\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.
- **ncover**: The option `ncover`, 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:

```latex
\documentclass{huawei}
\renewcommand*
\thetitle{15\% Faster Algorithm}
\renewcommand*
\thesubtitle{Technical Report}
\renewcommand*
\theauthor{Yegor Bugayenko}
\begin{document}
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.
4 Custom Commands

Inside the document body you can use these commands:

\PrintFirstPage \ PrintFirstPage is recommended to use \PrintFirstPage for rendering the first page in landscape document, for example a project charter. The only argument of the command 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:

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

\PrintThankYouPage \PrintThankYouPage prints the last page with a “Thank You” message in the center.

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

1 \documentclass[landscape]{huawei}
2 \begin{document}
3 \newpage
4 \begin{multicols}{2}
5 \section*{First}
6 Here goes the first column content.
7 \columnbreak
8 \section*{Second}
9 Here goes the second column content.
10 \end{multicols}
11 \end{document}

5.2 Crumbs

When you need to put many small information pieces into one page, we recommend you to use “crumbs”:
6 Implementation

First, we load the parent class:

\LoadClass[12pt]{article}

Then, we parse class options:

\RequirePackage{pgfopt}
\pgfkeys{
  /huawei/.cd,
  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 redefine \section command in order to break pages for each section:

\makeatletter\ifdefined\huawei@breaks
\let\huawei@oldsection\section
\renewcommand\section{\clearpage\huawei@oldsection}
\fi\makeatother

Then, we set the size of the page:

\RequirePackage{geometry}
\makeatletter\ifdefined\huawei@landscape
\let\huawei@oldsection\section
\renewcommand\section{\clearpage\huawei@oldsection}
\fi\makeatother

Then, we set the size of the font:

\geometry{a4paper, left=1.5in, right=1in, top=1.2in, bottom=1.2in}
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{lastpage}
\RequirePackage{tikz}
\RequirePackage{tabularx}
\RequirePackage{titling}
\RequirePackage{svg}

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{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`:

```latex
\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:

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

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

```latex
\RequirePackage{float}
\floatstyle{boxed}
```

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

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

Then, we set spacing between lines:

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

Then, we define branded colors:

```latex
\PassOptionsToPackage{table}{xcolor}
\RequirePackage{xcolor}
\definecolor{red}{HTML}{CF0A2C}
\definecolor{black}{HTML}{232527}
\definecolor{gray}{HTML}{878C8F}
\definecolor{yellow}{HTML}{F2DC5D}
\definecolor{blue}{HTML}{2274A5}
\definecolor{green}{HTML}{499167}
\definecolor{orange}{HTML}{F06543}
```

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

```latex
\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`:

```latex
\makeatletter
newcommand\huawei@bar{% 
  \begin{textblock}{1}[0,0](0,0)% 
    \tikz \node[fill=red, minimum width=\TPHorizModule, minimum height=16\TPVertModule] {};%;% 
  \end{textblock}%
  \makeatother
```

```
Then, we define \texttt{\huawei@logo}:

\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) -- cycle;
\path[fill=\BLACK] (22.4840,30.2240) -- (21.1414,34.2912) -- (20.6120,36.1384) -- (21.6120,36.1384) -- (22.9573,32.2553) -- (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) -- (4.1708,33.7365) -- (4.1708,30.2244) -- cycle;
\path[fill=\BLACK] (15.3511,30.2240) -- (15.3511,30.2240) -- (12.7456,36.1351) -- (12.7456,36.1351) -- cycle;
\path[fill=\BLACK] (15.3511,30.2240) -- (15.3511,30.2240) -- (12.7456,36.1351) -- (12.7456,36.1351) -- cycle;
\path[fill=\BLACK] (22.4840,30.2240) -- (22.4840,30.2240) -- (21.1414,34.2912) -- (21.1414,34.2912) -- cycle;
\path[fill=\BLACK] (34.2236,30.2240) -- (34.2236,30.2240) -- (34.2236,30.2240) -- (34.2236,30.2240) -- cycle;
\path[fill=\BLACK] (34.2236,30.2240) -- (34.2236,30.2240) -- (34.2236,30.2240) -- (34.2236,30.2240) -- cycle;
\path[fill=\BLACK] (34.2236,30.2240) -- (34.2236,30.2240) -- (34.2236,30.2240) -- (34.2236,30.2240) -- cycle;
\end{scope}
\end{tikzpicture}
Then, we configure headers using fancyhdr:

\RequirePackage{fancyhdr}
\pagestyle{fancy}
\renewcommand{\headrulewidth}{0pt}
\fancyhf{}
\makeatletter
\fancyhead[\textbf{\large}]{
\ifnum\value{page}=1
\else
\ifdefined\huawei@nobrand
\else
\begin{textblock}{8}[0,0](1.2,0.2)
\huawei@logo\ifdefined\huawei@slides 1.8\else 1\fi
\end{textblock}
\fi
\fi}
\makeatother
\fancyfoot[\textbf{\large}]{
\textbf{\large}\
\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
\fi}\makeatother

\begin{tikzpicture}
\path[fill=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=red] (21.4305,23.1090) -- (21.4294,23.1130) .. controls (21.4294,23.1130) and (21.4294,23.1130) .. controls
(21.4294,23.1130) and (21.4294,23.1130) .. controls
(21.4294,23.1130) and (21.4294,23.1130) .. controls
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(21.4294,23.1130) and (21.4294,23.1130) .. controls
(21.4294,23.1130) and (21.4294,23.1130) .. controls
(21.4294,23.1130) and (21.4294,23.1130) .. controls
(21.4294,23.1130) and (21.4294,23.1130) \fi}
}
Then, we redefine abstract environment:

abstract

\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\Huge\thetitle\par}
  \ifx\thesubtitle\empty\else%
    {\color{gray!50!black}\large\thesubtitle\par}
  \fi
  \ifndef\huawei@mobrand\else%
    \ifndef\huawei@anonymous\else%
      \ifndef\theauthor\empty\else%
        {\scshape\ifndef\huawei@anonymous\else\Anonymous Authors\else\theauthor\fi\par}
      \else%
        \theauthor\newline
      \fi
    \else%
      \theauthor
    \fi
  \else%
    \ifndef\theauthor\empty\else
      \ifndef\huawei@mobrand\else%
        \ifndef\theid\empty\else
          \;$/ \theid$
        \fi
      \fi
    \fi
  \fi
\vspace{2em}
}\makeatother

