

The magicwatermark¹ package

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V1.2A

```
\MagicWatermark{
  setup = {
    pages = {*},
    content = {P-\thepage},
    style = {shift = {(0.5\textwidth, 0.5\textheight + \headheight +
\headsep)}, scale = 3, text = cyan, font = \ttfamily}
  },
  setup = {
    pages = {even},
    style = {scale = 5, text = pink},
    content = {Watermark},
    is append
  },
  setup = {
    pages = {1},
    style = {text width = 1.7\paperwidth, rotate = 45, align = left, font =
\Large, opacity = .1},
    content = {
      \foreach \x in {0, ..., 500} {Magic Watermark }
    },
    is append
  }
}
```

¹<https://github.com/ljguo1020/magicwatermark>

English version of the documentation by J  r  my Just <jeremy@jejust.fr>.

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1 Presentation

`magicwatermark` is a new watermarking package. Tts first version was released on June 17th, 2022, but this update is a complete refactoring.

`magicwatermark` is based on `tikz` and `expl3`, which gives you a lot of flexibility to add a background or a watermark to the pages of your document.

2 Use

The use of `magicwatermark`, compared to other packages of similar functionality, is a lot easier, as it provides a single command, `\MagicWatermark`. This command takes a parameter consisting in a number of `setup` rules.

```
\MagicWatermark{
  setup = {},
  setup = {},
  ...
}
```

`setup` internally accepts four key options to configure the presentation of the watermark.

2.1 pages

`pages` accepts a comma-separated list which defines the scope of the watermark, e.g. `pages = {2, 4, 5, 8-10}` indicates that the watermark is to appear on pages 2, 4, 5, 8, 9 and 10.

`pages` accepts a total of four configuration rules:

- `*`, indicating all pages;
- `odd` and `even`, for odd/even pages;
- a range, like `3-5` or `12-ii`;
- expressions, such as `2X+1`, `2X^2+X+1` (the variable **has to be** `X`).

Here, we assume that the total number of pages is 24:

pages machine rules		
<code>pages = {*}</code>	=>	1, 2, 3, ..., 24
<code>pages = {odd}</code>	=>	1, 3, 5, ..., 23
<code>pages = {1, 3, 5-10}</code>	=>	1, 3, 5, 6, 7, ..., 10
<code>pages = {1-5, 8, 20-ii}</code>	=>	1, 2, ..., 5, 8, 20, 21, ..., 23
<code>pages = {3X + 1}</code>	=>	1, 4, 7, 10, ..., 22

2.2 tikz

`tikz` is used to choose whether the watermark content will be placed in a `tikz` node (see below). The two possible values are `true` and `false`. The default is `true`. When you choose to use `tikz`, you need to load the `tikz` package manually.

2.3 content

`content` is used to define the content of the watermark, when `tikz` is enabled. The given value is placed inside the `tikz` node; for this reason, to take full advantage of this syntax, you need to have some knowledge of the available `node` options.

2.4 style

`style` is used to set the style of the node that holds the watermark content. The default style is `inner sep = Opt, outer sep = Opt, opacity = .5, align = left`, and is ignored when `tikz` is disabled.

2.5 is append

`is append` is used to choose whether or not to override the existing watermark on the current page. The available values are `true` and `false`, the default is `false`.

3 Examples

Add page number to the top right corner of each pages:

```
% \usepackage{tikz}
\MagicWatermark{
  setup = {
    pages = {*},
    content = {P-\thepage},
    style = {shift = {(0.5\textwidth, 0.5\textheight + \headheight + \headsep)}},
    scale = 3, text = cyan, font = \ttfamily}
  }
}
```

Add text watermark at the center of even numbered pages:

```
% \usepackage{tikz}
\MagicWatermark{
  setup = {
    pages = {even},
    style = {scale = 5, text = pink},
    content = {Watermark},
    is append
  }
}
```

Add a full page of text as watermark to the second to last page:

```
% \usepackage{tikz}
\MagicWatermark{
  setup = {
    pages = {2-i},
    style = {text width = 1.7\paperwidth, rotate = 45, align = left, font =
\Large, opacity = .1},
    content = {
```

```

        \foreach \x in {0, ..., 500} {Magic Watermark }
    },
    is append
}
}

```

Use different watermarks for odd and even pages:

```

% \usepackage{tikz}
\MagicWatermark{
  setup = {
    pages = {even},
    style = {scale = 8, rotate = 45, text=red, align = center,font =
\linespread{2}\selectfont},
    content = {
      Even MagicWatermark\\
      Even MagicWatermark\\
      Even MagicWatermark\\
      Even MagicWatermark
    }
  },
  setup = {
    pages = {odd},
    style = {scale = 6, rotate = -45, text = cyan, text width = 1.7\paperwidth,
font = \linespread{1.5}\selectfont, align = center},
    content = {
      \foreach \x in {0,...,5}{
        Odd MagicWatermark
      }
    }
  }
}
}

```

Use an image as watermark:

```

% \usepackage{tikz}
\MagicWatermark{
  setup = {
    pages = {even},
    style = {opacity = 0.3},

```

```

    content = {
        \includegraphics{example-image-a}
    }
},
setup = {
    pages = {odd},
    style = {opacity = .3, rotate=45, text width = 3\paperwidth},
    content = {
        \foreach \x in {0, ..., 20}{
            \foreach \y in {1, 2, 3} {
                \includegraphics{example-image-b}
            } \\
        }
    }
}
}

```

Disable tikz

```

\def\addhead#1#2{%
    \expandafter\gdef\csname head@content@#1\endcsname{#2}%
}

\def\printhead#1{%
    \csname head@content@#1\endcsname%
}

\addhead{2}{The only way to do great work is to love what you do.}
\addhead{3}{Success is not final, failure is not fatal: It is the courage to
    continue that counts.}
\addhead{4}{In the end, we will remember not the words of our enemies, but the
    silence of our friends.}
\addhead{5}{It does not matter how slowly you go as long as you do not stop.}

\NewDocumentCommand{\mywatermark}{}{\%
    \begin{tikzpicture}[remember picture, overlay]
        \node[yshift = -\headheight - \headsep, text = teal, font = \large] at
            (current page.north) {\printhead{\thepage}};
    \end{tikzpicture}
}

```

```
}  
  
\MagicWatermark{  
  setup = {  
    pages = {2-5},  
    tikz = false,  
    content = \mywatermark  
  }  
}
```