

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\at@float@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 \@capytype {#1}%
11  \def \@fps {#2}%
12  \@onelevel@sanitize \@fps
13  \def \reserved@a {!}%
14  \ifx \reserved@a \@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@\@capytype \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{\@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{\@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\@wtryfc
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
```