

F N P C T

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footnote kerning

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English documentation

The **F N P C T** package basically does two things to footnotes: if footnote marks are followed by a comma or a dot 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

`FNPCT` is placed under the terms of the LaTeX Project Public License, version 1.3 or later (<http://www.latex-project.org/lppl.txt>). It has the status “maintained”.

`FNPCT` depends on the `l3kernel`¹ and `xparse` which is part of the `l3packages`² bundle.

2 What’s it all about?

2.1 Basics

The `FNPCT` package basically does two things to footnotes: if footnote marks are followed by a comma or a dot 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^{3,4} is provided, see section 4 for details.

All examples in this documentation use

```
\renewcommand\thempfootnote{\arabic{mpfootnote}}
```

Now, let’s see some action:

```
1 \begin{minipage}{.4\linewidth}
2 \noindent The three little pigs built their houses
3 out of straw\footnote{not to be confused with hay},
4 sticks\footnote{or lumber according to some sources}
5 and bricks\footnote{probably fired clay bricks}.
6 \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

To ensure that the kerning is set the right way the footnote *must* be placed *before* the dot or the comma. The command can look ahead but not look back. This means if you place the `\footnote` command after a dot 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.

- `punct-after` = `true/false` → when true the punctuation sign will be placed *after* the footnote.

which like all options 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.

¹ CTAN: `l3kernel` ² CTAN: `l3packages` ³ like ⁴ this

```

1 \setfnpct{punct-after}
2 \begin{minipage}{.4\linewidth}
3 \noindent The three little pigs built their houses
4 out of straw\footnote{not to be confused with hay},
5 sticks\footnote{or lumber according to some sources}
6 and bricks\footnote{probably fired clay bricks}.
7 \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

2.2 Temporarily disable 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`:

► `\footnote*{<num>}{<footnote text>}` → new `*` argument added.

► `\footnotemark*{<num>}` → new `*` argument added.

This argument temporarily turns off the punctuation/footnote switching.

```

1 \begin{minipage}{.4\linewidth}
2 \noindent The three little pigs built their houses
3 out of straw\footnote*{not to be confused with hay},
4 sticks\footnote{or lumber according to some sources}
5 and bricks\footnote{probably fired clay bricks}.
6 \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

Please be aware that this package is in an experimental state and there hasn't been extensive testing with other footnote behaviour changing packages!

3 Options

All 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.

- ▶ `after-dot-space` = `<dim>` → space to be inserted after a dot and before the footnote mark. Default = `-.06em`
- ▶ `after-comma-space` = `<dim>` → space to be inserted after a comma and before the footnote mark. Default = `-.06em`
- ▶ `after-punct-space` = `<dim>` → set both spaces.
- ▶ `punct-after` = `true/false` → when `true` the punctuation sign will be placed *after* the footnote.
- ▶ `before-dot-space` = `<dim>` → space to be inserted before a dot and after the footnote mark, i.e. with `punct-after` = `true`. Default = `-.15em`
- ▶ `before-comma-space` = `<dim>` → space to be inserted before a comma and after the footnote mark, i.e. with `punct-after` = `true`. Default = `-.15em`
- ▶ `before-punct-space` = `<dim>` → set both spaces.
- ▶ `before-footnote-space` = `<dim>` → space to be inserted between a word and the following footnote mark. Default = `.06em`
- ▶ `dont-mess-around` → sets all mentioned lengths to 0 and `punct-after` = `true`. Basically this is as if you hadn't loaded `FNPCT` except the multiple footnote command is still available, see section 4.
- ▶ `multiple` = `true/false` → lets `\footnote` be equal to `\multfootnote`
- ▶ `mult-fn-delim` = `<delimiter>` → sets the delimiter for the `\multfootnote` command.
- ▶ `mult-fn-sep` = `<separator>` → sets the separator between multiple footnote marks.
- ▶ `normal-marks` = `true/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 ?? for more information. *This option can only be set in the preamble.* Default = `false`

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

⁵ CTAN: [KOMA-Script](#)

