LaTeX Class `huawei`*

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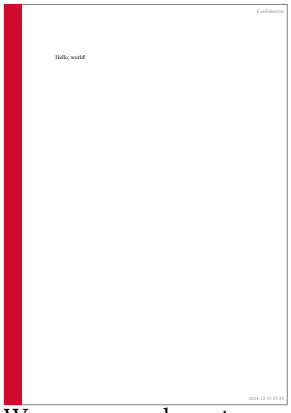
2024-12-17, 0.19.1

1 Introduction

The provided class `huawei` helps you design your work documents and presentations keeping the code short and the style elegant enough both for management and technical papers. To use the class you simply mention its name in the preamble:




```
\documentclass{huawei}
\begin{document}
Hello, world!
\end{document}
```

We recommend you to use `latexmk` to compile your `.tex` files to `.pdf`. The simplest setup will require a few files staying next to your `.tex` file, in the same directory ("story" is the name of your project here):

```
story\
  .latexmkrc
  .gitignore
  story.tex
```

The content of your `.latexmkrc` file would be this:

```
$pdflatex = 'pdflatex %O --shell-escape %S';
```

Make sure the `.gitignore` file lists all the files generated by `pdflatex` during the compilation. You don't need to commit them to your repository, since they are temporary and will be generated again when you compile your document. In order to compile the document, just say `latexmk` on the command line.

*The sources are in GitHub at yegor256/huawei.cls

2 Class Options

There are a few class options, provided in square brackets after the `\documentclass`, which can help you fine-tune the layout of your document:

`landscape` The option `landscape` makes the document in landscape format, also changing the size of the paper to 16x9 inches (the default page size is A4), making it perfect for presentations.

`dark` The option `dark` turns on a dark layout, where the page color is black and the text is white.

`slides` The option `slides` makes all headers a bit larger, assuming that the document is in the landscape mode and being presented as a slide deck.

`nocover` The option `nocover`, if it's present, avoids printing the cover images on the first page by the `\PrintTitlePage` command.

`anonymous` The `anonymous` removes the name of the author everywhere, including the bottom of the page, where the author's name stays next to the name of the company.

`nobrand` The option `nobrand` avoids mentioning the brand of Huawei anywhere in the document and removes the logo too.

`nosecurity` The option `nosecurity` avoids mentioning the level of security at the right top corner of the document and also avoids showing the ID of the author where it usually is visible.

`nodate` The option `nodate` doesn't show the date and time at the bottom of each page, where they usually are rendered in ISO 8601 format.

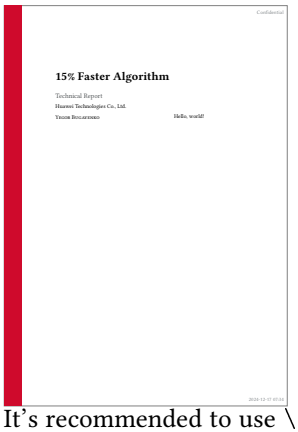
`nopaging` The option `nopaging` avoids page numbers at the bottom of each page.

`authordraft` The option `authordraft` prints a big "It's a draft" message across each page.

`breaks` The option `breaks` forces all `\section` to start from a new page.

3 Preamble

In the preamble you can specify meta information about the document, such as its title or author's name, here is how:




```
\documentclass{huawei}
\renewcommand*
  \thetitle{15\% Faster Algorithm}
\renewcommand*
  \thesubtitle{Technical Report}
\renewcommand*
  \theauthor{Yegor Bugayenko}
\begin{document}
\maketitle
Hello, world!
\end{document}
```

It's recommended to use `\renewcommand*` instead of `\renewcommand` in order to let LaTeX catch you if by mistake a new line gets into the content.

The following meta commands are defined:

`\thetitle` `\thetitle` is the main title of the document to be used in the text and in the properties of the PDF document.

`\thesubtitle` `\thesubtitle` is the subtitle to be printed under the title.

\theauthor `\theauthor` is the author of the document in “first-name last-name” format.

\theid `\theid` is the internal ID of the author, if it’s applicable.

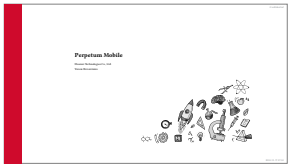
\thesecurity It is the level of security of the document, which is usually printed at the top right corner of it; usual values are “Internal,” ”Confidential,” or “Secret.”

Default values of all these commands are empty. If you don’t renew them in your document, nothing will be printed.

