

The `tablefootnote` package

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Abstract

This L^AT_EX package provides the command `\tablefootnote` to be used in a `table` or `sidewaystable` environment, where `\footnote` will not work and when using `\footnotemark` and `\footnotetext` and adjusting the counters (including `Hfootnote`) manually is either too much work or would not even work (`sidewaystable`).

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Save per page about 200 ml water, 2 g CO₂ and 2 g wood:
Therefore please print only if this is really necessary.

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1 Introduction

This L^AT_EX package provides the command `\tablefootnote{...}` to be used in a `table` or `sidewaystable` environment. In those environments `\footnote{...}` would not work and would need to be replaced by `\footnotemark` in the `(sideways)table` and `\footnotetext{...}` after the `(sideways)table` environment ended. Additionally the counters for `footnote` and (when the `hyperref` package is used) `Hfootnote` would need to be adjusted manually. Then still the hyperlinks in a `(sideways)table` would not work. Just using `\tablefootnote{...}` in the `(sideways)table` does all this automatically. (Redefining `\footnote` was *not* done as to not create conflicts with other packages.)

2 Usage

Just load the package placing

```
\usepackage{tablefootnote}
```

in the preamble of your L^AT_EX 2_ε source file and use `\tablefootnote{...}` instead of `\footnote{...}` in `(sideways)tables`. If `\tablefootnote{...}` is used in a tabular environment, which is inside of a `(sideways)table` environment, everything is fine, but when the tabular environment is not inside of a `(sideways)table`, the `tablefootnote` will not work.

When the (sideways)table floats, the footnotes are set and (when hyperref is used) hyperlinked, but they are not automatically adapted when the table floats over/under another footnote. Thus either do not use a footnote between original and float position of the (sideways)table, or place the (sideways)table in “here” position. `\clear(double)page, h(!), H` from the float package (<http://www.ctan.org/pkg/float>), or `\FloatBarrier` from the picins package (<http://www.ctan.org/pkg/picins>) might help, too. (Or after finishing the document, move the (sideways)table in the source code near the position where it floats to.)

3 Alternatives

- The `longtable` package provides the `longtable` environment as replacement for the combined `table` and `tabular` environments. Footnotes are real footnotes (not just tablenotes), are continuously numbered and hyperlinked (when using the `hyperref` package), and the hyperlinks really work. As drawback the appearance of the caption changes slightly (e.g. distance to the table, width of the caption), which can probably be changed back manually. Furthermore, longtables are meant to break over more than one page. If that is not wished, it must be prevented by `\nopagebreak`-commands and by ending the longtable lines with `*` instead of `\\`. longtables do not float. (Therefore using the `tablefootnote` package and `\FloatBarrier` from the picins package before and after the table environment is similar - but `tablefootnote` does not change the table-caption!) `sidewaystable` does not work with it.
<http://www.ctan.org/pkg/longtable>
- The `supertabular` package provides the `mpsupertabular` environment as replacement for the combined `table` and `tabular` environments. Footnotes are just tablenotes (with working hyperlinks when using the `hyperref` package), i.e. numbered a, b, c and placed below the table and not at the end of the page. Therefore there is no float problem (because the tablenotes numbering is not included in the continuous numbering of the footnotes). Placing the `supertabular` inside of a `sidewaystable` breaks the hyperlinks to the tablenotes.
<http://www.ctan.org/pkg/supertabular>
- The `ctable` package has its very own notation for defining tables. It can create tablenotes and sideways-tables. The tablenotes are not automatically hyperlinked. The `ctables` float. Because the tablenotes numbering is not included in the continuous numbering of the footnotes there is no float problem.
<http://www.ctan.org/pkg/ctable>
- The `footnote` package provides `\makesavenoteenv{table}`. After loading the package and using that command in the preamble, in tables `\footnote{...}` can be used. Using `\makesavenoteenv{tabular}` and `\makesavenoteenv{sidewaystable}` is possible, but it neither solves the float problem, nor do the created hyperlinks work (i.e. they aim at wrong locations). The `mdwtab` from the same bundle is incompatible with other table-related packages (e.g. `supertabular`, `array`) and not 100% compatible with the `tabular` environment.
<http://www.ctan.org/pkg/footnote>
<http://www.ctan.org/pkg/mdwtab>

