

The `sidenotesplus` package

Anton Vrba

Home Page: <https://github.com/anton-vrba/sidenotesplus>

Issues: <https://github.com/anton-vrba/sidenotesplus/issues>

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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.

<code>mark=</code>	alph , Alph, arabic, roman, Roman, fnsymbol
<code>font=</code>	rm , sf
<code>size=</code>	normal, small, footnote , script
<code>shape=</code>	it , sl, up
<code>classic</code>	switches to a classic look
<code>sepdiff=</code>	1em , and valid length within reason
<code>ragged</code>	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 available to the page outer edge.

<code>\marginpar</code>	The LaTeX command <code>\marginpar{abc}</code> with only one parameter it is modified to <code>\marginpar[left styled abc]{right styled abc}</code> maintaining page symmetry. If called with two parameters nothing is changed
<code>\sidenote</code>	<p>The <code>\sidenote</code> has four options <code>*[offset]<offset>(custom mark){content}</code> preceding the note content</p> <ul style="list-style-type: none"> <code>*</code> sidenote reference labels are omitted <code>[offset]</code> floating offset, negative is towards page top <code><offset></code> fixed offset, negative is towards page top <code>(custom mark)</code> any custom mark <p>The options are defined by their enclosures <code>[],<>,()</code> and must be in this order if used. Example, <code>\sitenote[10pt](\$\bigstar\$){text}</code> is valid but <code>\sitenote(\$\bigstar\$)[10pt]{text}</code> will give an error</p>
<code>\sidenotetext</code> <code>\sidenotemark</code> <code>\sidenotetextbefore</code>	Similar to <code>\footnotemark</code> and <code>\footnotetext</code> the macros <code>\sidenotemark</code> , <code>\sidenotetext</code> and <code>\sidenotetextbefore</code> are provided, the latter two have the same options as <code>\sidenote</code> . This is useful in placing margin notes in environments where the <code>\sidenode</code> is not permitted. The margin note is not positioned by the <code>\sidenotemark</code> , but rather it is positioned relative to <code>\sidenotetext</code> or <code>\sidenotetextbefore</code>
<code>\sidecaption</code>	The <code>\sidecaption[entry][offset]{text}</code> 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 <i>caption</i> package by defining a <i>sidecaption</i> 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): <code>\sidecaption*[offset]{text}</code> .
<code>marginfigure</code>	The <code>marginfigure</code> environment puts a figure and its caption in the margin. Instead of <code>\begin{figure}[htbp]</code> use <code>\begin{marginfigure}[offset]</code> . Again, using an offset value switches the behavior from float to fixed position. The <code>marginfigure</code> has its own caption style named <i>marginfigure</i> .
<code>margintable</code>	The <code>margintable</code> environment works similar to <code>marginfigure</code> , but with table environments. Use <code>\begin{margintable}[offset]</code> instead of <code>\begin{table}[htbp]</code> , its caption style is named <i>margintable</i> .
<code>figure*</code>	The <code>figure*</code> 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 L ^A T _E X runs to provide the desired result. The corresponding caption style is called <i>widefigure</i> . The sister environment for tables is <code>table*</code> . Use <i>widetable</i> to change its caption style.
<code>table*</code>	
<code>text*</code>	The <code>text*</code> 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 $0.5 * (\text{marginparwidth} + \text{marginparsep})$, omitting the option is equivalent to specifying the option [1],

`\sidecite` The `\sidecite`, `\sidecitset` 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:

`\sidecitset` `\usepackage[english]{babel}`

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

The command `\sidecite{BibReference}` places a sidenote mark and the citation reference in the side margin. `\sidecitset{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

```
*****

1 \ExplSyntaxOn
2
3 \DeclareExpandableDocumentCommand{\IfNoValueOrEmptyTF}{ m m m }
4 {
5   \IfNoValueTF{#1}
6     {#2}
7     {\tl_if_empty:nTF {#1} {#2} {#3}}
8 }
9
10 \setcounter{topnumber}{4}
11 \setcounter{bottomnumber}{4}
12 \setcounter{totalnumber}{8}
13
14 \sidenote@setup *****
15
16 \NewDocumentCommand \sidenote@setup {} {%
17   \__snp_size\__snp_shape\__snp_font\leavevmode%
18   \lineskip=0pt \lineskiplimit=0pt %
19   \tolerance=2000 \hyphenpenalty=300 \exhyphenpenalty=300%
20   \doublehyphendemerits=100000%
21   \finalhyphendemerits=\doublehyphendemerits
22 }
23
24 \NewDocumentCommand \__snp_symbol {} {\alph}
25 \NewDocumentCommand \__snp_font {} {}
26 \NewDocumentCommand \__snp_shape{} {\itshape}
```

```

22 \NewDocumentCommand \_snp_size {} {\footnotesize}
23 \NewDocumentCommand \_snp_leftmarginstyle{} {}
24 \NewDocumentCommand \_snp_rightmarginstyle{} {}

*****

25 \bool_new:N \l_snp_centrecaption
26 \bool_new:N \l_snp_biblatexoff
27 \bool_new:N \l_snp_ragged
28 \bool_new:N \l_snp_symmetric
29 \bool_new:N \l_snp_page
30 \bool_new:N \snp@oddpag
31 \bool_set_false:N \l_snp_centrecaption
32 \bool_set_false:N \l_snp_biblatexoff
33 \bool_set_false:N \l_snp_ragged
34 \bool_set_true:N \l_snp_symmetric
35 \bool_set_true:N \snp@oddpag

*****

36 \newlength{\@snp@marginsepdiff}
37 \setlength{\@snp@marginsepdiff}{1em}

*****

38 \keys_define:nn { sidenoteplus }
39 {
40   mark .code:n = \str_case:nn {#1}%
41     { {fnsymbol}{\RenewDocumentCommand \_snp_symbol {}{\fnsymbol}}}%
42     { {Alph}{\RenewDocumentCommand \_snp_symbol {}{\Alph}}}%
43     { {arabic}{\RenewDocumentCommand \_snp_symbol {}{\arabic}}}%
44     { {Roman}{\RenewDocumentCommand \_snp_symbol {}{\Roman}}}%
45     { {roman}{\RenewDocumentCommand \_snp_symbol {}{\roman}}}%
46     { {Other}{ } },
47   font .code:n = \str_case:nn {#1}%
48     { {sf}{\RenewDocumentCommand \_snp_font {}{\sffamily}}}%
49     { {Other}{ } },
50   size .code:n = \str_case:nn {#1}%
51     { {small}{\RenewDocumentCommand \_snp_size {}{\small}}}%
52     { {script}{\RenewDocumentCommand \_snp_size {}{\scriptsize}}}%
53     { {normal}{\RenewDocumentCommand \_snp_size {}{\normalsize}}}%
54     { {Other}{ } },
55   shape .code:n = \str_case:nn {#1}%
56     { {sl}{\RenewDocumentCommand \_snp_shape {}{\slshape}}}%
57     { {up}{\RenewDocumentCommand \_snp_shape {}{\upshape}}}%
58     { {Other}{ } },
59   sepdiff .code:n = \setlength{\@snp@marginsepdiff}{#1},
60   classic .code:n = \bool_set_false:N \l_snp_symmetric,
61   ragged .code:n = { \RenewDocumentCommand \_snp_leftmarginstyle {}{\raggedleft}
62                     \RenewDocumentCommand \_snp_rightmarginstyle {}{\raggedright}
63                     \bool_set_true:N \l_snp_ragged },
64   biboff .code:n = {\bool_set_true:N \l_snp_biblatexoff},
65 }

