

# F N P C T

v0.1alpha      2012/05/19

footnote kerning

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English documentation

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## 1 License and Requirements

F N P C T 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”.

F N P C T depends on the l3kernel<sup>1</sup> and xparse which is part of the l3packages<sup>2</sup> bundle.

---

<sup>1</sup> CTAN: l3kernel    <sup>2</sup> CTAN: l3packages

## 2 What's it all about?

### 2.1 Basics

The `FN PCT` 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.

All examples in this documentation use

```
1 \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,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3</sup>

<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

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 \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 straw<sup>1</sup>, sticks<sup>2</sup> and bricks<sup>3</sup>.

---

<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

## 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 straw<sup>1</sup>, sticks<sup>2</sup> and bricks<sup>3</sup>.

---

<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

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
- ▶ `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.

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

```
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, <sup>1</sup> sticks <sup>2</sup> and bricks. <sup>3</sup>

---

<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

And now the same with switched order:

```
1 % some ridiculous settings:
2 \setfnpct{punct-after,before-punct-space=2pt,before-footnote-space=2
   pt}
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 <sup>1</sup>, sticks <sup>2</sup> and bricks <sup>3</sup>.

---

<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

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,<sup>3,4</sup> `FNPCT` provides an extra command for that:

- `\multifootnote*{<list>;<of>;<footnotes>}` → different footnotes are separated with a semicolon. The `*` turns the footnote/punctuation switching temporarily off.

```
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\multifootnote{probably fired clay bricks;or
6 something else}.
7 \end{minipage}
```

The three little pigs built their houses  
out of straw,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3,4</sup>

---

<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

<sup>4</sup> or something else

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

---

<sup>3</sup> see these footnotes    <sup>4</sup> 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;[5]or
6 something else}.
7 \end{minipage}

```

The three little pigs built their houses  
out of straw,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3,5</sup>

---

<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

<sup>5</sup> or something else

## 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,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3,4</sup>

---

<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; or something

else

<sup>4</sup> 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 = ,

```

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}

```

The three little pigs built their houses  
out of straw,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3;4</sup>

- 
- <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; or something  
else  
<sup>4</sup> what do I know

The three little pigs built their houses  
out of straw,\* sticks<sup>†</sup> and bricks.<sup>‡§</sup>

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

### 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

```

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}

```

The three little pigs built their houses  
out of straw,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3,4</sup>

<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

<sup>4</sup> or something else

## 5 Footcites

Preliminary testing suggests that `FNpCT` seems to be compatible with the `\footcite` and `\footfullcite` commands provided by the `biblatex`<sup>5</sup> package. However, the punctuation switching does not apply to them.

The kerning works ...

```
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,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3</sup> The companion<sup>4</sup>  
has nothing on this topic.

<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

<sup>4</sup> 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}
```

---

<sup>5</sup> CTAN: [biblatex](#)



The three little pigs built their houses out of straw,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3</sup> The companion has nothing on this topic<sup>4</sup>.

<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

<sup>4</sup> 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,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3</sup> The companion has nothing on this topic.<sup>4</sup>

<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

<sup>4</sup> 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 straw<sup>1</sup>, sticks<sup>2</sup> and bricks<sup>3</sup>. The companion has nothing on this topic<sup>4</sup>.

<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

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

## 6 Other packages

### 6.1 bigfoot

`FN PCT` is compatible with the `bigfoot`<sup>6</sup> [5] package. You need to a bit cautious, though. You'll need to

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

Also verbatim material won't work inside footnotes anymore. Since `FN PCT` 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>`.

`FN PCT` 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 package cannot easily combine every footnote package for demonstration purposes the following code 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{bigfoot}
9 \usepackage[bigfoot-default-top]{fnpct}
```

<sup>6</sup> CTAN: `bigfoot`

```

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}

```

The three little pigs built their houses  
out of straw<sup>1</sup>, sticks<sup>2</sup> and bricks.<sup>3,4</sup>

---

<sup>1</sup>not to be confused with hay<sup>a</sup>  
<sup>2</sup>or lumber according to some sources  
<sup>3</sup>probably fired clay bricks  
<sup>4</sup>or something  
<sup>a</sup>let alone grass

1

Figure 1: bigfoot example

## 6.2 endnotes

The endnotes<sup>7</sup> [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 `FNPCT` extends its functionality to these commands in the same way it does with footnotes. For example an according `\multendnote` is defined. With the package option `multiple` all `\endnotes` are turned into `\multendnotes`.

---

<sup>7</sup> CTAN: [endnotes](#)

```

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}

```

The three little pigs built their houses  
out of straw,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3</sup>

## Notes

- <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

The three little pigs built their houses  
out of straw<sup>4</sup>, sticks<sup>5</sup> and bricks.<sup>6,7</sup>

## Notes

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

## 6.3 footmisc

Testing showed no incompatibilities with the `footmisc`<sup>8</sup> package [2]. The only thing is that you won't have to use its `multiple` option.

## 6.4 manyfoot

The `manyfoot`<sup>9</sup> package [6] is not and will not be supported. It is loaded by `bigfoot` (see section 6.1), anyway.

## 6.5 parnotes

The `parnotes`<sup>10</sup> package [4] does something similar to the `endnotes` package. If `parnotes` is loaded `FNPCT` extends its functionality analogous to the one of `endnotes`.

<sup>8</sup> CTAN: `footmisc`    <sup>9</sup> CTAN: `manyfoot`    <sup>10</sup> CTAN: `parnotes`

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

```

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}
```

The three little pigs built their houses  
out of straw,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3</sup>

<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

The three little pigs built their houses  
out of straw<sup>4</sup>, sticks<sup>5</sup> and bricks.<sup>6,7</sup>

<sup>4</sup> not to be confused with hay   <sup>5</sup> or  
lumber according to some sources  
<sup>6</sup> probably fired clay bricks   <sup>7</sup> or some-  
thing else

## References

- [1] Robin Fairbairns. *endnotes*. URL: <http://www.ctan.org/pkg/endnotes>.
- [2] Robin Fairbairns. *footmisc*. Version 5.5b. URL: <http://www.ctan.org/pkg/footmisc>.
- [3] Michel Goossens, Frank Mittelbach, and Alexander Samarin. *The LaTeX Companion*. 1st ed. Reading, Mass.: Addison-Wesley, 1994. 528 pp.
- [4] Micheal Hughes. *parnotes*. Version 1. URL: <http://www.ctan.org/pkg/parnotes>.
- [5] David Kastrup. *bigfoot*. Version 1.25. URL: <http://www.ctan.org/pkg/bigfoot>.
- [6] Alexander I. Rozhenko. *manyfoot*. Version 1.10. URL: <http://www.ctan.org/pkg/manyfoot>.

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