The sidenotesplus package

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Home Page: https://github.com/anton-vrba/sidenotesplus
Issues: https://github.com/anton-vrba/sidenotesplus/issues

Version 1.00 from 2022/05/15

Abstract

A package to manage the margin notes, figures, tables and captions. Also body text can be extended into the margin for wide figures, tables and equation. Twoside symmetry is preserved. For biblatex users, routines for side references are included.

Note: This package is inspired by the package `sidenotes` authored by Andy Thomas and has many features in common. But, compatibility is not maintained between the two.

1 Usage

Below the options that can be passed to the package `sidenotesplus` with the package defaults in bold font.

`mark=`	**alph**, Alph, arabic, roman, Roman, fnsymbol
`font=`	**rm**, sf
`size=`	normal, small, **footnote**, script
`shape=`	**it**, sl, up
`classic`	switches to a classic look
`sepdiff=`	**1em**, and valid length within reason
`ragged`	switches to ragged outer margins

The normal page style is that margin notes are left-right justified with the last line ragged to the outer edge. The option `ragged` changes this style to ragged-outer, that is the left page's marginal notes are `\raggedleft` and the right page's are `\raggedright`.

The marginal note's reference number or mark is placed in the margin separator, that is on the left page the mark is on the right hand side of the note. The option `classic` always places the mark to the left of the marginal note. This requires that the margin separator on the left page is slightly reduced if not enough space is availabe to the page outer edge.

`\marginpar` The LaTex command `marginpar{abc}` with only one parameter it is modified to `\marginpar[left styled abc]{right styled abc}` maintaining page symmetry. If called with two parameters nothing is changed

`\sidenote` The `\sidenote` has four options `*[offset]<offsett>(custom mark){content}` preceding the note content

`*`	sidenote reference labels are omitted
`[offset]`	floating offset, negative is towards page top
`<offsett>`	fixed offset, negative is towards page top
`(custom mark)`	any custom mark

The options are defined by their enclosures `[],<>,()` and must be in this order if used. Example, `\sitenote[10pt]($\bigstar$){text}` is valid but `\sitenote($\bigstar$)[10pt]{text}` will give an error

`\sidenotetext` `\sidenotemark` `\sidenotetextbefore` Similar to `\footnotemark` and `\footnotetext` the macros `\sidenotemark`, `\sidenotetext` and `\sidenotetextbefore` are provided, the latter two have the same options as `\sidenote`. This is useful in placing margin notes in environments where the `\sidenode` is not permitted. The margin note is not positioned by the `\sidenotemark`, but rather it is positioned relative to `\sidenotetext` or `\sidenotetextbefore`

`\sidecaption` The `\sidecaption[entry][offset]{text}` macro can be used if the caption of a figure or table should be in the margin. The caption has to be adjacent to the figure, so a float is not an option here. Therefore, the caption might overlap with other marginals. Then, these marginals have to be adjusted with offset parameters. The formatting of the caption is done by the *caption* package by defining a *sidecaption* style. Please refer to the documentation of the caption package for information on styles. The macro can be starred, which is analog to the regular starred caption (no numbering, no tof entry): `\sidecaption*[offset]{text}`.

`marginfigure` The marginfigure environment puts a figure and its caption in the margin. Instead of `\begin{figure}[htbp]` use `\begin{marginfigure}[offset]`. Again, using an offset value switches the behavior from float to fixed position. The marginfigure has its own caption style named *marginfigure*.

`margintable` The margintable environment works similar to marginfigure, but with table environments. Use `\begin{margintable}[offset]` instead of `\begin{table}[htbp]`, its caption style is named *margintable*.

`figure*` `table*` The `figure*` environment is used to position figures across the full page, i.e. the text width plus the margin. The algorithm has to distinguish between recto and verso (left and right) pages and might need up to three LaTeX runs to provide the desired result. The corresponding caption style is called *widefigure*. The sister environment for tables is `table*`. Use *widetable* to change its caption style.