```

```

66 \ProcessKeysOptions { sidenoteplus }
67 \bool_if:NTF \l_snp_ragged
68     {\setlength{\@snp@marginsepdiff}{0pt} \bool_set_false:N \l_snp_symmetric}
69     {\relax}
70 \bool_if:NTF \l_snp_symmetric {\setlength{\@snp@marginsepdiff}{0pt}}{\relax}
*****
    counter for consecutively labelled, or marked, sidenotes
71 \newcounter{sidenote}[page] % make a counter
72 \setcounter{sidenote}{0} % init the counter
*****
    formats sidenote label
73 \NewDocumentCommand \__snp_thesidenotemark { m }
74 {
75     \leavevmode
76     \ifhmode
77         \edef \@x@sf {\the \spacefactor }
78         \nobreak
79         \fi
80         \hbox {\@textsuperscript {\normalfont #1 }}
81         \ifhmode
82             \spacefactor \@x@sf
83         \fi
84         \relax
85 }
*****
    for multiple side notes
86 \NewDocumentCommand \__snp_multisign { } {3sp}
87 \NewDocumentCommand \__snp_multimarker { }
88 {
89     \kern-\__snp_multisign
90     \kern\__snp_multisign\relax
91 }
92 \NewDocumentCommand \__snp_multichecker { }
93 {
94     \dim_compare:nNnTF \lastkern = \__snp_multisign
95     {\__snp_thesidenotemark{,}}
96     {}
97 }
*****
    ragged left last line in left-right justified text
98 \NewDocumentEnvironment{@snp@llr} {}%
99 {\setlength{\parindent}{0pt}\setlength{\leftskip}{0pt plus 1fil}\setlength{\rightskip}{0pt plus 1fil}}
\marginpar *****
    \marginpar modified for twopage symmetry
100 \let\oldmarginpar\marginpar

```

```

101 \let\oldmarginpar\marginpar
102 \renewcommand{\marginpar}[2][]{
103   \if\relax\detokenize{#1}\relax
104     \oldmarginpar[\__snp_leftmarginstyle\sidenote@setup{#2}]{%
105       {\__snp_rightmarginstyle\sidenote@setup{#2}}}%
106   \else%two parameters, let them use their styling
107     \oldmarginpar[{#1}]{#2}%
108   \fi%
109 }

```

All margin calls from within package are via

```

110 \NewDocumentCommand \__snp_placemarginal { m m }
111 {
112   \if@twoside
113     \__snp_isoddpge
114     {
115       \IfNoValueOrEmptyTF{#1}
116       {\marginpar{\sidenote@setup #2 }}
117       {\marginnote{\sidenote@setup #2}[#1]}
118     }
119     {
120       \bool_if:NTF \l_snp_symmetric
121       {
122         \IfNoValueOrEmptyTF{#1}
123         {\marginpar{\sidenote@setup #2}}
124         {\marginnote{\begin{@snp@llr}\sidenote@setup #2\end{@snp@llr}}[#1]}
125       }
126       {
127         \IfNoValueOrEmptyTF{#1}
128         {\marginpar{\sidenote@setup #2}}
129         {\marginnote{\sidenote@setup #2}[#1]}
130       }
131     }
132   \else
133     \IfNoValueOrEmptyTF{#1}
134     {\marginpar{\sidenote@setup #2}}
135     {\marginnote{\sidenote@setup #2}[#1]}
136   \fi
137 }

```

\sidenote *****

```

138 \NewDocumentCommand \sidenote {s o d<> d() +m }
139 {
140   \IfBooleanTF{#1}
141   { % starred
142     \__snp_sidenotemark*{#4}
143     \__snp_sidenotetext*{#2}<#3>{#4}{#5}
144   }{ % unstarred