```

1 % some ridiculous settings:
2 \setfnpct{after-punct-space=2pt,before-footnote-space=2pt}
3 \begin{minipage}{.4\linewidth}
4 \noindent The three little pigs built their houses
5 out of straw\footnote{not to be confused with hay},
6 sticks\footnote{or lumber according to some sources}
7 and bricks\footnote{probably fired clay bricks}.
8 \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

And now the same with switched order:

```

1 % some ridiculous settings:
2 \setfnpct{punct-after,before-punct-space=2pt,before-footnote-space=2
3 pt}
4 \begin{minipage}{.4\linewidth}
5 \noindent The three little pigs built their houses
6 out of straw\footnote{not to be confused with hay},
7 sticks\footnote{or lumber according to some sources}
8 and bricks\footnote{probably fired clay bricks}.
9 \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

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

⁶ see these footnotes ⁷ for an example

```

1 \begin{minipage}{.4\linewidth}
2 \noindent The three little pigs built their houses
3 out of straw\footnote{not to be confused with hay},
4 sticks\footnote{or lumber according to some sources}
5 and bricks\multfootnote{probably fired clay bricks;or
6 something else}.
7 \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

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

```

1 \begin{minipage}{.4\linewidth}
2 \noindent The three little pigs built their houses
3 out of straw\footnote{not to be confused with hay},
4 sticks\footnote{or lumber according to some sources}
5 and bricks\multfootnote{probably fired clay bricks;[5]or
6 something else}.
7 \end{minipage}

```

The three little pigs built their houses
out of straw,¹ sticks² and bricks.^{3,5}

¹ not to be confused with hay

² or lumber according to some sources

³ probably fired clay bricks

⁵ or something else

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 1:

```

1 \documentclass{article}
2 \usepackage[
3   paperwidth=.5\textwidth,
4   paperheight=12\baselineskip,
5   margin=5pt,
6   bottom=1.5cm]{geometry}
7
8 \usepackage[multiple]{fnpct}
9
10 \begin{document}
11 \noindent The three little pigs built their houses

```

```

12 out of straw\footnote{not to be confused with hay},
13 sticks\footnote{or lumber according to some sources}
14 and bricks\multfootnote{probably fired clay bricks%
15 \footnotemark;*or something else;what do I know}.
16 \end{document}

```

The three little pigs built their houses
out of straw,¹ sticks² and bricks.^{3,5}

¹not to be confused with hay
²or lumber according to some sources
³probably fired clay bricks⁴
⁴or something else
⁵what do I know

1

Figure 1: 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 with braces:

```

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

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

► `mult-fn-delim` = <delimiter> → choose delimiter for the `\multfootnote`. Default = ;

- `mult-fn-sep` = <separator> → choose the separator that is put between footnote marks.
Default = ,

<pre> 1 \setfnpct{mult-fn-delim=//,mult-fn-sep=;} 2 \begin{minipage}[t]{.4\linewidth} 3 \noindent The three little pigs built their houses 4 out of straw\footnote{not to be confused with hay}, 5 sticks\footnote{or lumber according to some sources} 6 and bricks\multfootnote{probably fired clay bricks; 7 or something else//what do I know}. 8 \end{minipage}\hfil 9 \setfnpct{mult-fn-delim=;,mult-fn-sep=} 10 \renewcommand*\thempfootnote{\fnsymbol{mpfootnote}} 11 \begin{minipage}[t]{.4\linewidth} 12 \noindent The three little pigs built their houses 13 out of straw\footnote{not to be confused with hay}, 14 sticks\footnote{or lumber according to some sources} 15 and bricks\multfootnote{probably fired clay bricks; 16 or something else}. 17 \end{minipage}</pre>	
<p>The three little pigs built their houses out of straw,¹ sticks² and bricks.^{3;4}</p> <hr/> <p>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</p>	<p>The three little pigs built their houses out of straw,* sticks[†] and bricks.^{‡§}</p> <hr/> <p>* not to be confused with hay [†] or lumber according to some sources [‡] probably fired clay bricks [§] or something else</p>

4.3 Automagic

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

- `multiple` = `true/false` → let `\footnote` behave like `\multfootnote`. *This option can only be set in the preamble.* Default = false

<pre> 1 % in preamble: \setfnpct{multiple} 2 % or \usepackage[multiple]{fnpct} 3 \begin{minipage}{.4\linewidth} 4 \noindent The three little pigs built their houses 5 out of straw\footnote{not to be confused with hay}, 6 sticks\footnote{or lumber according to some sources} 7 and bricks\footnote{probably fired clay bricks;or 8 something else}. 9 \end{minipage}</pre>	
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

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

`FN PCT` provides some support for nested footnotes. There are some restrictions, though. The command below can be used inside `\footnote` and `\multifootnote`, but not inside another `\innernote`:

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

The output of the following code can be seen in figure 2.

