FNPCT

vo.2j 2013/02/28

footnote kerning

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English documentation

The **fnpct** package basically does two things to footnotes: if footnote marks are followed by a punctuation mark the order of footnote and punctuation mark is reversed and the kerning gets adjusted. As a side effect a new method of creating multiple footnotes and some other features are provided.

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1 License and Requirements

Permission is granted to copy, distribute and/or modify this software under the terms of the LATEX Project Public License, version 1.3 or later (http://www.latex-project.org/lppl.txt). The package has the status "maintained."

FNPCT depends on the packages l3kernel, xparse, l3keys2e and scrlfile.

2 What's it all about?

2.1 Introduction

The purpose of this package is to offer kerning for footnote marks, i.e. the superscripts. This is not appropriate for all superscripts. Symbols must be handled differently than numbers. And of course the amount depends on the chosen font. Robert Bringhurst says in *The Elements of Typographic Style*:

Superscripts frequently come at the ends of phrases or sentences. If they are high above the line, they can be kerned over a comma or period, but this may endanger readability, especially if the text is set in a modest size.

The Elements of Typographic Style [Brio4]

FNPCT can not make this decisions for you. It sets some initial values for the comma and the full stop which looked good to me with the tested fonts. Additionally it kerns the superscripts away from words when it follows directly. The amounts of the kerning can be changed using an option.

As a side effect **fnpct** switches the order of the superscript and the following comma or full stop. Additional punctuation marks can be added to the switching behaviour and the amount of kerning can be set for each punctuation mark individually.

2.2 Basics

The **fnpct** package basically does two things to footnotes: if footnote marks are followed by a comma or a full stop¹ the order of footnote and punctuation mark is reversed and the kerning gets adjusted. As a side effect a new method of creating multiple footnotes^{2,3} is provided, see section 4 for details.

In what way is the kerning adjusted? After being placed behind the punctuation mark the footnote mark is moved a little bit back, namely by the amount specified with the option after-punct-space (see section 3). If the footnote mark follows a word *without* being followed by a punctuation, there (obviously) is no order switching and a little space is inserted before the footnote mark, namely the amount specified by the option before-footnote-space (see section 3).

All examples in this documentation use

\renewcommand\thempfootnote{\arabic{mpfootnote}}.

¹ More punctuation marks can be added through a package option. ² like ³ this ⁴ Well, it does not necessarily have to follow a *word*. The important point is *not being followed* by a punctuation mark.

Now, let's see some action:

```
| \begin{minipage}{.4\linewidth}
| \noindent The three little pigs built their houses
| out of straw\footnote{not to be confused with hay},
| sticks\footnote{or lumber according to some sources}
| and bricks\footnote{probably fired clay bricks}.
| \end{minipage}
| The three little pigs built their houses
| out of straw,¹ sticks² and bricks.³
| \frac{1}{1} not to be confused with hay
| or lumber according to some sources
| 3 probably fired clay bricks
```

To ensure that the kerning is set the right way the footnote *must* be placed *before* the full stop or the comma. *The command can look ahead but not look back*. This means if you place the \footnote command after a full stop or a comma it is treated as if following a word, i.e. a thin space is inserted: effectively the opposite of the desired behaviour.

The order-switching can be prevented using a package option since not all countries and languages have the same typographic conventions. In this case the full stop and the comma are moved a bit back.

```
without fnpct with fnpct text.<sup>1</sup> text.<sup>1</sup> text<sup>1</sup>.
```

FIGURE 1: The effect of **FNPCT**.

```
punct-after = true|false
```

Default: false

When true the punctuation sign will be placed *after* the footnote.

Like all options it can also be set using the setup command.

\setfnpct{<options>} Set up options. Can be used anywhere in the document. Some options can only be set in the preamble, though.

```
\setfnpct{punct-after}
\begin{minipage}{.4\linewidth}
\noindent The three little pigs built their houses
out of straw\footnote{not to be confused with hay},
sticks\footnote{or lumber according to some sources}
and bricks\footnote{probably fired clay bricks}.
\end{minipage}
```

```
The three little pigs built their houses
out of straw¹, sticks² and bricks³.

1 not to be confused with hay
2 or lumber according to some sources
3 probably fired clay bricks
```

2.3 Temporarily disable or enable switching

One maybe want to put some footnote marks *before* the punctuation and some after, for example because the first one describes a single word but the second one a whole sentence. For this purpose FNPCT adds a * argument to \footnote and \footnotemark. The complete new syntax now is as follows:

```
\footnote*[<num>]{<footnote text>}<tpunct>
new * argument added. <tpunct> is the optional trailing punctuation mark.
```

```
\footnotemark*[<num>]<tpunct>
```

new * argument added. <tpunct> is the optional trailing punctuation mark.