- The `tabularx` package does produce footnotes for `sidewaystables`, but uses a, b, c instead of 1, 2, 3. The hyperlinks to the footnotes do not work. Because the footnotes numbering is not included in the continuous numbering of the other footnotes there is no float problem.
<http://www.ctan.org/pkg/tabularx>
- Placing a `tabular` inside a `minipage` inside a table produces `tablenotes`. Therefore there is no float problem (because the footnotes are not continuously numbered). The hyperlinks to the table notes indeed work.
- The `threeparttable` package creates `tablenotes` again. Therefore there is no float problem (because the `tablenotes` are not continuously numbered with the footnotes). There are no hyperlinks to the table notes (at least not automatically). Using `sidewaystable` (with table notes) works.
<http://www.ctan.org/pkg/threeparttable>
- The `threeparttablex` package creates `tablenotes` again. Therefore there is no float problem (because the `tablenotes` are not continuously numbered with the footnotes). With option `referable` the `tablenotes` are hyperlinked. Use of a `sidewaystable` (with table notes) did not work for me. When using the `referable` option according to the example in the `threeparttablex` manual the `longtable` package is used, therefore that package could be used directly without `threeparttablex` (see above).
<http://www.ctan.org/pkg/threeparttablex>
- One can manually use `\footnotemark` in the table and `\footnotetext{...}` after the table environment ended and manually change the `footnote` and (when the `hyperref` package is used) `Hfootnote` counters and needs to insert

```

\makeatletter
\global\let\Hy@saved@currentHref\@currentHref
\hyper@makecurrent{Hfootnote}%
\global\let\Hy@footnote@currentHref\@currentHref
\global\let\@currentHref\Hy@saved@currentHref
\makeatother

```

before each `\footnotetext{...}`, but with more than very few footnotes this can become much work (and prone to produce errors). And this does not even work with `sidewaystables`.

(You programmed or found another alternative, which is available at [CTAN](#):?
OK, send an e-mail to me with the name, location at [CTAN](#):, and a short notice, and I will probably include it in the list above.)

