnDeFiNeD
116   \def\DeclareRobustCommand*#1[1]{\def#1##1}%
117   \def\TELreset{\let\DeclareRobustCommand=\UnDeFiNeD}%
118   \input infwarerr.sty\relax
119   \PackageInfo{telprint}{%
120     Macros are not robust!}%
121   }%
122 \else
123   \let\TELreset=\relax
124 \fi

\telspace
125 \DeclareRobustCommand*{\telspace}[1]{\def\TELspace{#1}}
126 \telspace{[]$,${}}

\telhyphen
127 \DeclareRobustCommand*{\telhyphen}[1]{\def\TELhyphen{#1}}
128 \telhyphen{\leavevmode\hbox{-}}% \hbox zur Verhinderung der Trennung

\telslash
129 \DeclareRobustCommand*{\telslash}[1]{\def\TELslash{#1}}
130 \telslash{/}%

\telleftparen

```

```

131 \DeclareRobustCommand*{\telleftparen}[1]{\def\TELleftparen{\#1}}
132 \telleftparen{()}

\telrightparen
133 \DeclareRobustCommand*{\telrightparen}[1]{\def\TELrightparen{\#1}}
134 \telrightparen{}}

\telplus
135 \DeclareRobustCommand*{\telplus}[1]{\def\TELplus{\#1}}
136 \telplus{+}%

\teltilde
137 \DeclareRobustCommand*{\teltilde}[1]{\def\TELtilde{\#1}}
138 \teltilde{-}%

\TELtoks
139 \newtoks\TELtoks

\TELnumber
140 \def\TELnumber#1#2\TELnumberEND{%
141   \begingroup
142   \def\O{\#2}%
143   \expandafter\endgroup
144   \ifx\O\empty
145     \TELtoks=\expandafter{\the\TELtoks#1}%
146     \ifnum\TELswitch=0 %
147       \def\TELx{\TELspace}\def\TELy{}%
148     \else
149       \def\TELx{}\def\TELy{\TELspace}%
150     \fi
151     \the\TELtoks
152   \else
153     \ifnum\TELswitch=0 %
154       \TELtoks=\expandafter{\the\TELtoks#1\TELx}%
155       \def\TELswitch{1}%
156     \else
157       \TELtoks=\expandafter{\the\TELtoks#1\TELy}%
158       \def\TELswitch{0}%
159     \fi
160   \TELnumber#2\TELnumberEND
161   \fi
162 }

\telnumber
163 \DeclareRobustCommand*{\telnumber}[1]{%
164   \TELtoks={}
165   \def\TELswitch{0}%
166   \TELnumber#1{}\TELnumberEND
167 }

\TELsplit
168 \def\TELsplit{\futurelet\TELfuture\TELdosplit}

\TELdosplit
169 \def\TELdosplit#1#2\TELsplitEND
170 {%
171   \def\TELsp{ }%
172   \expandafter\ifx\TELsp\TELfuture
173     \let\TELfuture=\relax
174     \expandafter\telnumber\expandafter{\the\TELtoks}~%
175     \telprint{\#1#2} Das Leerzeichen kann nicht #1 sein!
176   \else

```

```

177  \def\TELfirst{\#1}%
178  \ifx\TELfirst\empty
179    \expandafter\telnumber\expandafter{\the\TELtoks}%
180    \TELtoks={}%
181  \else\if-\TELfirst
182    \expandafter\telnumber\expandafter{\the\TELtoks}\TELhyphen
183    \telprint{\#2}%
184  \else\if/\TELfirst
185    \expandafter\telnumber\expandafter{\the\TELtoks}\TELslash
186    \telprint{\#2}%
187  \else\if(\TELfirst
188    \expandafter\telnumber\expandafter{\the\TELtoks}\TELleftparen
189    \telprint{\#2}%
190  \else\if)\TELfirst
191    \expandafter\telnumber\expandafter{\the\TELtoks}\TELrightparen
192    \telprint{\#2}%
193  \else\if+\TELfirst
194    \expandafter\telnumber\expandafter{\the\TELtoks}\TELplus
195    \telprint{\#2}%
196  \else\def\TELtemp{~}\ifx\TELtemp\TELfirst
197    \expandafter\telnumber\expandafter{\the\TELtoks}\TELtilde
198    \telprint{\#2}%
199  \else
200    \TELtoks=\expandafter{\the\TELtoks\#1}%
201    \TELsplit{\#2}\TELsplitEND
202    \fi\fi\fi\fi\fi\fi\fi
203 \fi
204 }