The * argument temporarily turns off the punctuation/footnote switching. In case you set punct-after = true the * argument temporarily enables the switching.

```
\begin{minipage}{.4\linewidth}
    \noindent The three little pigs built their houses
   out of straw\footnote*{not to be confused with hay},
   sticks\footnote{or lumber according to some sources}
   and bricks\footnote{probably fired clay bricks}.
  \end{minipage}\hfil
  \setfnpct{punct-after}
  \begin{minipage}{.4\linewidth}
   \noindent The three little pigs built their houses
   out of straw\footnote*{not to be confused with hay},
   sticks\footnote{or lumber according to some sources}
   and bricks\footnote{probably fired clay bricks}.
  \end{minipage}
The three little pigs built their houses
                                                  The three little pigs built their houses
out of straw<sup>1</sup>, sticks<sup>2</sup> and bricks.<sup>3</sup>
                                                  out of straw,1 sticks2 and bricks3.
<sup>1</sup> not to be confused with hay
                                                  <sup>1</sup> not to be confused with hay
                                                  <sup>2</sup> or lumber according to some sources
<sup>2</sup> or lumber according to some sources
<sup>3</sup> probably fired clay bricks
                                                  <sup>3</sup> probably fired clay bricks
```

3 Options

Most package options are listed below. They all can be set as a package option or with the \setfnpct command. Most of them are for adjusting the kerning.

Underlined values are set if the option is used without value.

add-punct-marks = <mark>[<space after>][<space before>]

add another punctuation mark for the position switching and spacify kerning if necessary. An existing entry will be overwritten. This option accepts a list of marks.

remove-punct-marks = <mark>

remove punctuation mark from the kerning/position switching behaviour. This option accepts a list of marks.

after-dot-space = <dim>

Default: -.06em

space to be inserted after a footnote mark and before the full stop ("footnote *after* dot"). A negative space will move the full stop further to the footnote mark.

after-comma-space = <dim>

Default: -.06em

space to be inserted after a footnote mark and before the comma ("footnote *after* comma"). A negative space will move the comma further to the footnote mark.

after-punct-space = <dim>

set *all* spaces, i.e. also the ones for marks you've added with add-punct-marks.

punct-after = true|false

Default: false

when true the punctuation sign will be placed *after* the footnote.

before-dot-space = <dim>

Default: -.16em

space to be inserted after a footnote mark and before the full stop ("footnote *before* dot"), i.e. with punct-after = true.

before-comma-space = <dim>

Default: -.16em

space to be inserted after a footnote mark and before the comma ("footnote *before* comma"), i.e. with punct-after = true.

before-punct-space = <dim>

set *all* spaces, i.e. also the ones for marks you've added with add-punct-marks.

before-footnote-space = <dim>

Default: .06em

space to be inserted between a word and the following footnote mark.

dont-mess-around = true|false

Default: false

sets all mentioned lengths to 0pt and punct-after = true. Basically this seems as if you hadn't loaded FNPCT except the multiple footnote commands and \innernote are still available, see sections 4 and 5, respectively.

multiple = true|false

Default: false

lets \footnote be equal to \multfootnote.

mult-fn-delim = <delimiter>

Default: ;

sets the delimiter for the \multfootnote command.

mult-fn-sep = <separator>

Default:,

sets the separator between multiple footnote marks.

```
normal-marks = true|false
```

Default: false

sets the footnote marks in the foot not as superscripts but as normal font. If you're not using a KOMA-Script⁵ class this option will load the package scrextend. See section 6 for more information. *This option can only be set in the preamble*.