```
1 \documentclass{article}
2 \usepackage[
3   paperwidth=.5\textwidth,
4   paperheight=12\baselineskip,
5   margin=5pt,
6   bottom=1.5cm]{geometry}
7
8 \usepackage{fnpct}
9
10 \begin{document}
11   \noindent The three little pigs built their houses
12   out of straw\footnote{not to be confused with hay},
13   sticks\footnote{or lumber according to some sources}
14   and bricks\footnote{probably fired clay bricks%
15     \innernote{or not}}}.
16 \end{document}
```

This is especially useful if you have more than one additional footnote inside a footnote, a case that can't be solved satisfying (i.e. automatic) way with the method mentioned in section 4. See figure 3 for the output of this code:

```
1 \documentclass{article}
2 \usepackage[
3   paperwidth=.5\textwidth,
4   paperheight=12\baselineskip,
5   margin=5pt,
6   bottom=1.5cm]{geometry}
7
8 \usepackage{fnpct}
9
```

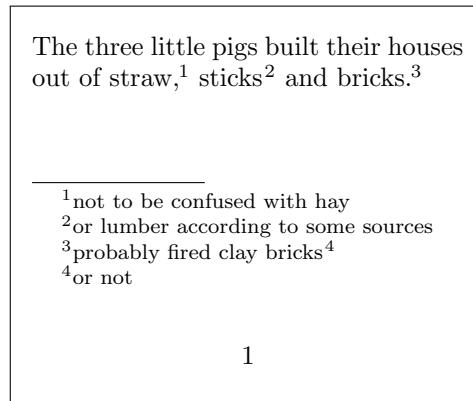


Figure 2: `\innernote` example (a)

```

10 \begin{document}
11   \noindent The three little pigs built their houses
12   out of straw\footnote{not to be confused with hay},
13   sticks\footnote{or lumber according to some sources}
14   and bricks\footnote{probably\innernote{just guessing}
15   fired clay bricks\innernote{or not}}.
16 \end{document}

```

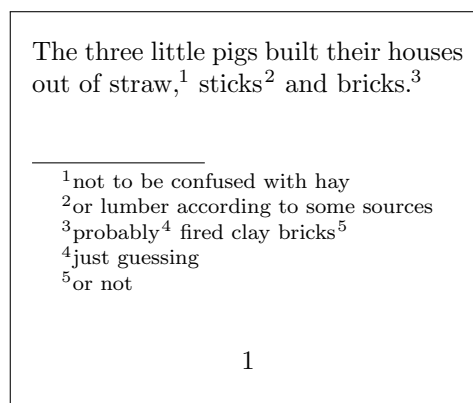


Figure 3: `\innernote` example (b)

`\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

See figure 4 for the output of the following code:

```

1 \documentclass{article}
2 \usepackage[
3   paperwidth=.5\textwidth,
4   paperheight=12\baselineskip,
5   margin=5pt,
6   bottom=1.5cm]{geometry}
7
8 \usepackage{fnpct}
9
10 \begin{document}
11 \noindent\fbbox{%
12 \begin{minipage}{.9\linewidth}
13   The three little pigs built their houses
14   out of straw\innernote{not to be confused with hay},
15   sticks\innernote{or lumber according to some sources}
16   and bricks\innernote{probably}.
17 \end{minipage}}\writeinnernotes
18
19 \end{document}

```

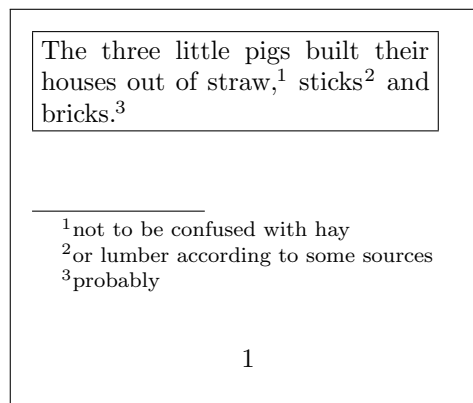


Figure 4: `\innernote` example (c)

6 Footcites

Preliminary testing suggests that `FNPCT` seems to be compatible with the `\footcite` and `\footfullcite` commands provided by the `biblatex`⁸ package. However, the punctuation switching does not apply to them.

The kerning works ...

⁸ CTAN: [biblatex](#)