`text*` The `text*` environment is used to render text across up to the full page width. Page breaks are not permitted within this environment. This environment is useful when extra width for equations is required. The environment

`\begin{text*}[0.5]` extends the text width by `0.5*(\marginparwidth+\marginparsep)`, omitting the option is equivalent to specifying the option `[1]`,

`\sidecite` `\sidecitet` `\sidecitets`

The `\sidecite`, `\sidecitet` and `\sidecitets` provide citing references in the margin and uses the package `biblatex` which has to be setup outside the `sitenotesplus` package. Example biblatex option setup:

```
\usepackage[english]{babel}
\usepackage[backend=biber,style=philosophy-classic]{biblatex}
```

The command `\sidecite{BibReference}` places a sidenote mark and the citation reference in the side margin. `\sidecitet{BibReference}` types Author followed by the sidenote mark, and `\sidecitets{BibReference}` is the possessive version, i.e. Author's ...

The options for all three above commands are
`\sidesecite[offset][before][after]<offset>(custom mark){BibReference}`
renders the sidenote citation using the `biblatex` command
`\fullcite[before][after]{BibReference}`

2 Implementation

```
*************************************************************
```

```
\ExplSyntaxOn

\DeclareExpandableDocumentCommand{\IfNoValueOrEmptyTF}{ m m m }
{
 \IfNoValueTF{#1}
  {#2}
  {\tl_if_empty:nTF {#1} {#2} {#3}}
}
```

```
*************************************************************
```

```
\setcounter{topnumber}{4}
\setcounter{bottomnumber}{4}
\setcounter{totalnumber}{8}
```

`\sidenote@setup`

```
*************************************************************
```

```
\NewDocumentCommand \sidenote@setup {} {%
   \__snp_size\__snp_shape\__snp_font\leavevmode%
   \lineskip=0pt \lineskiplimit=0pt %
   \tolerance=2000 \hyphenpenalty=300 \exhyphenpenalty=300%
   \doublehyphendemerits=100000%
   \finalhyphendemerits=\doublehyphendemerits
   }
```

```
*************************************************************
```

```
\NewDocumentCommand \__snp_symbol {} {\alph}
\NewDocumentCommand \__snp_font {} {}
\NewDocumentCommand \__snp_shape{} {\itshape}
```

```
\NewDocumentCommand \__snp_size {} {\footnotesize}
\NewDocumentCommand \__snp_leftmarginstyle{} {}
\NewDocumentCommand \__snp_rightmarginstyle{} {}
```

```
************************************************************
```

```
\bool_new:N \l_snp_centrecaption
\bool_new:N \l_snp_biblatexoff
\bool_new:N \l_snp_ragged
\bool_new:N \l_snp_symmetric
\bool_new:N \l_snp_page
\bool_new:N \snp@oddpage
\bool_set_false:N \l_snp_centrecaption
\bool_set_false:N \l_snp_biblatexoff
\bool_set_false:N \l_snp_ragged
\bool_set_true:N \l_snp_symmetric
\bool_set_true:N \snp@oddpage
```

```
************************************************************
```

```
\newlength{\@snp@marginsepdiff}
\setlength{\@snp@marginsepdiff}{1em}
```

```
************************************************************
```

```
\keys_define:nn { sidenoteplus }
{
 mark .code:n = \str_case:nn {#1}%
     {  {fnsymbol}{\RenewDocumentCommand \__snp_symbol {}{\fnsymbol}}%
        {Alph}{\RenewDocumentCommand \__snp_symbol {}{\Alph}}%
        {arabic}{\RenewDocumentCommand \__snp_symbol {}{\arabic}}%
        {Roman}{\RenewDocumentCommand \__snp_symbol {}{\Roman}}%
        {roman}{\RenewDocumentCommand \__snp_symbol {}{\roman}}%
        {Other}{}  },
 font .code:n = \str_case:nn {#1}%
      {  {sf}{\RenewDocumentCommand \__snp_font {}{\sffamily}}%
        {Other}{} },
 size .code:n = \str_case:nn {#1}%
      {  {small}{\RenewDocumentCommand \__snp_size {}{\small}}%
         {script}{\RenewDocumentCommand \__snp_size {}{\scriptsize}}%
         {normal}{\RenewDocumentCommand \__snp_size {}{\normalsize}}%
        {Other}{} },
 shape .code:n = \str_case:nn {#1}%
      {  {sl}{\RenewDocumentCommand \__snp_shape{}{\slshape}}%
         {up}{\RenewDocumentCommand \__snp_shape{}{\upshape}}%
        {Other}{} },
 sepdiff .code:n = \setlength{\@snp@marginsepdiff}{#1},
 classic .code:n = \bool_set_false:N \l_snp_symmetric,
 ragged .code:n = { \RenewDocumentCommand \__snp_leftmarginstyle {}{\raggedleft}
                    \RenewDocumentCommand \__snp_rightmarginstyle {}{\raggedright}
                    \bool_set_true:N \l_snp_ragged  },
 biboff .code:n = {\bool_set_true:N \l_snp_biblatexoff},
}
```

```
\ProcessKeysOptions { sidenoteplus }
\bool_if:NTF \l_snp_ragged
     {\setlength{\@snp@marginsepdiff}{0pt} \bool_set_false:N \l_snp_symmetric}
     {\relax}
\bool_if:NTF \l_snp_symmetric {\setlength{\@snp@marginsepdiff}{0pt}}{\relax}
```

