

The `marginal` package

Sigitas Tolušis
sigitas@vtex.lt

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1 Introduction

Enlarge free and show lost marginal inserts.

2 Usage

<code>\showlostmarginals</code>	Outputs lost marginal notes at the left of page.
<code>\enlargefreelist</code>	Adds more(34) free inserts to freelist.
<code>\onesidemarginals</code>	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

```