So if you want to extend the punctuation switching and kerning to other punctuation marks you can do something like this:

```
\setfnpct{add-punct-marks=!?}
\begin{minipage}{.4\linewidth}
\noindent The three little pigs built their houses
out of straw\footnote{not to be confused with hay}?

Sticks\footnote{or lumber according to some sources}
and bricks\footnote{probably fired clay bricks}!

+ end{minipage}

The three little pigs built their houses
out of straw?¹ Sticks² and bricks!³

1 not to be confused with hay
2 or lumber according to some sources
3 probably fired clay bricks
```

Or with some additional spacing:

```
\setfnpct{add-punct-marks=![.03em]?[.03em]}
\begin{minipage}{.4\linewidth}
\noindent The three little pigs built their houses
out of straw\footnote{not to be confused with hay}?

Sticks\footnote{or lumber according to some sources}
and bricks\footnote{probably fired clay bricks}!
\end{minipage}

The three little pigs built their houses
out of straw?¹ Sticks² and bricks!³

¹ not to be confused with hay
² or lumber according to some sources
³ probably fired clay bricks
```

Let's take a look at an example with some ridiculous settings:

⁵ CTAN: KOMA-Script

```
% some ridiculous settings:

\setfnpct{after-punct-space=2pt,before-footnote-space=2pt}

\begin{minipage}{.4\linewidth}

\noindent The three little pigs built their houses

out of straw\footnote{not to be confused with hay},

sticks\footnote{or lumber according to some sources}

and bricks\footnote{probably fired clay bricks}.

\end{minipage}

The three little pigs built their houses

out of straw, ¹ sticks ² and bricks. ³

¹ not to be confused with hay

² or lumber according to some sources

³ probably fired clay bricks
```

And now the same with switched order:

```
% some ridiculous settings:

\setfnpct{punct-after, before-punct-space=2pt, before-footnote-space=2pt}

\begin{minipage}{.4\linewidth}

\noindent The three little pigs built their houses

out of straw\footnote{not to be confused with hay},

sticks\footnote{or lumber according to some sources}

and bricks\footnote{probably fired clay bricks}.

\end{minipage}

The three little pigs built their houses

out of straw 1, sticks 2 and bricks 3.

\[ \frac{1}{1} \text{ not to be confused with hay} \]

or lumber according to some sources

\]

probably fired clay bricks
```

In case the automatic kerning doesn't work for whatever reason the spaces are available as user commands as well:

\kfp

```
insert the after-dot-space or (if punct-after = true) the before-dot-space.
```

\kfc

```
insert the after-comma-space or (if punct-after = true) the before-comma-space.
```

Some of the options are explained in a bit more detail in the next sections.

4 Multiple footnotes

4.1 Basics

Since multiple footnotes have to be treated differently,^{6,7} **FNPCT** provides an extra command for that:

```
\multfootnote*{<list>;<of>;<footnotes>}<tpunct>
```

different footnotes are separated with a semicolon. The * turns the footnote/punctuation switching temporarily off.

Every of the items of the list has an optional argument equivalent to the optional argument of \footnotetext:

\multfootnote{*[<mark>]<footnote text>;...}

⁶ see these footnotes ⁷ for an example

Additionally every item has an optional * which only invokes \footnotetext. This enables for example to set nested footnotes without disrupting the multiple setting. The following example is shown in figure 2:

```
\documentclass{article}
   \usepackage[
     paperwidth=.5\textwidth,
     paperheight=12\baselineskip,
     margin=5pt,
     bottom=1.5cm]{geometry}
   \usepackage{fnpct}
10 \begin{document}
    \noindent The three little pigs built their houses
11
     out of straw\footnote{not to be confused with hay},
12
     sticks\footnote{or lumber according to some sources}
13
     and bricks\multfootnote{probably fired clay bricks%
14
     \footnotemark;*or something else;what do I know}.
15
   \end{document}
```

```
The three little pigs built their houses out of straw, 1 sticks 2 and bricks. 3,5

1 not to be confused with hay 2 or lumber according to some sources 3 probably fired clay bricks 4 or something else 5 what do I know

1
```

