

Non-Floating Margin Notes with **marginnote** Package*

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Abstract

In L^AT_EX the command `\marginpar[⟨left⟩]{⟨right⟩}` might be used to create a note in the margin. But there is a problem with this command: it creates a special kind of float. For this it cannot be used e.g. at floats or footnotes. Package *marginnote* supports another command `\marginnote` to create notes in the margin. This does not use a kind of float and for this does not have the disadvantage of `\marginpar`. But there might be other problems ...

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1 How to Use **marginnote** Package

First of all you have to load. You may use:

```
\usepackage{marginnote}
```

to do so. You may also use one of the following options for a global change of the behaviour of *marginnote*:

`fulladjust` adjusts the margin note at the height and depth of the current line.
Note, that this may sometimes result in extra height and depth of the current line, but results in the best vertical alignment. This is the default.

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`heightadjust` adjusts the margin note at the height of the current line but not the depth. Note, that this may sometimes result in extra height of the current line and in vertical misplacement.

`depthadjust` adjusts the margin note at the depth of the current line but not height. Note, that this may sometimes result in extra depth of the current line and very often in vertical misplacement.

`noadjust` does not adjust the margin note at the height or depth of the current line. Note, that this often results in vertical misplacement but seldom in vertical extra space before or after the current line.

`\marginnote`

The command `\marginnote[<left>]{<right>}[:voffset]` may be used to set a margin note using `\marginnote`. The first optional argument and the mandatory argument are same using `\marginpar` from the L^AT_EX kernel. Even `\reversemarginpar` will be considered. The note *<left>* or *<right>* will be put at the current vertical position. Second optional argument *voffset* may be used to adjust the vertical position of the margin note. Use a negative dimension to move it up or a positive dimension to move it down.

`\marginnoteleftadjust`
`\marginnoterightadjust`

At some environments, e.g. `framed` from the `framed` package the horizontal placement of the margin notes are not correct. In this case you may redefine `\marginnoteleftadjust` and `\marginnoterightadjust` to fix this. Note that these are macros not lengths! So you have to use `\renewcommand`, `\def` or `\let` to change them. You may e.g. use

```
\begingroup
  \makeatletter
  \g@addto@macro\framed{%
    \let\marginnoteleftadjust\FrameSep
    \let\marginnoterightadjust\FrameSep
  }
\endgroup
```

at your preamble after loading package `framed` to fix the problem using `framed` environment.

NOTE: `\marginnoteleftadjust` and `\marginnoterightadjust` will be used only, if the correct horizontal position cannot be determined using PDFT_EX features (`\pdfsavepos` and `\pdflastxpos`). So if you are using PDFL^AT_EX with PDF output or PDFL^AT_EX with PDFT_EX-version since 1.40 or X_ET_EX you will not need to use the example code above, but you will need at least two L^AT_EX runs to get the correct horizontal positions of the margin notes.

`\marginnotetextwidth`

Package `marginnote` needs to know the real width of the type area to find the right margin. While some environments (e.g. thos of package `framed`) change `\textwidth`, `marginnote` defines it's own text width macro. If you change type area after `\begin{document}` you should add

```
\edef\marginnotetextwidth{\the\textwidth}
```

```
\marginnotevadjust  
\raggedleftmarginnote  
\raggedrightmarginnote
```

after changing the type area. Maybe you should do this globally using `\xdef` instead of `\edef`. Most users will never need to change `\marginnotetextwidth`.

At some environments the vertical adjustment of the margin note will be wrong, e.g. one base line to low. In this case you may use the additional optional argument of `\marginnote` at every usage of `\marginnote` or redefine `\marginnotevadjust` at the begin of the environment. The default definition is `0pt`.

These macros define how the margin note will be aligned. The defaults are:

- align margin notes at the left margin right to the margin,
- align margin notes at the right margin left to the margin.

You may change this using `\renewcommand`, e.g. use

```
\renewcommand*\{\raggedleftmarginnote\}{  
\renewcommand*\{\raggedrightmarginnote\}{\centering}
```

to get justified text at the left and centered text at the right margin.

