

# L<sup>A</sup>T<sub>E</sub>X Class huawei\*

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## 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:



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 %0 --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](https://github.com/yegor256/huawei.cls)

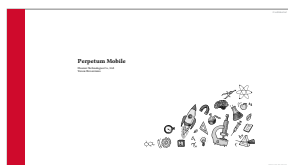


`\theauthor`     `\theauthor` is the author of the document in “first-name last-name” format.  
`\theid`            `\theid` is the internal ID of the author, if it’s applicable.  
`\thesecurity`    It is the level of security of the document, which is usually printed at the top right corner of it; usual 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 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:



```
1 \documentclass[landscape]{huawei}
2 \renewcommand*
3   \thetitle{Perpetum Mobile}
4 \renewcommand*
5   \theauthor{Yegor Bugayenko}
6 \begin{document}
7 \PrintFirstPage{}
8 \end{document}
```

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



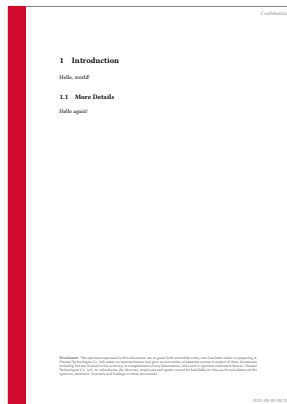
```
1 \documentclass[landscape]{huawei}
2 \begin{document}
3 \PrintLastPage{}
4 \end{document}
```

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



```
1 \documentclass[landscape,dark]{huawei}
2 \begin{document}
3 \PrintThankYouPage{}
4 \end{document}
```

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



```
1 \documentclass{huawei}
2 \begin{document}
3 \section{Introduction}
4 Hello, world!
5 \subsection{More Details}
6 Hello again!
7 \PrintDisclaimer
8 \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

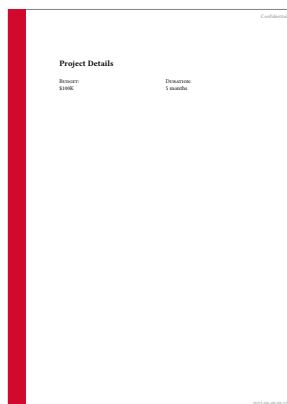
In the landscape format it's recommended to use two columns, for better readability of the text. Here is how:



```
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”:



```

1 \documentclass{huawei}
2 \begin{document}
3 \newpage
4 \section*{Project Details}
5 \begin{multicols}{2}
6 \raggedright
7 \PrintCrumb{Budget}{\$100K}
8 \PrintCrumb{Duration}{5 months}
9 \end{multicols}
10 \end{document}

```

## 6 Implementation

First, we load the parent class:

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

Then, we parse class options:

```

2 \RequirePackage{pgfopts}
3 \pgfkeys{
4   /huawei/.cd,
5   breaks/.store in=\huawei@breaks,
6   slides/.store in=\huawei@slides,
7   nosecurity/.store in=\huawei@nosecurity,
8   authordraft/.store in=\huawei@authordraft,
9   nobrand/.store in=\huawei@nobrand,
10  nodate/.store in=\huawei@nodate,
11  nocover/.store in=\huawei@nocover,
12  nopaging/.store in=\huawei@nopaging,
13  landscape/.store in=\huawei@landscape,
14  anonymous/.store in=\huawei@anonymous,
15 }
16 \ProcessPgfPackageOptions{/huawei}

```

Then, we redefine `\section` command in order to break pages for each section:

```

17 \makeatletter\ifdefined\huawei@breaks
18 \let\huawei@oldsection\section
19 \renewcommand\section{\clearpage\huawei@oldsection}
20 \fi\makeatother

```

Then, we set the size of the page:

```

21 \RequirePackage{geometry}
22 \makeatletter\ifdefined\huawei@landscape
23   \geometry{paperwidth=16in, paperheight=9in,
24     left=4in, right=2in, top=1.5in, bottom=1.5in}
25 \else
26   \geometry{a4paper, left=1.5in, right=1in,
27     top=1.2in, bottom=1.2in}
28 \fi\makeatother

```

Then, we set the size of the font:

```

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

```

Then, we configure the encodings:

```

32 \RequirePackage[T1]{fontenc}
33 \RequirePackage[utf8]{inputenc}

