

The `tablefootnote` package

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2014/01/20 v1.1b

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. When the `footnotebackref` package is used, `\footnotemark` and `\footnotetext{...}` would need to be redefined. Just using `\tablefootnote{...}` (with optional argument for custom foot note marks) in the `(sideways)table` does all this automatically. (Compatibility with the `footnotebackref` package was achieved without redefining `\footnotemark` or `\footnotetext`.) 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{...}` and `\tablefootnote[...]{...}` instead of `\footnote[...]{...}` in `(sideways)tables`. When the `footnotebackref` package is used, it must be loaded before the `tablefootnote` package and the `hyperref` package with option `hyperfootnotes=true` must be loaded, too. (Backreference-links without links do not make sense.) When the `rotating` package (for `sidewaystables`) is used, it must be loaded before the `tablefootnote` package and it must be a recent version (v2.16a, 2009/03/28, or newer). 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.

Pages with tables with footnotes, which are rotated with the `lscape`- or with the `pdfscape`-package (`\begin{landscape}`, `table`, `\end{landscape}`), are possible. But when the `footmisc`-package is used, `(pdf)lscape` should be loaded before `footmisc`.

When the `footmisc`-package is used with option `para`, this is regarded with the exception of a `sidewaystable`. There the footnotes are printed one below the other. (Well, this is better than no footnote in a `sidewaystable` at all, isn't it?)

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 or use the optional footnote marks.)

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 sideways-tables, 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 is prone to produce errors). And this does not even work with `sidewaystables`. (And it does not work with the `footnotebackref` package without redefining `\footnotemark` and `\footnotetext{...}`.)

(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[%
8 hyperfootnotes=true,%
9 extension=pdf,%
10 plainpages=false,%
11 pdfpagelabels=true,%
12 hyperindex=false,%
13 pdflang={en},%
14 pdftitle={tablefootnote package example},%
15 pdfauthor={H.-Martin Muench},%
16 pdfsubject={Example for the tablefootnote package},%
17 pdfkeywords={LaTeX, tablefootnote, footnote, table, H.-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}[2012/11/06]% v6.83m
26 % Due to the urls used in the example, either the hyperref or the url
27 % package are needed (or the urls must be removed before compiling).
28
29 \usepackage{footnotebackref}[2012/07/01]% v1.0
30 \usepackage{tablefootnote}[2014/01/20]% v1.1b
31
32 \gdef\unit#1{\mathord{\thinspace\mathrm{#1}}}%
33 \listfiles
34 \begin{document}
35 \pagenumbering{arabic}
36 \section*{Example for tablefootnote}
37
38 This example demonstrates the use of package\newline
39 \textsf{tablefootnote}, v1.1b as of 2014/01/20 (HMM).\newline
40 There were no options used. (The package provides no options.)\newline
41
42 \textbf{The \texttt{tablefootnote-example.tex} needs to be compiled}
43 at least twice to get the references right!}\newline
44
45 If the etoolbox-package is found, it is automatically used.\newline
46
47 For more details please see the documentation!\newline
48
49 \noindent Save per page about $200\unit{ml}$ water,
50 $2\unit{g}$ CO$_2$ and $2\unit{g}$ wood:\newline
51 Therefore please print only if this is really necessary.\newline
52
53 Here is some text.\footnote{And this is a text footnote.}\newline
54
55 Tables \ref{tab.symbol}, \ref{tab.normal}, \ref{tab.another} and
56 \ref{tab.floatH} show normal tables, table~\ref{tab.sideways} depicts

```

```

57 a sideways table. Table~\ref{tab.floatH} uses the float
58 specifier~\texttt{H} from the float package.\newline
59
60 \texttt{Hyperref} option \verb|pdfview=FitH| and \verb|FitBH| do
61 not work due to a bug in pdf\TeX{}, computing wrong
62 anchor coordinates (\textsc{Heiko Oberdiek}, 29.~October 2011).
63 Depending on used pdf-viewer, hyperlinks in sideways tables lead
64 e.\,g.~at the end of the document, not at the footnote.
65 \verb|pdfview=Fit|, \verb|FitV|, \verb|FitR|, \verb|FitB|,
66 \verb|FitBV| work, print is OK for all those options.
67
68 \bigskip
69
70 \listoftables
71
72 \pagebreak
73
74 \renewcommand{\thefootnote}{\fnsymbol{footnote}}
75 \verb|\renewcommand{\thefootnote}{\fnsymbol{footnote}}|
76 causes footnote{-}symbol{-}footnotes, which are possible
77 (see Table~\ref{tab.symbol}).
78
79 \begin{table}
80 \centering
81 \begin{tabular}{ccc}
82 Another\tablefootnote{A table footnote.} & & %
83 text\tablefootnote{Another table footnote.} & & %
84 in a table\tablefootnote{A third table footnote.}
85 \end{tabular}
86 \caption[A footnotesymbol table]{%
87 A table with footnote-symbol-footnotes.\label{tab.symbol}}
88 \end{table}
89
90 Some text.\footnote{A text footnote.}
91
92 \renewcommand{\thefootnote}{\arabic{footnote}}
93 \verb|\renewcommand{\thefootnote}{\arabic{footnote}}|
94 switches back to normal footnote numbers again.
95
96 \pagebreak
97
98 \begin{table}
99 \centering
100 \begin{tabular}{ccc}
101 Some\tablefootnote{A table footnote.} & & %
102 text\tablefootnote[99]{A table footnote with custom footnote number.} & & %
103 in a table\tablefootnote{A third table footnote.}
104 \end{tabular}
105 \caption[A table]{A normal table.\label{tab.normal}}
106 \end{table}
107
108 Some text.\footnote{Another text footnote.}
109
110 \pagebreak
111

```