4 Custom Commands

Inside the document body you can use these commands:

\PrintFirstPage It is recommended to use `\PrintFirstPage` for rendering the first page in landscape document, for example a project charter. The only argument of the commmand is the name of an image to render at the right bottom corner. You can omit the name and just call the command with an empty argument. In this case the default image will be rendered, a pretty good looking one:




```
\documentclass[landscape]{huawei}
\renewcommand*
  \thetitle{Perpetum Mobile}
\renewcommand*
  \theauthor{Yegor Bugayenko}
\begin{document}
\PrintFirstPage{}
\end{document}
```

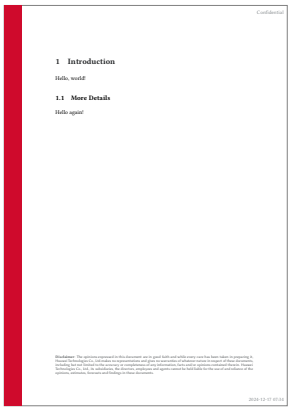
\PrintLastPage `\PrintLastPage` prints the last page of a project charter or a similar landscape document:

```
\documentclass[landscape]{huawei}
\begin{document}
\PrintLastPage{}
\end{document}
```

\PrintThankYouPage `\PrintThankYouPage` prints the last page with a "Thank You" message in the center.

```
\documentclass[landscape,dark]{huawei}
\begin{document}
\PrintThankYouPage{}
\end{document}
```

\PrintDisclaimer `\PrintDisclaimer` prints a paragraph at the bottom of the page with a standard disclaimer:




```
\documentclass{huawei}
\begin{document}
\section{Introduction}
Hello, world!
\subsection{More Details}
Hello again!
\PrintDisclaimer
\end{document}
```

5 Best Practices

You are free to design your documents any way you want. However, it would be convenient for yourself and for your readers, if you follow the convention we have for business and technical documents.

The rule of thumb is simple: try *not* to format your documents. Instead, let the class designed by us do this work for you. Just type the content without changing the layout, adding colors, changing fonts, etc. The less you modify the look-and-feel, the better your documents will be perceived by your readers.

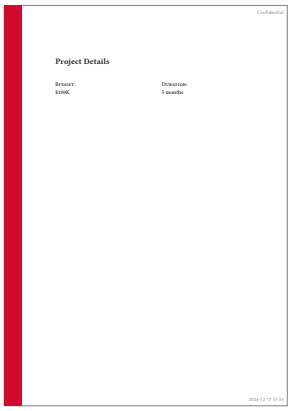
5.1 Two Columns

In the landscape format it's recommended to use two columns, for better readability of the text. Here is how:

```
\documentclass[landscape]{huawei}
\begin{document}
\newpage
\begin{multicols}{2}
\section*{First}
Here goes the first column content.
\columnbreak
\section*{Second}
Here goes the second column content.
\end{multicols}
\end{document}
```

5.2 Crumbs

When you need to put many small information pieces into one page, we recommend you to use "crumbs":




```
\documentclass{huawei}
\begin{document}
\newpage
\section*{Project Details}
\begin{multicols}{2}
\raggedright
\PrintCrumb{Budget}{\$100K}
\PrintCrumb{Duration}{5 months}
\end{multicols}
\end{document}
```

6 Implementation

First, we load the parent class:

```
\LoadClass[12pt]{article}
```

Then, we parse class options:

```
\RequirePackage{pgfopts}
\pgfkeys{
  /huawei/.cd,
  boring/.store in=\huawei@boring,
  breaks/.store in=\huawei@breaks,
  slides/.store in=\huawei@slides,
  nosecurity/.store in=\huawei@nosecurity,
  authordraft/.store in=\huawei@authordraft,
  nobrand/.store in=\huawei@nobrand,
  nodate/.store in=\huawei@nodate,
  nocover/.store in=\huawei@nocover,
  nopaging/.store in=\huawei@nopaging,
  landscape/.store in=\huawei@landscape,
  anonymous/.store in=\huawei@anonymous,
}
\ProcessPgfPackageOptions{/huawei}
```

Then, we set Helvetica as the default font for the entire document, if the `boring` document option is used:

```
\ifdefined\huawei@boring
  \usepackage[scaled]{helvet}
  \renewcommand\familydefault{\sfdefault}
\fi
```

Then, we redefine `\section` command in order to break pages for each section, with the help of `titlesec` package:

```
\RequirePackage{titlesec}
\ifdefined\huawei@boring
  \def\huawei@sectioncolor{red}
\else
  \def\huawei@sectioncolor{black}
\fi
\makeatletter
```

```
\titleformat
  {\section}
  {\color{\huawei@sectioncolor}\ifdefined\huawei@breaks\clearpage\fi\normalfont\Large\bfseries
  {\color{\huawei@sectioncolor}\thesection}{1em}{}
\makeatother
```

Then, we set the size of the page:

```
\RequirePackage{geometry}
\makeatletter\ifdefined\huawei@landscape
  \ifdefined\huawei@boring
    \geometry{paperwidth=16in, paperheight=9in,
      left=3in, right=2.5in, top=1in, bottom=1.8in}
  \else
    \geometry{paperwidth=16in, paperheight=9in,
      left=4in, right=2in, top=1.5in, bottom=1.5in}
  \fi
\else
  \geometry{a4paper, left=1.5in, right=1in,
    top=1.2in, bottom=1.2in}
\fi\makeatother
```

