

The **footnotehyper** package

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Abstract

The footnote package by MARK WOODING dates back to 1997 and has not been made **hyperref** compatible. The aim of the present package is to do that. It is barely tested and its state is what I found sufficiently well-working on a current LaTeX document of mine, I have not attempted any in-depth analysis of all possible situations. As version number is at v0.9a, there is room for incorporating suggestions until reaching final v1.0. I promise not to find a mathematical constant in-between and I will certainly not play the 999. .9 game à la XeTeX.

For those who don't know: the footnote package allows via `\savenotes` to gather footnotes and later release them via `\spewnotes`. Thus footnotes emitted from tabulars or minipages are not separated from the general document stream of footnotes, and are printed with the others at bottom of page. This works also for environments like `framed` (in case of multi-page content, the footnotes are delivered in the last page) from the eponymous package and avoids the `\footnotemark/\footnotetext` approach, which anyhow is not immediately **hyperref** compatible. The footnote package has a facility to patch any user-chosen environment to do the `\savenotes/\spewnotes` automatically.

This package provides no facility for handling footnotes from floating environments.

It will load footnote but it is up to the user to take care of **hyperref**.

1 License

```
% Package: footnotehyper
% Version: 0.9a (2016/04/19)
% License: LPPL 1.3c
% Copyright (C) 2016 Jean-Francois Burnol <jfbu at free dot fr>.
%
% This Work may be distributed and/or modified under the conditions
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% LaTeX version 2005/12/01 or later.
%
% The Author of this Work is: Jean-Francois Burnol `<jfbu at free dot fr>`
%
% This Work consists of the main source file footnotehyper.dtx and the
```

2 Usage

% derived files footnotehyper.sty, footnotehyper.ins, footnotehyper.tex,
% footnotehyper.pdf, footnotehyper.dvi.

2 Usage

Please refer to the documentation of the `footnote` package.¹
Particularly you may check its `\makesavenoteenv` command.²

We can try some normal footnote.³

The above was coded⁴ as:

```
\savenotes
\begin{framed}
  Please refer to the documentation of the |footnote| package.%
  \footnote{\url{http://ctan.org/pkg/footnote}}

  Particularly you may check its |\makesavenoteenv| command.%
  \footnote{This won't handle floating environments, though.}
\end{framed}
\spewnotes
```

and the present frame (which has a `\footnote` from inside a `tabular`) also is surrounded by `\savenotes/\spewnotes`. Let's test an `amsmath` environment. As

$$E = mc^2, \tag{1}$$

was too easy,⁵ let's try:

$$F = nd^3. \tag{2}$$

And the final one.⁶

¹<http://ctan.org/pkg/footnote>

²This won't handle floating environments, though.

³Here it is.

⁴Notice that if the present frame extended to next page, the `\spewnotes` command would then (try to) deliver its footnotes to that page.

⁵there is also $E = h\nu$.

⁶Nothing left to say.

3 Implementation

```

1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{footnotehyper}%
3 [2016/04/19 v0.9a hyperref aware footnote.sty (JFB)]

```

no options

```

4 \DeclareOption*{\PackageWarning{footnotehyper}{Option '\CurrentOption' is unknown.}}
5 \ProcessOptions\relax

```

We load footnote but let the hyperref handling to the user.

```

6 \RequirePackage{footnote}
7 \AtBeginDocument{\@ifpackageloaded{hyperref}{}{\PackageWarning{footnotehyper}
8 {hyperref package not loaded!^^} This
9 will surely end up in zillions of error messages.}}}

```

`\fn@fntext` Some amsmath complications. I change the coding, but same effect as original.

```

10 \def\fn@fntext {\ifx\ifmeasuring@\undefined\expandafter\@secondoftwo
11 \else\expandafter\@firstofone\fi
12 {\ifmeasuring@\expandafter\@gobbletwo\fi}%
13 \FNH@fn@fntext }

```

`\FNH@fn@fntext` Original `\fn@fntext` has no `\long`. The patched version does the `\ifHy@nesting` test although hyperref's manual says "Allows links to be nested; no drivers currently support this."

```

14 \long\def\FNH@fn@fntext #1{%
15 \global\setbox\fn@notes\vbox
16 {\unvbox\fn@notes
17 \fn@startnote
18 \@makefntext
19 {\rule\z@\footnotesep\ignorespaces
20 \ifHy@nesting\expandafter\ltx@firstoftwo
21 \else\expandafter\ltx@secondoftwo
22 \fi
23 {\expandafter\hyper@@anchor\expandafter{\Hy@footnote@currentHref}{#1}}%
24 {\Hy@raisedlink
25 {\expandafter\hyper@@anchor\expandafter{\Hy@footnote@currentHref}%
26 {\relax}}}%
27 \let\@currentHref\Hy@footnote@currentHref
28 \let\@currentlabelname\@empty
29 #1}%
30 \@finalstrut\strutbox }%
31 \fn@endnote }%
32 }

```

The final touch in our hack is to patch the original `\spewnotes` for it to use the original, non-hyperref modified, version of `\@footnotetext`.

`\spewnotes`

```

33 \def\spewnotes {\endgroup
34 \if@savingnotes\else\ifvoid\fn@notes\else
35 \begingroup\let\@makefntext\@empty
36 \let\@finalstrut\@gobble

```

3 Implementation

```
37         \let\rule@gobbletwo
38         \H@@footnotetext{\unvbox\fn@notes}%
39     \endgroup\fi\fi
40 }
41 \endinput
```

Let me repeat I have barely tested on a few examples that it does at all work! One of the main test being the present documentation. . .