This macro defines the font that will be used to set margin notes. The default is `\normalcolor`. You may use `\renewcommand` to change this, e.g. use

```
\renewcommand*\{\marginfont\}{\color{red}\sffamily}
```

to get red colored margin notes in sans serif font family. You need to load e.g. package `color` to use `\color`.

2 Known Problems Using `marginnote`

At double side layout (e.g. using class option `twoside`) `\marginnote` needs to know the number of the current page to decide whether the page is odd or even and so whether to use left or right margin. L^AT_EX uses an asynchronous output. Because of this counter `page` should not be used to get the number of the current page unless you are at page head or foot. To solve the problem `marginnote` uses a mechanism similar to labels. But this means, that the correct margin won't be known at this L^AT_EX run but only at the next. So after adding or deleting a margin note or after each change of page break you need two L^AT_EX runs to get all margins right.

The command `\marginnote` uses `\strut` and `\vadjust` to put the margin note at the correct position. But under some circumstances this may fail. You may adjust the vertical position of the margin note using the second optional argument of `\marginnote`. Sometimes even the text outside `\marginnote` will be moved because of using `\marginnote`. You may use one of the package options `fulladjust`, `heightadjust`, `depthadjust` or `noadjust` to change the global adjustment or a local redefinition of `\mn@strut` or `\mn@zbox`.

Note: The margin note will be placed at the current vertical line. This means, if you are using two `\marginnote` commands at the same line, they will be put on the same place. This is not a bug but a feature!

Since release 1.1b `\marginnote` between paragraphs (in vertical mode) will place the note between the paragraphs instead of the end of the previous paragraph.

You may use `\leavevmode` or the third optional argument of `\marginnote` to place it different.

No page break may occur inside a margin note created with `\marginnote`.

`\marginnote` somewhat different from `\marginpar` if used immediate after `\item`. This is not a bug, it's a feature!

With math `\marginnote` may work or may not depending on the math environment.

If you are using Xe^Te_X, PDF^AT_EX since version 1.40 or PD^FL^AT_EX before version 1.40 with PDF output and the horizontal position of a margin note is wrong, do one more PD^FL^AT_EX run.

Sometimes lines are stretched vertically using `\marginnote`, e.g. if you're using `\marginnote` at a list *and* upper case umlauts like “Ü” or if `\lineskiplimit>0pt`. In this case `\lineskiplimit=0pt` or `\lineskiplimit=-\maxdimen`, or one of the options may help.

You should not use `\marginnote` at the optional argument of `\item`.

3 Implementation

First test ε-T_EX.

```

1 \begingroup
2  \def\@tempb{}%
3  \def\@tempa{}%
4  \PackageError{marginnote}{seems you are not running e-TeX\@tempb}{%
5    Since 2004 the LaTeX team recommends to use e-TeX.\MessageBreak
6    marginnote since version 1.1d uses e-TeX features.\MessageBreak
7    At actual systems 'latex' should already use e-TeX.\MessageBreak
8    At deprecated systems it may be called 'elatex'.\MessageBreak
9    Use either unsupported marginnote up to version 1.1c or\MessageBreak
10   ask you administrator for LaTeX using e-TeX\@tempb.\MessageBreak
11   Not using e-TeX\@tempb\space is a fatal error!\MessageBreak
12   Processing cannot be continued!}%
13 \endgroup
14 \batchmode \errmessage{} \csname @end\endcsname\end\relax
15 \csname endinput\endcsname
}%
17 \expandafter\ifx\csname eTeXversion\endcsname\relax\else
18 \ifnum\egtversion <2
19   \def\@tempb{ V 2}%
20 \else
21   \let\@tempa\endgroup
22 \fi
23 \fi
24 \@tempa

```

Next declare and process the options.