```

1 \setfnpct{before-footnote-space=2pt}
2 \begin{minipage}{.5\linewidth}
3 \noindent The three little pigs built their houses
4 out of straw\footnote{not to be confused with hay},
5 sticks\footnote{or lumber according to some sources}
6 and bricks\footnote{probably fired clay bricks}. The
7 companion\footfullcite{companion} has nothing on this
8 topic.
9 \end{minipage}

```

The three little pigs built their houses out of straw,¹ sticks² and bricks.³ The companion⁴ has nothing on this topic.

¹ not to be confused with hay

² or lumber according to some sources

³ probably fired clay bricks

⁴ Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The LaTeX Companion*. 1st ed. Reading, Mass.: Addison-Wesley, 1994. 528 pp.

... but the punctuation switching doesn't:

```

1 \begin{minipage}{.5\linewidth}
2 \noindent The three little pigs built their houses
3 out of straw\footnote{not to be confused with hay},
4 sticks\footnote{or lumber according to some sources}
5 and bricks\footnote{probably fired clay bricks}. The
6 companion has nothing on this topic\footfullcite{companion}.
7 \end{minipage}

```

The three little pigs built their houses out of straw,¹ sticks² and bricks.³ The companion has nothing on this topic⁴.

¹ not to be confused with hay

² or lumber according to some sources

³ probably fired clay bricks

⁴ Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The LaTeX Companion*. 1st ed. Reading, Mass.: Addison-Wesley, 1994. 528 pp.

One can simulate that behaviour by actively setting one of these commands:

- `\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`.

```

1 \setfnpct{after-punct-space=-.15em}
2 \begin{minipage}{.5\linewidth}
3 \noindent The three little pigs built their houses
4 out of straw\footnote{not to be confused with hay},
5 sticks\footnote{or lumber according to some sources}
6 and bricks\footnote{probably fired clay bricks}. The
7 companion has nothing on this topic.\kfp\footfullcite{companion}
8 \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

¹ not to be confused with hay

² or lumber according to some sources

³ probably fired clay bricks

⁴ Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The LaTeX Companion*. 1st ed. Reading, Mass.: Addison-Wesley, 1994. 528 pp.

In case of `punct-after = true`:

```

1 \setfnpct{punct-after}
2 \begin{minipage}{.5\linewidth}
3 \noindent The three little pigs built their houses
4 out of straw\footnote{not to be confused with hay},
5 sticks\footnote{or lumber according to some sources}
6 and bricks\footnote{probably fired clay bricks}. The
7 companion has nothing on this topic\footfullcite{companion}\kfp.
8 \end{minipage}

```

The three little pigs built their houses out of straw¹, sticks² and bricks.³ The companion has nothing on this topic⁴.

¹ not to be confused with hay

² or lumber according to some sources

³ probably fired clay bricks

⁴ Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The LaTeX Companion*. 1st ed. Reading, Mass.: Addison-Wesley, 1994. 528 pp.