Then, we set the size of the font:

```
\makeatletter\ifdefined\huawei@slides
  \usepackage[fontsize=24pt]{fontsize}
\fi\makeatother
```

Then, we configure the encodings:

```
\RequirePackage[T1]{fontenc}
\RequirePackage[utf8]{inputenc}
```

Then, we include a few important packages:

```
\RequirePackage{tabularx}
\RequirePackage{anyfontsize}
\RequirePackage{multicol}
\RequirePackage{ragged2e}
\RequirePackage{multicol}
\RequirePackage{paralist}
\RequirePackage{makecell}
\RequirePackage{graphicx}
\RequirePackage{array}
\RequirePackage[abspath]{currfile}
\RequirePackage{wrapfig}
\RequirePackage{tikz}
\RequirePackage{tabularx}
\RequirePackage{titling}
\RequirePackage{svg}
```

Then, we include `lastpage` package to enable total counting of pages:

```
\RequirePackage{lastpage}
```

Then, we configure `libertine` font:

```
\PassOptionsToPackage{tt=false,type1=true}{libertine}
\RequirePackage{libertine}
```

Then, we configure `microtype`:

```
\RequirePackage{microtype}
\AddToHook{env/verbatim/begin}{\microtypesetup{protrusion=false}}
```

Then, we configure `footmisc`:

```
\PassOptionsToPackage{para}{footmisc}
\RequirePackage{footmisc}
\setlength{\footnotemargin}{2pt}
\setlength{\footnotesep}{2pt}
```

Then, we configure `enumitem`:

```
\RequirePackage[inline]{enumitem}
\setlist{nosep}
```

Then, we configure `textpos`:

```
\RequirePackage[absolute]{textpos}
\TPGrid{16}{16}
```

Then, we configure `datetime`:

```
\PassOptionsToPackage{mmddyyyy,iso}{datetime}
\RequirePackage{datetime}
\newtimeformat{daytime}{\twodigit{\THEHOUR}:\twodigit{\THEMINUTE}}
```

Then, to enable `\pageref*` command, we configure `hyperref`:

```
\PassOptionsToPackage{hidelinks}{hyperref}
\RequirePackage{hyperref}
```

Then, we configure `biblatex`:

```
\RequirePackage[maxnames=1,minnames=1,natbib=true,
  citestyle=numeric,bibstyle=numeric,
  url=false,isbn=false,isbn=false]{biblatex}
```

Then, we make figure captions smaller and in `sf` font:

```
\PassOptionsToPackage{font={small,sf}}{caption}
\RequirePackage{caption}
```

Then, we make all figures and tables bordered by default, with the help of the `float` package:

```
\RequirePackage{float}
\floatstyle{boxed}
\restylefloat{table}
\restylefloat{figure}
```

Then, we make sure all figures and tables are centered by default, as recommended here:

```
\makeatletter
\g@addto@macro\@floatboxreset\centering
\makeatother
```

Then, we set spacing between lines:

```
\RequirePackage{setspace}
\setstretch{1.08}
```

Then, we define branded colors:

```
\PassOptionsToPackage{table}{xcolor}
\RequirePackage{xcolor}
\makeatletter
\ifdefined\huawei@boring
  \definecolor{red}{HTML}{8C1A11}
  \definecolor{black}{HTML}{000000}
  \definecolor{gray}{HTML}{878C8F}
```

```
  \definecolor{lightgray}{HTML}{DCDDDF}
  \definecolor{yellow}{HTML}{F6C342}
  \definecolor{blue}{HTML}{2B62BA}
  \definecolor{green}{HTML}{499167}
  \definecolor{orange}{HTML}{F7CEA1}
\else
  \definecolor{red}{HTML}{CF0A2C}
  \definecolor{black}{HTML}{232527}
  \definecolor{gray}{HTML}{878C8F}
  \definecolor{lightgray}{HTML}{DCDDDF}
  \definecolor{yellow}{HTML}{F2DC5D}
  \definecolor{blue}{HTML}{2274A5}
  \definecolor{green}{HTML}{499167}
  \definecolor{orange}{HTML}{F06543}
\fi
\makeatother
```

`\huawei@header` Then, we define `\huawei@header`:

```
\makeatletter\newcommand\huawei@header[1]{{%
  \ifdefined\huawei@slides%
    \setstretch{0.8}%
    \fontsize{19pt}{24pt}\selectfont%
  \else%
    \setstretch{0.8}%
    \fontsize{11pt}{13pt}\selectfont%
  \fi%
  \sffamily\color{gray}#1\par%
}}\makeatother
```