`\if@mn@verbose` Use verbose output mode by default. But you may change this using option `quiet`.
25 `\newif\if@mn@verbose\@mn@verbosetrue`

```

26 \DeclareOption{verbose}{\@mn@verbosetrue}
27 \DeclareOption{quiet}{\@mn@verbosefalse}

\mn@strut The package needs to adjust the margin note at the current line. Sometimes this
provokes extra vertical line spacing. To avoid this you may redefine \mn@strut.
The default value is \strut.
28 \newcommand*\mn@strut{}}

\mn@zbox This macro is used to set a horizontal box without height, depth and width.
29 \newcommand{\mn@zbox}[1]{}}

The options do redefine both, \mn@strut and \mn@zbox.
30 \DeclareOption{fulladjust}{%
31   \renewcommand*\mn@strut{\strut}%
32   \renewcommand{\mn@zbox}[1]{%
33     \bgroup
34       \setbox\@tempboxa\vbox{\#1}%
35       \ht\@tempboxa\ht\strutbox
36       \dp\@tempboxa\dp\strutbox
37       \wd\@tempboxa\z@%
38       \box\@tempboxa
39     \egroup
40   }%
41 }
42 \DeclareOption{heightadjust}{%
43   \renewcommand*\mn@strut{\begingroup\dp\strutbox\z@\strut\endgroup}%
44   \renewcommand{\mn@zbox}[1]{%
45     \bgroup
46       \setbox\@tempboxa\vbox{\#1}%
47       \ht\@tempboxa\ht\strutbox
48       \dp\@tempboxa\dp\z@%
49       \wd\@tempboxa\z@%
50       \box\@tempboxa
51     \egroup
52   }%
53 }
54 \DeclareOption{depthadjust}{%
55   \renewcommand*\mn@strut{\begingroup\ht\strutbox\z@\strut\endgroup}%
56   \renewcommand{\mn@zbox}[1]{%
57     \bgroup
58       \setbox\@tempboxa\vbox{\#1}%
59       \ht\@tempboxa\ht\z@%
60       \dp\@tempboxa\dp\strutbox
61       \wd\@tempboxa\z@%
62       \box\@tempboxa
63     \egroup
64   }%
65 }
66 \DeclareOption{noadjust}{%

```

```

67 \renewcommand*{\mn@strut}{\relax}%
68 \renewcommand{\mn@zbox}[1]{%
69   \bgroup
70     \setbox\@tempboxa\vbox{\kern-\ht\strutbox #1}%
71     \ht\@tempboxa\ht\z@%
72     \dp\@tempboxa\dp\z@%
73     \wd\@tempboxa\z@%
74     \box\@tempboxa%
75   \egroup
76 }%
77 }

78 \ExecuteOptions{verbose,fulladjust}
79 \ProcessOptions\relax

```

- \newmarginnote** We need a macro to define a new note at the `aux` file. This will be done using the mechanism of L^AT_EX that is used for `\newlabel`. But we use another prefix. This will result in the usual “Labels(s) may have changed. Rerun to get cross-references right.” if a margin note is new or have moved to another page.

```
80 \newcommand*{\newmarginnote}{\@newlabel{mn}}
```

- \if@mn@pdfmode** We need to know, wether or not PDFT_EX and which version of PDFT_EX is used. With PDFT_EX the horizontal output position may be detected using `\pdfsavepos` and `\pdflastxpos`. So the relative position of the margin may be calculated. Without PDFT_EX only manual adjustment is available. While PDF mode or not may change before start of the document, setting up the switch is delayed.

```

81 \newif\if@mn@pdfmode\@mn@pdfmodetrue
82 \AtBeginDocument{%
83   \begingroup\expandafter\expandafter\expandafter\endgroup
84   \expandafter\ifx\csname pdflastxpos\endcsname\relax\else % bg or 1
85     \begingroup\expandafter\expandafter\expandafter\endgroup
86     \expandafter\ifx\csname pdftexversion\endcsname\relax % bg 2
87       \begingroup\expandafter\expandafter\expandafter\endgroup
88       \expandafter\ifx\csname pdfoutput\endcsname\relax % bg 3
89         \begingroup\expandafter\expandafter\expandafter\endgroup
90         \expandafter\ifx\csname XeTeXrevision\endcsname\relax\else % bg 4
91           \@mn@pdfmodetrue
92           \fi % ed 4
93         \else % or 3
94           \ifcase\pdfoutput\else\@mn@pdfmodetrue\fi % bg ed 4
95           \fi % ed 3
96         \else % or 2
97           \ifnum \pdftexversion<140 % bg 3
98             \begingroup\expandafter\expandafter\expandafter\endgroup
99             \expandafter\ifx\csname pdfoutput\endcsname\relax % bg 4
100               \else % or 4
101                 \ifcase\pdfoutput\else\@mn@pdfmodetrue\fi % bg ed 5
102                 \fi % ed 4
103               \else % or 3