7 Normal notes

The package option `normal-marks` (see p. 4) 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 5.

```

1 \documentclass{article}
2 \usepackage[
3   paperwidth=.5\textwidth,
4   paperheight=12\baselineskip,
5   margin=5pt,
6   bottom=1.5cm]{geometry}
7
8 \usepackage[normal-marks]{fnpct}
9
10 \begin{document}
11
12 \noindent The three little pigs built their houses
13 out of straw\footnote{not to be confused with hay},
14 sticks\footnote{or lumber according to some sources}
15 and bricks\footnote{probably fired clay bricks}.
16
17 \end{document}

```

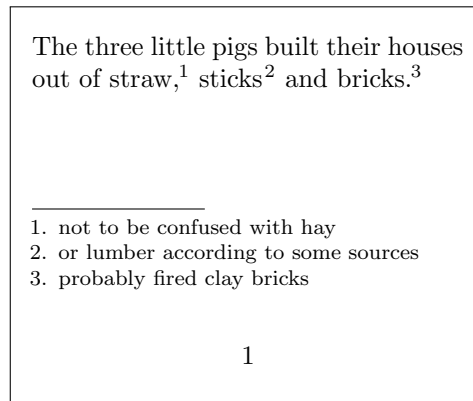


Figure 5: Demonstration of the `normal-marks` option.

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

- `normal-mark-width` = <dim> → The width of the box within which the marks are set. Default = 1em
- `normal-indent` = <dim> → The indent of each footnote line *except* the first. Default = 1.5em
- `normal-par-indent` = <dim> → Additional indent of a new paragraph inside the footnote text. Default = 1em

8 Other packages

`FN PCT` tries its best to support other footnote and related packages.⁹ Each of the following subsections is dedicated to one of these packages and if and how they work together with `FN PCT`. Fortunately most of them work do quite well.

If the note command is simple enough and follows the standard `\footnote` syntax you can always try adapting the command yourself.

- ▶ `\AdaptNote{<csname>}{<new mult-variant>}` this lets `<csname>` adapt to the kerning behaviour and adds an optional `*`. It also creates a corresponding mult-variant. The package option `multiple` will now turn `<csname>` into its mult-variant.
- ▶ `\AdaptNoteMark{<csname>} →` this lets `<csname>` adapt to the kerning behaviour and adds an optional `*`.

For example using the `\sidenote` command from the `tufte-handout`¹⁰ class is easily possible, see also figure 6:

```
1 \documentclass{tufte-handout}
2 \usepackage[multiple]{fnpct}
3 \AdaptNote\sidenote\multsidenote
4 \begin{document}
5 Some text in the document body\sidenote{Some
6 text in a sidenote.;A second sidenote.}.
7 \end{document}
```



Figure 6: Adapt tufte-latex.

8.1 bigfoot

The `bigfoot`¹¹ [6] package extends the possibilities of the `manyfoot`¹² package [11], see section 8.4. The main feature is to use different classes of footnotes which are typeset in different apparatus on the bottom of the page.

`FN PCT` is compatible with `bigfoot`. You need to be a bit cautious, though. You need to

- declare footnotes with `\DeclareNewFootnote` *after* loading `FN PCT` but in the document *preamble*.

⁹ If you find some package missing please let me know. ¹⁰ CTAN: `tufte-handout` ¹¹ CTAN: `bigfoot` ¹² CTAN: `manyfoot`

Also verbatim material won't work inside footnotes anymore. Since `FNPCT` does not redefine any `\footnotetext` like command it will still work inside one of them.

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:

- `bigfoot-default-top = true/false` → sets the default footnote class as top layer. Default = 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:

```
1 \documentclass{article}
2 \usepackage[
3   paperwidth=.5\textwidth,
4   paperheight=12\baselineskip,
5   margin=5pt,
6   bottom=1.5cm]{geometry}
7
8 \usepackage{bigfoot}
9 \usepackage[bigfoot-default-top]{fnpct}
10 \setfnpct{multiple}
11 \DeclareNewFootnote[para]{B}[alph]
12
13 \begin{document}
14
15 \noindent The three little pigs built their houses
16 out of straw\footnote*{not to be confused with hay%
17 \footnoteB{let alone grass}}, sticks\footnote{or
18 lumber according to some sources} and bricks%
19 \footnote{probably fired clay bricks;or something}.
20
21 \end{document}
```