****

counter for consecutively labelled, or marked, sidenotes

```
\newcounter{sidenote}[page] % make a counter
\setcounter{sidenote}{0} % init the counter
```

****

formats sidenote label

```
\NewDocumentCommand \__snp_thesidenotemark { m }
{
    \leavevmode
    \ifhmode
        \edef \@x@sf {\the \spacefactor }
        \nobreak
    \fi
    \hbox {\@textsuperscript {\normalfont #1 }}
    \ifhmode
        \spacefactor \@x@sf
    \fi
    \relax
}
```

****

for multiple side notes

```
\NewDocumentCommand \__snp_multisign { } {3sp}
\NewDocumentCommand \__snp_multimarker { }
{
  \kern-\__snp_multisign
  \kern\__snp_multisign\relax
}
\NewDocumentCommand \__snp_multichecker { }
{
  \dim_compare:nNnTF \lastkern = \__snp_multisign
  {\__snp_thesidenotemark{,}}
  {}
}
```

****

ragged left last line in left-right justified text

```
\NewDocumentEnvironment{@snp@llr} {}%
{  \setlength{\parindent}{0pt}
   \setlength{\leftskip}{0pt plus 1fil}
   \setlength{\rightskip}{0pt plus -1fil} }
{\par}
```

\marginpar **********

\marginpar modified for twopage symmetry

```
\let\oldmarginpar\marginpar
\RenewDocumentCommand \marginpar {o m}{%
   \if\relax\detokenize{#1}\relax%
      \oldmarginpar[\__snp_leftmarginstyle\sidenote@setup{#2}]
                   {\__snp_rightmarginstyle\sidenote@setup{#2}}%
   \else
      \oldmarginpar[{#1}]{#2}%
   \fi%
}
```

****

All margin calls from within package are via

```
\NewDocumentCommand \__snp_placemarginal { m m }
{
  \if@twoside
     \__snp_isoddpage
     {
        \IfNoValueOrEmptyTF{#1}
        {\marginpar{\sidenote@setup #2 }}
        {\marginnote{\sidenote@setup #2}[#1]}
     }
     {
     \bool_if:NTF \l_snp_symmetric
     {
        \IfNoValueOrEmptyTF{#1}
        {\marginpar{\begin{@snp@llr}\sidenote@setup #2\vskip 0.3ex\end{@snp@llr}}}
        {\marginnote{\begin{@snp@llr}\sidenote@setup #2\end{@snp@llr}}[#1]}
     }
     {
        \IfNoValueOrEmptyTF{#1}
        {\marginpar{\sidenote@setup #2}}
        {\marginnote{\sidenote@setup #2}[#1]}
     }
     }
  \else
     \IfNoValueOrEmptyTF{#1}
     {\marginpar{\sidenote@setup #2}}
     {\marginnote{\sidenote@setup #2}[#1]}
  \fi
}
```

