multifootnote

Multiple numbers for the same footnote

Jinwen XU

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Abstract

The package multifootnote provides two groups of commands for generating footnotes with multiple numbers (or marks, if you prefer).

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How to load it

You can simply load the current package with:

```
\usepackage[⟨options⟩]{multifootnote}
```

It has the following options:

`left align`
– Align the footnotes to the left.
– Alternative names: `left-align` | `leftalign`
`left indent` or `left indent` = ⟨*length*⟩
– Similar to `left align`, but with an indentation ⟨*length*⟩, default to be `1.5em`.
– Alternative names: `left-indent` | `leftindent`

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How to use it

Here are two approaches for producing a footnote with multiple numbers, and in either of them, there are two commands involved.

2.1 | First approach

This approach is more or less traditional, with one command to produce the footnote mark and another the text.

- `\multifootnotemark[⟨label⟩]`
  – This command is for producing the footnote marks.
  – ⟨*label*⟩ cannot contain commas. However, colon ":" and semicolon ";" are allowed.
  – Alternative name: `\footnotenumber[⟨label⟩]`.
- `\multifootnotetext[⟨list of labels⟩]{⟨footnote text⟩}`
  – This command is for producing the footnote text.
  – ⟨*list of labels*⟩ is a list of labels that you specified with `\multifootnotemark[⟨label⟩]`, separated with commas, like this: `fn1,fn2,fn3`.
  – It should not be too far away from the corresponding marks.
  – Alternative name: `\multifootnote[⟨list of labels⟩]{⟨footnote text⟩}`.

Corresponding to: multifootnote 2022/05/31

2.2 | Second approach

This approach is considered more convenient, with one command to specify the *⟨tag⟩* while printing the footnote mark, and another to print the footnote text for this group.

- `\multifootnotetag{`*⟨tag⟩*`}` or `\multifootnotetag{`*⟨list of tags⟩*`}`
  - This command is for producing the footnote marks.
  - *⟨tag⟩* cannot contain commas. However, colon ":" and semicolon ";" are allowed.
  - *⟨list of tags⟩* is a list of tags, separated with commas, like this: `fntag1,fntag2,fntag3`.
  - Alternative name: `\footnotetag{`*⟨tag⟩*`}` or `\footnotetag{`*⟨list of tags⟩*`}`.
- `\multifootnotetagtext[`*⟨tag⟩*`]{`*⟨footnote text⟩*`}`
  - This command is for producing the footnote text.
  - It should not be too far away from the corresponding marks.
  - Alternative name: `\multifootnote[`*⟨tag⟩*`]{`*⟨footnote text⟩*`}`.

> ── TIP ───
>
> `\multifootnote` appears in both approaches for producing footnote text: it shall be interpreted as `\multifootnotetext` if the optional argument is a comma-separated list, and as `\multifootnotetagtext` if not. See the examples below.

If you're feeling confused, don't worry. Let's now take a look at some examples.

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Examples

Here are two examples of usage, with the package option "`left indent`" enabled.

3.1 | The first approach

```
Lorem ipsum\footnotenumber[fn1] dolor\footnotenumber[fn2] sit amet
    \footnotenumber[fn3], consectetur\footnotenumber[fn4] adipiscing
    elit\footnotenumber[fn5].
\multifootnote[fn1,fn2,fn5]{This is a footnote for demonstration.}
\multifootnote[fn1,fn3,fn4]{This is another footnote for demonstration.}
```

Result:

Lorem ipsum[1] dolor[2] sit amet[3], consectetur[4] adipiscing elit[5].

3.2 | The second approach

```
Lorem ipsum\footnotetag{fntag1,fntag2} dolor\footnotetag{fntag1} sit
    amet\footnotetag{fntag2}, consectetur\footnotetag{fntag2} adipiscing
    elit\footnotetag{fntag1}.
\multifootnote[fntag1]{This is a footnote for demonstration.}
\multifootnote[fntag2]{This is another footnote for demonstration.}
```

[1,2,5] This is a footnote for demonstration.
[1,3,4] This is another footnote for demonstration.

Result:

Lorem ipsum[6] dolor[7] sit amet[8], consectetur[9] adipiscing elit[10].

TIP

The second approach is more recommended, as it involves fewer labels, and you shall not need to worry about the order of footnote marks in `\multifootnote`.

ATTENTION

Notice that in the first approach, ⟨*label*⟩ appears as an optional argument of `\footnotenumber`[⟨*label*⟩] (thus square brackets); while in the second approach, ⟨*tag*⟩ is a mandatory argument of `\footnotetag`{⟨*tag*⟩} (thus curly brackets).

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Acknowledgement

This package arises from a question (645330) on `TeX.StackExchange`. The author thanks user @Bolzano for bringing up the question of producing such footnotes.

The author thanks Ulrike Fischer for the code for fixing the broken hyperlinks generated by the first approach, and user @frougon for his kind and helpful suggestions and comments.

The author also wishes to thank user @antshar for proposing the second approach. The code is surprisingly simple but works just as fine as that of the first approach.

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Known issues

- multifootnote is not compatible with the package footnotebackref.

If you run into any issue or have ideas for improvement, feel free to discuss on:

`https://github.com/Jinwen-XU/multifootnote/issues`

or email me via `ProjLib@outlook.com`.

[6,7,10] This is a footnote for demonstration.
[6,8,9] This is another footnote for demonstration.