The **marginal** package

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1 Introduction

Enlarge free and show lost marginal inserts.

2 Usage

\showlostmarginals   Outputs lost marginal notes at the left of page.

\enlargefreelist   Adds more(34) free inserts to freelist.

\onesidemarginals   Outputs marginal notes only on one side. It saves one half of the available free inserts.

3 Implementation

```
1 \newif\if@mparlost        \@mparlostfalse

2 \newbox\@mparlostbox
3 \setbox\@mparlostbox\vbox{}
```

\@fltovfpar

```
4 \gdef\@fltovfpar{\global\@mparlosttrue
5   \@latex@warning{Too many unprocessed (marginal)floats}\relax
6   }
```

\@fltovfmess

```
7 \gdef\@fltovfmess{%
8   \@latex@error{Too many unprocessed floats}\@ehb
9   }
```

\marginpar

```
10 \def\marginpar{%
11   \ifhmode
12     \@bsphack\@floatpenalty -\@Mii
13   \else
```

```
14        \@floatpenalty-\@Miii
15      \fi
16      \ifinner
17        \@parmoderr\@floatpenalty\z@
18      \else
19        \@next\@currbox\@freelist{}{}%
20        \@next\@marbox\@freelist{\global\count\@marbox\m@ne}{\@floatpenalty\z@
21                \@fltovfmess \def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
22      \fi
23      \@ifnextchar[\@xmpar\@ympar
24      }
```

\@savemarbox

```
25 \long\def\@savemarbox#1#2{%
26    \global\setbox#1%
27      \color@vbox
28        \vtop{%
29          \hsize\marginparwidth
30          \@parboxrestore
31          \@marginparreset
32          #2%
33          \global\@minipagefalse
34          \outer@nobreak
35          }%
36      \color@endbox
37    \if@mparlost
38      \global\setbox\@mparlostbox\vbox{\unvbox\@mparlostbox\copy#1}%
39      \global\@mparlostfalse
40    \fi
41    }
```

\showlostmarginals   Outputs lost marginal notes at the left of the page.

```
42 \def\showlostmarginals{%
43    \global\let\old@textbottom\@textbottom
44    \gdef\@textbottom{%
45      \vtop to\z@{%
46        \hbox to\z@{\kern-\wd\@mparlostbox
47          \vbox to\z@{\kern-\ht\@mparlostbox
48            \box\@mparlostbox
49            \vfill
50            }%
51          }%
52        }%
53      \old@textbottom
54      }%
55    \global\let\@fltovfmess\@fltovfpar
56    }
```

\enlargefreelist   Adds more(34) free inserts to freelist

```
57 \def\enlargefreelist{%
58    \@for\curr@option:={S,T,U,W,X,Y,Z,a,b,c,d,e,f,g,h,i,%
59                        j,k,l,m,n,o,p,q,r,s,t,u,v,w,x,y,z}%
60    \do{\expandafter\newinsert\csname bx@\curr@option\endcsname}%
61    \gdef\@freelist{%
62    \@elt\bx@A \@elt\bx@B \@elt\bx@C \@elt\bx@D \@elt\bx@E \@elt\bx@F
63    \@elt\bx@G \@elt\bx@H \@elt\bx@I \@elt\bx@J \@elt\bx@K \@elt\bx@L
64    \@elt\bx@M \@elt\bx@N \@elt\bx@O \@elt\bx@P \@elt\bx@Q \@elt\bx@R
65    \@elt\bx@S \@elt\bx@T \@elt\bx@U \@elt\bx@V \@elt\bx@W \@elt\bx@X
66    \@elt\bx@Y \@elt\bx@Z
67    \@elt\bx@a \@elt\bx@b \@elt\bx@c \@elt\bx@d \@elt\bx@e \@elt\bx@f
68    \@elt\bx@g \@elt\bx@h \@elt\bx@i \@elt\bx@j \@elt\bx@k \@elt\bx@l
69    \@elt\bx@m \@elt\bx@n \@elt\bx@o \@elt\bx@p \@elt\bx@q \@elt\bx@r
70    \@elt\bx@s \@elt\bx@t \@elt\bx@u \@elt\bx@v \@elt\bx@w \@elt\bx@x
71    \@elt\bx@y \@elt\bx@z
72    }%
73    }%
```

\onesidemarginals - outputs marginals only on one side

```
74 \def\onesidemarginals{%
75    \newbox\@marbox
```

\@addmarginpar

```
76    \gdef\@addmarginpar{\@cons\@freelist\@currbox
77    \@tempdima\@mparbottom
78    \advance\@tempdima -\@pageht
79    \advance\@tempdima\ht\@currbox
80    \ifdim\@tempdima >\z@
81       \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
82    \else
83       \@tempdima\z@
84    \fi
85    \global\@mparbottom\@pageht
86    \global\advance\@mparbottom\@tempdima
87    \global\advance\@mparbottom\dp\@currbox
88    \global\advance\@mparbottom\marginparpush
89    \advance\@tempdima -\ht\@currbox
90    \global\setbox\@currbox
91       \vbox {\vskip\@tempdima \box\@currbox}%
92    \global \ht\@currbox \z@
93    \global \dp\@currbox \z@
94    \kern -\@pagedp
95    \nointerlineskip
96    \hb@xt@\columnwidth
97       {\hskip\columnwidth \hskip\marginparsep \box\@currbox \hss}%
98    \nointerlineskip
99    \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}%
100    }%
```

\marginpar

```
101  \gdef\marginpar{%
102    \ifhmode
103      \@bsphack\@floatpenalty -\@Mii
104    \else
105      \@floatpenalty-\@Miii
106    \fi
107    \ifinner
108      \@parmoderr\@floatpenalty\z@
109    \else
110      \@next\@currbox\@freelist{\global\count\@currbox\m@ne}{\@floatpenalty\z@
111                                    \@fltovfmess \def\@currbox{\@tempboxa}}%
112    \fi
113    \@ifnextchar[\@xmpar\@ympar
114    }%
```

\@xmpar

```
115  \long\gdef\@xmpar[##1]##2{\@savemarbox\@currbox{##2}\@xympar}%
```

\@ympar

```
116  \long\gdef\@ympar##1{\@savemarbox\@currbox{##1}\@xympar}%
```

\@xympar

```
117  \def\@xympar{%
118    \ifnum\@floatpenalty<\z@ \@cons\@currlist\@marbox \fi
119    \setbox\@tempboxa
120      \color@vbox
121        \vbox\bgroup
122          \end@float
123          \global\@ignorefalse \@esphack
124    }%
125  }
```

```
126 %\endinput
```