```

112 More text.\footnote{And yet another text footnote.}
113
114 \begin{table}[t]
115 \centering
116 \begin{tabular}{|c|c|c|}
117 \hline
118 Another\tablefootnote{A $3^{rd}$ table footnote.} & %
119 text\tablefootnote{Another $3^{rd}$ table footnote.} & %
120 in a table\tablefootnote{A $3^{rd}$ third table footnote.}\\ \hline
121 \end{tabular}
122 \caption[Another table]{Another table (third one)\label{tab.another}}
123 \end{table}
124
125 Please note that Table~\ref{tab.another} floated to the top of the page.
126 While the footnotes are set and (when hyperref is used) hyperlinked,
127 they are not automatically adapted. Thus either do not use a footnote
128 at the same page before the table, or place the table in
129 \textquotedblleft here\textquotedblright\ or
130 \textquotedblleft bottom\textquotedblright\ position.
131 \verb|clear(double)page|, \verb|h(!)|, \verb|H|~from the
132 \texttt{float} package, or \verb|FloatBarrier| from the
133 \texttt{picins} package might help, too. (Or move the table in the
134 source code near the position where it floats to
135 or use the optional footnote marks.)
136
137 Table~\ref{tab.floatH} (page~\pageref{tab.floatH}) uses float specifier
138 \texttt{H} from the float package and does not float.
139
140 Some text.\footnote{This is just another text footnote.}
141
142 \pagebreak
143
144 \FloatBarrier
145
146 \begin{sidewaystable}
147 \centering%
148 \begin{tabular}{ccc}
149 Text\tablefootnote{Please rotate the view for testing the %
150 hyperlinks.} & %
151 in a\tablefootnote[98]{Another sidewaystable footnote %
152 with optional footnote mark.} & %
153 sidewaystable%
154 \tablefootnote{Sidewaystable-environment provided by %
155 \url{http://CTAN.org/pkg/rotating} package.}
156 \end{tabular}
157 \caption[A sideways table]{A table in the \texttt{sideways} %
158 environment\label{tab.sideways}}%
159 \end{sidewaystable}%
160
161 \FloatBarrier
162
163 \pagebreak
164

```



```

165 A last table, here with float specifier \texttt{H} from the
166 float\footnote{\url{http://CTAN.org/pkg/float}} package.
167
168 \begin{table}[H]
169 \centering
170 \begin{tabular}{ccc}
171 Another\tablefootnote{A $\$5^{\text{th}}$ table footnote.} & & %
172 text\tablefootnote{Another $\$5^{\text{th}}$ table footnote.} & & %
173 in a table\tablefootnote{A $\$5^{\text{th}}$ third table footnote.}
174 \end{tabular}
175 \caption[A last table]{A very last table\label{tab.floatH}}
176 \end{table}
177
178 Some text.\footnote{This is just another text footnote.}
179
180 \pagebreak
181
182 End of the example for the
183 tablefootnote\footnote{\url{http://CTAN.org/pkg/tablefootnote}}
184 package.
185
186 \end{document}
187 \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.

```
188 (*package)
189 \NeedsTeXFormat{LaTeX2e}[2011/06/27]
190 \ProvidesPackage{tablefootnote}[2014/01/20 v1.1b
191      Table foot notes (HMM)]
```

A short description of the tablefootnote package:

```
192 %% Provides the \tablefootnote{...} command
193 %% for footnotes in (sideways)tables.
194
```

We need the ltxcmds and letltxmacro packages by HEIKO OBERDIEK:

```
195 \RequirePackage{ltxcmds}[2011/11/09]%      v1.22
196 \RequirePackage{letltxmacro}[2010/09/02]% v1.4
197 \RequirePackage{xifthen}[2009/04/17]%      v1.3
```

A last information for the user:

```
198 %% tablefootnote may work with earlier versions of LaTeX and those
199 %% packages, but this was not tested. Please consider updating
200 %% your LaTeX and packages to the most recent version
201 %% (if they are not already the most recent version).
202
```

See subsection 6.1 about how to get them.

When the rotating package (for sidewaystables) is used, it must be loaded before the tablefootnote package and it must be a recent version:

```
203 \@ifpackageloaded{rotating}{%
204   \gdef\tfn@rotating{1}
205   \@ifpackagelater{rotating}{2009/03/28}% v2.16a
206   {% >= 2009/03/28, OK
207   }{% else
208     \PackageWarningNoLine{tablefootnote}{%
209       It is required version\MessageBreak%
210       2009/03/28 v2.16a (or later) of package rotating,\MessageBreak%
211       but only version\MessageBreak%
212       ‘\csname ver@rotating.sty\endcsname’\MessageBreak%
213       is available}%
214   }%
215 }{% else
216   \gdef\tfn@rotating{0}%
217 }
218
```

There are no options to be processed.