`\huawei@bar` Then, we define `\huawei@bar`:

```
\makeatletter\newcommand\huawei@bar{%
  \ifdefined\huawei@boring%
    \begin{textblock}{16}[0,1](0,16)%
      \tikz \node[fill=lightgray,minimum width=16\TPHorizModule,
        minimum height=1.5\TPVertModule] {};%
    \end{textblock}%
    \begin{textblock}{8}[1,0.5](15,15.25)%
      \raggedleft\huawei@logo{1.4}
    \end{textblock}%
    \ifdefined\huawei@nobrand\else%
      \begin{textblock}{8}[0,0.5](1,15.25)%
        \fontsize{16}{16}\selectfont%
        \textcolor{gray}{\thecompany{}}%
      \end{textblock}%
    \fi%
    \ifdefined\huawei@nosecurity\else%
      \begin{textblock}{8}[0.5,0.5](7,15.25)%
        \fontsize{16}{16}\selectfont%
        \centering\textcolor{gray}{\thesecurity}%
      \end{textblock}%
    \fi%
    \ifdefined\huawei@nopaging\else%
      \begin{textblock}{8}[1,0.5](12,15.25)%
        \raggedleft\fontsize{16}{16}\selectfont%
```

```
        \textcolor{gray}{Page \#\thepage{} of \pageref*{LastPage}}%
      \end{textblock}%
    \fi%
    \begin{textblock}{2}[1,0.5](14,15.25)%
      \tikz \path[scale=0.3, draw=none, rotate=40, fill=white] (0,0) .. controls (3,1) .. (16
    \end{textblock}%
  \else%
    \begin{textblock}{1}[0,0](0,0)%
      \tikz \node[fill=red,minimum width=\TPHorizModule,
        minimum height=16\TPVertModule] {};%
    \end{textblock}%
  \fi%
}\makeatother
```