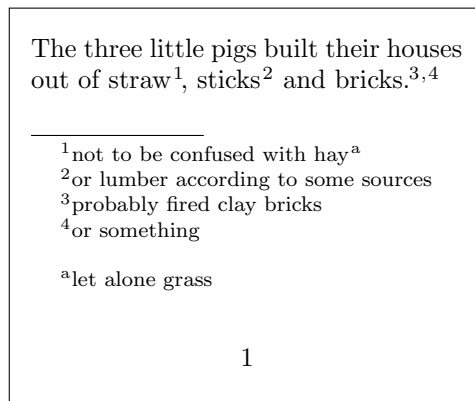



Figure 7: bigfoot example

8.2 endnotes

The endnotes¹³ [1] package provides 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:

```

1 % 'fnpct' does this for you:
2 \AdaptNote\endnote\multendnote
3 \AdaptNoteMark\endnotemark

```

Everything else stays the same:

```

1 \begin{minipage}[t]{.4\linewidth}
2 \noindent The three little pigs built their houses
3 out of straw\endnote{not to be confused with hay},
4 sticks\endnote{or lumber according to some sources}
5 and bricks\endnote{probably fired clay bricks}.
6
7 \theendnotes
8 \end{minipage}\hfil
9 \begin{minipage}[t]{.4\linewidth}
10 \noindent The three little pigs built their houses
11 out of straw\endnote*{not to be confused with hay},
12 sticks\endnote{or lumber according to some sources}
13 and bricks\multendnote{probably fired clay bricks;or
14 something else}.
15
16 \theendnotes
17 \end{minipage}

```

¹³ CTAN: [endnotes](#)

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

Notes

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

The three little pigs built their houses
out of straw⁴, sticks⁵ and bricks.^{6,7}

Notes

- ⁴not to be confused with hay
⁵or lumber according to some sources
⁶probably fired clay bricks
⁷or something else

8.3 fixfoot

The `fixfoot`¹⁴ [2] package provides possibility to create repeating footnotes. `FN PCT` supports this package provided you take care of the following:

- use `\DeclareFixedFootnote` only in the preamble but *after* loading `FN PCT`.

`\DeclareFixedFootnote{\cs}{<footnote text>}` is used to store the `{<footnote text>}` in `\cs` and create a footnote mark for it but don'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* multi-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:

```
1 \documentclass{article}
2 \usepackage[
3   paperwidth=.55\textwidth,
4   paperheight=12\baselineskip,
5   margin=5pt,
6   bottom=1.5cm]{geometry}
7
8 \usepackage{fixfoot}
9 \usepackage{fnpct}
10
11 \DeclareFixedFootnote{\myfn}{I'm confused: what do I want to say?}
12
13 \begin{document}
14
15 \noindent The three little pigs\myfn\ built their houses
16 out of straw\myfn*, sticks\footnote{or lumber according
17 to some sources} and bricks\footnote{probably fired clay
18 bricks}.
19
20 \end{document}
```

¹⁴ CTAN: `fixfoot`

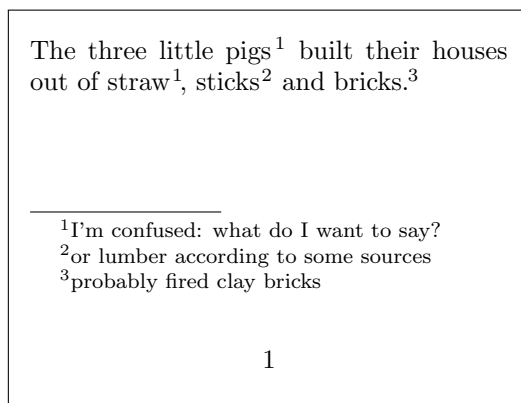


Figure 8: fixfoot example

8.4 footmisc

The `footmisc`¹⁵ package [3] 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 use its `multiple` option.

8.5 footnote

Unfortunately `FNPCT` is not compatible with the `footnote`¹⁶ package [12]. 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`.

8.6 manyfoot

The `manyfoot` package [11] is not and will not directly be supported. It is loaded by `bigfoot` (see section 8.1), anyway. And since the latter states this 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 [6]

you should probably prefer it anyway.

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

8.7 pagenote

The package `pagenote`¹⁷ [10] 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`

¹⁵ CTAN: `footmisc` ¹⁶ CTAN: `footnote` ¹⁷ CTAN: `pagenote`

is defined.

8.8 parnotes

The parnotes¹⁸ package [5] does something 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 `FN PCT` extends its functionality analogous to the one of endnotes.