\telprint
205 \DeclareRobustCommand*\telprint}[1]{%
206   \TELtoks={}%
207   \TELsplit{\#1}\TELsplitEND
208 }

209 \TELreset\let\TELreset=\UnDeFiNeD
210 \TELAtEnd%
211 
```

### 3 Test

#### 3.1 Catcode checks for loading

```

212 <*test1>
213 \catcode`\#=1 %
214 \catcode`\#=2 %
215 \catcode`\#=6 %
216 \catcode`\@=11 %
217 \expandafter\ifx\csname count@\endcsname\relax
218   \countdef\count@=255 %
219 \fi
220 \expandafter\ifx\csname @gobble\endcsname\relax
221   \long\def\@gobble{\#1}%
222 \fi
223 \expandafter\ifx\csname @firstofone\endcsname\relax
224   \long\def\@firstofone{\#1}%
225 \fi
226 \expandafter\ifx\csname loop\endcsname\relax
227   \expandafter\@firstofone
228 \else
229   \expandafter\@gobble

```

```

230 \fi
231 }%
232   \def\loop#1\repeat{%
233     \def\body{#1}%
234     \iterate
235   }%
236   \def\iterate{%
237     \body
238     \let\next\iterate
239     \else
240       \let\next\relax
241     \fi
242     \next
243   }%
244   \let\repeat=\fi
245 }%
246 \def\RestoreCatcodes{}%
247 \count@=0 %
248 \loop
249   \edef\RestoreCatcodes{%
250     \RestoreCatcodes
251     \catcode\the\count@=\the\catcode\count@\relax
252   }%
253 \ifnum\count@<255 %
254   \advance\count@ 1 %
255 \repeat
256
257 \def\RangeCatcodeInvalid#1#2{%
258   \count@=#1\relax
259   \loop
260     \catcode\count@=15 %
261   \ifnum\count@<#2\relax
262     \advance\count@ 1 %
263   \repeat
264 }
265 \def\RangeCatcodeCheck#1#2#3{%
266   \count@=#1\relax
267   \loop
268     \ifnum#3=\catcode\count@
269     \else
270       \errmessage{%
271         Character \the\count@\space
272         with wrong catcode \the\catcode\count@\space
273         instead of \number#3%
274       }%
275     \fi
276   \ifnum\count@<#2\relax
277     \advance\count@ 1 %
278   \repeat
279 }
280 \def\space{ }
281 \expandafter\ifx\csname LoadCommand\endcsname\relax
282   \def\LoadCommand{\input telprint.sty\relax}%
283 \fi
284 \def\Test{%
285   \RangeCatcodeInvalid{0}{47}%
286   \RangeCatcodeInvalid{58}{64}%
287   \RangeCatcodeInvalid{91}{96}%
288   \RangeCatcodeInvalid{123}{255}%
289   \catcode`\@=12 %
290   \catcode`\\=0 %
291   \catcode`\%=14 %

```

```

292 \LoadCommand
293 \RangeCatcodeCheck{0}{36}{15}%
294 \RangeCatcodeCheck{37}{37}{14}%
295 \RangeCatcodeCheck{38}{47}{15}%
296 \RangeCatcodeCheck{48}{57}{12}%
297 \RangeCatcodeCheck{58}{63}{15}%
298 \RangeCatcodeCheck{64}{64}{12}%
299 \RangeCatcodeCheck{65}{90}{11}%
300 \RangeCatcodeCheck{91}{91}{15}%
301 \RangeCatcodeCheck{92}{92}{0}%
302 \RangeCatcodeCheck{93}{96}{15}%
303 \RangeCatcodeCheck{97}{122}{11}%
304 \RangeCatcodeCheck{123}{255}{15}%
305 \RestoreCatcodes
306 }
307 \Test
308 \csname @@end\endcsname
309 \end
310 </test1>

```

## 4 Installation

### 4.1 Download

**Package.** This package is available on CTAN<sup>1</sup>:

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

[CTAN:macros/latex/contrib/oberdiek/telprint.pdf](http://CTAN:macros/latex/contrib/oberdiek/telprint.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](http://CTAN:install/macros/latex/contrib/oberdiek.tds.zip)

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

### 4.2 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 `TDSScripts/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/
```