FIGURE 2: nested footnotes

4.2 The delimiter and separator

Since the semicolon might be part of the footnote text you might have some trouble. But there are ways around. Maybe try enclosing it in braces:

```
\begin{minipage}{.4\linewidth}
\noindent The three little pigs built their houses
out of straw\footnote{not to be confused with hay},
sticks\footnote{or lumber according to some sources}
and bricks\multfootnote{probably fired clay bricks{;}
or something else; what do I know}.
\end{minipage}

The three little pigs built their houses
out of straw, sticks and bricks. And bricks and bricks. And bricks and bricks. And bricks are represented by the pigs bricks and bricks. And bricks are represented by the pigs bricks are represented by the pigs bricks. And bricks are represented by the pigs bricks are represented by the pigs bricks. And bricks are represented by the pigs bricks are represented by the pigs bricks. And bricks are represented by the pigs bricks are represented by the pigs bricks. And bricks are represented by the pigs bricks are represented by the pigs bricks.

In the pigs bricks are represented by the pigs bricks are represented by the pigs bricks. And bricks are represented by the pigs bricks are represented by the pigs bricks are represented by the pigs bricks.

The three little pigs built their houses by the pigs bricks are represented by the pigs bricks are represented by the pigs bricks.

The three little pigs bricks are represented by the pigs bricks are represented by the pigs bricks.

The three little pigs bricks are represented by the pigs bricks are represented by the pigs bricks.

The three little pigs bricks are represented by the pigs bricks are represented by the pigs bricks.

The three little pigs bricks are represented by the pigs bricks are represented by the pigs bricks.

The three little pigs bricks are represented by the pigs bricks are represented by the pigs bricks.

The three little pigs bricks are repr
```

There also are options which lets you choose the (input) delimiter and the (output) separator:

```
mult-fn-sep = <separator>
Default: ,
```

choose the separator that is put between footnote marks.

```
\setfnpct{mult-fn-delim=//,mult-fn-sep=;}
\begin{minipage}[t]{.4\linewidth}
\noindent The three little pigs built their houses
out of straw\footnote{not to be confused with hay},
sticks\footnote{or lumber according to some sources}
and bricks\multfootnote{probably fired clay bricks;
or something else//what do I know}.
\end{minipage}\hfil
\setfnpct{mult-fn-delim=;,mult-fn-sep=}
\renewcommand*\thempfootnote{\fnsymbol{mpfootnote}}
\begin{minipage}[t]{.4\linewidth}
\noindent The three little pigs built their houses
out of straw\footnote{not to be confused with hay},
sticks\footnote{or lumber according to some sources}
 and bricks\multfootnote{probably fired clay bricks;
 or something else}.
\end{minipage}
```

The three little pigs built their houses out of straw, sticks and bricks. 3;4

- ¹ not to be confused with hay
- ² or lumber according to some sources
- ³ probably fired clay bricks; or something else
- 4 what do I know

The three little pigs built their houses out of straw,* sticks† and bricks.‡§

- * not to be confused with hay
- † or lumber according to some sources
- ‡ probably fired clay bricks
- § or something else

4.3 Automagic

If you want you can turn all footnotes into \multfootnotes.

```
multiple = true|false
```

Default: false

let \footnote behave like \multfootnote. This option can only be set in the preamble.

```
% in preamble: \setfnpct{multiple}
% or \usepackage[multiple]{fnpct}
\begin{minipage}{.4\linewidth}
\noindent The three little pigs built their houses
out of straw\footnote{not to be confused with hay},
sticks\footnote{or lumber according to some sources}
and bricks\footnote{probably fired clay bricks;or
something else}.
\end{minipage}

The three little pigs built their houses
out of straw,¹ sticks² and bricks.³,⁴

¹ not to be confused with hay
² or lumber according to some sources
³ probably fired clay bricks
⁴ or something else
```

5 Nested Footnotes

FNPCT provides preliminary support for nested footnotes. There are some restrictions, though. The command below can be used inside \footnote and \multfootnote, but not inside another \innernote. \innernote really is a "inner footnote", it doesn't work with endnotes, for example.

```
\innernote*[<mark>]{<text>}<tpunct>
a nested footnote.
```

The inner node uses a \footnotemark internally and the mark will be set with the definition it has at begin document.

The output of the following code can be seen in figure 3.

```
\documentclass{article}
   \usepackage[
     paperwidth=.5\textwidth,
     paperheight=12\baselineskip,
     margin=5pt,
     bottom=1.5cm]{geometry}
   \usepackage{fnpct}
10 \begin{document}
     \noindent The three little pigs built their houses
11
     out of straw\footnote{not to be confused with hay},
12
     sticks\footnote{or lumber according to some sources}
13
     and bricks\footnote{probably fired clay bricks%
14
     \innernote{or not}}.
15
16 \end{document}
```

```
The three little pigs built their houses out of straw, sticks and bricks.

1 not to be confused with hay
2 or lumber according to some sources
3 probably fired clay bricks 4
4 or not
```

FIGURE 3: \innernote example (a)