\PrintCrumb Then, we define \PrintCrumb:

\newcommand\PrintCrumb[2]{%
  \begin{minipage}{\columnwidth}\aggedright\textsc{#1}:\#2\end{minipage}\vspace{1em}%
}\PrintThankYouPage Then, we define \PrintThankYouPage:

\newcommand\PrintThankYouPage{%
  \begin{center}
    \textsc{\Huge\color{red}\textbf{Thank you!}}
  \end{center}\vspace*{\fill}%
}\PrintDisclaimer Then, we define \PrintDisclaimer:

\makeatletter\newcommand\PrintDisclaimer{%
  \justify\vspace*{\fill}%
}\PrintThankYouPage Then, we define \PrintThankYouPage:

\newcommand\PrintThankYouPage{%
  \begin{center}
    \textsc{\Huge\color{red}\textbf{Thank you!}}
  \end{center}%
\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, the author%\else%the company{}\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%the company{}\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

\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}(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

13
Print last page only in landscape mode}{Read huawei.pdf for more information}
\fi
\newpage
\vspace{1in}
\begin{center}
\begin{minipage}{0.6\columnwidth}\raggedright
\normalsize
\setlength{\parskip}{6pt}
{\Huge\color{red}\textbf{Thank you!}}
\vspace{0.5in}
Bring digital to every person, home and organization\newline
for a fully connected, intelligent world.
\textbf{Copyright \copyright{} \the\year{} \thecompany{}}\newline
\newline
All Rights Reserved.}
\end{minipage}
\end{center}
\makeatother
PrintBibliography
Then, we define \PrintBibliography:
\begin{verbatim}
\makeatletter\newcommand\PrintBibliography{%
\setlength\bibitemsep{3pt}%
\AtNextBibliography{\small}%
\ifdefined\huawei@nobrand\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%
\end{minipage}%
\end{center}%
\makeatother
\end{verbatim}
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
\makeatother

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}\def\arraystretch{1.5}}

Then, we renew a few commands:
\renewcommand\title[1]{\renewcommand\thetitle{#1}}
\renewcommand\thetitle{\textbackslash{}thetitle}
\renewcommand*\thecompany{Huawei Technologies Co., Ltd.}
\renewcommand\thesubtitle{}
\renewcommand\theauthor[1]{\renewcommand\theauthor{#1}}
\renewcommand\theauthor{\textbackslash{}theauthor}
\renewcommand*\thesecurity{Confidential}
\renewcommand*\theid{}
\ifcsname nospell\endcsname\else\newcommand\nospell[1]{#1}\fi
Change History

v0.1.0
General: The first draft version.

v0.10.0
General: Some colors redefined.

v0.11.0
General: The fixed-width font is rendered correctly now, without \texttt{ffcode}.

v0.12.0
General: The \texttt{abstract} is now formatted correctly.

v0.14.0
General: The \texttt{l3build} is now used for build automation, instead of \texttt{Makefile}.

v0.15.0
General: A new package option \texttt{breaks} introduced, which forces all sections to start from a new page.

v0.16.0
General: The doi tag enabled for \texttt{biblatex}.

v0.17.0
General: All figures and tables are bordered by default.

v0.18.0
General: Now we use \texttt{pfgopt} for parsing class options. \texttt{\PrintBibliography}: The bibliography prints in one column unless \texttt{breaks} class option is specified.

v0.3.0
General: The cover picture added for front pages.

v0.4.0
General: The current time is rendered without seconds.

v0.5.0
General: The \texttt{DEPENDS.txt} file added.

v0.6.0
General: The \texttt{ffcode} and \texttt{href-ul} packages created an their code removed from this class.

v0.7.0
General: The \texttt{authordraft} option is now supported.
# Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

## Symbols

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<th>Location</th>
</tr>
</thead>
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</tr>
<tr>
<td>;</td>
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</tr>
<tr>
<td>\fboxreset</td>
<td>77</td>
</tr>
<tr>
<td>\</td>
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</tr>
</tbody>
</table>

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<th>Location</th>
</tr>
</thead>
<tbody>
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<td>\arraystretch</td>
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<tr>
<td>\AtBeginDocument</td>
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</tr>
<tr>
<td>\AtNextBibliography</td>
<td>456</td>
</tr>
<tr>
<td>\author</td>
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<table>
<thead>
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<td>455</td>
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<td>107, 113, 123, 127, 132, 134, 139</td>
</tr>
<tr>
<td>\BLANK</td>
<td>108, 144</td>
</tr>
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## C

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<tr>
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<td>19</td>
</tr>
<tr>
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<td>98, 255, 321, 358, 366, 423, 474</td>
</tr>
<tr>
<td>\columnsep</td>
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</tr>
<tr>
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<td>349, 420</td>
</tr>
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<td>\copyright</td>
<td>432</td>
</tr>
<tr>
<td>\currenttime</td>
<td>308</td>
</tr>
</tbody>
</table>

## D

<table>
<thead>
<tr>
<th>Command</th>
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