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                                                                                          magicwatermark 宏包<sup>1</sup>
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V1.2°
Nagic Waters
                                                                  content = \{P-\land thepage\},
                                                                  style = {shift = {(.5\textwidth, .5\textheight + \headheight +
                                                     \headsep)}, scale = 3, text = cyan, font = \ttfamily}
                                                      setup = {
                                                            pages = {even},
                                                            style = {scale = 5, text = pink},
Magic Wate
                                                            content = {Watermark},
                                                            is append
                                                     },
                                                      setup = {
                                                            pages = \{1\},
Matermant
                                                            style = {text width = 1.7\paperwidth, rotate = 45, align = left, font =
                                                     \Large, opacity = .1},
                                                                                                                                                                                                  Nage waterinary Waternary Waternary
                                                            content = {
                                                                        \foreach \x in {0, ..., 500} {Magic Watermark }
                                                            },
                                                            is append
                                                     }
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                                                                                                                                                                  ABIL WALLING IN Makic Watermank Makic
                                          1 https://github.com/ljguo1020/magicwatermark
```

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# 1 介绍

magicwatermark 是一个全新的水印宏包, 在 2022 年 6 月 17 日发布了第一版, 本次更新并不是基于第一版, 而是进行了重构.

magicwatermark 基于 tikz 和 expl3, 可以灵活的设置背景或水印.

# 2 使用

magicwatermark 的使用,相比于其它同类功能的包来说,可以说是易用性最高的,它只提供了一个命令\MagicWatermark,命令参数由多个 setup 规则组成.

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

setup 内部接受四个键值选项,用于配置水印的表现形式.

## 2.1 pages

pages 接受一个逗号分割列表,用于配置水印作用范围,例如 pages = {2, 4, 5, 8-10},表示选中页码为第 2, 4, 5, 8, 9, 10 这些页面.

pages 共接受 4 种配置规则,

- \*,表示所有页面;
- odd 和 oven, 表示奇偶页;
- 范围, 形如 3-5, 12-ii;
- 表达式, 形如 2X+1, 2X<sup>2</sup>+X+1, 但是变量必须为 X.

这里假定页面总页数为24页,

```
      pages 配置规则

      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 用于设置是否将水印内容放置在 tikz 的 node 中, 见下文, 可选值为 true 和 false, 默认为 true. 当你需要使用 tikz 时, 需要手动加载 tikz 宏包.

#### 2.3 content

content 用来设置水印的内容, 当 tikz 被启用时, 它被放在了 tikz 的 node 中, 为此, 想要灵活的设置它, 您需要对 node 有一些了解.

## 2.4 style

style 用于设置容纳水印内容的 node 的样式,默认为 inner sep = 0pt, outer sep = 0pt, opacity = .5, align = left, 当 tikz 被禁用时,它会被忽略.

## 2.5 is append

is append 用于设置是否覆盖当前页已有的水印,可选值为 true 和 false,默认为 false.

# 3 使用案例

```
为所有页面右上角添加页码

% \usepackage{tikz}
\MagicWatermark{
setup = {
    pages = {*},
    content = {P-\thepage},
    style = {shift = {(.5\textwidth, .5\textheight + \headheight + \headsep)},
    scale = 3, text = cyan, font = \ttfamily}
}
```

## 为偶数页页面中心添加文字 Watermark

```
% \usepackage{tikz}

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

## 为第二页到最后一页设置铺满整个页面的文字

```
% \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
}
```

### 为奇偶页设置不同水印

```
% \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
      }
   }
 }
}
```

## 设置图片为水印

```
% \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}
        } \\
      }
}
```

### 禁用 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
}
```