```

```

145 \__snp_sidenotemark(#4)
146 \__snp_sidenotetext[#2]<#3>(#4){#5}
147 \__snp_multimarker
148 }
149 }

\sidenotemark *****

150 \NewDocumentCommand \sidenotemark {s d() }

151 {
152 \IfBooleanTF{#1}
153 { % starred
154 \relax}
155 {% unstarred
156 \__snp_sidenotemark (#2)
157 }
158 \xspace
159 }

*****

160 \NewDocumentCommand \__snp_sidenotemark {s d() }
161 {
162 \IfBooleanTF{#1}
163 { % starred
164 \relax}
165 {% unstarred
166 \__snp_multichecker
167 \IfNoValueOrEmptyTF{#2}
168 { \refstepcounter{sidenote}
169 \__snp_thesidenotemark{\__snp_symbol{sidenote}}
170 }
171 { \__snp_thesidenotemark{#2} }
172 \__snp_multimarker
173 }
174 }

*****

175 \NewDocumentCommand{\__snp_onlineup}{ }
176 {\par \vspace*{-1\baselineskip}}
177 \NewDocumentCommand{\__snp_leftnotelabel}{ m }
178 {\makebox[0em][l]{\hspace*{0.9ex}{#1}}}
179 \NewDocumentCommand{\__snp_rightnotelabel}{ m }
180 {\makebox[0em][r]{#1\hspace*{0.9ex}}}
181 \NewDocumentCommand{\__snp_justifiedleftnotelabel}{ m }
182 {\makebox[0em][l]{\hspace*{\marginparwidth+0.9ex}{#1}}}

\sidenotetext *****

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

```

```

186      { \_snp_sidenotetext[#2]<#3>(#4){#5} }
187 }

\sidenotetextbefore *****

188 \NewDocumentCommand \sidenotetextbefore {s o d<> d() +m } {
189   \refstepcounter{sidenote}
190   \IfBooleanTF{#1}
191     { \_snp_sidenotetext*[#2]<#3>(#4){#5} }
192     { \_snp_sidenotetext[#2]<#3>(#4){#5} }
193   \addtocounter{sidenote}{-1}
194 }

*****

195 \newlength{\l@snp@offset}
196 \NewDocumentCommand \_snp_sidenotetext {s o d<> d() +m } {
197   \IfNoValueOrEmptyTF{#2}
198     {\relax}
199     {\setlength{\l@snp@offset}{#2} \vspace*{\l@snp@offset }}
200   { % unstarred
201     \bool_if:NTF \l_snp_ragged
202     {
203       \if@twoside
204         \_snp_isoddpge
205         {%odd page
206           \IfNoValueOrEmptyTF{#4}
207             { \_snp_placemarginal{#3}
208               {\_snp_rightnotelabel{\normalfont\_snp_symbol{sidenote}}#5}
209             }
210             { \_snp_placemarginal{#3}
211               {\_snp_rightnotelabel{\normalfont #4} #5}
212             }
213           }
214         {%even page
215           \IfNoValueOrEmptyTF{#4}
216             {\_snp_placemarginal{#3}
217               {\_snp_justifiedleftnotelabel{\normalfont%
218                 \_snp_symbol{sidenote}}\hspace*{\marginparwidth}%
219                 \_snp_onlineup#5}
220             }
221             {\_snp_placemarginal{#3}
222               {\_snp_justifiedleftnotelabel{\normalfont%
223                 #4}\hspace*{\marginparwidth}\_snp_onlineup {#5}}
224             }
225           }
226       \else
227         \IfNoValueOrEmptyTF{#4}
228           {\_snp_placemarginal{#3}
229             {\_snp_rightnotelabel{\normalfont%
230               \_snp_symbol{sidenote}}#5}

```



```

231     }
232     {\_snp_placemarginal{#3}
233      {\_snp_rightnotelabel{\normalfont #4} #5}
234     }
235 \fi
236 }
237 {
238 \if@twoside
239   \_snp_isoddpge
240   {%odd page
241     \IfNoValueOrEmptyTF{#4}
242     {\_snp_placemarginal{#3}
243      {\_snp_rightnotelabel{\normalfont\_snp_symbol{sidenote}}#5}
244     }
245     {\_snp_placemarginal{#3}
246      {\_snp_rightnotelabel{\normalfont #4}\_snp_onlineup #5}
247     }
248   }
249   {%even page
250     \bool_if:NTF \l_snp_symmetric
251     {
252       \IfNoValueOrEmptyTF{#4}
253       {\_snp_placemarginal{#3}
254        { \_snp_justifiedleftnotelabel{\normalfont\_snp_symbol{sidenote}}
255         \hspace*{\marginparwidth}\_snp_onlineup#5
256        }
257       }
258       {\_snp_placemarginal{#3}
259        { \_snp_justifiedleftnotelabel{\normalfont
260         #4}\hspace*{\marginparwidth}\_snp_onlineup {#5}
261        }
262       }
263     }
264     {
265       \IfNoValueOrEmptyTF{#4}
266       { \_snp_placemarginal{#3}
267        {\_snp_rightnotelabel{\normalfont\_snp_symbol{sidenote}}#5}
268       }
269       { \_snp_placemarginal{#3}
270        {\_snp_rightnotelabel{\normalfont #4}\_snp_onlineup #5}
271       }
272     }
273   }
274 \else
275   \IfNoValueOrEmptyTF{#4}
276   { \_snp_placemarginal{#3}
277    {\_snp_rightnotelabel{\normalfont\_snp_symbol{sidenote}}#5}
278   }
279   { \_snp_placemarginal{#3}
280    {\_snp_rightnotelabel{\normalfont #4}\_snp_onlineup #5}