### 4.3 Package installation

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

```
tex telprint.dtx
```

---

<sup>1</sup>[ftp://ftp.ctan.org/tex-archive/](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):

```
telprint.sty          → tex/generic/oberdiek/telprint.sty
telprint.pdf         → doc/latex/oberdiek/telprint.pdf
test/telprint-test1.tex → doc/latex/oberdiek/test/telprint-test1.tex
telprint.dtx          → source/latex/oberdiek/telprint.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`.

#### 4.4 Refresh file name databases

If your `TeX` distribution (`teTeX`, `mikTeX`, ...) relies on file name databases, you must refresh these. For example, `teTeX` users run `texhash` or `mktexlsr`.

#### 4.5 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 telprint.pdf unpack_files output .
```

**Unpacking with L<sup>A</sup>T<sub>E</sub>X.** The `.dtx` chooses its action depending on the format:

**plain TeX:** Run `docstrip` and extract the files.

**L<sup>A</sup>T<sub>E</sub>X:** Generate the documentation.

If you insist on using L<sup>A</sup>T<sub>E</sub>X for `docstrip` (really, `docstrip` does not need L<sup>A</sup>T<sub>E</sub>X), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{telprint.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 pdfL<sup>A</sup>T<sub>E</sub>X:

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

## 5 Catalogue

The following XML file can be used as source for the `TeX Catalogue`. The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `telprint.xml`.

```
311 <catalogue>
312 <?xml version='1.0' encoding='us-ascii'?>
313 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
314 <entry datestamp='$Date$' modifier='$Author$' id='telprint'>
```

```

315  <name>telprint</name>
316  <caption>Format German phone numbers.</caption>
317  <authorref id='auth:oberdiek' />
318  <copyright owner='Heiko Oberdiek' year='1996,1997,2004-2008' />
319  <license type='lppl1.3' />
320  <version number='1.10' />
321  <description>
322    The package provides a command <tt>\telprint</tt> for formatting
323    German telephone numbers.
324  <p/>
325    The package is part of the <xref refid='oberdiek'>oberdiek</xref>
326    bundle.
327 </description>
328 <documentation details='Package documentation'
329   href='ctan:/macros/latex/contrib/oberdiek/telprint.pdf' />
330 <ctan file='true' path='/macros/latex/contrib/oberdiek/telprint.dtx' />
331 <miktex location='oberdiek' />
332 <texlive location='oberdiek' />
333 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip' />
334 </entry>
335 </catalogue>
```

## 6 History

[1996/11/28 v1.0]

- Erste lauffähige Version.
- Nur '-' und '/' als zulässige Sonderzeichen.

[1997/09/16 v1.1]

- Dokumentation und Kommentare (Posting in de.comp.text.tex).
- Erweiterung um Sonderzeichen '(', ')', '+', '~' und ' '.
- Trennungsverhinderung am 'hyphen'.

[1997/10/16 v1.2]

- Schutz vor wiederholtem Einlesen.
- Unter L<sup>A</sup>T<sub>E</sub>X 2 <sub>$\varepsilon$</sub>  Nutzung des \DeclareRobustCommand-Features.

[1997/12/09 v1.3]

- Temporäre Variable eingespart.
- Posted in newsgroup **de.comp.text.tex**:  
“Re: Generisches Markup für Telefonnummern?”<sup>2</sup>

[2004/11/02 v1.4]

- Fehler in der Dokumentation korrigiert.

[2005/09/30 v1.5]

- Konfigurierbare Symbole: '/', '(', ')', '+' und '~'.

---

<sup>2</sup>Url: <http://groups.google.com/group/de.comp.text.tex/msg/86b3a86140007309>

[2006/02/12 v1.6]

- LPPL 1.3.
- Kurze Übersicht in Englisch.
- CTAN.

[2006/08/26 v1.7]

- New DTX framework.

[2007/04/11 v1.8]

- Line ends sanitized.

[2007/09/09 v1.9]

- Catcode section added.
- Missing docstrip tag added.

[2008/08/11 v1.10]

- Code is not changed.
- URLs updated.

## 7 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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