The `magicwatermark`[1] package

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V1.2B

```
\MagicWatermark{
    setup = {
        pages = {*},
        content = {P-\thepage},
        style = {shift = {(.5\textwidth, .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 Jérémy 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
| ```
pages = {*}              =>      1, 2, 3, ..., 24
pages = {odd}            =>      1, 3, 5, ..., 23
pages = {1, 3, 5-10}     =>      1, 3, 5, 6, 7, ..., 10
pages = {1-5, 8, 20-ii}  =>      1, 2, ..., 5, 8, 20, 21, ..., 23
pages = {3X + 1}         =>      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 avantage 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 = 0pt, outer sep = 0pt, 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 = {(.5\textwidth, .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
  }
}
```