The floatpag package

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1 Introduction

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

2 Usage

`\floatpagestyle` `{`⟨*foo*⟩`}` will apply pagestyle ⟨*foo*⟩ to all pages occupied by full page floats.

`\rotfloatpagestyle` `{`⟨*foo*⟩`}` will apply pagestyle ⟨*foo*⟩ to all pages occupied by sideways figures and tables produced with the help of `rotating` package (Sebastian Rahtz and Leonor Barroca).

`\thisfloatpagestyle` `{`⟨*foo*⟩`}` will apply pagestyle ⟨*foo*⟩ 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`

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

`\rotfloatpagestyle`

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

\floatpagestyle{headings}
\rotfloatpagestyle{plain}
```

`\thisfloatpagestyle`

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

`\@xfloat` Modify `\x@float` - ordinary floats

```
\def\@xfloat #1[#2]{%
  \@nodocument
  \def \@captype {#1}%
   \def \@fps {#2}%
   \@onelevel@sanitize \@fps
   \def \reserved@b {!}%
   \ifx \reserved@b \@fps
     \@fpsadddefault
   \else
     \ifx \@fps \@empty
       \@fpsadddefault
     \fi
   \fi
   \ifhmode
     \@bsphack
     \@floatpenalty -\@Mii
   \else
     \@floatpenalty-\@Miii
   \fi
  \ifinner
     \@parmoderr\@floatpenalty\z@
  \else
    \@next\@currbox\@freelist
      {%
       \@tempcnta \sixt@@n
       \expandafter \@tfor \expandafter \reserved@a
         \expandafter :\expandafter =\@fps
         \do
          {%
           \if \reserved@a h%
             \ifodd \@tempcnta
             \else
               \advance \@tempcnta \@ne
             \fi
           \else\if \reserved@a t%
             \@setfpsbit \tw@
           \else\if \reserved@a b%
             \@setfpsbit 4%
           \else\if \reserved@a p%
             \@setfpsbit 8%
           \else\if \reserved@a !%
             \ifnum \@tempcnta>15
               \advance\@tempcnta -\sixt@@n\relax
             \fi
           \else
             \@latex@error{Unknown float option `\reserved@a'}%
             {Option `\reserved@a' ignored and `p' used.}%
             \@setfpsbit 8%
           \fi\fi\fi\fi\fi
           }%
       \@tempcntb \csname ftype@\@captype \endcsname
       \multiply \@tempcntb \@xxxii
       \advance \@tempcnta \@tempcntb
```

```
      \global \count\@currbox \@tempcnta
      \global\@namedef{\number\@currbox @float}{\at@float@page}\relax
      }%
    \@fltovf
  \fi
  \global \setbox\@currbox
    \color@vbox
      \normalcolor
      \vbox \bgroup
        \hsize\columnwidth
        \@parboxrestore
        \@floatboxreset
  }
```

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

```
\def\floatpag@@xrotfloat#1[#2]{%
  \@float{#1}[#2]%
  \thisfloatpagestyle{\@r@f@pagestyle}%
  \begin{lrbox}\rot@float@box
  \begin{minipage}\textheight
  }
```

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

```
\def\floatpag@@rotxdblfloat#1[#2]{%
  \@float{#1}[#2]%
  \thisfloatpagestyle{\@r@f@pagestyle}%
  \hsize\textwidth\linewidth\textwidth
  \begin{lrbox}\rot@float@box
  \begin{minipage}\textheight
}

\AtBeginDocument{%
  \let\@xrotfloat\floatpag@@xrotfloat
  \let\@rotxdblfloat\floatpag@@rotxdblfloat
  }%
```

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

```
\def\spec@float#1{%
  \@nameuse{\number#1@float}%
  \global\@namedef{\number#1@float}{}%
  }
```

`\@vtryfc`

```
\def\@vtryfc#1{%
  \global\setbox\@outputbox\vbox{}%
  \let\@elt\@wtryfc
  \@flsucceed
  \let\@elt\spec@float
  \@flsucceed
  \global\setbox\@outputbox \vbox to\@colht{%
    \vskip \@fptop
    \vskip -\@fpsep
    \unvbox \@outputbox
    \vskip \@fpbot
```

```
    }%
  \let\@elt\relax
  \xdef#1{\@failedlist\@flfail}%
  \xdef\@freelist{\@freelist\@flsucceed}%
  }

%\endinput
```