\huawei@logo Then, we define \huawei@logo:

```
\makeatletter\newcommand\huawei@logo[1]{
\def\BLACK{\ifdefined\huawei@dark white\else black\fi}
\def\BLANK{\ifdefined\huawei@dark black\else white\fi}
\definecolor{logo-red}{HTML}{CF0A2C}
\begin{tikzpicture}[y=0.80pt, x=0.80pt, yscale=-#1,
xscale=#1, inner sep=0pt, outer sep=0pt]
\begin{scope}[even odd rule,line width=0.800pt]
\begin{scope}[shift={(0,-0.00024)}]
\path[fill=\BLACK] (10.9375,30.2240) -- (10.9375,33.6097)
.. controls (10.9375,34.5713) and (10.4603,35.0845) ..
   (9.5932,35.0845) .. controls (8.7212,35.0845) and
   (8.2411,34.5565)
.. (8.2411,33.5686) -- (8.2411,30.2278) -- (7.0415,30.2278)
-- (7.0415,33.6097) .. controls (7.0415,35.2737) and
   (7.9658,36.2272) .. (9.5774,36.2272) .. controls
   (11.2041,36.2272) and (12.1371,35.2554) .. (12.1371,33.5609) --
   (12.1371,30.2240)
-- (10.9375,30.2240) -- cycle;
\path[fill=\BLACK] (15.3511,30.2240) -- (12.7456,36.1351) --
 (13.9702,36.1351) -- (14.4731,34.9903) -- (14.5091,34.9045) --
 (17.2158,34.9045) -- (17.7467,36.1351) -- (19.0045,36.1351) --
 (16.4233,30.2590) -- (16.4001,30.2240) -- cycle;
\path[fill=\BLACK] (22.4840,30.2240) -- (21.1414,34.2912) --
 (19.8344,30.2271) -- (18.5578,30.2271) -- (20.6186,36.1388) --
 (21.6120,36.1388) -- (22.9573,32.2553) -- (24.3016,36.1388) --
 (25.3034,36.1388) -- (27.3592,30.2271) -- (26.1152,30.2271) --
 (24.8055,34.2912) -- (23.4626,30.2240) -- cycle;
\path[fill=\BLACK] (34.2236,30.2240) -- (34.2236,36.1300) --
 (35.4074,36.1300) -- (35.4074,30.2240) -- cycle;
\path[fill=\BLACK] (0.2686,30.2244) -- (0.2686,36.1384) --
 (1.4686,36.1384) -- (1.4686,33.7365) -- (4.1780,33.7365) --
 (4.1780,36.1384) -- (5.3783,36.1384) -- (5.3783,30.2244) --
 (4.1780,30.2244) -- (4.1780,32.6102) -- (1.4686,32.6102) --
 (1.4686,30.2244) -- cycle;
\path[fill=\BLACK] (28.3267,30.2284) -- (28.3267,36.1344) --
 (32.7928,36.1344) -- (32.7928,35.0575) -- (29.5105,35.0575) --
 (29.5105,33.5931) -- (31.6931,33.5931) -- (31.6931,32.5160) --
 (29.5105,32.5160) -- (29.5105,31.3052) -- (32.6785,31.3052) --
 (32.6785,30.2284) -- cycle;
```

```
\path[fill=\BLANK] (15.8594,31.7207) -- (16.7149,33.7008) --
 (16.7119,33.7008) -- (16.7701,33.8374) -- (14.9552,33.8374) --
 (15.0127,33.7008) -- (15.0117,33.7008) -- cycle;
\path[fill=logo-red] (15.2113,0.0001) .. controls (14.7353,0.0422) and
 (13.4491,0.3349) .. (13.4491,0.3349) -- (13.4486,0.3349) .. controls
 (10.5495,1.0843) and (9.8643,3.7151) .. (9.8643,3.7151) .. controls
 (9.7227,4.1575) and (9.6584,4.6109) .. (9.6395,5.0380) --
 (9.6395,5.6194) .. controls (9.6780,6.5176) and (9.8777,7.1883) ..
 (9.8777,7.1883) .. controls (10.8461,11.4823) and
 (15.6075,18.5379) ..(16.6308,20.0200) .. controls
 (16.7034,20.0920) and(16.7615,20.0660) ..
 (16.7615,20.0660) .. controls(16.8720,20.0355) and
 (16.8633,19.9296) .. (16.8633,19.9296) --
 (16.8654,19.9301) .. controls (18.4416,4.1760) and
 (15.2113,0.0001) .. (15.2113,0.0001) -- (15.2113,0.0001) -- cycle;
\path[fill=logo-red] (20.4192,0.0000) .. controls (20.4192,0.0000) and
 (17.1748,4.1782) .. (18.7521,19.9415) --
 (18.7542,19.9415) .. controls (18.7664,20.0416) and
 (18.8374,20.0624) ..(18.8374,20.0624) .. controls
 (18.9430,20.1033) and(18.9971,20.0019) .. (18.9971,20.0019) --
 (18.9976,20.0029) .. controls (20.0472,18.4829) and
 (24.7814,11.4657) ..(25.7455,7.1882) .. controls(25.7455,7.1882) and
 (26.2683,5.1179) .. (25.7636,3.7150) .. controls
 (25.7636,3.7150) and (25.0470,1.0434) ..(22.1442,0.3375) .. controls
 (22.1442,0.3375) and (21.3077,0.1251) .. (20.4193,0.0000) --
 (20.4192,0.0000) -- cycle;
\path[fill=logo-red] (5.4542,4.7294) .. controls (5.4542,4.7294) and
 (2.6920,7.3513) .. (2.5547,10.1307) -- (2.5558,10.1307) --
 (2.5558,10.5519) .. controls (2.5579,10.5836) and
 (2.5595,10.6157) .. (2.5615,10.6480) .. controls
 (2.6804,12.8893) and (4.3665,14.2157) ..
 (4.3665,14.2157) .. controls (7.0831,16.8634) and
 (13.6611,20.2062) .. (15.1896,20.9647) .. controls
 (15.2110,20.9727) and (15.2900,20.9985) ..
 (15.3364,20.9399) .. controls (15.3364,20.9399) and
 (15.3605,20.9216) .. (15.3715,20.8887) --
 (15.3715,20.8189) .. controls (15.3704,20.8149) and
 (15.3683,20.8109) .. (15.3663,20.8065) --
 (15.3669,20.8065) .. controls (11.1809,11.6620) and
 (5.4543,4.7294) .. (5.4543,4.7294) -- (5.4542,4.7294) -- cycle;
\path[fill=logo-red] (30.1695,4.7294) .. controls (30.1695,4.7294) and
 (24.4602,11.6403) .. (20.2761,20.7662) --
 (20.2777,20.7657) .. controls (20.2777,20.7657) and
 (20.2283,20.8715) .. (20.3082,20.9399) .. controls
 (20.3082,20.9399) and (20.3320,20.9579) .. (20.3650,20.9652) --
 (20.4229,20.9652) .. controls (20.4333,20.9622) and
 (20.4444,20.9582) .. (20.4554,20.9507) --
 (20.4554,20.9517) .. controls (22.0255,20.1724) and
 (28.5525,16.8516) .. (31.2563,14.2162) .. controls
 (31.2563,14.2162) and (32.9686,12.8412) ..
 (33.0583,10.6334) .. controls (33.2560,7.5672) and
 (30.1696,4.7294) .. (30.1696,4.7294) -- (30.1695,4.7294) -- cycle;
\path[fill=logo-red] (35.3082,13.8080) .. controls (35.3082,13.8080) and
 (26.0003,18.8031) .. (21.1876,22.0494) -- (21.1882,22.0499) --
```

```
(21.1893,22.0509) .. controls (21.1893,22.0509) and
(21.1019,22.1081) .. (21.1324,22.2106) .. controls
(21.1324,22.2106) and (21.1781,22.2933) .. (21.2446,22.2933) --
(21.2446,22.2938) .. controls (22.9684,22.2968) and
(29.4914,22.3041) .. (29.6549,22.2736) .. controls
(29.6549,22.2736) and (30.4983,22.2399) ..
(31.5406,21.8395) .. controls (31.5406,21.8395) and
(33.8608,21.1019) .. (35.0659,18.4677) .. controls
(35.0659,18.4677) and (35.6166,17.3662) .. (35.6246,15.8187) --
(35.6246,15.7531) .. controls (35.6206,15.1563) and
(35.5365,14.4957) .. (35.3083,13.8080) --
(35.3082,13.8080) -- cycle;
\path[fill=logo-red] (0.3129,13.8313) .. controls (-0.5339,16.4531) and
(0.6062,18.5656) .. (0.6080,18.5690) .. controls
(1.7962,21.0795) and (4.0641,21.8401) ..
(4.0641,21.8401) .. controls (5.1112,22.2703) and
(6.1586,22.3000) .. (6.1586,22.3000) .. controls
(6.3221,22.3300) and (12.6713,22.3030) ..
(14.3725,22.2950) .. controls (14.4445,22.2945) and
(14.4842,22.2221) .. (14.4842,22.2221) .. controls
(14.4892,22.2142) and (14.4936,22.2062) .. (14.4955,22.1989) --
(14.4955,22.1333) .. controls (14.4814,22.0893) and
(14.4439,22.0584) .. (14.4439,22.0584) --
(14.4450,22.0578) .. controls (9.6347,18.8126) and
(0.3130,13.8315) .. (0.3130,13.8315) -- (0.3129,13.8313) -- cycle;
\path[fill=logo-red] (14.1782,23.1010) -- (3.2285,23.4850) .. controls
(4.4160,25.6018) and (6.4158,27.2469) ..
(8.4990,26.7416) .. controls (9.9366,26.3822) and
(13.1935,24.1105) .. (14.2687,23.3429) --
(14.2651,23.3399) .. controls (14.3487,23.2648) and
(14.3188,23.2045) .. (14.3188,23.2045) .. controls
(14.2913,23.1062) and (14.1783,23.1063) .. (14.1783,23.1063) --
(14.1782,23.1010) -- cycle;
\path[fill=logo-red] (21.4305,23.1090) -- (21.4294,23.1130) .. controls
(21.4294,23.1130) and (21.3333,23.1252) ..
(21.3064,23.1972) .. controls (21.3064,23.1972) and
(21.2831,23.2956) .. (21.3478,23.3445) --
(21.3467,23.3455) .. controls (22.3950,24.0973) and
(25.5729,26.3191) .. (27.1039,26.7505) .. controls
(27.1039,26.7505) and (27.3359,26.8294) .. (27.7246,26.8435) --
(27.9581,26.8435) .. controls (28.9839,26.8075) and
(30.7708,26.2805) .. (32.3946,23.4907) --
(21.4305,23.1090) -- cycle;
\end{scope}%
\end{scope}%
\end{tikzpicture}%
}\makeatother
```