\sidenote **********

```
\NewDocumentCommand \sidenote {s o d<> d() +m  }
{
  \IfBooleanTF{#1}
  { % starred
```

```
  \__snp_sidenotemark*(#4)
  \__snp_sidenotetext*[#2]<#3>(#4){#5}
  }{ % unstarred
  \__snp_sidenotemark(#4)
  \__snp_sidenotetext[#2]<#3>(#4){#5}
  \__snp_multimarker
  }
}
```

\sidenotemark **

```
\NewDocumentCommand \sidenotemark {s d() }
{
  \IfBooleanTF{#1}
  { % starred
    \relax}
  {% unstarred
     \__snp_sidenotemark (#2)
  }
  \xspace
}
```

****

```
\NewDocumentCommand \__snp_sidenotemark {s d() }
{
  \IfBooleanTF{#1}
  { % starred
    \relax}
  {% unstarred
     \__snp_multichecker
     \IfNoValueOrEmptyTF{#2}
       {  \refstepcounter{sidenote}
          \__snp_thesidenotemark{\__snp_symbol{sidenote}}
       }
       { \__snp_thesidenotemark{#2} }
     \__snp_multimarker
  }
}
```

****

```
\NewDocumentCommand{\__snp_onelineup}{}
   {\par \vspace*{-1\baselineskip}}
\NewDocumentCommand{\__snp_leftnotelabel}{ m }
   {\makebox[0em][l]{\hspace*{0.9ex}#1}}
\NewDocumentCommand{\__snp_rightnotelabel}{ m }
   {\makebox[0em][r]{#1\hspace*{0.9ex}}}
\NewDocumentCommand{\__snp_justifiedleftnotelabel}{ m }
   {\makebox[0em][l]{\hspace*{\marginparwidth+0.9ex}#1}}
```

\sidenotetext **

```
\NewDocumentCommand \sidenotetext {s o d<> d() +m  } {
   \IfBooleanTF{#1}
      { \__snp_sidenotetext*[#2]<#3>(#4){#5} }
      { \__snp_sidenotetext[#2]<#3>(#4){#5} }
}
```

\sidenotetextbefore ***

```
\NewDocumentCommand \sidenotetextbefore {s o d<> d() +m  } {
   \refstepcounter{sidenote}
   \IfBooleanTF{#1}
      { \__snp_sidenotetext*[#2]<#3>(#4){#5} }
      { \__snp_sidenotetext[#2]<#3>(#4){#5} }
    \addtocounter{sidenote}{-1}
}
```