4 Example

```
1 (*example)
2 \documentclass[british]{article}[2007/10/19]% v1.4h
3 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
4 \usepackage{float}[2001/11/08]% v1.3d
5 \usepackage{placeins}[2005/04/18]% v2.2 ; for \FloatBarrier
6 \usepackage{rotating}[2009/03/28]% v2.16a; for sidewaysstable-environment
7 \usepackage{tablefootnote}[2011/11/06]% v1.0c
8 \usepackage[%
9 extension=pdf,%
10 plainpages=false,%
11 pdfpagelabels=true,%
12 hyperindex=false,%
13 pdflang={en},%
14 pdftitle={tablefootnote package example},%
15 pdfauthor={Hans-Martin Muench},%
16 pdfsubject={Example for the tablefootnote package},%
17 pdfkeywords={LaTeX, tablefootnote, footnote, table, Hans-Martin Muench},%
18 % pdfview=FitH and FitBH do not work: hyperlinks in sidewaystables
19 % do no lead to the footnotes, due to a bug in pdfTeX,
20 % computing wrong anchor coordinates (Heiko Oberdiek, 29. October 2011)
21 % pdfview=Fit, FitV, FitR, FitB, FitBV work
22 % print is OK for all those options
23 pdfstartview=FitH,%
24 pdfpagelayout=OneColumn%
25 ]{hyperref}[2011/10/01]% v6.82j
26
27 \gdef\unit#1{\mathord{\thinspace\mathrm{#1}}}%
28 \listfiles
29 \begin{document}
30 \pagenumbering{arabic}
31 \section*{Example for tablefootnote}
32
33 This example demonstrates the use of package\newline
34 \textsf{tablefootnote}, v1.0c as of 2011/11/06 (HMM).\newline
35 There were no options used. (The package provides no options.)\newline
36
37 \textbf{The \texttt{tablefootnote-example.tex} needs to be compiled}
38 \textbf{at least twice to get the references right!}\newline
39
40 If the etoolbox-package is found, it is automatically used.\newline
41
42 For more details please see the documentation!\newline
43
44 \noindent Save per page about $200\unit{ml}$ water,
45 $2\unit{g}$ CO$_2$ and $2\unit{g}$ wood:\newline
46 Therefore please print only if this is really necessary.\newline
47
48 Here is some text.\footnote{And this is a text footnote.}\newline
49
50 Tables \ref{tab.first}, \ref{tab.another} and \ref{tab.floatH} show
51 normal tables, table~\ref{tab.sideways} depicts a sidewaysstable.
52 Table~\ref{tab.floatH} uses the float specifier~\texttt{H} from the
53 float package.\newline
54
```

```

55 \texttt{Hyperref} option \verb|pdfview=FitH| and \verb|FitBH| do
56 not work due to a bug in pdf\TeX{}, computing wrong
57 anchor coordinates (\textsc{Heiko Oberdiek}, 29. October 2011).
58 Depending on used pdf-viewer, hyperlinks in sideways tables lead
59 e.\,g.~at the end of the document, not at the footnote.
60 \verb|pdfview=Fit|, \verb|FitV|, \verb|FitR|, \verb|FitB|,
61 \verb|FitBV| work, print is OK for all those options.
62
63 \bigskip
64
65 \listoftables
66
67 \pagebreak
68
69 \begin{table}
70 \centering
71 \begin{tabular}{ccc}
72 Some\tablefootnote{A table footnote.} & %
73 text\tablefootnote{Another table footnote.} & %
74 in a table\tablefootnote{A third table footnote.}
75 \end{tabular}
76 \caption[A table]{A first table\label{tab.first}}
77 \end{table}
78
79 Some text.\footnote{Another text footnote.}
80
81 \pagebreak
82
83 More text.\footnote{And yet another text footnote.}
84
85 \begin{table}[t]
86 \centering
87 \begin{tabular}{|c|c|c|}
88 \hline
89 Another\tablefootnote{A $\$2^{\text{nd}}$ table footnote.} & %
90 text\tablefootnote{Another $\$2^{\text{nd}}$ table footnote.} & %
91 in a table\tablefootnote{A $\$2^{\text{nd}}$ third table footnote.}\\ \hline
92 \end{tabular}
93 \caption[Another table]{Another table (second one)\label{tab.another}}
94 \end{table}
95
96 Please note that the table floated to the top of the page. While the
97 footnotes are set and (when hyperref is used) hyperlinked, they are
98 not automatically adapted. Thus either do not use a footnote at the
99 same page before the table, or place the table in
100 \textquotedblleft here\textquotedblright\ or
101 \textquotedblleft bottom\textquotedblright\ position.
102 \verb|\clear(double)page|, \verb|h(!)|, \verb|H|~from the
103 \texttt{float} package, or \verb|\FloatBarrier| from the
104 \texttt{picins} package might help, too. (Or move the table in the
105 source code near the position where it floats to.)
106
107 Table~\ref{tab.floatH} (page~\pageref{tab.floatH}) uses float specifier
108 \texttt{H} from the float package and does not float.
109
110 Some text.\footnote{This is just another text footnote.}
111
112 \pagebreak

```

```

113
114 \FloatBarrier
115
116 \begin{sidewaystable}
117 \centering%
118 \begin{tabular}{ccc}
119 Text\tablefootnote{Rotate view for testing the hyperlinks.} & %
120 in a\tablefootnote{Another sidewaystable footnote.} & %
121 sidewaystable%
122 \tablefootnote{Sidewaystable-environment provided by %
123 \url{http://CTAN.org/pkg/rotating} package.}
124 \end{tabular}
125 \caption[A sideways table]{A table in the \texttt{sideways} %
126 environment\label{tab.sideways}}%
127 \end{sidewaystable}%
128
129 \FloatBarrier
130
131 \pagebreak
132
133 A last table, here with float specifier \texttt{H} from the
134 float\footnote{\url{http://CTAN.org/pkg/float}} package.
135
136 \begin{table}[H]
137 \centering
138 \begin{tabular}{ccc}
139 Another\tablefootnote{A  $4^{\text{th}}$  table footnote.} & %
140 text\tablefootnote{Another  $4^{\text{th}}$  table footnote.} & %
141 in a table\tablefootnote{A  $4^{\text{th}}$  third table footnote.}
142 \end{tabular}
143 \caption[A last table]{A very last table\label{tab.floatH}}
144 \end{table}
145
146 Some text.\footnote{This is just another text footnote.}
147
148 \pagebreak
149
150 End of the example for the
151 tablefootnote\footnote{\url{http://CTAN.org/pkg/tablefootnote}} package.
152
153 \end{document}
154 \end{example}