```

```

281     }
282     \fi
283   }
284 }
285 \IfNoValueOrEmptyTF{#2}
286   {\relax}
287   { \setlength{\l@snp@offset}{#2 *(-1)} \vspace*{\l@snp@offset}}
288 }

*****

289 \DeclareCaptionStyle{sidecaption}{font=footnotesize}

\sidecaption
290 \NewDocumentCommand \sidecaption {s d<> o m} {
291   \captionsetup{style=sidecaption}
292   \IfBooleanTF{#1}
293   { % starred
294     \IfNoValueOrEmptyTF{#2}
295     {\marginnote{\caption*{#4}}}
296     {\marginnote{\caption*{#4}}[#2]}
297   }{ % unstarred
298     \IfNoValueOrEmptyTF{#3}
299     {
300       \IfNoValueOrEmptyTF{#2}
301       {\marginnote{\caption{#4}}}
302       {\marginnote{\caption{#4}}[#2]}
303     }
304     {
305       \IfNoValueOrEmptyTF{#2}
306       {\marginnote{\caption[#3]{#4}}}
307       {\marginnote{\caption[#3]{#4}}[#2]}
308     }
309   }
310 }

\listwosided *****

311 \NewDocumentCommand \listwosided {m m} {
312 \if@twoside #1 \else #2 \raggedleft \fi
313 }

\raggedinner *****

314 \NewDocumentCommand \raggedinner {} {
315 \if@twoside
316   \_snp_isoddpge {\raggedleft}{\raggedright}
317 \else
318   \raggedleft
319 \fi
320 }

```

```

\raggedouter *****

321 \NewDocumentCommand \raggedouter {} {
322 \if@twoside
323     \_snp_isoddpaper {\raggedright}{\raggedleft}
324 \else
325     \raggedleft
326 \fi
327 }

*****

328 \newsavebox{\l_snp_marginfigurebox}
329 \DeclareCaptionStyle{marginfigure}{font=footnotesize}

marginfigure

330 \NewDocumentEnvironment{marginfigure} { o d< }
331 { % begin part
332     \begin{lrbox}{\l_snp_marginfigurebox}
333     \begin{minipage}{\marginparwidth}
334         \captionsetup{type=figure,style=marginfigure}
335 }

336 { % end part
337     \end{minipage}%
338     \end{lrbox}%
339     \IfNoValueOrEmptyTF{#1}
340     {\relax}
341     {\setlength{\l_snp@offset}{#1} \vspace*{\l_snp@offset }}
342     \_snp_placemarginal{#2}{\usebox{\l_snp_marginfigurebox}}
343     \IfNoValueOrEmptyTF{#1}
344     {\relax}
345     {\setlength{\l_snp@offset}{#1 *(-1)} \vspace*{\l_snp@offset}}
346 }

*****

347 \newsavebox{\l_snp_margintablebox}
348 \DeclareCaptionStyle{margintable}{font=footnotesize}

margintable

349 \NewDocumentEnvironment{margintable} { o d< }
350 { % begin part
351     \begin{lrbox}{\l_snp_margintablebox}
352     \begin{minipage}{\marginparwidth}
353         \captionsetup{type=table,style=margintable}
354 }

355 { % end part
356     \end{minipage}
357     \end{lrbox}
358     \IfNoValueOrEmptyTF{#1}