****

```
\newlength{\l@snp@offset}
\NewDocumentCommand \__snp_sidenotetext {s o d<> d() +m } {
  \IfNoValueOrEmptyTF{#2}
     {\relax}
     {\setlength{\l@snp@offset}{#2} \vspace*{ \l@snp@offset }}
  { % unstarred
     \bool_if:NTF \l_snp_ragged
     {
     \if@twoside
       \__snp_isoddpage
       {%odd page
          \IfNoValueOrEmptyTF{#4}
            {  \__snp_placemarginal{#3}
               {\__snp_rightnotelabel{\normalfont\__snp_symbol{sidenote}}#5}
            }
            {  \__snp_placemarginal{#3}
               {\__snp_rightnotelabel{\normalfont #4} #5}
            }
       }
       {%even page
          \IfNoValueOrEmptyTF{#4}
               {\__snp_placemarginal{#3}
                  {\__snp_justifiedleftnotelabel{\normalfont%
                     \__snp_symbol{sidenote}}\hspace*{\marginparwidth}%
                     \__snp_onelineup#5}
               }
               {\__snp_placemarginal{#3}
                  {\__snp_justifiedleftnotelabel{\normalfont%
                      #4}\hspace*{\marginparwidth}\__snp_onelineup {#5}}
               }
       }
     \else
        \IfNoValueOrEmptyTF{#4}
```

```
          {\__snp_placemarginal{#3}
             {\__snp_rightnotelabel{\normalfont%
                 \__snp_symbol{sidenote}}#5}
          }
          {\__snp_placemarginal{#3}
             {\__snp_rightnotelabel{\normalfont #4} #5}
          }
    \fi
    }
    {
    \if@twoside
      \__snp_isoddpage
      {%odd page
         \IfNoValueOrEmptyTF{#4}
           {\__snp_placemarginal{#3}
              {\__snp_rightnotelabel{\normalfont\__snp_symbol{sidenote}}#5}
           }
           {\__snp_placemarginal{#3}
              {\__snp_rightnotelabel{\normalfont #4}\__snp_onelineup #5}
           }
      }
      {%even page
         \bool_if:NTF \l_snp_symmetric
            {
              \IfNoValueOrEmptyTF{#4}
              {\__snp_placemarginal{#3}
                 {  \__snp_justifiedleftnotelabel{\normalfont\__snp_symbol{sidenote}}
                    \hspace*{\marginparwidth}\__snp_onelineup#5
                 }
              }
              {\__snp_placemarginal{#3}
                 {  \__snp_justifiedleftnotelabel{\normalfont
                    #4}\hspace*{\marginparwidth}\__snp_onelineup {#5}
                 }
              }
           }
           {
              \IfNoValueOrEmptyTF{#4}
              {  \__snp_placemarginal{#3}
                 {\__snp_rightnotelabel{\normalfont\__snp_symbol{sidenote}}#5}
              }
              {  \__snp_placemarginal{#3}
                 {\__snp_rightnotelabel{\normalfont #4}\__snp_onelineup #5}
              }
           }
      }
    \else
       \IfNoValueOrEmptyTF{#4}
          {   \__snp_placemarginal{#3}
              {\__snp_rightnotelabel{\normalfont\__snp_symbol{sidenote}}#5}
```

```
            }
            {   \__snp_placemarginal{#3}
                {\__snp_rightnotelabel{\normalfont #4}\__snp_onelineup #5}
            }
      \fi
      }
  }
  \IfNoValueOrEmptyTF{#2}
     {\relax}
     { \setlength{\l@snp@offset}{#2 *(-1)} \vspace*{{\l@snp@offset}}}
}
```

****

```
\DeclareCaptionStyle{sidecaption}{font=footnotesize}
```

\sidecaption

```
\NewDocumentCommand \sidecaption {s d<> o m} {
  \captionsetup{style=sidecaption}
  \IfBooleanTF{#1}
  { % starred
    \IfNoValueOrEmptyTF{#2}
    {\marginnote{\caption*{#4}}}
    {\marginnote{\caption*{#4}}[#2]}
  }{ % unstarred
     \IfNoValueOrEmptyTF{#3}
     {
        \IfNoValueOrEmptyTF{#2}
        {\marginnote{\caption{#4}}}
        {\marginnote{\caption{#4}}[#2]}
     }
     {
        \IfNoValueOrEmptyTF{#2}
        {\marginnote{\caption[#3]{#4}}}
        {\marginnote{\caption[#3]{#4}}[#2]}
     }
  }
}
```

\istwosided **********

```
\NewDocumentCommand \istwosided {m m} {
\if@twoside #1 \else #2 \raggedleft \fi
}
```

\raggedinner **********

```
\NewDocumentCommand \raggedinner {} {
\if@twoside
     \__snp_isoddpage {\raggedleft}{\raggedright}
\else
     \raggedleft
```

```
\fi
}
```

\raggedouter

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\NewDocumentCommand \raggedouter {} {
\if@twoside
     \__snp_isoddpage {\raggedright}{\raggedleft}
\else
     \raggedleft
\fi
}
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\newsavebox{\l_snp_marginfigurebox}
\DeclareCaptionStyle{marginfigure}{font=footnotesize}
```

marginfigure

```
\NewDocumentEnvironment{marginfigure} { o d<> }
{ % begin part
  \begin{lrbox}{\l_snp_marginfigurebox}
    \begin{minipage}{\marginparwidth}
      \captionsetup{type=figure,style=marginfigure}
}

