

The telprint package

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Abstract

Package telprint provides \telprint for formatting German phone numbers.

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*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

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` `\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.)

<code>\telhyphen</code>	<ul style="list-style-type: none"> • <code>\telhyphen#1</code> 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 NIE <code>\telprint{123--45}</code>! Kopka-Bindestrich-Fans geben an: <code>\telhyphen{\leavevmode\hbox{--}}</code>
<code>\telslash</code>	<ul style="list-style-type: none"> • <code>\telslash#1</code>, <code>\telleftparen#1</code>, <code>\telrightparen#1</code>, <code>\telplus#1</code>, <code>\teltilde</code> Diese Befehle konfigurieren die Zeichen <code>'/'</code>, <code>'('</code>, <code>)'</code>, <code>'+'</code> und <code>'~'</code>. Sie funktionieren analog zu <code>\telhyphen</code>. • <code>\telnumber#1</code> 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.) • <code>\TEL...</code> interne Befehle, Technisches: <code>\TELSplit</code> dient zur Aufteilung einer zusammengesetzten Telefonnummer (Vorwahl, Hauptnummer, Nebenstelle). In dieser Implementation werden als Trennzeichen nur <code>'/'</code> und <code>'-'</code> erkannt. Die einzelnen Bestandteile wie Vorwahl werden dann dem Befehl <code>\telnumber</code> zur Formatierung uebergeben. • Die Erkennung von einfachen Leerzeichen ist um einiges schwieriger: Die Tokenentrennung 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) (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!)
<code>\telleftparen</code>	
<code>\telrightparen</code>	
<code>\telplus</code>	
<code>\teltilde</code>	
<code>\telnumber</code>	

2 Implementation

```
1 (*package)
```

2.1 Reload check and package identification

Reload check, especially if the package is not used with L^AT_EX.

```

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 [2016/05/16 v1.11 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\0{#2}%
143   \expandafter\endgroup
144   \ifx\0\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
203 \fi
204 }

```

\telprint

```

205 \DeclareRobustCommand*\telprint[1]{%
206 \TELToks={}
207 \TELSplit#1{}\TELSplitEND
208 }

209 \TELreset\let\TELreset=\UnDeFiNeD

210 \TELAtEnd%
211 \end{package}

```

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{#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 \cename @@end\endcsname
309 \end
310 </test1>

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

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

[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](#)

TDS refers to the standard “A Directory Structure for T_EX Files” ([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 `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/
```

4.3 Package installation

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

```
tex telprint.dtx
```

¹<http://ctan.org/pkg/telprint>

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 (`te\TeX`, `mik\TeX`, ...) relies on file name databases, you must refresh these. For example, `te\TeX` users run `texhash` or `mktextlsr`.

4.5 Some details for the interested

Unpacking with \LaTeX . The `.dtx` chooses its action depending on the format:

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

\LaTeX : Generate the documentation.

If you insist on using \LaTeX for `docstrip` (really, `docstrip` does not need \LaTeX), 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 `pdf\LaTeX`:

```
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 [\$\text{\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='1.11' />
```

```

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^AT_EX 2_ε Nutzung des \DeclareRobustCommand-Features.

[1997/12/09 v1.3]

- Temporäre Variable eingespart.
- Posted in newsgroup [de.comp.text.tex](#):
“[Re: Generisches Markup für Telefonnummern?](#)”²

[2004/11/02 v1.4]

- Fehler in der Dokumentation korrigiert.

[2005/09/30 v1.5]

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

[2006/02/12 v1.6]

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

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

[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.

[2016/05/16 v1.11]

- Documentation updates.

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