We need some definitions:

```
219 \def\tfn@footnotetablecount{0}
220 \def\tfn@footnotetableprint{0}
221 \def\tfn@footnotezero{0}
222 \def\tfn@fnt{0}
223 \def\tfn@swt{0}% _s_ide_w_ays_t_able
224 \def\tfn@fmpw{\relax}% f_oot_m_isc_p_ara_w_arn-switch
225 \def\tfn@fnbr{0}% f_oot_n_ote_b_ack_r_ef(erence package)
226
```

We need some wrappers for the used `\ifHy@hyperfootnotes`:

```

227
228 \newcommand{\tfnhra}{%
229   \ifHy@hyperfootnotes%%
230     \raisebox{\ht\strutbox}{\hypertarget{tfn:\theHfootnote}{}}%
231   \fi%
232 }
233
234 \newcommand{\tfnhrb}[1]{%
235   \ifHy@hyperfootnotes%
236     \edef\tfn@thn{\arabic{Hfootnote}}%
237   \fi%
238   \setcounter{footnote}{#1}
239   \ifHy@hyperfootnotes%
240     \setcounter{Hfootnote}{#1}%
241   \fi%
242   \tfn@updateHyper%
243 }
244
245 \newcommand{\tfnhrc}[1]{%
246   {\ifHy@hyperfootnotes%
247     \raisebox{\ht\strutbox}{\hypertarget{tfn:#1}{}}%
248   \fi%
249   }{}%
250 }
251
252 \newcommand{\tfnhrd}{%
253   \ifHy@hyperfootnotes%
254     \setcounter{Hfootnote}{\tfn@thn}%
255   \fi%
256   \tfn@updateHyper%
257 }
258
259 \newcommand{\tfnhre}[1]{%
260   \ifHy@hyperfootnotes%
261     \hyperlink{tfn:#1}{\footnotemark[#1]}%
262   \else%
263     \footnotemark[#1]%
264   \fi%
265 }
266
267 \newcommand{\tfnhrf}{%
268   \ifHy@hyperfootnotes%
269     \hyper@makecurrent{Hfootnote}%
270   \fi%
271 }
272
273 \newcommand{\tfnhrg}{%
274   \ifHy@hyperfootnotes%
275     \addtocounter{Hfootnote}{\tfn@footnotetablecount}%
276   \fi%
277 }
278
279 \newcommand{\tfnhrh}{%
280   \ifHy@hyperfootnotes%
281     \addtocounter{Hfootnote}{+1}%
282   \fi%
283 }

```

```

284
285
286 \newcommand{\tfnhri}[2]{%
287 \ifHy@hyperfootnotes%
288     \footnotetext[#1]{%
289         \raisebox{\ht\strutbox}{\hypertarget{tfn:#1}{}}#2}%
290     \else%
291         \footnotetext[#1]{#2}%
292     \fi%
293 }
294
295 \newcommand{\tfnhrj}{%
296     \ifHy@hyperfootnotes%
297         \addtocounter{Hfootnote}{-1}%
298     \fi%
299 }
300
301 \newcommand{\tfnhrk}{%
302     \ifHy@hyperfootnotes%
303         \ifluatex%
304             \PackageWarningNoLine{tablefootnote}{%
305                 LuaTeX and hyperref package used:\MessageBreak%
306                 Hyperreferences in rotated content\MessageBreak%
307                 will be misplaced\MessageBreak%
308                 regardless of tablefootnote package.\MessageBreak%
309                 The text to be printed will be OK%
310             }%
311         \fi%
312     \fi%
313 }
314
315 \newcommand{\tfnhrl}{%
316     \ifHy@hyperfootnotes%
317         \relax%
318     \else%
319         \PackageError{tablefootnote}{%
320             footnotebackref but not hyperfootnotes}{%
321                 The footnotebackref package is used\MessageBreak%
322                 but the hyperfootnotes option of the hyperref package%
323                 \MessageBreak%
324                 was set to false.\MessageBreak%
325                 Either enable hyperfootnotes or do not use footnotebackref.%
326                 \MessageBreak%
327                 Loading of the tablefootnote package will be aborted.%
328             }%
329         \endinput%
330     \fi%
331 }
332

```

`\tablemakefntext` `\tablemakefntext` makes the `footnotetext` for a footnote in a table.

```

333 \ltx@ifpackageloaded{footnotebackref}{%
334     \gdef\tfn@fnbr{1}%
335     \ifx\FootnoteBackref@symbol\empty%
336         \ifFootnoteBackref@numberlinked%
337             \newcommand\tablemakefntext[1]{%
338                 \noindent\makebox[1.634em][r]{%
339                     \mbox{\textsuperscript{\normalfont%