{ % end part
    \end{minipage}%
  \end{lrbox}%
   \IfNoValueOrEmptyTF{#1}
      {\relax}
      {\setlength{\l@snp@offset}{#1} \vspace*{ \l@snp@offset }}
  \__snp_placemarginal{#2}{\usebox{\l_snp_marginfigurebox}}
  \IfNoValueOrEmptyTF{#1}
     {\relax}
     { \setlength{\l@snp@offset}{#1 *(-1)} \vspace*{{\l@snp@offset}}}
}
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\newsavebox{\l_snp_margintablebox}
\DeclareCaptionStyle{margintable}{font=footnotesize}
```

margintable

```
\NewDocumentEnvironment{margintable} { o d<>  }
{ % begin part
  \begin{lrbox}{\l_snp_margintablebox}
    \begin{minipage}{\marginparwidth}
      \captionsetup{type=table,style=margintable}
}
```

```
{ % end part
    \end{minipage}
  \end{lrbox}
   \IfNoValueOrEmptyTF{#1}
      {\relax}
      {\setlength{\l@snp@offset}{#1} \vspace*{ \l@snp@offset }}
  \__snp_placemarginal{#2}{\usebox{\l_snp_margintablebox}}
  \IfNoValueOrEmptyTF{#1}
    {\relax}
    {\setlength{\l@snp@offset}{#1 *(-1)} \vspace*{{\l@snp@offset}}}
}
```

```
\AtBeginDocument{%
\newlength{\l@snp@extrawidth}
\setlength{\l@snp@extrawidth}{\marginparwidth}
\addtolength{\l@snp@extrawidth}{\marginparsep}  }
```

```
\NewDocumentCommand \__snp_isoddpage {m m}
      { \checkoddpage\ifoddpage #1 \else #2 \fi }
```

@snp@autoadjustwidth

```
\NewDocumentEnvironment{@snp@autoadjustwidth}{ m m }%
{ % begin part
\begin{adjustwidth}{0pt}{0pt}
  \if@twoside
     \__snp_isoddpage{\begin{adjustwidth}{#1}{-#2}}%
        {\begin{adjustwidth}{-#2}{#1}}
  \else
     \begin{adjustwidth}{#1}{-#2}
  \fi
}

{ % end part
   \end{adjustwidth}\end{adjustwidth}
}
```

text*

```
\NewDocumentEnvironment{text*}{ o }%
{ % begin part
 \begin{adjustwidth}{0pt}{0pt}
 \IfNoValueOrEmptyTF{#1}
 {
  \if@twoside
     \__snp_isoddpage{\begin{adjustwidth}{0pt}{-\l@snp@extrawidth}}%
        {\begin{adjustwidth}{-\l@snp@extrawidth*}{0pt}}
  \else
     \begin{adjustwidth}{0pt}{-\l@snp@extrawidth*}
  \fi
```

```
  }
  {
  \if@twoside
     \__snp_isoddpage{\begin{adjustwidth}{0pt}{-\l@snp@extrawidth*#1}}%
        {\begin{adjustwidth}{-\l@snp@extrawidth*#1}{0pt}}
  \else
     \begin{adjustwidth}{0pt}{-\l@snp@extrawidth*#1}
  \fi
  }
}

{  % end part
\end{adjustwidth}\end{adjustwidth} \__snp_placemarginal{}{}
}
```

figure* **********

```
\RenewDocumentEnvironment{figure*}{ O{htbp} }

{
   \begin{figure}[#1]
   \begin{@snp@autoadjustwidth}{}{\l@snp@extrawidth}
   \begin{minipage}[c]{\linewidth}
   \centering
   \captionsetup{ margin={\l@snp@extrawidth/2,\l@snp@extrawidth/2}}
}{  % end part
   \end{minipage}
   \end{@snp@autoadjustwidth}
   \end{figure}
    \__snp_placemarginal{}{}
  }
```

table* **********

```
\RenewDocumentEnvironment{table*}{O{htbp} }

{
    \begin{table}[#1]
    \begin{@snp@autoadjustwidth}{}{\l@snp@extrawidth}
    \if@twoside
        \__snp_isoddpage{\raggedright}{\raggedleft}
        \__snp_isoddpage
           {\captionsetup{margin={0pt,0pt}}  }
           {\captionsetup{margin={-\l@snp@extrawidth,\l@snp@extrawidth}}  }
    \else
       \raggedright \captionsetup{margin={0pt,0pt}}
    \fi
}
{ % end part
    \end{@snp@autoadjustwidth}
    \end{table}
}
```

\sidecite **********