This is especially useful if you have more than one additional footnote inside a footnote, a case that can't be solved in a satisfying (i.e. automatic) way with the method mentioned in section 4. See figure 4 for the output of this code:

```
| \documentclass{article}
| \usepackage[
| a paperwidth=.5\textwidth,
| a paperheight=12\baselineskip,
| b margin=5pt,
| b bottom=1.5cm]{geometry}
| a \usepackage{fnpct}
| begin{document}
| \underset{noindent} The three little pigs built their houses
```

```
out of straw\footnote{not to be confused with hay},
sticks\footnote{or lumber according to some sources}
and bricks\footnote{probably\innernote{just guessing}}
fired clay bricks\innernote{or not}}.
\end{document}
```

```
The three little pigs built their houses out of straw, 1 sticks 2 and bricks. 3

1 not to be confused with hay
2 or lumber according to some sources
3 probably 4 fired clay bricks 5
4 just guessing
5 or not
```

FIGURE 4: \innernote example (b)

\innernote can also be used to escape minipages. In this case use \innernote as a replacement for \footnote and call this command later:

\writeinnernotes

writes all \footnotetexts to the inner footnotes when invoked. This is usually done automatically by the \footnote command but there are possible needs for it.

See figure 5 for the output of the following code:

```
18
19 \end{document}
```

```
The three little pigs built their houses out of straw, sticks and bricks. 

Inot to be confused with hay or lumber according to some sources probably
```

FIGURE 5: \innernote example (c)

6 Normal notes

The package option normal-marks (see p. 6) changes the layout of the footnote marks in the foot by using KOMA-Script's

\deffootnote[<mark indent>]{<indent>}{<par indent>}{<format code>}.

The following code is shown in figure 6.

```
\documentclass{article}
\usepackage[
    paperwidth=.5\textwidth,
    paperheight=12\baselineskip,
    margin=5pt,
    bottom=1.5cm]{geometry}

\usepackage[normal-marks]{fnpct}

\usepackage[normal-marks]{fnpct}

\usepackage[normal-marks] \text{fnpct}}

\underset{\usepackage[normal-marks]} \text{their houses}

out of straw\footnote{not to be confused with hay},
    sticks\footnote{or lumber according to some sources}

and bricks\footnote{probably fired clay bricks}.

\underset{\underset{end{document}}
}
```

The three indent values used by **FNPCT** can be changed with the following options:

The three little pigs built their houses out of straw,¹ sticks² and bricks.³

- 1. not to be confused with hay
- 2. or lumber according to some sources
- 3. probably fired clay bricks

1

FIGURE 6: Demonstration of the normal-marks option.

```
normal-mark-width = <dim>
Default: 1em
```

The width of the box within which the marks are set.

```
normal-indent = <dim> Default: 1.5em
```

The indent of each footnote line *except* the first.

```
normal-par-indent = <dim>
Default: 1em
```

Additional indent of a new paragraph inside the footnote text.

7 Other packages

FNPCT tries its best to support other footnote and related packages.⁸ Each of the following subsections is dedicated to one of these packages and if and how they work together with **FNPCT**. Fortunately most of them do quite well.

7.1 bigfoot

The bigfoot ⁹ [Kaso6] package extends the possibilities of the manyfoot ¹⁰ package [Rozo5] (see section 7.5). The main visible feature is to use different classes of footnotes which are typeset in different apparatus on the bottom of the page.

FNPCT is compatible with bigfoot. You need to be a bit cautious, though. You need to

declare footnotes with \DeclareNewFootnote after loading FNPCT but in the document preamble.

Also verbatim material won't work inside footnotes anymore. But you can of course use Bruno Le Floch's cprotect¹¹ if you really need verbatim material in footnotes and want to use FNPCT. Since FNPCT does not redefine any \footnotetext like command it will still work inside one of them.

⁸ If you find some package missing please let me know. ⁹ CTAN: bigfoot ¹⁰ CTAN: manyfoot ¹¹ CTAN: cprotect

For every footnote class defined with \DeclareNewFootnote the commands \footnote<class> and \footnotemark<class> are redefined with the starred variant and a \multfootnote<class> is defined. The multiple option will turn all \footnote<class> commands into the corresponding \multfootnote<class>.