```

5 The implementation

We start off by checking that we are loading into L^AT_EX 2_ε and announcing the name and version of this package.

```
155 (*package)
156 \NeedsTeXFormat{LaTeX2e}[2011/06/27]
157 \ProvidesPackage{tablefootnote}[2011/11/06 v1.0c
158           Table foot notes (HMM)]
159
```

A short description of the tablefootnote package:

```
160 %% Provides the \tablefootnoteote{...} command
161 %% for footnotes in (sideways)tables.
162
```

We need the ltxcmds package by HEIKO OBERDIEK:

```
163 \RequirePackage{ltxcmds}[2011/04/18]%      v1.20
164
```

When the rotating package (for sidewaystables) is used, some more packages are needed:

```
165 \@ifpackageloaded{rotating}{%
166   \gdef\tfn@rotating{1}
167   \@ifpackagelater{rotating}{2009/03/28}% v2.16a
168   {% >= 2009/03/28, OK
169   }{% else
170     \PackageWarningNoLine{tablefootnote}{%
171       It is required version\MessageBreak
172       2009/03/28 v2.16a (or later) of package rotating,\MessageBreak
173       but only version\MessageBreak
174       ‘\csname ver@rotating.sty\endcsname’\MessageBreak
175       is available}%
176   }%
177   \RequirePackage{amstext}[2000/06/29]%      v2.01
178   \RequirePackage{setspace}[2000/12/01]%      v6.7
179   \RequirePackage{subcaption}[2011/09/12]% v1.1b
180 }{% else
181   \gdef\tfn@rotating{0}%
182 }
183
```

A last information for the user:

```
184 %% tablefootnote may work with earlier versions of LaTeX and those
185 %% packages, but this was not tested. Please consider updating
186 %% your LaTeX and packages to the most recent version
187 %% (if they are not already the most recent version).
188
```

See subsection 6.1 about how to get them.

There are no options to be processed.

We need some definitions:

```
189 \def\tfn@footnotetablecount{0}
190 \def\tfn@footnotetableprint{0}
191 \def\tfn@footnotezero{0}
192 \def\tfn@fnt{0}
193 \def\tfn@swt{0}% _s_ide_w_ays_t_able
194
```


`\tfn@footnotemarks` `\tfn@footnotemarks` uses the `\footnotemark` command to place a foot note mark and decreases the `\tfn@footnotetablecount` (i.e. increases the negative value) of the number of footnote(marks) in the table.

```
195 \newcommand{\tfn@footnotemarks}{%
196   \footnotemark%
197   \count255=\tfn@footnotetablecount \relax%
198   \count255=\numexpr \count255 - 1 \relax%
199   \xdef\tfn@footnotetablecount{\the\count255}%
200 }
201
```

`\tfn@footnotetext` `\tfn@footnotetext` contains the `\footnotetext{...}` command and handles the numbering. `\tfn@footnotetext` will be executed after the table. The foot note counter has been increased automatically with each `\footnotemark`, therefore it must be reset to its value before the table began.

```
202 \newcommand{\tfn@footnotetext}[1]{%
203   \ifx\tfn@footnotetableprint\tfn@footnotezero%
204   % This is the first footnotetext after the (sideways)table.
205   \addtocounter{footnote}{\tfn@footnotetablecount}%

```

When the `hyperref` package is used, also its `Hfootnote` counter must be reset.

```
206   \ltx@ifpackageloaded{hyperref}{%
207     \addtocounter{Hfootnote}{\tfn@footnotetablecount}%
208   }{}%