```

```

104      \cmn@pdfmodetrue
105      \fi % ed 3
106      \fi % ed 2
107      \fi % ed 1
108      \if@mn@verbose
109          \if@mn@pdfmode
110              \PackageInfo{marginnote}{%
111                  \string\pdfoutput\space not 0 and \string\pdflastxpos\space
112                  available.\MessageBreak
113                  Extended position detection mode activated\@gobble
114              }%
115          \else
116              \PackageInfo{marginnote}{%
117                  either \string\pdflastxpos\space or \string\pdfoutput\space not
118                  available\MessageBreak
119                  or \string\pdfoutput\space set to 0.\MessageBreak
120                  Extended position detection mode deactivated\@gobble
121              }%
122          \fi
123      \fi
124 }

\marginnotetextwidth Some environments change \textwidth. But at PDF mode we need to know the
real text width to find the right margin. So we use our own text width macro.
Sometimes it may be usefull if the user can set it up. Because of this it is a user
command.
125 \newcommand*{\marginnotetextwidth}{}%
126 \let\marginnotetextwidth\textwidth
127 \AtBeginDocument{\if@mn@pdfmode\edef\marginnotetextwidth{\the\textwidth}\fi}

\@mn@margintest Macro \@mn@margintest does the complete test, which margin to use. The result
\@mn@thispage may be found at \if@tempswa. To avoid changes on the last page if there is a
\@mn@atthispage new note on the first page, try to count the notes by page. We know that this
\@mn@currpage can not be successfull, but never the less it may be a good try. \@mn@thispage
\@mn@curr xpos saves the page number of the last usage of \@mn@margintest. \@mn@atthispage
\@mn@abspage saves the number of margin note at this page. But we need to know the absolut
page number to do this. So we increase the absolut page number \@mn@abspage at
every \@outputpage. \@mn@currpage is the page from the page label if found.
\@mn@curr xpos is somehow special. Using PDFTEX the real  $x$  position may be
written with the page label and used to calculate the correct horizontal offset.
In this case \marginnoteleftadjust and \marginnoterightadjust will not be
used!
128 \newcommand*{\@mn@thispage}{}%
129 \newcommand*{\@mn@currpage}{}%
130 \newcommand*{\@mn@curr xpos}{}%
131 \newcounter{\@mn@abspage}
132 \AtBeginDocument{\setcounter{\@mn@abspage}{1}%
133     \g@addto@macro{\@outputpage}{\stepcounter{\@mn@abspage}}}
134 \newcommand*{\@mn@margintest}{}%

```

Number of the next margin note at this page.

```
135  \expandafter\ifx\csname @mn@thispage\endcsname\empty
136    \gdef\@mn@atthispage{1}%
137  \else\expandafter\ifnum \@mn@thispage=\value{\mn@abspage}%
138    \begingroup
139      \tempcnta\@mn@atthispage\advance\tempcnta by \one
140      \xdef\@mn@atthispage{\the\tempcnta}%
141    \endgroup
142  \else
143    \gdef\@mn@atthispage{1}%
144  \fi
145 \fi
146 \xdef\@mn@thispage{\themn@abspage}%
```

Use the number of the page and the number of the margin note at this page to save the real number of this page at the aux file. At PDF mode save the current *x* position too.

```
147  \let\@mn@currpage\relax
148  \let\@mn@currxpos\relax
149  \if@mn@pdfmode
150    \pdfsavepos
151    \protected@write\auxout{\let\themn@abspage\relax}{%
152      \string\newmarginnote{note.\@mn@thispage.\@mn@atthispage}{%
153        \themn@abspage}{\noexpand\number\pdflastxpos sp}}%
154    }%
155  \else
156    \protected@write\auxout{\let\themn@abspage\relax}{%
157      \string\newmarginnote{note.\@mn@thispage.\@mn@atthispage}{%
158        \themn@abspage}{}}
159    }%
160  \fi
```