```

Then, we include a few important packages:

```

34 \RequirePackage{tabularx}
35 \RequirePackage{anyfontsize}
36 \RequirePackage{multicol}
37 \RequirePackage{ragged2e}
38 \RequirePackage{multicol}
39 \RequirePackage{paralist}
40 \RequirePackage{makecell}
41 \RequirePackage{graphicx}
42 \RequirePackage{array}
43 \RequirePackage[abspath]{currfile}
44 \RequirePackage{wrapfig}
45 \RequirePackage{lastpage}
46 \RequirePackage{tikz}
47 \RequirePackage{tabularx}
48 \RequirePackage{titling}
49 \RequirePackage{svg}

```

Then, we configure libertine font:

```

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

```

Then, we configure microtype:

```

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

```

Then, we configure footmisc:

```

54 \PassOptionsToPackage{para}{footmisc}
55 \RequirePackage{footmisc}
56 \setlength{\footnotemargin}{2pt}
57 \setlength{\footnotesep}{2pt}

```

Then, we configure enumitem:

```

58 \RequirePackage{enumitem}
59 \setlist{nosep}

```

Then, we configure textpos:

```

60 \RequirePackage[absolute]{textpos}
61 \TPGrid{16}{16}

```

Then, we configure datetime:

```

62 \PassOptionsToPackage{mmdyyyy,iso}{datetime}
63 \RequirePackage{datetime}
64 \newtimeformat{daytime}{\twodigit{\THEHOUR}:\twodigit{\THEMINUTE}}

```

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

```

65 \PassOptionsToPackage{hidelinks}{hyperref}
66 \RequirePackage{hyperref}

```

Then, we configure biblatex:

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

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

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

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

```
72 \RequirePackage{float}  
73 \floatstyle{boxed}  
74 \restylefloat{table}  
75 \restylefloat{figure}
```

Then, we make sure all figures and tables are centered by default, as recommended [here](#):

```
76 \makeatletter  
77 \g@addto@macro\@floatboxreset\centering  
78 \makeatother
```

Then, we set spacing between lines:

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

Then, we define branded colors:

```
81 \PassOptionsToPackage{table}{xcolor}  
82 \RequirePackage{xcolor}  
83 \definecolor{red}{HTML}{CFOA2C}  
84 \definecolor{black}{HTML}{232527}  
85 \definecolor{gray}{HTML}{878C8F}  
86 \definecolor{yellow}{HTML}{F2DC5D}  
87 \definecolor{blue}{HTML}{2274A5}  
88 \definecolor{green}{HTML}{499167}  
89 \definecolor{orange}{HTML}{F06543}
```

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

```
90 \makeatletter\newcommand\huawei@header[1]{{%  
91 \ifdefined\huawei@slides%  
92 \setstretch{0.8}%  
93 \fontsize{19pt}{24pt}\selectfont%  
94 \else%  
95 \setstretch{0.8}%  
96 \fontsize{11pt}{13pt}\selectfont%  
97 \fi%  
98 \sffamily\color{gray}#1\par%  
99 }}\makeatother
```