```

```

340         \hyperlink{tfn:m\theHfootnote}{\@thefnmark}%
341     }}}}
342     \ #1%
343 }
344 \else
345     \newcommand\tablemakefnfntext[1]{%
346         \noindent\makebox[1.8em][r]{%
347             \mbox{\textsuperscript{\normalfont%
348                 \@thefnmark%
349             }}}%
350         #1%
351     }
352 \fi
353 \else
354     \newcommand\tablemakefnfntext[1]{%
355         \noindent\makebox[1.8em][r]{%
356             \mbox{\textsuperscript{\normalfont%
357                 \ifFootnoteBackref@numberlinked%
358                     \hyperlink{tfn:m\theHfootnote}{\@thefnmark}\ %
359                 \else%
360                     \@thefnmark%
361                 \fi%
362             }}}%
363         \hyperlink{tfn:m\theHfootnote}{\FootnoteBackref@symbol}}%
364         #1%
365     }
366 \fi
367 }{%
368     \newcommand\tablemakefnfntext[1]{%
369         \noindent\makebox[1.8em][r]{%
370             \mbox{\textsuperscript{\normalfont%
371                 \@thefnmark%
372             }}}%
373         #1%
374     }
375 }
376
377

```

\swtablemakefnfntext

```

378 \newcommand\swtablemakefnfntext[1]{\noindent\ #1}
379
380

```

`\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. If the `footnotebackref` package is used, it is also necessary to create an according `\hypertarget` for the back reference.

```

381 \newcommand{\tfn@footnotemarks}[1] [] {%
382   \hbox{%
383     \ifthenelse{\isempty{#1}}{%
384       {\footnotemark%
385         \ltx@ifpackageloaded{footnotebackref}%
386           {\raisebox{\ht\strutbox}{\hypertarget{\tfn:m\theHfootnote}{}}}%
387           {% footnotebackref not loaded
388             }%
389       }%
390     {\ltx@ifpackageloaded{hyperref}{\tfnhre{#1}}{\footnotemark[#1]}%
391       \ltx@ifpackageloaded{footnotebackref}%
392         {\raisebox{\ht\strutbox}{\hypertarget{\tfn:m#1}{}}}%
393         {% footnotebackref not loaded
394           }%
395       }%
396     }%
397     \@tempcnta=\tfn@footnotetablecount\relax%
398     \advance\@tempcnta by -1%
399     \xdef\tfn@footnotetablecount{\the\@tempcnta}%
400 }
401

```

`\tfn@footmiscparawarn` When the `footmisc` package is used with option `para`, we need to issue a warning. (Any idea how to resolve this issue?)
It must be given inside of it's own command, because `\ifFN@para` is not defined when `footmisc` has not been loaded, and then the `\fi` would be a `\fi` without `\if` (and `TEX` does not like single `\fis`).

```

402 \newcommand{\tfn@footmiscparawarn}{%
403   \ifFN@para%
404     \PackageWarning{tablefootnote}{%
405       Package footmisc with option para used.\MessageBreak%
406       Unfortunately package tablefootnote is not yet\MessageBreak%
407       able to regard this in sidewaysables.\MessageBreak%
408       Here the footnotes are printed one below\MessageBreak%
409       the other. Sorry!\MessageBreak%
410     }%
411   \fi%
412 }
413

```

`\tfn@updateHyper` `\tfn@updateHyper` updates some hyperref internals.

```

414 \newcommand{\tfn@updateHyper}{%
415   % The code of this command is partly from the
416   % hyperref package by Heiko Oberdiek, 2011/10/01, v6.82j.
417   % Newer versions of that package are available at CTAN.
418   \global\let\Hy@saved@currentHref\@currentHref%
419   \tfnhrf%
420   \global\let\Hy@footnote@currentHref\@currentHref%
421   \global\let\@currentHref\Hy@saved@currentHref%
422 }
423

```

`\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.

```

424 \newcommand{\tfn@footnotetext}[2] []{%
425   \ifx\tfn@footnotetableprint\tfn@footnotezero%
426     % This is the first footnotetext after the (sideways)table.
427     \addtocounter{footnote}{\tfn@footnotetablecount}%

```

When the hyperref package is used, also its Hfootnote counter must be reset (when the footnotes are hyperlinked).

```

428   \ltx@ifpackageloaded{hyperref}{\tfnhrf\tfn@updateHyper}{}%
429   \fi%

```

For issuing the text for the next footnote the footnote-counter (and Hfootnote counter in case of links) are increased by one.

```

430   \addtocounter{footnote}{+1}%
431   \ltx@ifpackageloaded{hyperref}{\tfnhrf\tfn@updateHyper}{}%

```

The hyperref package was not expecting this kind of change of the (H)footnote numbers, therefore some code-lines are missing here which can be found at other places in that same package and are called by this command. When hyperref is not loaded, nothing is to be done here.

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

```

432   \ifx\tfn@swt\tfn@footnotezero%
433     \ifthenelse{\isempty{#1}}{\footnotetext{#2}}{%
434       \ltx@ifpackageloaded{hyperref}{\tfnhri{#1}{#2}}{\footnotetext[#1]{#2}}}%
435   \else%

```

If there is more than one tablefootnote in the `sidewaystable`, the `\tfn@footmiscparawarn` shall be given,

```

436   \ifx\tfn@footnotetableprint\tfn@footnotezero%
437     \gdef\tfn@fmpw{\tfn@footmiscparawarn}%
438   \else%
439     \ltx@ifpackageloaded{footmisc}{\tfn@fmpw}{\relax}%

```

but we do not want to repeat the message for a third(, forth,...) tablefootnote in the `sidewaystable`.

```

440     \gdef\tfn@fmpw{\relax}%
441     \fi%

```

`\@makefnmark` is

```

\hbox {\@textsuperscript {\normalfont \@thefnmark }},

```

but according to `\show\@thefnmark` here `\@thefnmark` is `{\protect \itshape}` instead of `\thefootnote` (Why?!).