If the margin note label was not defined, it seems to be new. In this case the absolute page number will be used for the test instead of the saved real page number.

```
161  \expandafter\ifx\csname mn@note.\@mn@thispage.\@mn@atthispage\endcsname\relax
```

If we are not in two side mode, we are on a odd page.

```
162  \if@twoside
163    \if@mn@verbose
164      \PackageInfo{marginnote}{Suggest that margin
165        note \@mn@thispage.\@mn@atthispage\space will be on\MessageBreak
166        absolute page \themn@abspage.\MessageBreak
167        This may be wrong}%
168    \fi
169    \ifodd\value{\mn@abspage}\tempswatrue\else\tempswafalse\fi
170  \else
171    \if@mn@verbose
172      \PackageInfo{marginnote}{right page because not two side mode}%
173    \fi
174    \tempswatrue
```

```

175      \fi
176  \else
177    \edef\@mn@currpage{\csname
178      mn@note.\@mn@thispage.\@mn@atthispage\endcsname}%
179  \edef\@mn@curr xpos{\expandafter\@secondoftwo\@mn@currpage}%

```

Ulrike Fischer suggested a simple change to take care of `\hoffset`, e.g., using package `crop`. We use this occasion to take care of `\pdforigin`, too.

```

180  \edef\@mn@curr xpos{\the\dimexpr \@mn@curr xpos -\hoffset\relax}%
181  \begingroup\expandafter\expandafter\expandafter\endgroup
182  \expandafter\ifx\csname pdforigin\endcsname\relax\else
183    \begingroup\expandafter\expandafter\expandafter\endgroup
184    \expandafter\ifx\csname pdfoutput\endcsname\relax\else
185      \ifnum \pdfoutput=1 %
186        \edef\@mn@curr xpos{\the\dimexpr \@mn@curr xpos -\pdforigin
187          +1in\relax}%
188      \fi
189    \fi
190  \fi
191  \edef\@mn@currpage{\expandafter\@firstoftwo\@mn@currpage}%
192  \if@mn@verbose
193    \PackageInfo{marginnote}{Margin note \@mn@thispage.\@mn@atthispage\space
194      is on absolute page \@mn@currpage\MessageBreak}%
195  \fi
196  \if@twoside
197    \ifodd\@mn@currpage\relax
198      \tempswatrue
199    \else
200      \tempswafalse
201    \fi
202  \else
203    \if@mn@verbose
204      \PackageInfo{marginnote}{right page because not two side mode}%
205    \fi
206    \tempswatrue
207  \fi
208 \fi
209 }

```

```

\marginnote Command \marginnote is the main macro of the package. The others are helpers
\@mn@marginnote to manage the optional arguments.
\@mn@@marginnote 210 \newcommand*{\marginnote}{%
\@mn@@@marginnote 211   \odblarg\@mn@marginnote
212 }
213 \newcommand{\@mn@marginnote}[2][]{%
214   \ifhmode
215     \obspack
216     \begingroup
217     \ifdim\@savsk>\z@\else
218       \def\:{\@xifnch}\expandafter\def\:{ \futurelet\@let@token\@ifnch}%

```

```

219      \fi
220  \else
221      \begingroup
222  \fi
223  \c@ifnextchar [\{@mn@@marginnote[{\#1}]{\#2}\}{\@mn@@marginnote[{\#1}]{\#2}[\z@]}%
224 }
225 \newcommand{\@mn@@marginnote}{}%
226 \def\@mn@@marginnote[#1]#2[#3]{%
227  \endgroup

```

In horizontal mode the space hack of the L^AT_EX kernel will be used. In vertical mode this should not be used.

```

228  \ifhmode
229      \@mn@@marginnote[{\#1}]{\#2}{[\#3]}%
230      \esphack
231  \else
232      \@mn@@marginnote[{\#1}]{\#2}{[\#3]}%
233  \fi
234 }
235 \newcommand{\@mn@@marginnote}{}%
236 \def\@mn@@marginnote[#1]#2[#3]{%

