

# SNOTEZ

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sidenote support for L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>

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English documentation

<b>Contents</b>	<b>4 Usage</b>	<b>2</b>
	<b>5 Options</b>	<b>3</b>
<b>1 License and Requirements</b>	<b>1 References</b>	<b>4</b>
<b>2 Motivation</b>	<b>1 6 Implementation</b>	<b>4</b>
<b>3 Introduction</b>	<b>2 Index</b>	<b>8</b>

## 1 License and Requirements

SNOTEZ is placed under the terms of the L<sup>A</sup>T<sub>E</sub>X Project Public License, version 1.3 or later (<http://www.latex-project.org/lppl.txt>). It has the status “maintained.”

SNOTEZ needs and loads the packages etoolbox,<sup>1</sup> pgfopts,<sup>2</sup> marginnote<sup>3</sup> and perpage.<sup>4</sup>

1. Lehman [Leh11]
2. Wright [Wri11]
3. Kohm [Koh12]
4. Kastrup [Kaso6]

## 2 Motivation

This has just been an exercise on a lazy afternoon.<sup>5</sup> Since there already is Andy Thomas’ sidenotes package<sup>6</sup> there is probably no real need for SNOTEZ. Moreover, the tufte classes<sup>7</sup> as well as memoir<sup>8</sup> also provide corresponding mechanisms. Anyways, here it is and it seems to be working as intended so I don’t see a reason why it shouldn’t be available for use.

5. <http://www.youtube.com/watch?v=PPRiaYH1iTk>
6. Thomas and Schebaum [TS12]
7. Godby, Kleb, and Wood [GKW09]
8. Madsen and Wilson [MW11]

## 3 Introduction

The **SNOTEZ** Package introduces a `\sidenote` command<sup>1</sup> that typesets sidenotes the same way `\footnote` typesets footnotes. It provides some options that allow formatting the appearance of the sidenotes.<sup>2</sup> As a default sidenotes are typeset in a `\marginpar` but there are possibilities using Markus Kohm's `marginnote` package as well.

As with footnotes it is possible to set mark and text separately using the equivalent commands `\sidenotemark` and `\sidenotetext`, respectively. Instead of code examples this documentation will use the `\sidenote` macro itself extensively. It is assumed you know how to use `\footnote` and are able to transfer your knowledge.

<sup>1</sup> This is an example demonstrating the default appearance.

<sup>2</sup> In all sidenotes in this document the mark is typeset on the baseline and the text is set ragged right.

## 4 Usage

The basic usage is the very same as with L<sup>A</sup>T<sub>E</sub>X's `\footnote`, `\footnotemark` and `\footnotetext`. Unsurprisingly the presented commands are these:

`\sidenote[<mark>]{<text>}`

The basic command. The syntax is the very same as for `\footnote`.

`\sidenote[<offset>][<mark>]{<text>}`

Actually I lied: `\sidenote` has a second option that smuggles itself before the `[<mark>]` option if you use it: an argument for a vertical offset that takes a length. An empty second option assumes you want the automatic mark. If you use this argument the note is set with the `\marginnote` command.<sup>3</sup> Please see its documentation<sup>4</sup> [Koh12] for the `[<offset>]` argument. **SNOTEZ** only passes the value on. Only this much: a positive value shifts the note *down*.

<sup>3</sup> From the `marginnote` package

<sup>4</sup> For example with `texdoc marginnote` on your command line.

`\sidenotemark[<text>]`

This command has the same purpose as `\footnotemark` but for sidenotes.

`\sidenotetext[<mark>]{<text>}`

The same as `\footnotetext` but for sidenotes. Beware where you place it: it calls `\marginpar` or `\marginnote` and thus determines where the actual note is placed.

`\sidenotetext[<offset>][<mark>]{<text>}`

I lied again: `\sidenotetext` also has the second optional argument `[<offset>]` that again smuggles itself before the `[<mark>]` option if you use it. For details see the second description of the `\sidenote` command.

