

# The floatpag package

Vytas Statulevičius and Sigitas Tolušis  
vytas@vtex.lt, sigitas@vtex.lt

v1.1 from 2012/05/29

## 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 command from the `rotating.sty` was redefined: `\@xrotfloat`.

## 3 Implementation

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{floatpag}
3   [1999/04/29
4     FLOAT PAGESTYLE]

\floatpagestyle
5 \def\floatpagestyle#1{\gdef\at@float@page{\thispagestyle{#1}}}

\rotfloatpagestyle
6 \def\rotfloatpagestyle#1{%
7   \gdef\@r@f@pagestyle{#1}%
8   \gdef\at@rotfloat@page{\thispagestyle{#1}}%
9 }
```

```

10 \floatpagestyle{headings}
11 \rotfloatpagestyle{plain}

\thisfloatpagestyle
12 \def\thisfloatpagestyle#1{%
13   \expandafter\expandafter\expandafter\gdef\expandafter
14     \csname\number\@currbox @float\endcsname{\thispagestyle{#1}}\relax
15   }

\@xfloat Modify \x@float - ordinary floats
16 \def\@xfloat #1[#2]{%
17   \@nodocument
18   \def \@capttype {#1}%
19   \def \@fps {#2}%
20   \@onelevel@sanitize \@fps
21   \def \reserved@a {!}%
22   \ifx \reserved@a \@fps
23     \@fpsadddefault
24   \else
25     \ifx \@fps \@empty
26       \@fpsadddefault
27     \fi
28   \fi
29   \ifhmode
30     \@bsphack
31     \@floatpenalty -\@Mii
32   \else
33     \@floatpenalty-\@Miii
34   \fi
35   \ifinner
36     \@parmoderr\@floatpenalty\z@
37   \else
38     \@next\@currbox\@freelist
39     {%
40       \@tempcnta \sixt@@n
41       \expandafter \@tfor \expandafter \reserved@a
42         \expandafter :\expandafter =\@fps
43       \do
44       {%
45         \if \reserved@a h%
46           \ifodd \@tempcnta
47             \else
48               \advance \@tempcnta \@ne
49             \fi
50           \fi
51         \if \reserved@a t%
52           \setfpsbit \tw@
53         \fi
54         \if \reserved@a b%

```

```

55         \@setfpsbit 4%
56     \fi
57     \if \reserved@a p%
58         \@setfpsbit 8%
59     \fi
60     \if \reserved@a !%
61         \ifnum \@tempcnta>15
62             \advance\@tempcnta -\sixt@@n\relax
63         \fi
64     \fi
65     }%
66     \@tempcntb \csname ftype@\@capttype \endcsname
67     \multiply \@tempcntb \xxxii
68     \advance \@tempcnta \@tempcntb
69     \global \count\@currbox \@tempcnta
70     \expandafter\expandafter\expandafter\gdef\expandafter
71     \csname\number\@currbox @float\endcsname{\at@float@page}\relax
72     }%
73     \@fltovf
74 \fi
75 \global \setbox\@currbox
76     \color@vbox
77     \normalcolor
78     \vbox \bgroup
79         \hsize\columnwidth
80         \@parboxrestore
81         \@floatboxreset
82     }

\@xrotfloat 2e rotating.sty v. 2.10:
83 \def\@xrotfloat#1[#2]{%
84     \@float{#1}[#2]%
85     \thisfloatpagestyle{\@r@f@pagestyle}%
86     \begin{lrbox}\rot@float@box
87     \begin{minipage}\textheight
88     }

\@xrotfloat 2.09 rotating.sty v. 1.6
89 \def\@xrotfloat#1[#2]{%
90     \ifhmode
91         \@bsphack
92         \@floatpenalty -\@Mii
93     \else
94         \@floatpenalty-\@Miii
95     \fi
96     \def\@capttype{#1}%
97     \ifinner
98         \@parmoderr\@floatpenalty\z@
99     \else
100         \@next\@currbox\@freelist{\@tempcnta\csname ftype@#1\endcsname

```

```

101      \multiply\@tempcnta\@xxxii\advance\@tempcnta\sixt@@n
102      \@tfor \@tempa :=#2\do{%
103          \if\@tempa h\advance\@tempcnta \@ne\fi
104          \if\@tempa t\advance\@tempcnta \tw@\fi
105          \if\@tempa b\advance\@tempcnta 4\relax\fi
106          \if\@tempa p\advance\@tempcnta 8\relax\fi
107      }%
108      \global\count\@currbox\@tempcnta
109      }%
110      \@fltovf
111  \fi
112  \expandafter\expandafter\expandafter\gdef\expandafter
113      \csname\number\@currbox @float\endcsname{\at@rotfloat@page}\relax
114  \global\setbox\@currbox \vbox\bgroup
115      \hsize\textheight
116      \@parboxrestore
117  }

```

Check for rotating version: 2e ar 209: 1999.02.08 To be sure check at begin document.

```

118 \AtBeginDocument{%
119 \ifpackageloaded{rotating}%
120 {\let\@xrotfloat\@xrotfloat\let\n@xrotfloat\relax}%
121 {\let\@xrotfloat\n@xrotfloat\let\@xrotfloat\relax}}%

```

\spec@float "Hook" in the output procedure.

```

122 \def\spec@float#1{\expandafter\csname\number#1@float\endcsname
123 \expandafter\expandafter\expandafter\gdef\expandafter\csname\number#1@float\endcsname{}%
124 }

```

\@vtryfc

```

125 \def\@vtryfc#1{%
126 \global\setbox\@outputbox\vbox{}%
127 \let\@elt\@wtryfc
128 \@flsucceed
129 \let\@elt\spec@float
130 \@flsucceed
131 \global\setbox\@outputbox \vbox to\@colht{%
132 \vskip \@fptop
133 \vskip -\@fpsep
134 \unvbox \@outputbox
135 \vskip \@fpbot
136 }%
137 \let\@elt\relax
138 \xdef#1{\@failedlist\@flfail}%
139 \xdef\@freelist{\@freelist\@flsucceed}%
140 }

```

```

141 %\endinput

```