```

```

359     {\relax}
360     {\setlength{\l@snp@offset}{#1} \vspace*{ \l@snp@offset }}
361     \_snp_placemarginal{#2}{\usebox{\l@snp_margintablebox}}
362     \IfNoValueOrEmptyTF{#1}
363     {\relax}
364     {\setlength{\l@snp@offset}{#1 *(-1)} \vspace*{{\l@snp@offset}}}
365 }

*****

366 \AtBeginDocument{%
367 \newlength{\l@snp@extrawidth}
368 \setlength{\l@snp@extrawidth}{\marginparwidth}
369 \addtolength{\l@snp@extrawidth}{\marginparsep} }

*****

370 \NewDocumentCommand \_snp_isoddpge {m m}
371 { \checkoddpge\ifoddpge #1 \else #2 \fi }

@snp@autoadjustwidth *****

372 \NewDocumentEnvironment{@snp@autoadjustwidth}{ m m }%
373 { % begin part
374 \begin{adjustwidth}{0pt}{0pt}
375 \if@twoside
376 \_snp_isoddpge{\begin{adjustwidth}{#1}{-#2}}%
377 {\begin{adjustwidth}{-#2}{#1}}
378 \else
379 \begin{adjustwidth}{#1}{-#2}
380 \fi
381 }

382 { % end part
383 \end{adjustwidth}\end{adjustwidth}
384 }

text* *****

385 \NewDocumentEnvironment{text*}{ o }%
386 { % begin part
387 \begin{adjustwidth}{0pt}{0pt}
388 \IfNoValueOrEmptyTF{#1}
389 {
390 \if@twoside
391 \_snp_isoddpge{\begin{adjustwidth}{0pt}{-\l@snp@extrawidth}}%
392 {\begin{adjustwidth}{-\l@snp@extrawidth*}{0pt}}
393 \else
394 \begin{adjustwidth}{0pt}{-\l@snp@extrawidth*}
395 \fi
396 }
397 {
398 \if@twoside
399 \_snp_isoddpge{\begin{adjustwidth}{0pt}{-\l@snp@extrawidth*#1}}%

```

```

400         {\begin{adjustwidth}{-\l@snp@extrawidth*#1}{0pt}}
401     \else
402         \begin{adjustwidth}{0pt}{-\l@snp@extrawidth*#1}
403     \fi
404 }
405 }

406 { % end part
407 \end{adjustwidth}\end{adjustwidth} \_\_snp_placemarginal{}{}
408 }

figure* *****

409 \RenewDocumentEnvironment{figure*}{0{htbp}}{

410 {
411     \begin{figure}[#1]
412     \begin{@snp@autoadjustwidth}{\l@snp@extrawidth}
413     \begin{minipage}[c]{\linewidth}
414     \centering
415     \captionsetup{margin={\l@snp@extrawidth/2,\l@snp@extrawidth/2}}
416 }{ % end part
417     \end{minipage}
418     \end{@snp@autoadjustwidth}
419     \end{figure}
420     \_\_snp_placemarginal{}{}
421 }

table* *****

422 \RenewDocumentEnvironment{table*}{0{htbp}}{

423 {
424     \begin{table}[#1]
425     \begin{@snp@autoadjustwidth}{\l@snp@extrawidth}
426     \if@twoside
427         \_\_snp_isoddpagel{\raggedright}{\raggedleft}
428         \_\_snp_isoddpagel
429         {\captionsetup{margin={0pt,0pt}}} }
430         {\captionsetup{margin={-\l@snp@extrawidth,\l@snp@extrawidth}}} }
431     \else
432         \raggedright \captionsetup{margin={0pt,0pt}}
433     \fi
434 }
435 { % end part
436     \end{@snp@autoadjustwidth}
437     \end{table}
438 }

\sidecite *****

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