Then, we configure headers using `fancyhdr`:

```
\RequirePackage{fancyhdr}
\pagestyle{fancy}
\renewcommand{\headrulewidth}{0pt}
\fancyhf{}
\makeatletter\fancyfoot[L]{
```

```
  \huawei@bar
  \ifdefined\huawei@authordraft%
    \begin{textblock}{14}[0.5,0.5](8,8)%
      \tikz \node[minimum width=14\TPHorizModule] {%
        \fontsize{64}{64}\selectfont\sffamily\scshape%
        \color{gray!20}\rotatebox{30}{it is a draft}%
      };%
    \end{textblock}%
  \else\fi%
}\makeatother
\makeatletter\fancyhead[L]{
  \ifnum\value{page}=1\else%
    \ifdefined\huawei@nobrand\else%
      \ifdefined\huawei@boring\else%
        \begin{textblock}{8}[0,0](1.2,0.2)%
          \huawei@logo{\ifdefined\huawei@slides 1.8\else 1\fi}%
        \end{textblock}%
      \fi
    \fi%
  \fi%
}\makeatother
\makeatletter\fancyhead[R]{
  \ifdefined\huawei@boring\else%
    \begin{textblock}{8}[1,0](15.8,0.2)%
      \raggedleft\huawei@header{%
        \ifdefined\huawei@nosecurity\else%
          \thesecurity%
        \fi%
      }%
    \end{textblock}%
  \fi%
}\makeatother
\makeatletter\fancyfoot[R]{
  \ifdefined\huawei@boring\else%
    \begin{textblock}{8}[0,1](1.2,15.8)%
      \ifnum\value{page}=1\else%
        \huawei@header{\raggedright%
          \ifdefined\huawei@anonymous\else%
            \theauthor%
            \ifdefined\huawei@nosecurity\else%
              \ifx\theid\empty\else, \theid\fi%
            \fi%
            \ifdefined\huawei@nobrand\else%
              \newline
            \fi%
          \fi%
          \ifdefined\huawei@nobrand\else%
            \thecompany{}%
          \fi%
        }%
      \fi%
    \end{textblock}%
    \begin{textblock}{8}[1,1](15.8,15.8)%
      \raggedleft\huawei@header{%
```

```
        \ifnum\value{page}=1\else%
          \ifdefined\huawei@nopaging\else%
            Page \#\thepage{} of \pageref*{LastPage}%
            \ifdefined\huawei@nodate\else%
              \\
            \fi%
          \fi%
        \fi%
        \ifdefined\huawei@nodate\else%
          \today{} \settimeformat{daytime}\currenttime{}%
        \fi%
      }%
    \end{textblock}%
  \fi%
}\makeatother
```