If the footnotebackref package is used, back references must be created for the table footnotes, too.

```

442 \ltx@ifpackageloaded{footnotebackref}{%
443   \LetLtxMacro{\tfncurrentmft}{\@makefntext}%
444   \LetLtxMacro{\@makefntext}{\swtablemakefntext}%
445   \ifthenelse{\isempty{#1}}{%
446     {\footnotetext{%
447       \raisebox{\ht\strutbox}{\hypertarget{tfn:\theHfootnote}{}}%
448       \hbox{\@textsuperscript{\normalfont%
449         \hyperlink{tfn:m\theHfootnote}{\thefootnote}}}\thinspace%
450       \ifx\FootnoteBackref@symbol\empty%
451       \else\hyperlink{tfn:m\theHfootnote}{\FootnoteBackref@symbol}%
452       \fi%
453       #2}%
454     }{\edef\tfn@tfn{\arabic{footnote}}%
455       \edef\tfn@thn{\arabic{Hfootnote}}%
456       \setcounter{footnote}{#1}%
457       \setcounter{Hfootnote}{#1}%
458       \tfn@updateHyper%
459       \footnotetext{%
460         \raisebox{\ht\strutbox}{\hypertarget{tfn:#1}{}}%
461         \hbox{\@textsuperscript{\normalfont%
462           \hyperlink{tfn:m#1}{#1}}}%
463         \thinspace%
464         \ifx\FootnoteBackref@symbol\empty%
465         \else%
466           \raisebox{\ht\strutbox}{%
467             \hyperlink{tfn:m#1}{\FootnoteBackref@symbol}}%
468           \fi%
469         #2%
470       }%
471       \setcounter{footnote}{\tfn@tfn}%
472       \setcounter{Hfootnote}{\tfn@thn}%
473       \tfn@updateHyper%
474     }%
475   \LetLtxMacro{\@makefntext}{\tfncurrentmft}%
476 }{% footnotebackref not loaded
477   \ifthenelse{\isempty{#1}}{%
478     {\footnotetext{%
479       \hbox{\@textsuperscript{\normalfont\thefootnote}}%
480       \ltx@ifpackageloaded{hyperref}{\tfnhrra}{}%
481       \thinspace%
482       #2}%
483     }{\edef\tfn@tfn{\arabic{footnote}}%
484       \ltx@ifpackageloaded{hyperref}{\tfnhrrb{#1}}{\setcounter{footnote}{#1}}%
485       \footnotetext{%
486         \hbox{\@textsuperscript{\normalfont #1}}%
487         \ltx@ifpackageloaded{hyperref}{\tfnhrrc{#1}}{}%
488         \thinspace%
489         #2}%
490       \setcounter{footnote}{\tfn@tfn}%
491       \ltx@ifpackageloaded{hyperref}{\tfnhrrd}{}%
492     }%
493   }%
494   \fi%

```

For further footnotes in the table the
`\ifx\tfn@footnotetableprint\tfn@footnotezero...\fi`

from the beginning of this `\tfn@footnotetext` macro must not be repeated, therefore we deactivate this by defining `\tfn@footnotetableprint` to something other than 0 (here 1 is used).

```
495 \gdef\tfn@footnotetableprint{1}%
```

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

```
496 \@tempcnta=\tfn@footnotetablecount\relax%
```

```
497 \advance\@tempcnta by +1%
```

```
498 \xdef\tfn@footnotetablecount{\the\@tempcnta}%
```

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

```
499 \ifx\tfn@footnotetablecount\tfn@footnotezero% all footnotes placed
```

```
500 \gdef\tfn@footnotetableprint{0}%
```

```
501 \global\let\tfn@tablefootnoteprintout\relax% brute force
```

```
502 %else there is at least one \footnotemark which needs \footnotetext
```

```
503 \fi
```

```
504 }
```

```
505
```

`\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.

```
506 \newcommand{\tfn@tablefootnoteprintout}{\relax}
```

```
507
```

`\tablefootnote` `\tablefootnote[...]{...}` is the command to be used by the user instead of `\footnote[...]{...}` in the (sideways)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.)

```
508 \newcommand{\tablefootnote}[2][]{%
```

```
509 \tfn@footnotemarks[#1]}{%
```

```
510 \ifthenelse{\isempty{#1}}{\relax}{%
```

```
511 \ltx@GlobalPrependToMacro{\tfn@tablefootnoteprintout}{%
```

```
512 \addtocounter{footnote}{+1}%
```

```
513 \ltx@ifpackageloaded{hyperref}{\tfnhrh\tfn@updateHyper}{}%
```

```
514 }%
```

```
515 }%
```

```
516 \ltx@GlobalAppendToMacro{\tfn@tablefootnoteprintout}{%
```

```
517 \tfn@footnotetext[#1]{#2}%
```

```
518 \ifthenelse{\isempty{#1}}{\relax}{%
```

```
519 \addtocounter{footnote}{-1}%
```

```
520 \ltx@ifpackageloaded{hyperref}{\tfnhrj\tfn@updateHyper}{}%
```

```
521 }%
```

```
522 }%
```

```
523 \gdef\tfn@fnt{1}%
```

```
524 }
```

```
525
```