FNPCT has an additional package option which *cannot* be set with \setfnpct and only has any effects if bigfoot has been loaded:

 $\frac{\text{bigfoot-default-top}}{\text{false}} = \frac{\text{true}}{\text{false}} + \text{sets the default footnote class as top layer. Default} = \frac{\text{false}}{\text{false}}$

Since this document cannot easily combine *every* footnote package at the same time for demonstration purposes the following code is shown in figure 7:

```
\documentclass{article}
   \usepackage[
     paperwidth=.5\textwidth,
     paperheight=12\baselineskip,
     margin=5pt,
    bottom=1.5cm]{geometry}
8 \usepackage{bigfoot}
9 \usepackage[bigfoot-default-top]{fnpct}
10 \setfnpct{multiple}
\DeclareNewFootnote[para]{B}[alph]
   \begin{document}
13
14
   \noindent The three little pigs built their houses
15
   out of straw\footnote*{not to be confused with hay%
   \footnoteB{let alone grass}}, sticks\footnote{or
   lumber according to some sources} and bricks%
   \footnote{probably fired clay bricks;or something}.
21 \end{document}
```

7.2 endnotes

The endnotes¹² [Fai12] package povides the commands \endnote and \endnotemark which can be used to output all notes at the end of a chapter, say.

If the package is loaded both commands are adapted 13:

```
% 'fnpct' does this for you:

AdaptNote\endnote\multendnote

AdaptNoteMark\endnotemark
```

¹² CTAN: endnotes ¹³ see section 8 on manual adaption

The three little pigs built their houses out of straw¹, sticks² and bricks.^{3,4}

1 not to be confused with hay^a
2 or lumber according to some sources
3 probably fired clay bricks
4 or something
alet alone grass

1

FIGURE 7: bigfoot example

Everything else stays the same:

```
\begin{minipage}[t]{.4\linewidth}
    \noindent The three little pigs built their houses
    out of straw\endnote{not to be confused with hay},
    sticks\endnote{or lumber according to some sources}
    and bricks\endnote{probably fired clay bricks}.
   \theendnotes
   \end{minipage}\hfil
   \begin{minipage}[t]{.4\linewidth}
   \noindent The three little pigs built their houses
    out of straw\endnote*{not to be confused with hay},
    sticks\endnote{or lumber according to some sources}
    and bricks\multendnote{probably fired clay bricks;or
    something else}.
    \theendnotes
  \end{minipage}
The three little pigs built their houses
                                                  The three little pigs built their houses
out of straw,1 sticks2 and bricks.3
                                                  out of straw<sup>4</sup>, sticks<sup>5</sup> and bricks.<sup>6,7</sup>
Notes
                                                  Notes
   <sup>1</sup>not to be confused with hay
                                                     <sup>4</sup>not to be confused with hay
   <sup>2</sup>or lumber according to some sources
                                                     <sup>5</sup>or lumber according to some sources
   <sup>3</sup>probably fired clay bricks
                                                     <sup>6</sup>probably fired clay bricks
                                                     <sup>7</sup>or something else
```

7.3 enotez

The enotez¹⁴ [Nie12] package povides the command \endnote which can be used to output all notes at the end of a chapter, say.

If the package is loaded the command is adapted 15:

```
% 'fnpct' does this for you:
AdaptNote\endnote\multendnote
```

7.4 fixfoot

The fixfoot ¹⁶ [Faio7] package provides a possibility to create repeating footnotes. **FNPCT** supports this package provided you take care of the following:

Use \DeclareFixedFootnote only in the preamble but after loading FNPCT.

\DeclareFixedFootnote \cs\{<footnote text>\} is used to store the \{<footnote text>\} in \cs which in turn creates a footnote mark for it but doesn't repeat the footnote text on the same page in the bottom. The document needs several runs to get all the numbers and footnotes right.

Every fixed footnote declared with \DeclareFixedFootnote gets an optional * to prevent the punctuation switching. *There is* no *mult-variant of the fixed notes!*

Since this document cannot easily combine *every* footnote package at the same time for demonstration purposes the following code is shown in figure 8:

```
\documentclass{article}
  \usepackage[
    paperwidth=.55\textwidth,
    paperheight=12\baselineskip,
    margin=5pt,
    bottom=1.5cm]{geometry}
8 \usepackage{fixfoot}
   \usepackage{fnpct}
   \DeclareFixedFootnote{\myfn}{I'm confused: what do I want to say?}
12
\begin{document}
14
   \mbox{\sc noindent} The three little pigs\mbox{\sc myfn}\ built their houses
   out of straw\myfn*, sticks\footnote{or lumber according
   to some sources} and bricks footnote\{probably fired clay\}
18 bricks}.
```

 $^{^{14}}$ CTAN: enotez 15 see section 8 on manual adaption 16 CTAN: fixfoot

20 \end{document}

The three little pigs¹ built their houses out of straw¹, sticks² and bricks.³

¹I'm confused: what do I want to say?