```

For further footnotes in that table this must not be repeated, therefore we deactivate this by defining `\tfn@footnotetableprint` to something other than 0 (here 1 is used).

```
209   \gdef\tfn@footnotetableprint{1}%
210   \fi%

```

For issuing the text for the next footnote the footnote-counter (and `Hfootnote` counter) are increased by one.

```
211   \addtocounter{footnote}{+1}%
212   \ltx@ifpackageloaded{hyperref}{%
213     \addtocounter{Hfootnote}{+1}%

```

The `hyperref` package was not expecting this kind of change of the (H)footnote numbers, therefore some codelines are missing here which can be found at other places in that same package.

```
214   % Code form the hyperref package, 2011/10/01, v6.82j,
215   % by Heiko Oberdiek
216   \global\let\Hy@saved@currentHref\@currentHref%
217   \hyper@makecurrent{Hfootnote}%
218   \global\let\Hy@footnote@currentHref\@currentHref%
219   \global\let\@currentHref\Hy@saved@currentHref%
220   % End of code form the hyperref package

```

When `hyperref` is not loaded, nothing is to be done here.

```
221   }{}%

```

The `\footnotetext{...}` places the foot note text as usual.

```
222   \ifx\tfn@swt\tfn@footnotezero%
223     \footnotetext{#1}%
224   \else%
225     \footnotetext{${}^{\text{\textup{\thefootnote}}}}$\thinspace #1}%
226   \fi%

```

`\tfn@footnotetablecount` contains the negative number of footnote texts to be printed, therefore it is increase by one (i.e. the negative number decreases, i.e. -3 becomes -2).

```
227 \count255=\tfn@footnotetablecount \relax%
228 \count255=\numexpr \count255 + 1 \relax%
229 \xdef\tfn@footnotetablecount{\the\count255}%
```

When it is zero, all footnote texts have been placed, and `\tfn@footnotetableprint` can be reset to zero and `\tfn@tablefootnoteprintout` can be cleared.

```
230 \ifx\tfn@footnotetablecount\tfn@footnotezero% all footnotes placed
231 \gdef\tfn@footnotetableprint{0}%
232 \global\let\tfn@tablefootnoteprintout\relax% brute force
233 %\else there is at least one \footnotemark which needs \footnotetext
234 \fi
235 }
236
```

`\tfn@tablefootnoteprintout` When something shall be cleared or redefined, it is a good idea to define it. It will be later filled with the foot note text to be printed.

```
237 \newcommand{\tfn@tablefootnoteprintout}{\relax}
238
```

`\tablefootnote` `\tablefootnote{...}` is the command to be used by the user instead of `\footnote{...}` in the table. It places a foot note mark via `\tfn@footnotemarks` and appends a `\tfn@footnotetext{#1}` to the `\tfn@tablefootnoteprintout` macro. (And remembers that table foot notes have been used.)

```
239 \newcommand{\tablefootnote}[1]{%
240 \tfn@footnotemarks%
241 \ltx@GlobalAppendToMacro{%
242 \tfn@tablefootnoteprintout}{\tfn@footnotetext{#1}}%
243 \gdef\tfn@fnt{1}%
244 }
245
```

`\tablefootnote` For `sidewaystable`s the `\tfn@tablefootnoteprintout` is placed in a `\subcaptionbox`, which can be placed at the same place as the `sidewaystable`:

```
246 \newcommand{\tfn@swtbox}{%
247 \vspace{0.8cm}%
248 \begin{spacing}{0.1}%
249 \subcaptionbox*{}[\linewidth][l]{\tfn@tablefootnoteprintout}%
250 \end{spacing}%
251 }
252
```

`\tfn@tablefootnoteprintout` shall be executed after the end of the table environment. The `etoolbox` package provides very easy syntax for this:

```
253 \IfFileExists{etoolbox.sty}{%
254 \RequirePackage{etoolbox}[2011/01/03]% v2.1
255 \AfterEndEnvironment{table}{%
256 \tfn@tablefootnoteprintout%
257 \gdef\tfn@fnt{0}%
258 }
```