`\tfn@swtbox` For `sidewaystable`s the `\tfn@tablefootnoteprintout` is placed in a `\parbox`, which can be placed at the end of the `sidewaystable`:

```

526 \newcommand{\tfn@swtbox}{%
527 \ifvoid \footins%
528 \vskip 2\baselineskip%
529 \else%
530 \vskip \skip\footins%
531 \fi%
532 \parbox[b] [] [t]{\linewidth}{\raggedright\tfn@tablefootnoteprintout}%
533 }
534

```

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

```

535 \IfFileExists{etoolbox.sty}{%
536 \RequirePackage{etoolbox}[2011/01/03]% v2.1
537 \AfterEndEnvironment{table}{%
538 \ltx@ifpackageloaded{footnotebackref}{%
539 \LetLtxMacro{\tfncurrentmft}{\@makefntext}%
540 \LetLtxMacro{\@makefntext}{\tablemakefntext}%
541 \tfn@tablefootnoteprintout%
542 \LetLtxMacro{\@makefntext}{\tfncurrentmft}%
543 }{% footnotebackref not loaded
544 \tfn@tablefootnoteprintout%
545 }%
546 \gdef\tfn@fnt{0}%
547 }%

```

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

```

548 \ltx@ifpackageloaded{rotating}{%
549 \AtBeginEnvironment{sidewaystable}{%
550 \gdef\tfn@swt{1}%
551 }

```

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.

```

552 \AtEndEnvironment{sidewaystable}{%
553 \ifx\tfn@fnt\tfn@footnotezero% \relax
554 \else%
555 \ltx@ifpackageloaded{footnotebackref}{%
556 \LetLtxMacro{\tfncurrentmft}{\@makefntext}%
557 \LetLtxMacro{\@makefntext}{\tablemakefntext}%
558 \tfn@swtbox%
559 \LetLtxMacro{\@makefntext}{\tfncurrentmft}%
560 }{% footnotebackref not loaded
561 \tfn@swtbox%
562 }%
563 \fi%
564 \gdef\tfn@swt{0}%
565 \gdef\tfn@fnt{0}%
566 }%
567 }{}% else \relax
568 }%

```

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

```

569 \PackageWarning{tablefootnote}{%
570   Package etoolbox not available, therefore\MessageBreak%
571   substituting commands \string\AtEndEnvironment\space %
572   and\MessageBreak%
573   \string\AfterEndEnvironment\space for tablefootnotes%
574   \MessageBreak%
575 }%
576 \@ifpackagelater{letltxmacro}{2010/09/02}%
577 {% >= 2010/09/02, OK
578   \GlobalLetLtxMacro{\tfnorigtable}{\table}
579   \GlobalLetLtxMacro{\tfnendorigtable}{\endtable}

\GlobalLetLtxMacro was introduced in version 2010/09/02 v1.4 of the letltx-
macro package.

580 }{% else
581   \PackageError{tablefootnote}{%
582     Outdated version of letltxmacro package used%
583     \{Version 2010/09/02 v1.4 or newer needed but not found!%
584     \MessageBreak%
585     Update the used letltxmacro package.%
586     \LetLtxMacro{\tfnorigtable}{\table}
587     \LetLtxMacro{\tfnendorigtable}{\endtable}
588   }
589 \ltx@ifpackageloaded{float}{%
590   \@ifpackagelater{float}{2001/11/08}%    v1.3d
591   {% >= 2001/11/08, OK
592   }{% else
593     \PackageWarningNoLine{tablefootnote}{%
594       It is required version\MessageBreak
595       2001/11/08 v1.3d (or later) of package float,\MessageBreak
596       but only version\MessageBreak
597       ‘\csname ver@float.sty\endcsname’\MessageBreak
598       is available}%
599     }%
600   }\relax}
601 \renewenvironment{table}{%
602   \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.)

```

603   \ltx@LocalAppendToMacro{\float@endH}{%
604     \ltx@ifpackageloaded{footnotebackref}{%
605       \LetLtxMacro{\tfncurrentmft}{\@makefntext}%
606       \LetLtxMacro{\@makefntext}{\tablemakefntext}%
607       \tfn@tablefootnoteprintout%
608       \LetLtxMacro{\@makefntext}{\tfncurrentmft}%
609     }{% footnotebackref not loaded
610       \tfn@tablefootnoteprintout%
611     }%

```

```

612         \gdef\tfn@fnt{0}%
613     }%
614     }{\relax}
615     \tfnorigtable%
616 }{%
617     \tfnendorigtable%
618     \ltx@ifpackageloaded{footnotebackref}{%
619         \LetLtxMacro{\tfncurrentmft}{\@makefntext}%
620         \LetLtxMacro{\@makefntext}{\tablemakefntext}%
621         \tfn@tablefootnoteprintout%
622         \LetLtxMacro{\@makefntext}{\tfncurrentmft}%
623     }{% footnotebackref not loaded
624         \tfn@tablefootnoteprintout%
625     }%
626     \gdef\tfn@fnt{0}%
627 }%

```

The `sidewaystable`-environment must be treated separately:

```

628 \ltx@ifpackageloaded{rotating}{%
629     \let\tfnorigsidewaystable\sidewaystable
630     \let\tfnendorigsidewaystable\endsidewaystable
631     \renewenvironment{sidewaystable}{%
632         \gdef\tfn@swt{1}%
633         \tfnorigsidewaystable%
634     }{%
635         \ifx\tfn@fnt\tfn@footnotezero% \relax
636         \else%
637             \ltx@ifpackageloaded{footnotebackref}{%
638                 \LetLtxMacro{\tfncurrentmft}{\@makefntext}%
639                 \LetLtxMacro{\@makefntext}{\tablemakefntext}%
640                 \tfn@swtbox%
641                 \LetLtxMacro{\@makefntext}{\tfncurrentmft}%
642             }{% footnotebackref not loaded
643                 \tfn@swtbox%
644             }%
645         \fi%
646         \gdef\tfn@swt{0}%
647         \gdef\tfn@fnt{0}%
648         \tfnendorigsidewaystable%
649     }%
650 }{}%
651 }
652

```

`\AtBeginDocument` When the `rotating` (for `sidewaystables`) or the `footnotebackref` (for back references for the footnotes) package is used, it must be loaded before the `tablefootnote` package. Using both packages is also possible, in which case both must be loaded before the `tablefootnote` package. If any one of those packages is loaded `\AtBeginDocument` after this check, the according error message will not be given, but packages really should be loaded before `\AtBeginDocument`.

```

653 \AtBeginDocument{%
654   \ltx@ifpackageloaded{footnotebackref}{%
655     \ifx\tfn@fnbr\tfn@footnotezero%
656       \PackageError{tablefootnote}{%
657         Package footnotebackref loaded after tablefootnote}{%
658         When using both the footnotebackref and the tablefootnote %
659         package,\MessageBreak%
660         the footnotebackref package MUST be loaded before the %
661         tablefootnote package!\MessageBreak%
662       }%
663     \fi%
664   }{% else \relax
665   }
666 \ltx@ifpackageloaded{rotating}{%
667   \ifx\tfn@rotating\tfn@footnotezero%
668     \PackageError{tablefootnote}{%
669       Package rotating loaded after tablefootnote}{%
670       When using both the rotating and the tablefootnote package,%
671       \MessageBreak%
672       the rotating package MUST be loaded before the tablefootnote%
673       \space package!\MessageBreak%
674     }%
675   \fi%
676 }{% else \relax
677 }
```

When the document is compiled with Lua^AT_EX, hyperlinks in rotated content will be misplaced, regardless of the use of the `tablefootnote` package (or of tables or footnotes). The text to be printed will be OK. This problem of Lua^AT_EX (not `tablefootnote`) was found and reported by ARNO TRAUTMANN, 2011/11/15 – thanks!

```

678 \ltx@ifpackageloaded{hyperref}{\tfnhrk}{}%
```

When the footnotebackref-package is used but the footnotes are not hyper-linked, neither the back references nor the tablefootnotes will work.

```
679 \ltx@ifpackageloaded{footnotebackref}{%
680   \ltx@ifpackageloaded{hyperref}{%
681     \tfnhrl%
682   }{\PackageError{tablefootnote}{footnotebackref but not hyperref}{%
683     The footnotebackref package is used\MessageBreak%
684     but not the hyperref package.\MessageBreak%
685     Either load hyperref or do not use footnotebackref.%
686     \MessageBreak%
687     Loading of the tablefootnote package will be aborted.%
688   }}%
689 \endinput
690 }%
691 }{}
692 }
693
694 \endpackage
```

6 Installation

6.1 Downloads

Everything is available on 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`, 2012/03/21, v0.24, <http://ctan.org/pkg/hltxdoc>
- package `hypdoc`, 2011/08/19, v1.11, <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 `letltxmacro`, 2010/09/02, v1.4, <http://ctan.org/pkg/letltxmacro>.
- package `ltxcmds`, 2011/11/09, v1.22, <http://ctan.org/pkg/ltxcmds>

When the `hyperref` package is used, also the `ifluatex` package is needed, but it is already loaded automatically by the `hyperref` package.
When the `etoolbox` package is available, it is used:

- package `etoolbox`, 2011/01/03, v2.1, <http://ctan.org/pkg/etoolbox>.

`tablefootnote-example.tex` The `tablefootnote-example.tex` requires the same files as all documents using the `tablefootnote` package 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`, 2012/11/06, v6.83m, <http://ctan.org/pkg/hyperref>
- package `tablefootnote`, 2014/01/20, v1.1b,
<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 `hltxdoc`, `ifluatex`, `letltxmacro`, and `ltxcmds`) are also available in a TDS compliant ZIP archive:
`hltxdoc` [CTAN:install/macros/latex/contrib/oberdiek.tds.zip](http://www.ctan.org/install/macros/latex/contrib/oberdiek.tds.zip).
`ifluatex` It is probably best to download and use this, because the packages in there are
`letltxmacro` quite probably both recent and compatible among themselves.
`ltxcmds`

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://ctan.org/author/muench-hm>.

6.2 Package, unpacking TDS

Package. This package is available on **CTAN**:

CTAN:macros/latex/contrib/tablefootnote/tablefootnote.dtx
The source file.

CTAN:macros/latex/contrib/tablefootnote/tablefootnote.pdf
The documentation.

CTAN:macros/latex/contrib/tablefootnote/tablefootnote-example.pdf
The compiled example file, as it should look like.

CTAN:macros/latex/contrib/tablefootnote/README
The README file.

There is also a tablefootnote.tds.zip available:

CTAN: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 .sty file.
tablefootnote-example.tex	The example file.

For required other packages, please see the preceding subsection.

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