I am not really sure the order of optional arguments makes much sense. If you have a better idea please let me know.<sup>5</sup>

<sup>5</sup> The fastest way: email me at [contact@mychemistry.eu](mailto:contact@mychemistry.eu).

## 5 Options

Although all options can be used as package option you can also set all options (locally) with a setup command:

`\setsidenotes{<options>}`

Available options are these:

`marginnote = true|false`

Default: false

Use `marginnote`'s `\marginnote` [Koh12] for all `\sidenotes`. In the default setting `\sidenote` uses `\marginpars` to set the sidenote unless you use the [`<offset>`] argument. If you use this option *all* sidenotes are set with `\marginnote`. *This option can only be used in the preamble.*

`text-format = <code>`

Default: `\footnotesize`

The format of the sidenote text.

`text-format+ = <code>`

(initially empty)

Code to be appended to the format set with `text-format`.<sup>1</sup>

`perpage = true|false`

Default: false

Make sidenotes counter per page. *This option can only be set in the preamble.* It uses package `perpage`'s `\MakeSortedPerPage` macro for the task. This documentation is an example for the use of the option. In the default setting sidenotes are counted per chapter. If you want sidenotes counted document-wise together with a class that defines a counter `chapter` then use for example the package `chngcntr` [WR09] and issue `\counterwithout{sidenote}{chapter}` after loading `SNOTEZ`.

`note-mark-sep = <code>`

Default: `\space`

The separator between sidenote mark and sidenote text in the sidenote.

`note-mark-format = <code>`

Default: `\@textsuperscript{\normalfont#1}`

The format of the sidenote mark in the sidenote. Please refer to the actual mark with `#1`.

`text-mark-format = <code>`

Default: `\@textsuperscript{\normalfont#1}`

The format of the sidenote mark in the text.<sup>2</sup> Please refer to the actual mark with `#1`.

`footnote = true|false`

Default: false

Let<sup>3</sup> `\footnote` to be `\sidenote`, `\footnotemark` to be `\sidenotemark` and `\footnotetext` to be `\sidenotetext`. *This option can only be used in the preamble.*

1. This document, for example, appends `ragged2e`'s `\RaggedRight` [Scho9] to the sidenote's format.

2. This document uses Michael Sharpe's `superiors` package [Sha12] and redefines the mark formats to use its `\textsuperscript` command.

3. In the sense of `\let`

As a short example this is how the sidenotes for this document are formatted:

```

1 \setsidenotes{
2   note-mark-format=#1.,
3   text-mark-format=\textsu{\hspace*{\superiors@spaced}}#1},
4   text-format+=\RaggedRight
5 }

```

## References

- [GKW09] Kevin Godby, Bil Kleb, and Bill Wood. *tufte-latex*. Version 3.5.0. Dec. 11, 2009. URL: <http://mirror.ctan.org/macros/latex/contrib/sidenotes>.
- [Kas06] David Kastrup. *perpage*. Version 1.12. July 15, 2006. URL: <http://mirror.ctan.org/macros/latex/contrib/perpage>.
- [Koh12] Karkus Kohm. *marginnote*. Version 1.1i. Mar. 29, 2012. URL: <http://mirror.ctan.org/macros/latex/contrib/marginnote>.
- [Leh11] Philipp Lehman. *etoolbox*. Version 2.1. Jan. 21, 2011. URL: <http://mirror.ctan.org/macros/latex/contrib/etoolbox>.
- [MW11] Lars Madsen and Peter Wilson. *memoir*. Version 3.6j patch 6.0g. Mar. 6, 2011. URL: <http://mirror.ctan.org/macros/latex/contrib/memoir>.
- [Scho9] Martin Schröder. *ragged2e*. Version 2.1. May 21, 2009. URL: <http://mirror.ctan.org/macros/latex/contrib/ragged2e>.
- [Sha12] Michael Sharpe. *superiors*. Version 1.02. Aug. 13, 2012. URL: <http://mirror.ctan.org/macros/latex/contrib/superiors>.
- [TS12] Andy Thomas and Oliver Schebaum. *sidenotes*. Version 0.92. Nov. 9, 2012. URL: <http://mirror.ctan.org/macros/latex/contrib/sidenotes>.
- [WR09] Peter Wilson and Will Robertson. *chngcntr*. Version 1.0a. Sept. 2, 2009. URL: <http://mirror.ctan.org/macros/latex/contrib/chngcntr>.
- [Wri11] Joseph Wright. *pgfopts*. Version 2.1. June 2, 2011. URL: <http://mirror.ctan.org/macros/latex/contrib/pgfopts>.