When the rotating package has been loaded, we need to detect whether the `\tablefootnote` is placed inside of a `sidewaystable`.

```

259 \ltx@ifpackageloaded{rotating}{%
260   \AtBeginEnvironment{sidewaystable}{%
261     \gdef\tfn@swt{1}%
262   }

```

At the end of `sidewaystable` environments `\tfn@swtbox` shall be placed (if there was any `\tablefootnote` in that `sidewaystable` at all). And `\tfn@swt` as well as `\tfn@fnt` must be reset to 0.

```

263   \AtEndEnvironment{sidewaystable}{%
264     \ifx\tfn@fnt\tfn@footnotezero% \relax
265     \else%
266       \tfn@swtbox%
267     \fi%
268     \gdef\tfn@swt{0}%
269     \gdef\tfn@fnt{0}%
270   }%
271 }{}%
272 }{%

```

When the `etoolbox` package is not available (e.g. because of missing ε -TEX) we do a workaround:

```

273 \PackageWarning{tablefootnote}{%
274   Package etoolbox not available, therefore\MessageBreak%
275   substituting commands \string\AtEndEnvironment\space %
276   and\MessageBreak%
277   \string\AfterEndEnvironment\space for tablefootnotes%
278   \MessageBreak%
279 }%
280 \RequirePackage{letltxmacro}[2010/09/02]% v1.4
281 \@ifpackagelater{letltxmacro}{2010/09/02}%
282 {% >= 2010/09/02, OK
283   \GlobalLetLtxMacro{\tfnorigtable}{\table}
284   \GlobalLetLtxMacro{\tfnendorigtable}{\endtable}

```

`\GlobalLetLtxMacro` was introduced in version 2010/09/02 v1.4 of the `letltxmacro` package.

```

285 }{% else
286   \PackageError{tablefootnote}{%
287     Outdated version of letltxmacro package used%
288     \string\Version 2010/09/02 v1.4 or newer needed but not found!%
289     \MessageBreak%
290     Update the used letltxmacro package.%
291     \LetLtxMacro{\tfnorigtable}{\table}
292     \LetLtxMacro{\tfnendorigtable}{\endtable}
293   }
294 \ltx@ifpackageloaded{float}{%
295   \@ifpackagelater{float}{2001/11/08}% v1.3d
296   {% >= 2001/11/08, OK
297   }{% else
298     \PackageWarningNoLine{tablefootnote}{%
299       It is required version\MessageBreak
300       2001/11/08 v1.3d (or later) of package float,\MessageBreak
301       but only version\MessageBreak
302       ‘\csname ver@float.sty\endcsname’\MessageBreak
303       is available}%
304   }%

```

```

305   }{\relax}
306   \renewenvironment{table}{%
307     \ltx@ifpackageloaded{float}{%

```

When etoolbox.sty was not found, and the float package has been loaded, and the float specifier is H, then \endtable was let to \float@endH by the float package (line 79 of float.sty, 2001/11/08 v1.3d:

\expandafter\let\csname end#1\endcsname\float@endH), i.e. appending \tfn@tablefootnoteprintout \gdef\tfn@fnt{0} to \endtable is useless. Instead of this, it must be appended to \float@endH.

(Why is this not necessary when etoolbox is used? That is a good question, answers are welcome.)

```

308     \ltx@LocalAppendToMacro{\float@endH}{%
309       \tfn@tablefootnoteprintout%
310       \gdef\tfn@fnt{0}%
311     }%
312   }{\relax}
313   \tfnorigtable%
314 }{%
315   \tfnendorigtable%
316   \tfn@tablefootnoteprintout%
317   \gdef\tfn@fnt{0}%
318 }%

```

The sidewaysstable-environment must be treated separately:

```

319 \ltx@ifpackageloaded{rotating}{%
320   \let\tfnorigsidewaystable\sidewaystable
321   \let\tfnendorigsidewaystable\endsidewaystable
322   \renewenvironment{sidewaystable}{%
323     \gdef\tfn@swt{1}%
324     \tfnorigsidewaystable%
325   }{%
326     \ifx\tfn@fnt\tfn@footnotezero% \relax
327     \else%
328       \tfn@swtbox%
329       \fi%
330     \gdef\tfn@swt{0}%
331     \gdef\tfn@fnt{0}%
332     \tfnendorigsidewaystable%
333   }%
334 }{}%
335 }
336