 2 or lumber according to some sources

³probably fired clay bricks

1

FIGURE 8: fixfoot example

7.5 footmisc

The footmisc¹⁷ package [Fai11] provides a range of options to customize footnotes, for example output them as margin notes or count footnotes per page.

Testing showed no incompatibilities with footmisc. The only thing is that you won't have to (and shouldn't) use its multiple option.

7.6 footnote

Unfortunately **FNPCT** is not compatible with the footnote ¹⁸ package [Woo97]. Or more precisely it is not compatible if the command pair \savenotes/\spewnotes is invoked. This disables footnote's environments as well as its environment escaping mechanism through \makesavenoteenv.

7.7 manyfoot

The manyfoot package [Rozo5] is not and will not directly be supported. It is loaded by bigfoot (see section 7.1), anyway. And since the latter states in its documentation

Purpose of this package is to provide a one-stop solution to almost all problems related to footnotes. You can use it as a drop-in replacement of the 'manyfoot' package, but without many of its shortcomings, and quite a few features of its own.

*David Kastrup [Kaso6]

you should probably prefer it anyway.

If it is *really* wanted by users I might change my opinion, though ...

¹⁷ CTAN: footmisc ¹⁸ CTAN: footnote

7.8 pagenote

The package pagenote ¹⁹ [Robo9] is supported and its \pagenote command is treated the same way as all other note commands: it got an optional * argument and an additional \multpagenote is defined.

7.9 parnotes

The function of the package parnotes²⁰ [Hug12] is similar to the endnotes package. basically it allows to output the footnote text after a paragraph, either by using a special environment or by invoking \parnotes.

If parnotes is loaded **fnpct** extends its functionality analogous to the one of endnotes. Again the **multiple** option turns all **parnotes** into **multiple**.

```
\begin{minipage}[t]{.4\linewidth}
   \noindent The three little pigs built their houses
   out of straw\parnote{not to be confused with hay},
   sticks\parnote{or lumber according to some sources}
   and bricks\parnote{probably fired clay bricks}.
   \parnotes
  \end{minipage}\hfil
  \begin{minipage}[t]{.4\linewidth}
   \noindent The three little pigs built their houses
   out of straw\parnote*{not to be confused with hay},
   sticks\parnote{or lumber according to some sources}
   and bricks\multparnote{probably fired clay bricks;or
   something else}.
   \parnotes
  \end{minipage}
The three little pigs built their houses
                                                 The three little pigs built their houses
                                                 out of straw<sup>4</sup>, sticks<sup>5</sup> and bricks.<sup>6,7</sup>
out of straw,1 sticks2 and bricks.3
<sup>1</sup> not to be confused with hay <sup>2</sup> or lumber
                                                 <sup>4</sup> not to be confused with hay <sup>5</sup> or lumber
according to some sources <sup>3</sup> probably
                                                 according to some sources <sup>6</sup> probably
fired clay bricks
                                                 fired clay bricks 7 or something else
```

7.10 sepfootnotes

FNPCT supports the sepfootnotes²¹ package [Lim13]. Each note type you have created with with one of the commands

```
\newfootnotes{<prefix>},
\newendnotes{<prefix>} or
\newsymbolfootnotes{<prefix>}

19 CTAN: pagenote 20 CTAN: parnotes 21 CTAN: sepfootnotes
```

gets the additional optional * to prevent punctuation switching. Also the corresponding mult-variant \refix>multnote is defined. The option multiple again turns all note commands into their mult-variant.

You have to use the \newfootnotes commands in the document preamble after loading FNPCT.

```
% preamble \newfootnotes{a}

anotecontent{first}{not to be confused with hay}

anotecontent{second}{or lumber according to some sources}

anotecontent{third}{probably fired clay bricks}

begin{minipage}{.4\linewidth}

noindent The three little pigs built their houses

out of straw\anote{first}, sticks\anote{second} and

bricks\anote{third}.

end{minipage}

The three little pigs built their houses

out of straw,¹ sticks² and bricks.³

not to be confused with hay

or lumber according to some sources

probably fired clay bricks
```

7.11 sidenotes

The package sidenotes²² [Tho11] is supported and its commands \sidenote, \sidenotemark and \sidecite are treated the same way as footnotes: they got an optional * argument and the additional \multsidenote and \multsidecite are created. The option multiple turns all note commands into their mult-variant.