```

All changes (but change of counters that are global because of using the L^AT_EX commands to change them an `\gdef` and `\xdef`) should be local. In h-mode a `\strut` will be used to fix base line. The margin note will be put to vertical list using `\vadjust`. This also means that wie are one line to deep. This will be corrected later using negative kern. In v-mode wie use a special kind of vbox to simply set everything. Math mode should behave like v-mode. And if we are just after an item we have to leave v-mode first.

```

237  \begingroup
238  \ifmmode\mn@strut\let\tempa\mn@vadjust\else
239  \ifinlabel\leavevmode\fi
240  \ifhmode\mn@strut\let\tempa\mn@vadjust\else\let\tempa\mn@vlap\fi
241  \fi
242  \tempa{%

```

Everything will be put upwards using a vbox with zero height and depth and `\vss`. At this box the margin test will be done. If `csreversemargin` was used, the logic switchs. Then the note will be places to the margin.

```

243  \vbox to\z@{%
244  \vss
245  \@mn@marginintest
246  \if@reversemargin\if@tempswa
247  \tempswafalse
248  \else
249  \tempswatrue
250  \fi\fi
251  \if@tempswa
252  \rlap{%

```

If `\@mn@currpos` is neither `\relax` nor empty it is the real current x position of the last PDFLATE $\mathrm{\acute{E}}\mathrm{X}$ run and may be used to calculate the real horizontal offset.

```

253      \ifx\@mn@curr xpos\relax
254          \kern\marginnoterightadjust
255          \if@mn@verbose
256              \PackageInfo{marginnote}{%
257                  xpos not known, \MessageBreak
258                  using \string\marginnoterightadjust}%
259          \fi
260      \else\ifx\@mn@curr xpos\empty
261          \kern\marginnoterightadjust
262          \if@mn@verbose
263              \PackageInfo{marginnote}{%
264                  xpos not known, \MessageBreak
265                  using \string\marginnoterightadjust}%
266          \fi
267      \else
268          \if@mn@verbose
269              \PackageInfo{marginnote}{%
270                  xpos seems to be \@mn@curr xpos, \MessageBreak
271                  \string\marginnoterightadjust
272                  \space ignored}%
273          \fi
274      \begingroup
275          \setlength{\@tempdima}{\@mn@curr xpos}%
276          \kern-\@tempdima
277          \if@twoside\ifodd\@mn@currpage\relax
278              \kern\oddsidemargin
279          \else
280              \kern\evensidemargin
281          \fi
282          \else
283              \kern\oddsidemargin
284          \fi
285          \kern 1in
286      \endgroup
287      \fi
288  \fi
289  \kern\marginnotetextwidth\kern\marginparsep
290  \vbox to\z@\{\kern\marginnotevadjust\kern #3
291      \vbox to\z@{%
292          \hspace\marginparwidth

```

Here's the correction of the vertical position. The rest is simple.

```

293          \kern-\parskip
294          \marginfont\raggedright\marginnote\hspace{\z@}\strut#2\endgraf
295          \vss}%
296          \vss}%
297      }%
298  \else

```

Using the left margin.

```
299      \llap{%
300          \vbox to\z@{\kern\marginnoteadjust\kern #3
301              \vbox to\z@{%
302                  \hsize\marginparwidth
```