## 6 Implementation

In the following code the lines 1–30 have been omitted. They only repeat the license statement which has already been mentioned in section 1.

```

31 \NeedsTeXFormat{LaTeX2e}
32 \ProvidesPackage{snotez}[2013/04/03 v0.2 sidenote support for LaTeX 2e (CN)]
33
34 \RequirePackage{etoolbox,pgfopts,marginnote,perpage}
35
36 % -----

```

## 6 Implementation

```

37 % package options:
38 \newbool{snotez@marginnote}
39 \newbool{snotez@perpage}
40 \newbool{snotez@footnote}
41
42 \def\snotez@note@mark@sep{\space}
43 \def\snotez@note@mark@format#1{\@textsuperscript{\normalfont#1}}
44 \def\snotez@format{\footnotesize}
45 \def\snotez@text@mark@format#1{\@textsuperscript{\normalfont#1}}
46
47 \pgfkeys{
48   snotez/.cd,
49   % all sidenotes use \marginnote:
50   marginnote/.is if      = snotez@marginnote ,
51   text-format/.code      = \def\snotez@format{#1} ,
52   text-format+/.code     =
53     \expandafter\def\expandafter\snotez@format\expandafter{\snotez@format
54     #1} ,
55   % make sidenotes counted per page:
56   perpage/.is if        = snotez@perpage ,
57   note-mark-sep/.code   = \def\snotez@note@mark@sep{#1} ,
58   note-mark-format/.code = \def\snotez@note@mark@format##1{#1} ,
59   text-mark-format/.code = \def\snotez@text@mark@format##1{#1} ,
60   % make all footnotes sidenotes:
61   footnote/.is if       = snotez@footnote
62 }
63 \ProcessPgfOptions*
64
65 \newrobustcmd\setsidenotes[1]{\pgfqkeys{/snotez}{#1}}
66
67 % -----
68 % the \sidenote command
69 % syntax:
70 % - \sidenote{text}
71 % - \sidenote[mark]{text}
72 % - \sidenote[offset][mark]{text}
73 \newrobustcmd*\sidenote{%
74   \@ifnextchar[%
75     {\snotez@sidenote@aux@i}
76     {\snotez@sidenote@aux@ii{}}[]}% no option
77
78 \def\snotez@sidenote@aux@i[#1]{%
79   \@ifnextchar[%
80     {\snotez@sidenote@aux@ii{#1}}% two options
81     {\snotez@sidenote@aux@ii{}}[#1]}% one option
82
83 % #1: offset
84 % #2: mark