```

`\AtBeginDocument` When the rotating package has been loaded after the `tablefootnote` package, the `amstext`, `setspace`, and `subcaption` packages have not been loaded automatically by the `tablefootnote` package (and there was no check of their required version). An error message is given. In this case the `\tablefootnotes` in `sidewaystables` would not work!

```

337 \AtBeginDocument{%
338   \ltx@ifpackageloaded{rotating}{%
339     \ifx\tfn@rotating\tfn@footnotezero%
340       \PackageError{tablefootnote}{%
341         Package rotating loaded after package tablefootnote}{%
342         When using both the rotating and the tablefootnote package,%
343         \MessageBreak%
344         the rotating package must be loaded before the tablefootnote%
345         package!%
346       }%
347     \fi%
348   }{}
349 }
350
    That's it!
351 \end{package}

```

6 Installation

6.1 Downloads

Everything is available at CTAN: <http://www.ctan.org/tex-archive/>, but may need additional packages themselves.

`tablefootnote.dtx` For unpacking the `tablefootnote.dtx` file and constructing the documentation it is required:

- T_EX Format L^AT_EX 2_ε: <http://www.CTAN.org/>
- document class `ltxdoc`, 2007/11/11, v2.0u, <http://ctan.org/pkg/ltxdoc>
- package `hltxdoc`, 2011/02/04, v0.21, <http://ctan.org/pkg/hltxdoc>
- package `hypdoc`, 2010/03/26, v1.9, <http://ctan.org/pkg/hypdoc>

`tablefootnote.sty` The `tablefootnote.sty` for L^AT_EX 2_ε (i. e. each document using the `tablefootnote` package) requires:

- T_EX Format L^AT_EX 2_ε, <http://www.CTAN.org/>
- package `ltxcmds`, 2011/04/18, v1.20, <http://ctan.org/pkg/ltxcmds>

When the `rotating` package is used (for its `sidewaystable` environment; 2009/03/28, v2.16a, <http://ctan.org/pkg/rotating>) also the `amstext`, `setspace`, and `subcaption` packages are needed (they will be loaded automatically by the `tablefootnote` package, if `rotating` is loaded *before* `tablefootnote`).

- package `amstext`, 2000/06/29, v2.01, <http://ctan.org/pkg/amstext>
- package `setspace`, 2000/12/01, v6.7, <http://ctan.org/pkg/setspace>
- package `subcaption`, 2011/09/12, v1.1b, <http://ctan.org/pkg/subcaption>

(loading themselves further packages).

When the `etoolbox` package is not available, the `letltxmacro` package is used:

- package `letltxmacro`, 2010/09/02, v1.4, <http://ctan.org/pkg/letltxmacro>

(possibly loading further packages).

`tablefootnote-example.tex` The `tablefootnote-example.tex` requires the same files as all documents using the `tablefootnote` package, i. e. the ones named above and additionally:

- class `article`, 2007/10/19, v1.4h, from `classes.dtx`:
[CTAN:macros/latex/base/classes.dtx](http://www.ctan.org/macros/latex/base/classes.dtx)
- package `rotating`, 2009/03/28, v2.16a, <http://ctan.org/pkg/rotating>
- package `float`, 2001/11/08, v1.3d, <http://ctan.org/pkg/float>
- package `placeins`, 2005/04/18, v2.2, <http://ctan.org/pkg/placeins>
for `\FloatBarrier`
- package `hyperref`, 2011/10/01, v6.82j, <http://ctan.org/pkg/hyperref>
- package `tablefootnote`, 2011/11/06, v1.0c,

<http://ctan.org/pkg/tablefootnote>

(Well, it is the example file for this package, and because you are reading the documentation for the `tablefootnote` package, it can be assumed that you already have some version of it – is it the current one?)