```
\NewDocumentCommand \sidecite {o o o d<> d() m }

   { \IfNoValueOrEmptyTF{#2}
      { \IfNoValueOrEmptyTF{#3}
        {\sidenote[#1]<#4>(#5){\fullcite{#6}}}
        {\sidenote[#1]<#4>(#5){\fullcite[#3]{#6}}}
      }
      { \IfNoValueOrEmptyTF{#3}
        {\sidenote[#1]<#4>(#5){\fullcite[#2]{#6}}}
        {\sidenote[#1]<#4>(#5){\fullcite[#2][#3]{#6}}}
      }
   }
```

\sidecitet

```
\NewDocumentCommand \sidecitet {o o o d<> d() m }

   { \IfNoValueOrEmptyTF{#2}
      { \IfNoValueOrEmptyTF{#3}
        { \citeauthor{#6}\sidenote[#1]<#4>(#5){\fullcite{#6}}  }
        { \citeauthor{#6}\sidenote[#1]<#4>(#5){\fullcite[#3]{#6}}  }
      }
      { \IfNoValueOrEmptyTF{#3}
        { \citeauthor{#6}\sidenote[#1]<#4>(#5){\fullcite[#2]{#6}}  }
        { \citeauthor{#6}\sidenote[#1]<#4>(#5){\fullcite[#2][#3]{#6}}  }
      }
   }
```

\sidecitets

```
\NewDocumentCommand \sidecitets {o o o d<> d() m }

   { \IfNoValueOrEmptyTF{#2}
      { \IfNoValueOrEmptyTF{#3}
        { \citeauthor{#6}'s\sidenote[#1]<#4>(#5){\fullcite{#6}}  }
        { \citeauthor{#6}'s\sidenote[#1]<#4>(#5){\fullcite[#3]{#6}}  }
      }
      {\IfNoValueOrEmptyTF{#3}
        { \citeauthor{#6}'s\sidenote[#1]<#4>(#5){\fullcite[#2]{#6}}  }
        { \citeauthor{#6}'s\sidenote[#1]<#4>(#5){\fullcite[#2][#3]{#6}}  }
      }
   }
\ExplSyntaxOff
```

****

Different odd and even marginparsep
this solution from https://tex.stackexchange.com/questions/27518/
****

```
\newlength\@snp@marginparsepodd
\setlength{\@snp@marginparsepodd}{\marginparsep}
```

```
\newlength\@snp@marginparsepeven
\setlength{\@snp@marginparsepeven}{\marginparsep-\@snp@marginsepdiff}
\patchcmd{\@addmarginpar}
         {\mph@orig@addmarginpar}
         {\if@twoside\ifodd\c@page\relax
              \marginparsep=\@snp@marginparsepodd
            \else
              \marginparsep=\@snp@marginparsepeven
            \fi
          \else
            \marginparsep=\@snp@marginparsepodd
          \fi
          \mph@orig@addmarginpar}
         {}
         {\message{Error! Couldn't hook into command
             `\string\@addmarginpar'}}
{
  \def\@snp@patcherr{%
    \message{Error! Couldn't hook into command `\string\@mn@@@marginnote'}}
  \def\@snp@patchok{%
    \let\@snp@patcherr\relax
    \@snp@patch
  }
  \def\@snp@patch{
    \patchcmd{\@mn@@@marginnote}
             {\kern\marginparsep}
             {\ifx\@mn@currpage\relax\else
                \if@twoside\ifodd\@mn@currpage\relax
                    \kern\@snp@marginparsepodd
                  \else
                    \kern\@snp@marginparsepeven
                  \fi
                \else
                  \kern\@snp@marginparsepodd
                \fi
              \fi}
             {\message{Patched!}\@snp@patchok}
             {\@snp@patcherr}
  }
  \message{Patching `\string\@mn@@@marginnote`!}
  \@snp@patch
  \global\let\@mn@@@marginnote\@mn@@@marginnote
}
\makeatother
\endinput
```

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1.0

General: Initial Release 1