magicwatermark 宏包[1]

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V1.2

```
\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
    }
}
```

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[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^2+X+1, 但是变量必须为 X.

这里假定页面总页数为 24 页,

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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　content

content 用来设置水印的内容, 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.

2.3　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.

2.4　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.

3　使用案例

为所有页面右上角添加页码

```
\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

```
\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

```
\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
  }
}
```