Oberdiek All packages of HEIKO OBERDIEK's bundle 'oberdiek' (especially holtxdoc,
 holtxdoc letltxmacro, and ltxcmds) are also available in a TDS compliant ZIP archive:
 letltxmacro [CTAN:install/macros/latex/contrib/oberdiek.tds.zip](http://mirror.ctan.org/install/macros/latex/contrib/oberdiek.tds.zip).
 ltxcmds It is probably best to download and use this, because the packages in there are
 quite probably both recent and compatible among themselves.

hyperref hyperref is not included in that bundle and needs to be downloaded separately,
 <http://mirror.ctan.org/install/macros/latex/contrib/hyperref.tds.zip>.

Münch A hyperlinked list of my (other) packages can be found at <http://www.Uni-Bonn.de/~uzs5pv/LaTeX.html>.

6.2 Package, unpacking TDS

Package. This package is available on [CTAN](http://mirror.ctan.org):

[CTAN:macros/latex/contrib/tablefootnote/tablefootnote.dtx](http://mirror.ctan.org/macros/latex/contrib/tablefootnote/tablefootnote.dtx)

The source file.

[CTAN:macros/latex/contrib/tablefootnote/tablefootnote.pdf](http://mirror.ctan.org/macros/latex/contrib/tablefootnote/tablefootnote.pdf)

The documentation.

[CTAN:macros/latex/contrib/tablefootnote/tablefootnote-example.pdf](http://mirror.ctan.org/macros/latex/contrib/tablefootnote/tablefootnote-example.pdf)

The compiled example file, as it should look like.

[CTAN:macros/latex/contrib/tablefootnote/README](http://mirror.ctan.org/macros/latex/contrib/tablefootnote/README)

The README file.

[CTAN:install/macros/latex/contrib/tablefootnote.tds.zip](http://mirror.ctan.org/install/macros/latex/contrib/tablefootnote.tds.zip)

Everything in TDS compliant, compiled format.

which additionally contains

tablefootnote.ins	The installation file.
tablefootnote.drv	The driver to generate the documentation.
tablefootnote.sty	The <code>.sty</code> file.
tablefootnote-example.tex	The example file.

For required other packages, see the preceding subsection.

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

```
tex tablefootnote.dtx
```

About generating the documentation see paragraph 6.4 below.

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

tablefootnote.sty	→ tex/latex/tablefootnote.sty
tablefootnote.pdf	→ doc/latex/tablefootnote.pdf
tablefootnote-example.tex	→ doc/latex/tablefootnote-example.tex
tablefootnote-example.pdf	→ doc/latex/tablefootnote-example.pdf
tablefootnote.dtx	→ source/latex/tablefootnote.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.

6.3 Refresh file name databases

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

6.4 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{tablefootnote.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 a 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 $\text{pdf}\text{\LaTeX}$:

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

6.5 Compiling the example

The example file, `tablefootnote-example.tex`, can be compiled via `(pdf)latex tablefootnote-example.tex` (and needs at least two compiler runs to get the references right!).

7 Acknowledgements

I would like to thank HEIKO OBERDIEK for providing the `hyperref`, `letltxmacro`, `ltxcmds`, as well as a lot (!) of other useful packages (from which I also got everything I know about creating a file in `.dtx` format, ok, say it: copying), and for information about the $\text{pdf}\text{\TeX}$ -bug, and the `news:comp.text.tex` and `news:de.comp.text.tex` newsgroups for their help in all things \TeX .

8 History

[2011/10/26 v1.0a, tabfootn]

- Upload to CTAN:macros/latex/contrib/tablefootnote/.

[2011/10/29 v1.0b]

- Renamed to `tablefootnote`.
- Added support for the `sidewaystable`-environment of the rotating package.
- Diverse changes in documentation and README.

[2011/11/06 v1.0c]

- Replaced `~{\text{\thefootnote}}` by `{~{\text{\textup{\thefootnote}}}}`.
- Bug fix: When `etoolbox.sty` was not found, and the `float` package had been loaded, and the float specifier was `H`, then the `\tablefootnotes` were not printed for that table. Fixed.
- Minor details.

When you find a mistake or have a suggestion for an improvement of this package, please send an e-mail to the maintainer, thanks! (Please see BUG REPORTS in the README.)

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