7.12 tablefootnote

The package tablefootnote ²³ [Mün12] is supported and its \tablefootnote command is treated the same way as all other note commands: it got an optional * argument and an additional \multtablefootnote is defined. The option multiple turns all note commands into their mult-variant.

7.13 yafoot

Currently no issues are known when using **FNPCT** with one or all of the packages of the yafoot²⁴ [Nak99] bundle. Just for reference: these packages are pfnote, fnpos and dblfnote.

²² CTAN: sidenotes ²³ CTAN: tablefootnote ²⁴ CTAN: yafoot

8 Adapting note commands

If a package is not natively supported you can try and adapt commands yourself. You'll need to use one of the following commands. Please be aware that if the adapted command does not match the required syntax it will get the required syntax afterwards. This can result in dummy arguments or an overwritten * argument.

\AdaptNote{\cs}{\multcs} → this lets \cs adapt to the kerning behaviour and adds an optional
*. It also creates a corresponding mult-variant. The package option multiple will now turn
\cs into its mult-variant. Required syntax: \cs[<oarg>]{<marg>}

\AdaptNoteNoMult{\cs} → like \AdaptNote but doesn't create a mult-variant and thus there is no change in behaviour when the option multiple is used. Required syntax: \cs [<oarg>] {<marg>}

\AdaptNoteOpt{\cs}{\multcs} → this lets \cs adapt to the kerning behaviour and adds an optional *. It also creates a corresponding mult-variant. The package option multiple will now turn \cs into its mult-variant. Required syntax: \cs[<oarg>][<oarg>]{<marg>}

 $\AdaptNoteMark{\cs} \rightarrow this lets \cs adapt to the kerning behaviour and adds an optional *. Required syntax: \cs[<oarg>]$

strict = true|false → when true \AdaptNote (and the others) will issue errors if the note
command in question has already been adapted. Default = false

8.1 tufte-latex's side notes

For example using the \sidenote command from the tufte-handout 25 class is easily possible, see also figure 9:

```
\documentclass{tufte-handout}
\usepackage[multiple]{fnpct}
\AdaptNote\sidenote\multsidenote
\begin{document}

Some text in the document body\sidenote{Some
text in a sidenote.; A second sidenote.}.
\end{document}
```

8.2 Adapting \footcite and siblings

If you're willing to sacrifice \footcite's * argument (which it has in some styles) you can adapt the commands provided by biblatex²⁶ as well:

²⁵ CTAN: tufte-handout ²⁶ CTAN: biblatex

```
Some text in the document body. 1,2 'Some text in a sidenote.

'A second sidenote
```

FIGURE 9: Adapt tufte-latex.

```
% used in preamble: \AdaptNoteOpt\footcite\multfootcite
  \begin{minipage}{.5\linewidth}
   \noindent The three little pigs built their houses
   out of straw\footnote{not to be confused with hay},
   sticks\footnote{or lumber according to some sources}
   and bricks\footnote{probably fired clay bricks}. The
   companion has nothing on this topic\multfootcite{[see]
   [but there's nothing there]companion;[or see][but there's
   also nothing]knuth:ct:a}.
  \end{minipage}
The three little pigs built their houses out of
straw,1 sticks2 and bricks.3 The companion has
nothing on this topic.4,5
<sup>1</sup> not to be confused with hay
<sup>2</sup> or lumber according to some sources
<sup>3</sup> probably fired clay bricks
 see GMS94, but there's nothing there.
<sup>5</sup> or see Knu84, but there's also nothing.
```

The option multiple turns all \footcites into \multfootcites now. Remember that the optional arguments then are inside the braces!

```
% used in preamble: \AdaptNoteOpt\footcite\multfootcite
% with option 'multiple':
% \begin\minipage\{.5\linewidth\}
\noindent The three little pigs built their houses
out of straw\footnote\not to be confused with hay\},
sticks\footnote\{or lumber according to some sources\}
and bricks\footnote\{probably fired clay bricks\}. The
companion has nothing on this topic\footcite\{[see][but there's nothing there]companion;[or see][but there's also nothing]knuth:ct:a\}.
\end\{\minipage\}
```

The three little pigs built their houses out of straw,¹ sticks² and bricks.³ The companion has nothing on this topic.^{4,5}

- ¹ not to be confused with hay
- ² or lumber according to some sources
- ³ probably fired clay bricks
- ⁴ see GMS94, but there's nothing there.
- ⁵ or see Knu84, but there's also nothing.

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