Same like above for left margins.

```
303      \kern-\parskip
304          \marginfont\raggedleft\marginnote\hspace{\z@}\strut#1\endgraf
305          \vss}%
306          \vss}%
307      \ifx@\mn@curr xpos\relax
308          \kern\marginnoteleftadjust
309          \if@mn@verbose
310              \PackageInfo{\marginnote}{%
311                  xpos not known, \MessageBreak
312                  using \string\marginnoteleftadjust}%
313          \fi
314      \else\ifx@\mn@curr xpos\empty
315          \kern\marginnoteleftadjust
316          \if@mn@verbose
317              \PackageInfo{\marginnote}{%
318                  xpos not known, \MessageBreak
319                  using \string\marginnoteleftadjust}%
320          \fi
321      \else
322          \if@mn@verbose
323              \PackageInfo{\marginnote}{%
324                  xpos seems to be \@mn@curr xpos, \MessageBreak
325                  \string\marginnoteleftadjust
326                  \space ignored}%
327          \fi
328      \begin{group}
329          \kern\@mn@curr xpos
330          \if@twoside\ifodd\@mn@curr page\relax
331              \kern-\oddsidemargin
332          \else
333              \kern-\evensidemargin
334          \fi
335          \else
336              \kern-\oddsidemargin
337          \fi
338          \kern-1in
339      \end{group}
340          \fi
341      \fi
342          \kern\marginparsep
343      }%
344      \fi
345  }%
```

```

346      }%
347  \endgroup
348 }

\marginnoterightadjust These may be used to define an automatic horizontal adjust. The default is zero.
\marginnoteleftadjust They will be used only if not PDFTeX or PDFTeX before version 1.40 in DVI mode is used, because in this case the save position features are not available.
349 \newcommand*{\marginnoterightadjust}={}
350 \newcommand*{\marginnoteleftadjust}={}
351 \let\marginnoterightadjust\z@%
352 \let\marginnoteleftadjust\z@

\marginnotevadjust This may be used to define an automatic vertical adjust. The default is zero. Values greater than zero will move the margin note down, values less than zero will move the margin note up.
353 \newcommand*{\marginnotevadjust}={}
354 \let\marginnotevadjust\z@

\mn@vlap This macro is used to set a vertical box without size at vertical mode.
355 \newcommand{\mn@vlap}[1]{%
356   \setbox@\tempboxa\vbox to \ht\strutbox{\#1\vsss}%
357   \box@\tempboxa\vskip-\baselineskip
358 }

\mn@vadjust This macro is used to set a vertical box at horizontal mode.
359 \newcommand{\mn@vadjust}[1]{%
360   \mn@zbox{\kern-\parskip
361     \leavevmode\vadjust{\#1}%
362   \kern\parskip
363 }%
364 }

\marginfont These are very simple. A class may also define \marginfont. Use this if available.
\raggedleftmarginnote I don't use \let for the definitions of the ragged macros, so the meaning may change loading e.g. package ragged2e.
\raggedrightmarginnote

365 \providecommand*{\marginfont}={}
366 \newcommand*{\raggedleftmarginnote}{\raggedleft}
367 \newcommand*{\raggedrightmarginnote}{\raggedright}

```

Change History

v1.0a	Susumu Tanimura].	3
General: Example to macros <code>\raggedleftmarginnote</code> and <code>\raggedrightmarginnote</code> at documentation fixed [thanks to	<code>\marginfont</code> : Use <code>\providecommand</code> to define it.	13
v1.0b	General: spelling fixes	1

v1.1	\mn@zbox: new (internal)	5
	\mn@@@marginnote: new PDF mode feature	9
	\mn@currrpage: new (internal)	7
	\mn@curr xpos: new (internal)	7
	\mn@margintest: new PDF mode feature	7
	\if@mn@pdfmode: new switch	6
	\marginnotetextwidth: new macro	7
v1.1a	\if@mn@pdfmode: PDF _{TEX} since 1.40 allows \pdfsavepos in DVI mode too	6
v1.1b	\mn@@@marginnote: use \mn@vadjust instead of \vadjust	10
	\if@mn@pdfmode: if level fixed	6
	\mn@vadjust: new (internal)	13
v1.1c	\if@mn@pdfmode: X _{FIG} _{TEX} has working \pdflastxpos but no \pdftexversion	6
v1.1d	\mn@abspage: take care of \hoffset	9
	take care of \pdfhorigin	9
v1.1e	\mn@strut: new (semi internal)	5
	\mn@@@marginnote: use \mn@strut instead of \strut	10
	General: new options fulladjust, heightadjust, depthadjust, and noadjust	5
v1.1f	\mn@@@marginnote: missing usage of \marginnotevadjust on left margin fixed	12