`abstract` Then, we redefine `abstract` environment:

```
\RequirePackage{changepage}
\renewenvironment{abstract}
  {\begin{adjustwidth}{0pt}{1in}{\scshape Abstract:}\newline\small}
  {\end{adjustwidth}}
```

`\maketitle` Then, we redefine `\maketitle`:

```
\makeatletter\renewcommand\maketitle{%
  \vspace*{18pt}%
  {%
    \bfseries{\begin{spacing}{.9}\Huge\raggedright%
    \ifdefined\huawei@boring%
      \color{red}%
    \fi%
    \thetitle\par\end{spacing}}%
  }%
  \ifx\thesubtitle\empty\else%
    {\color{gray!50!black}\large\raggedright\thesubtitle\par}%
  \fi%
  \ifdefined\huawei@nobrand\else%
    \ifdefined\huawei@anonymous\else%
      \ifx\thecompany\empty\else%
        \thecompany\par%
      \fi%
    \fi%
  \fi%
  \parbox{.6\textwidth}{\raggedright%
    \ifx\theauthor\empty\else%
      {\scshape\ifdefined\huawei@anonymous%
        Anonymous Authors%
      \else%
        \theauthor%
      \fi}%
    \fi%
    \ifdefined\huawei@anonymous\else%
      \ifx\theauthor\empty\else%
        \ifdefined\huawei@nobrand\else%
          \ifx\theid\empty\else%
```

```
            $\;$/ {\theid}%
          \fi%
        \fi%
      \fi%
    \fi%
    \par%
  }%
  \vspace{2em}%
}\makeatother
```

`\PrintCrumb` Then, we define `\PrintCrumb`:

```
\newcommand\PrintCrumb[2]{%
  \begin{minipage}{\columnwidth}%
    \raggedright\textsc{#1}:\\#2%
  \end{minipage}\vspace{1em}%
}
```

`\PrintThankYouPage` Then, we define `\PrintThankYouPage`:

```
\newcommand\PrintThankYouPage{
  \newpage
  \vspace*{\fill}
  \begin{center}
    \normalsize
    {\Huge\color{red}\textbf{Thank you!}}
  \end{center}
  \vspace*{\fill}
}
```

`\PrintDisclaimer` Then, we define `\PrintDisclaimer`:

```
\makeatletter\newcommand\PrintDisclaimer{%
  \justify\vspace*{\fill}%
  \begingroup%
  \setstretch{0.55}%
  \sffamily\scriptsize\color{gray!50!black}%
  \textbf{Disclaimer}: The opinions expressed in
  this document are in good faith and
  while every care has been taken in preparing it,
  \ifdefined\huawei@nobrand%
    the author%
  \else%
    \thecompany{}%
  \fi
  makes no representations and gives no warranties
  of whatever nature in respect of these documents,
  including but not limited to the accuracy or completeness
  of any information, facts and/or opinions contained therein.
  \ifdefined\huawei@nobrand%
    The author%
  \else%
    \thecompany{}%
  \fi,
  its subsidiaries, the directors, employees and agents
  cannot be held liable for the use of and reliance of
  the opinions, estimates, forecasts and findings in
```

```
  these documents.
  \par%
  \endgroup%
}\makeatother
```

\PrintFirstPage Then, we define \PrintFirstPage:

```
\makeatletter\newcommand\PrintFirstPage[1]{%
  \ifdefined\huawei@landscape\else%
    \PackageError{huawei}{It's allowed to use
    PrintFirstPage only in landscape mode}{Read huawei.pdf
    for more information}
  \fi%
  \huawei@bar%
  \def\param{#1}%
  \ifx\param\empty\else%
    \includegraphics[height=2in]{#1}%
    \newline%
  \fi%
  \vspace*{0.5in}%
  \maketitle%
  \ifdefined\huawei@nocover\else%
    \begin{textblock}{14}[1,1](14,14)%
      \raggedleft\includegraphics[height=3.6in]{huawei-cover-picture.pdf}%
    \end{textblock}%
  \fi%
}\makeatother
```

