This heading was prepared with the \thispageheading command. It allows long multi-line headings!

The \textbf{watermark} package*

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1 User Interface

\texttt{\textbackslash watermark} The package provides watermarks on output pages. A watermark is some text or picture printed at the background of paper. A watermark is prepared in a picture box stored at the beginning of header. So, you should place the watermark material with LaTeX’s \texttt{\put} and \texttt{\multiput} commands. Allowed watermark commands are shown in the table:

<table>
<thead>
<tr>
<th>Command</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>\texttt{\watermark{⟨body⟩}}</td>
<td>Set the same watermark for all pages</td>
</tr>
<tr>
<td>\texttt{\leftwatermark{⟨body⟩}}</td>
<td>Set the even-page watermark</td>
</tr>
<tr>
<td>\texttt{\rightwatermark{⟨body⟩}}</td>
<td>Set the odd-page watermark</td>
</tr>
<tr>
<td>\texttt{\thiswatermark{⟨body⟩}}</td>
<td>Set a watermark for the current page only</td>
</tr>
</tbody>
</table>

In one-side mode, the \texttt{\leftwatermark} is ignored and the \texttt{\rightwatermark} is applied to all pages.

\texttt{\thispageheading} The package also provides the command \texttt{\thispageheading{⟨heading⟩}} which replaces a heading for the current page to the specified multi-line heading. The heading is prepared in the parbox of the \texttt{\textwidth} width aligned on the top line. This command does not suppress watermarks.

Examples of using watermarks are shown in the \texttt{nccropmark} package.

2 The Implementation

\texttt{\begindvi} To support watermarks, we use the \texttt{\begindvi} hook from the output routine. This hook works only once at the beginning of dvi, but some packages (e.g. hyperref) also use it for their own needs. So, we redefine it at the beginning of document in such a way to accurately save its behaviour after the first call when it can be redefined by other packages. All the we need from this hook — to

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call the \WMK@insert command every time when the output routine composes a
new page.
1 ⟨*package⟩
2 \AtBeginDocument{
3 \let\WMK@begindvi\@begindvi
4 \def\@begindvi{%
Apply saved \begindvi hook and then call the \WMK@insert command:
5 \WMK@begindvi
6 \WMK@insert
After that we must redefine the \begindvi hook, because it is already redefined
here to the \empty value (or to something else if another package using this hook
is loaded). We save its new meaning in the \WMK@begindvi command and redefine
the \begindvi:
7 \global\let\WMK@begindvi\@begindvi
8 \gdef\@begindvi{\WMK@begindvi\WMK@insert}%
9 }%
10 }
\WMK@insert
The command redefines the current header and inserts the \WMK@hook at the
beginning of header. A box produced by this hook has zero natural sizes.
11 \def\WMK@insert{%
12 \let\WMK@head\@thehead
13 \def\@thehead{\WMK@hook\WMK@head}%
14 }
\WMK@hook
The command applies this watermark (\WMK@this), odd watermark (\WMK@odd),
or even watermark (\WMK@even). The watermarks are prepared within the picture
environment:
15 \def\WMK@hook{%
16 \begin{picture}(0,0)\relax
17 \ifx\WMK@this\relax
18 \if@twoside
19 \ifodd\c@page\WMK@odd\else\WMK@even\fi
20 \else
21 \WMK@odd
22 \fi
23 \else
24 \WMK@this \global\let\WMK@this\relax
25 \fi
26 \end{picture}%
After that we test the header. At the first, we test the \WMK@thishead command.
If it is specified, we let \WMK@head to \WMK@thishead.
27 \ifx\WMK@thishead\relax \else
28 \let\WMK@head\WMK@thishead
29 \global\let\WMK@thishead\relax
30 \fi
The original \@thehead command saved in \WMK@head can be defined with \@oddhead content or can be let to \@oddhead or \@evenhead. We test all these cases to recognize when the head is really empty. A head prepared with \thispageheading can be also empty. If the empty case is recognized, we insert the \hfil command to avoid underfull.

\begin{verbatim}
31 \ifx\WMK@head\@empty \hfil
32 \else
33 \def\@tempa{\@oddhead}\
34 \ifx\WMK@head\@tempa
35 \ifx\@oddhead\@empty \hfil \fi
36 \fi
37 \fi
38 }

Set defaults for this heading and watermarks.

\begin{verbatim}
39 \let\WMK@thishead\relax
40 \let\WMK@this\relax
41 \let\WMK@odd\@empty
42 \let\WMK@even\@empty

\begin{verbatim}
\watermark
\leftwatermark
\rightwatermark
\thiswatermark
\end{verbatim}

Define watermark producing commands:

\begin{verbatim}
43 \newcommand{\watermark}[1]{\leftwatermark{#1}\rightwatermark{#1}}
44 \newcommand{\leftwatermark}[1]{\gdef\WMK@even{#1}}
45 \newcommand{\rightwatermark}[1]{\gdef\WMK@odd{#1}}
46 \newcommand{\thiswatermark}[1]{\gdef\WMK@this{#1}}
\end{verbatim}

\thispageheading Finally, define the \thispageheading{⟨heading⟩} command. We especially test the case of empty heading and set \WMK@thishead to the \@empty value in this case. This allows avoiding underfull in the \WMK@hook.

\begin{verbatim}
47 \newcommand{\thispageheading}[1]{\%}
48 \def\@tempa{#1}\
49 \ifx\@tempa\@empty
50 \\global\let\WMK@thishead\@empty
51 \else
52 \gdef\WMK@thishead{\parbox[t]{\textwidth}{#1}}\
53 \fi
54 }
55 \end{verbatim}

\end{verbatim}
\end{verbatim}
\end{verbatim}
\end{verbatim}