```
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/tablefootnote.sty
tablefootnote.pdf	→ doc/latex/tablefootnote/tablefootnote.pdf
tablefootnote-example.tex	→ doc/latex/tablefootnote/tablefootnote-example.tex
tablefootnote-example.pdf	→ doc/latex/tablefootnote/tablefootnote-example.pdf
tablefootnote.dtx	→ source/latex/tablefootnote/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 (\TeX live, $\text{mik}\text{\TeX}$, ...) 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 the following 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

```
latex tablefootnote-example.tex,
lualatex tablefootnote-example.tex,
```

or (recommended)

```
pdflatex thumbs-example.tex
```

and will need at least two compiler runs to get everything right.

7 Acknowledgements

I would like to thank HEIKO OBERDIEK for providing the `hyperref`, `ifluatex`, `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, ARNO TRAUTMANN for reporting the bug of misplaced hyperreferences in `sidewaystables` using $\text{Lua}\text{\TeX}$, independently of the `tablefootnote` package or footnotes at all, THOMAS V. for reporting the bug of not handling the case of `hyperref` option `hyperfootnotes=false`, and the `news:comp.text.tex` and `news:de.comp.text.tex` newsgroups as well as everybody at <http://tex.stackexchange.com> 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.

[2011/11/19 v1.0d]

- Replaced `{\text{\textup{\thefootnote}}}` by `\thefootnote`, therefore the `amstext` package is no longer required by the `tablefootnote` package.
- `lscap` and `pdflscape` package now work with `tablefootnote` (except for using a `sidewaystable` on a landscape page).
- Added information about footnotes in `sidewaystable` being printed one below the other, even if `footmisc` package with option `para` is used.
- Redefined `\tfn@swtbox` from

```
\vspace{0.8cm}%  
\begin{spacing}{0.1}%  
\subcaptionbox*{}[\linewidth][1]{\tfn@tablefootnoteprintout}%  
\end{spacing}%
```

to

```
\vspace{2\baselineskip}%  
\parbox[b][][t]{\linewidth}{\raggedright\tfn@tablefootnoteprintout}%
```

, therefore the `setspace` and `subcaption` packages are no longer required by the `tablefootnote` package.

- No longer uses `\numexpr`, therefore also usable without ε -TeX.
- Replaced `\thefootnote` by `\hbox {\@textsuperscript {\normalfont \thefootnote } }`, which is next to the original definition of `\@makefnmark` (`\hbox {\@textsuperscript {\normalfont \@thefnmark } }`), but according to `\show\@thefnmark` here `\@thefnmark` is `{\protect \itshape}` instead of `\thefootnote`).

- Added an error message, when LuaTeX, rotating package, and hyperref package are used together. Hyperreferences in `sidewaystables` are misplaced, independently of the `tablefootnote` package or footnotes at all. (Bug reported by ARNO TRAUTMANN, 2011/11/15 – thanks!)
- Added `footnotesymbol-footnote-numbers` in the example.

[2011/11/26 v1.0e]

- Check for hyperref is only done once.
- Message regarding the misplacement of hyperlinks by LuaL^AT_EX changed from error to warning.
- Replaced `\vspace{2\baselineskip}` by

```
\ifvoid \footins%
\vskip 2\baselineskip%
\else%
\vskip \skip\footins%
\fi%
```

between the `sidewaystables` and their footnotes.

- The warning about un-regarded `para`-option of `footmoisc` package is only given at the second `tablefootnote` in a `sidewaystable`, not repeatedly for every `tablefootnote` in a `sidewaystable`.

[2012/01/01 v1.0f]

- Bugfix: Wrong installation path given in the documentation, fixed.
- Update of documentation, README, and `dtx` internals.

[2012/01/14 v1.0g]

- Bugfix: There was a `relax` instead of a `\relax`, fixed.

[2012/07/29 v1.0h]

- `tablefootnote` is now compatible to the new `footnotebackref` package, 2012/07/01, v1.0, <http://www.ctan.org/pkg/footnotebackref>.

[2014/01/08 v1.1a]

- Tablefootnotes now regard optional footnote marks: `\tablefootnote[custom mark here!]{...}`
- Bug fix: the case of hyperref option `hyperfootnotes=false` was not handled at all. (Bug reported by THOMAS V., 2014/01/02 – thanks!)
- A lot of details.

[2014/01/20 v1.1b]

- Bug fix: Package was broken when `hyperref` was not used. (Bug reported by SVERRE STAUSLAND JOHNSEN – thanks!)

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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