\PrintLastPage Then, we define \PrintLastPage:

```
\makeatletter\newcommand\PrintLastPage{%
  \ifdefined\huawei@landscape\else%
    \PackageError{huawei}{It's allowed to use
    PrintLastPage only in landscape mode}{Read huawei.pdf
    for more information}
  \fi%
  \newpage%
  \vspace*{1in}%
  \begin{center}%
    \begin{minipage}{0.8\columnwidth}\raggedright%
      \normalsize%
      \setlength{\parskip}{6pt}%
      {\Huge\color{red}\textbf{Thank you!}}%
      \par%
      \vspace{0.5in}%
      \par%
      Bring digital to every person, home and organization
      \newline%
      for a fully connected, intelligent world.
      \par%
      \textbf{%
        Copyright \copyright{} \the\year{} \thecompany{}
        \newline
        All Rights Reserved.%
      }
      \par%
```

```
      The information in this document may contain predictive
      statements including, without limitation, statements regarding
      the future financial and operating results, future product
      portfolio, new technology, etc. There are a number of factors that
      could cause actual results and developments to differ materially
      from those expressed or implied in the predictive statements.
      Therefore, such information is provided for reference purpose
      only and constitutes neither an offer nor an acceptance.
      \ifdefined\huawei@nobrand%
        The author%
      \else%
        \thecompany{}%
      \fi%
      may change the information at any time without notice.
    \end{minipage}
  \end{center}%
}\makeatother
```

\PrintBibliography Then, we define \PrintBibliography:

```
\makeatletter\newcommand\PrintBibliography{%
  \setlength\bibitemsep{3pt}%
  \AtNextBibliography{\small}%
  \ifdefined\huawei@breaks\newpage\fi%
  \begingroup%
  \raggedright%
  \setstretch{0.95}%
  \ifdefined\huawei@landscape%
    \begin{multicols}{3}\printbibliography\end{multicols}%
  \else%
    \ifdefined\huawei@breaks%
      \begin{multicols}{2}\printbibliography\end{multicols}%
    \else
      \printbibliography%
    \fi%
  \fi%
}\makeatother
```

Then, we set the background color of the document, if required by the dark class option:

```
\makeatletter\ifdefined\huawei@dark%
  \RequirePackage{pagecolor}%
  \pagecolor{black}%
  \color{white}%
\fi
```

Then, we configure the layout:

```
\AtBeginDocument{%
\raggedbottom%
\raggedcolumns%
\setlength\headheight{32pt}%
\setlength\footskip{32pt}%
\setlength\topskip{0mm}%
\setlength\parindent{0pt}%
\setlength\parskip{6pt}%
```

```
\setlength\columnsep{32pt}%
\renewcommand{\arraystretch}{1}%
}
```

Then, we renew a few commands:

```
\renewcommand\title[1]{\renewcommand\thetitle{#1}}
\newcommand\thetitle{\textbackslash{}thetitle}
\newcommand*\thecompany{Huawei Technologies Co., Ltd.}
\newcommand\thesubtitle{}
\renewcommand\author[1]{\renewcommand\theauthor{#1}}
\newcommand\theauthor{\textbackslash{}theauthor}
\newcommand*\thesecurity{Confidential}
\newcommand*\theid{}
\ifcsname nospell\endcsname\else\newcommand\nospell[1]{#1}\fi
```

Change History

v0.1.0
General: The first draft version. 5
v0.10.0
General: Some colors redefined. 5
v0.11.0
General: The fixed-width font is rendered correctly now, without `ffcode`. 5
v0.12.0
General: The `abstract` is now formatted correctly. 5
v0.14.0
General: The `l3build` is now used for build automation, instead of `Makefile`. 5
v0.15.0
General: A new package option `breaks` introduced, which forces all sections to start from a new page. 5
v0.16.0
General: The `doi` tag enabled for `biblatex`. 7
v0.17.0
General: All figures and tables are bordered by default. 7
All figures and tables are centered by default. 7
Smaller and sans-serif font for captions of figures. 7
v0.18.0
General: Now we use `pfgopts` for parsing class options. 5
`\PrintBibliography`: The bibliography prints in one column unless `breaks` class option is specified. 16
v0.19.0
General: New option `boring` added, making the layout of the document more compliant with the expectations of Huawei. 5
v0.3.0
General: The cover picture added for front pages. 5
v0.4.0
General: The current time is rendered without seconds. 5
v0.5.0
General: The `DEPENDS.txt` file added. 5
v0.6.0
General: The `ffcode` and `href-ul` packages created an their code removed from this class. 5
v0.7.0
General: The `authordraft` option is now supported. 5

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