Again the `multiple` option turns all `\parnotes` into `\multparnotes`.

<pre>1 \begin{minipage}[t]{.4\linewidth} 2 \noindent The three little pigs built their houses 3 out of straw\parnote{not to be confused with hay}, 4 sticks\parnote{or lumber according to some sources} 5 and bricks\parnote{probably fired clay bricks}. 6 7 \parnotes 8 \end{minipage}\hfil 9 \begin{minipage}[t]{.4\linewidth} 10 \noindent The three little pigs built their houses 11 out of straw\parnote*{not to be confused with hay}, 12 sticks\parnote{or lumber according to some sources} 13 and bricks\multparnote{probably fired clay bricks;or 14 something else}. 15 16 \parnotes 17 \end{minipage}</pre>	<div data-bbox="258 1099 718 1267"><p>The three little pigs built their houses out of straw,¹ sticks² and bricks.³</p><p>¹not to be confused with hay ²or lumber according to some sources</p><p>³probably fired clay bricks</p></div> <div data-bbox="718 1099 1348 1303"><p>The three little pigs built their houses out of straw⁴, sticks⁵ and bricks.^{6,7}</p><p>⁴not to be confused with hay ⁵or lumber according to some sources</p><p>⁶probably fired clay bricks ⁷or something else</p></div>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

8.9 sepfootnotes

`FN PCT` supports the sepfootnotes¹⁹ package [7]. Each note type you have created with with one of the commands

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

¹⁸ CTAN: [parnotes](#) ¹⁹ CTAN: [sepfootnotes](#)

gets the additional optional `*` to prevent punctuation switching. Also the corresponding mult-variant `\<prefix>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`.

```

1 % preamble \newfootnotes{a}
2 \anotecontent{first}{not to be confused with hay}
3 \anotecontent{second}{or lumber according to some sources}
4 \anotecontent{third}{probably fired clay bricks}
5 \begin{minipage}{.4\linewidth}
6   \noindent The three little pigs built their houses
7   out of straw\anote{first}, sticks\anote{second} and
8   bricks\anote{third}.
9 \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

8.10 tablefootnote

The package `tablefootnote`²⁰ [8] 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.

8.11 yafoot

Currently no issues are known when using `FNPCT` with one or all of the packages of the `yafoot`²¹ [9] bundle. Just for reference: these packages are `pfnote`, `fnpos` and `dblfnote`.

²⁰ CTAN: `tablefootnote` ²¹ CTAN: `yafoot`

References

- [1] Robin Fairbairns (current maintainer). *endnotes*. URL: <http://www.ctan.org/pkg/endnotes>.
- [2] Robin Fairbairns. *fixfoot*. Version 0.3a. URL: <http://www.ctan.org/pkg/fixfoot>.
- [3] Robin Fairbairns. *footmisc*. Version 5.5b. URL: <http://www.ctan.org/pkg/footmisc>.
- [4] Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The LaTeX Companion*. 1st ed. Reading, Mass.: Addison-Wesley, 1994. 528 pp.
- [5] Micheal Hughes. *parnotes*. Version 1. URL: <http://www.ctan.org/pkg/parnotes>.
- [6] David Kastrup. *bigfoot*. Version 1.25. URL: <http://www.ctan.org/pkg/bigfoot>.
- [7] Eduardo C. Lourenço de Lima. *sepfootnotes*. Version 0.1. URL: <http://www.ctan.org/pkg/sepfootnotes>.
- [8] H.-Martin Münch. *tablefootnote*. Version 1.0g. URL: <http://www.ctan.org/pkg/tablefootnote>.
- [9] Hiroshi Nakashima. *yafoot*. Version 1.0. URL: <http://www.ctan.org/pkg/yafoot>.
- [10] Will Robertson (current maintainer). *pagenote*. Version 1.1a. URL: <http://www.ctan.org/pkg/pagenote>.
- [11] Alexander I. Rozhenko. *manyfoot*. Version 1.10. URL: <http://www.ctan.org/pkg/manyfoot>.
- [12] Mark Wooding. *footnote*. Version 1.13. URL: <http://www.ctan.org/pkg/footnote>.

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