

# F N P C T

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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.

## 2 What's it all about?

### 2.1 Basics

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.

All examples in this documentation use

---

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

```
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 followed 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> `FN PCT` 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`:

```
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;[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:

<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;}
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,<sup>\*</sup> sticks<sup>†</sup> and bricks.<sup>‡§</sup>

<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}
```

---

<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<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}
```

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 notes

`FN PCT` currently supports two packages which provide similar notes.

### 6.1 endnotes

The `endnotes`<sup>6</sup> 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 `FN PCT` 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`.

<pre>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}</pre>	<p>The three little pigs built their houses out of straw,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3</sup></p> <p><b>Notes</b></p> <p><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</p>	<p>The three little pigs built their houses out of straw<sup>4</sup>, sticks<sup>5</sup> and bricks<sup>6,7</sup>.</p> <p><b>Notes</b></p> <p><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</p>
--	--	--

---

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

## 6.2 parnotes

The parnotes<sup>7</sup> package does something similar to the endnotes package. If parnotes is loaded `FNPCT` 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>	<p>The three little pigs built their houses out of straw,<sup>1</sup> sticks<sup>2</sup> and bricks.<sup>3</sup></p> <p><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</p>	<p>The three little pigs built their houses out of straw<sup>4</sup>, sticks<sup>5</sup> and bricks<sup>6,7</sup>.</p> <p><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</p>
--	--	--

## References

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

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<sup>7</sup> CTAN: parnotes

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