```

## 6 Implementation

```
85 % #3: text
86 \long\def\snotez@sidenote@aux@ii#1[#2]#3{%
87   \snotez@mark{#2}%
88   \snotez@text{#1}{#3}}
89
90 % this one is very much \@footnotemark from latex.ltx:
91 \def\snotez@write@mark#1{%
92   \leavevmode
93   \ifhmode\edef\@x@sf{\the\spacefactor}\nobreak\fi
94   #1%
95   \ifhmode\spacefactor\@x@sf\fi
96   \relax}
97
98 \def\snotez@mark#1{%
99   \ifblank{#1}% or \ifstrempy?
100     {\refstepcounter{sidenote}\protected@xdef\@the@snotez@mark{\thesidenote}}
101     {\protected@edef\@currentlabel{#1}\protected@xdef\@the@snotez@mark{#1}}%
102     \snotez@write@mark{\hbox{\snotez@text@mark@format{\@the@snotez@mark}}}%
103 }
104
105 \ifcsdef{c@chapter}
106   {\newcounter{sidenote}[chapter]}
107   {\newcounter{sidenote}}
108
109 % -----
110 % the \sidenotemark command
111 \newrobustcmd*\sidenotemark[1][\snotez@mark{#1}]
112
113 % -----
114 % the \sidenotetext command
115 % syntax:
116 % - \sidenotetext{text}
117 % - \sidenotetext[mark]{text}
118 % - \sidenotetext[offset][mark]{text}
119 \newrobustcmd*\sidenotetext{%
120   \@ifnextchar{%
121     {\snotez@sidenotetext@aux@i}
122     {\snotez@sidenotetext@aux@ii{}}}% no option
123
124   \def\snotez@sidenotetext@aux@i[#1]{%
125     \@ifnextchar{%
126       {\snotez@sidenotetext@aux@ii{#1}}% two options
127       {\snotez@sidenotetext@aux@ii{#1}}}% one option
128
129     % #1: offset
130     % #2: mark
131     % #3: text
132     \long\def\snotez@sidenotetext@aux@ii#1[#2]#3{%
133       \ifblank{#2}{\protected@xdef\@the@snotez@mark{#2}}%
```

## 6 Implementation

```
134 \snotez@text{#1}{#3}}
135
136 % #1: offset
137 % #2: text
138 \def\snotez@text#1#2{%
139   \ifblank{#1}
140     {%
141       \snotez@marginpar{%
142         \snotez@format
143         \snotez@write@mark{\snotez@note@mark@format{\@the@snotez@mark}}%
144         \snotez@note@mark@sep#2}%
145     }
146     {%
147       \snotez@marginnote{%
148         \snotez@format
149         \snotez@write@mark{\snotez@note@mark@format{\@the@snotez@mark}}%
150         \snotez@note@mark@sep#2}[#1]%
151     }}
152
153 \let\snotez@marginpar\marginpar
154 \let\snotez@marginnote\marginnote
155
156 % -----
157 % process preamble options:
158 \AtBeginDocument{
159   % if option 'footnote=true' let \footnote to \sidenote:
160   \ifbool{snotez@footnote}
161     {
162       \let\footnote\sidenote
163       \let\footnotemark\sidenotemark
164       \let\footnotetext\sidenotetext
165     }{}
166   % if option 'marginnote=true' use \marginnote for all notes:
167   \ifbool{snotez@marginnote}
168     {\let\snotez@marginpar\marginnote}
169     {}
170 }
171 \AtEndPreamble{
172   % if option 'perpage=true' count notes per page:
173   \ifbool{snotez@perpage}
174     {\MakeSortedPerPage{sidenote}}
175     {\MakeSorted{sidenote}}
176 }
177
178 \endinput
```

# Index

## C

chngcntr ..... 3 f.

## E

etoolbox ..... 1, 4

## F

footnote ..... 3

\footnote ..... 2 f.

\footnotemark ..... 2 f.

\footnotetext ..... 2 f.

## I

Introduction ..... 2

## L

License ..... 1

## M

marginnote ..... 3

marginnote ..... 1–4

\marginnote ..... 2 f.

\marginpar ..... 2 f.

memoir ..... 1, 4

## N

note-mark-format ..... 3

note-mark-sep ..... 3

## O

Options ..... 3 f.

## P

perpage ..... 3

perpage ..... 1, 3 f.

pgfopts ..... 1, 4

## R

ragged2e ..... 3 f.

## S

\setsidenotes ..... 3

\sidenote ..... 2 f.

\sidenotemark ..... 2 f.

sidenotes ..... 1, 4

\sidenotetext ..... 2 f.

superiors ..... 3 f.

## T

text-format ..... 3

text-format+ ..... 3

text-mark-format ..... 3

tufte-latex ..... 4

## U

Usage ..... 2