```

```

440 { \IfNoValueOrEmptyTF{#2}
441   { \IfNoValueOrEmptyTF{#3}
442     {\sidenote[#1]<#4>(#5){\fullcite{#6}}}
443     {\sidenote[#1]<#4>(#5){\fullcite[#3]{#6}}}
444   }
445   { \IfNoValueOrEmptyTF{#3}
446     {\sidenote[#1]<#4>(#5){\fullcite[#2]{#6}}}
447     {\sidenote[#1]<#4>(#5){\fullcite[#2][#3]{#6}}}
448   }
449 }

```

\sidecitset

```

450 \NewDocumentCommand \sidecitset {o o o d<> d() m }

```

```

451 { \IfNoValueOrEmptyTF{#2}
452   { \IfNoValueOrEmptyTF{#3}
453     { \citeauthor{#6}\sidenote[#1]<#4>(#5){\fullcite{#6}} }
454     { \citeauthor{#6}\sidenote[#1]<#4>(#5){\fullcite[#3]{#6}} }
455   }
456   { \IfNoValueOrEmptyTF{#3}
457     { \citeauthor{#6}\sidenote[#1]<#4>(#5){\fullcite[#2]{#6}} }
458     { \citeauthor{#6}\sidenote[#1]<#4>(#5){\fullcite[#2][#3]{#6}} }
459   }
460 }

```

\sidecitets

```

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

```

```

462 { \IfNoValueOrEmptyTF{#2}
463   { \IfNoValueOrEmptyTF{#3}
464     { \citeauthor{#6}'s\sidenote[#1]<#4>(#5){\fullcite{#6}} }
465     { \citeauthor{#6}'s\sidenote[#1]<#4>(#5){\fullcite[#3]{#6}} }
466   }
467   { \IfNoValueOrEmptyTF{#3}
468     { \citeauthor{#6}'s\sidenote[#1]<#4>(#5){\fullcite[#2]{#6}} }
469     { \citeauthor{#6}'s\sidenote[#1]<#4>(#5){\fullcite[#2][#3]{#6}} }
470   }
471 }

```

```

472 \ExplSyntaxOff

```

Different odd and even marginparsep

this solution from <https://tex.stackexchange.com/questions/27518/>

```

473 \newlength\@snp@marginparsepodd
474 \setlength{\@snp@marginparsepodd}{\marginparsep}
475 \newlength\@snp@marginparsepeven
476 \setlength{\@snp@marginparsepeven}{\marginparsep-\@snp@marginsepdiff}
477 \patchcmd{\@addmarginpar}
478   {\mph@orig@addmarginpar}

```

```

479         {\if@twoside\ifodd\c@page\relax
480           \marginparsep=\@snp@marginparsepodd
481         \else
482           \marginparsep=\@snp@marginparsepeven
483         \fi
484       \else
485         \marginparsep=\@snp@marginparsepodd
486       \fi
487       \mph@orig@addmarginpar}
488     {}
489     {\message{Error! Couldn't hook into command
490       '\string\@addmarginpar'}}
491   {
492     \def\@snp@patcherr{%
493       \message{Error! Couldn't hook into command '\string\@mn@@@marginnote'}}
494     \def\@snp@patchok{%
495       \let\@snp@patcherr\relax
496       \@snp@patch
497     }
498     \def\@snp@patch{
499       \patchcmd{\@mn@@@marginnote}
500         {\kern\marginparsep}
501         {\ifx\@mn@currpage\relax\else
502           \if@twoside\ifodd\@mn@currpage\relax
503             \kern\@snp@marginparsepodd
504           \else
505             \kern\@snp@marginparsepeven
506           \fi
507         \else
508           \kern\@snp@marginparsepodd
509         \fi
510         \fi}
511     {\message{Patched!}}\@snp@patchok}
512     {\@snp@patcherr}
513   }
514   \message{Patching '\string\@mn@@@marginnote'!}
515   \@snp@patch
516   \global\let\@mn@@@marginnote\@mn@@@marginnote
517 }
518 \makeatother
519 \endinput

```

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