

The floatpag package

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1 Introduction

Provides commands to apply different pagestyles to the full page floats.

2 Usage

`\floatpagestyle` $\langle foo \rangle$ will apply pagestyle $\langle foo \rangle$ to all pages occupied by full page floats.

`\rotfloatpagestyle` $\langle foo \rangle$ will apply pagestyle $\langle foo \rangle$ to all pages occupied by sideways figures and tables produced with the help of `rotating` package (Sebastian Rahtz and Leonor Barroca).

`\thisfloatpagestyle` $\langle foo \rangle$ will apply pagestyle $\langle foo \rangle$ to a page where this command was used inside figure or table environment.

Default: `\floatpagestyle{headings}` and `\rotfloatpagestyle{plain}`.

The following commands from the LaTeX2e kernel were redefined: `\@xfloat`, `\@vtryfc`.

The following commands from the `rotating.sty` was redefined: `\@xrotfloat`, `\@rotxdblfloat`.

3 Implementation

`\floatpagestyle`

```
1 \def\floatpagestyle#1{\gdef\atfloat@page{\thispagestyle{#1}}}
```

`\rotfloatpagestyle`

```
2 \def\rotfloatpagestyle#1{\gdef\@r@f@pagestyle{#1}}
```

```
3 \floatpagestyle{headings}
```

```
4 \rotfloatpagestyle{plain}
```

\thisfloatpagestyle

```
5 \def\thisfloatpagestyle#1{%  
6 \global\@namedef{\number\@currbox @float}{\thispagestyle{#1}}\relax  
7 }
```

\@xfloat Modify \x@float - ordinary floats

```
8 \def\@xfloat #1[#2]{%  
9 \@nodocument  
10 \def \@capttype {#1}%  
11 \def \@fps {#2}%  
12 \@onelevel@sanitize \@fps  
13 \def \reserved@b {!}%  
14 \ifx \reserved@b \@fps  
15 \@fpsaddddefault  
16 \else  
17 \ifx \@fps \@empty  
18 \@fpsaddddefault  
19 \fi  
20 \fi  
21 \ifhmode  
22 \@bsphack  
23 \@floatpenalty -\@Mii  
24 \else  
25 \@floatpenalty-\@Miii  
26 \fi  
27 \ifinner  
28 \@parmoderr\@floatpenalty\z@  
29 \else  
30 \@next\@currbox\@freelist  
31 {%  
32 \@tempcnta \sixt@n  
33 \expandafter \@tfor \expandafter \reserved@a  
34 \expandafter :\expandafter =\@fps  
35 \do  
36 {%  
37 \if \reserved@a h%  
38 \ifodd \@tempcnta  
39 \else  
40 \advance \@tempcnta \@ne  
41 \fi  
42 \else\if \reserved@a t%  
43 \@setfpsbit \tw@  
44 \else\if \reserved@a b%  
45 \@setfpsbit 4%  
46 \else\if \reserved@a p%  
47 \@setfpsbit 8%  
48 \else\if \reserved@a !%  
49 \ifnum \@tempcnta>15  
50 \advance\@tempcnta -\sixt@n\relax
```

```

51         \fi
52     \else
53         \latex@error{Unknown float option ‘\reserved@a’}%
54         {Option ‘\reserved@a’ ignored and ‘p’ used.}%
55         \@setfpsbit 8%
56         \fi\fi\fi\fi\fi
57     }%
58     \@tempcntb \csname ftype@\@capttype \endcsname
59     \multiply \@tempcntb \@xxxii
60     \advance \@tempcnta \@tempcntb
61     \global \count\@currbox \@tempcnta
62     \global\@namedef{\number\@currbox @float}{\at@float@page}\relax
63     }%
64     \@fltovf
65     \fi
66     \global \setbox\@currbox
67     \color@vbox
68     \normalcolor
69     \vbox \bgroup
70     \hsize\columnwidth
71     \@parboxrestore
72     \@floatboxreset
73 }

```

`\floatpag@xrotfloat` rotating.sty v. >2.10:

```

74 \def\floatpag@xrotfloat#1[#2]{%
75   \@float{#1}#2}%
76   \thisfloatpagestyle{\@r@f@pagestyle}%
77   \begin{lrbox}\rot@float@box
78   \begin{minipage}\textheight
79   }

```

`\floatpag@rotxdblfloat` rotating.sty v. >2.10:

```

80 \def\floatpag@rotxdblfloat#1[#2]{%
81   \@float{#1}#2}%
82   \thisfloatpagestyle{\@r@f@pagestyle}%
83   \hsize\textwidth\linewidth\textwidth
84   \begin{lrbox}\rot@float@box
85   \begin{minipage}\textheight
86   }

87 \AtBeginDocument{%
88   \let\@xrotfloat\floatpag@xrotfloat
89   \let\@rotxdblfloat\floatpag@rotxdblfloat
90   }%

```

`\spec@float` ”Hook” in the output procedure.

```

91 \def\spec@float#1{%
92   \@nameuse{\number#1@float}%
93   \global\@namedef{\number#1@float}{}%

```

```

94   }

\@vtryfc
95 \def\@vtryfc#1{%
96   \global\setbox\@outputbox\vbox{}%
97   \let\@elt\@vtryfc
98   \@flsucceed
99   \let\@elt\spec@float
100  \@flsucceed
101  \global\setbox\@outputbox \vbox to\@colht{%
102    \vskip \@fptop
103    \vskip -\@fpsep
104    \unvbox \@outputbox
105    \vskip \@fpbot
106    }%
107  \let\@elt\relax
108  \xdef#1{\@failedlist\@flfail}%
109  \xdef\@freelist{\@freelist\@flsucceed}%
110  }

111 %\endinput

```