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

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

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

```
106 \makeatletter\newcommand\huawei@logo[1]{
107 \def\BLACK{\ifdefined\huawei@dark white\else black\fi}
108 \def\BLANK{\ifdefined\huawei@dark black\else white\fi}
109 \begin{tikzpicture}[y=0.80pt, x=0.80pt, yscale=-#1,
110 xscale=#1, inner sep=0pt, outer sep=0pt]
111 \begin{scope}[even odd rule,line width=0.800pt]
112 \begin{scope}[shift={(0,-0.00024)}]
113 \path[fill=\BLACK] (10.9375,30.2240) -- (10.9375,33.6097)
114 .. controls (10.9375,34.5713) and (10.4603,35.0845) ..
115 (9.5932,35.0845) .. controls (8.7212,35.0845) and
116 (8.2411,34.5565)
117 .. (8.2411,33.5686) -- (8.2411,30.2278) -- (7.0415,30.2278)
118 -- (7.0415,33.6097) .. controls (7.0415,35.2737) and
119 (7.9658,36.2272) .. (9.5774,36.2272) .. controls
120 (11.2041,36.2272) and (12.1371,35.2554) .. (12.1371,33.5609) --
121 (12.1371,30.2240)
122 -- (10.9375,30.2240) -- cycle;
123 \path[fill=\BLACK] (15.3511,30.2240) -- (12.7456,36.1351) --
124 (13.9702,36.1351) -- (14.4731,34.9903) -- (14.5091,34.9045) --
125 (17.2158,34.9045) -- (17.7467,36.1351) -- (19.0045,36.1351) --
126 (16.4233,30.2590) -- (16.4001,30.2240) -- cycle;
127 \path[fill=\BLACK] (22.4840,30.2240) -- (21.1414,34.2912) --
128 (19.8344,30.2271) -- (18.5578,30.2271) -- (20.6186,36.1388) --
129 (21.6120,36.1388) -- (22.9573,32.2553) -- (24.3016,36.1388) --
130 (25.3034,36.1388) -- (27.3592,30.2271) -- (26.1152,30.2271) --
131 (24.8055,34.2912) -- (23.4626,30.2240) -- cycle;
132 \path[fill=\BLACK] (34.2236,30.2240) -- (34.2236,36.1300) --
133 (35.4074,36.1300) -- (35.4074,30.2240) -- cycle;
134 \path[fill=\BLACK] (0.2686,30.2244) -- (0.2686,36.1384) --
135 (1.4686,36.1384) -- (1.4686,33.7365) -- (4.1780,33.7365) --
136 (4.1780,36.1384) -- (5.3783,36.1384) -- (5.3783,30.2244) --
137 (4.1780,30.2244) -- (4.1780,32.6102) -- (1.4686,32.6102) --
138 (1.4686,30.2244) -- cycle;
139 \path[fill=\BLACK] (28.3267,30.2284) -- (28.3267,36.1344) --
140 (32.7928,36.1344) -- (32.7928,35.0575) -- (29.5105,35.0575) --
141 (29.5105,33.5931) -- (31.6931,33.5931) -- (31.6931,32.5160) --
142 (29.5105,32.5160) -- (29.5105,31.3052) -- (32.6785,31.3052) --
143 (32.6785,30.2284) -- cycle;
144 \path[fill=\BLANK] (15.8594,31.7207) -- (16.7149,33.7008) --
145 (16.7119,33.7008) -- (16.7701,33.8374) -- (14.9552,33.8374) --
146 (15.0127,33.7008) -- (15.0117,33.7008) -- cycle;
147 \path[fill=red] (15.2113,0.0001) .. controls (14.7353,0.0422) and
148 (13.4491,0.3349) .. (13.4491,0.3349) -- (13.4486,0.3349) .. controls
149 (10.5495,1.0843) and (9.8643,3.7151) .. (9.8643,3.7151) .. controls
150 (9.7227,4.1575) and (9.6584,4.6109) .. (9.6395,5.0380) --
151 (9.6395,5.6194) .. controls (9.6780,6.5176) and (9.8777,7.1883) ..
152 (9.8777,7.1883) .. controls (10.8461,11.4823) and
153 (15.6075,18.5379) .. (16.6308,20.0200) .. controls
154 (16.7034,20.0920) and (16.7615,20.0660) ..
155 (16.7615,20.0660) .. controls (16.8720,20.0355) and
156 (16.8633,19.9296) .. (16.8633,19.9296) --
157 (16.8654,19.9301) .. controls (18.4416,4.1760) and
158 (15.2113,0.0001) .. (15.2113,0.0001) -- (15.2113,0.0001) -- cycle;
```



```

159 \path[fill=red] (20.4192,0.0000) .. controls (20.4192,0.0000) and
160 (17.1748,4.1782) .. (18.7521,19.9415) --
161 (18.7542,19.9415) .. controls (18.7664,20.0416) and
162 (18.8374,20.0624) ..(18.8374,20.0624) .. controls
163 (18.9430,20.1033) and(18.9971,20.0019) .. (18.9971,20.0019) --
164 (18.9976,20.0029) .. controls (20.0472,18.4829) and
165 (24.7814,11.4657) ..(25.7455,7.1882) .. controls(25.7455,7.1882) and
166 (26.2683,5.1179) .. (25.7636,3.7150) .. controls
167 (25.7636,3.7150) and (25.0470,1.0434) ..(22.1442,0.3375) .. controls
168 (22.1442,0.3375) and (21.3077,0.1251) .. (20.4193,0.0000) --
169 (20.4192,0.0000) -- cycle;
170 \path[fill=red] (5.4542,4.7294) .. controls (5.4542,4.7294) and
171 (2.6920,7.3513) .. (2.5547,10.1307) -- (2.5558,10.1307) --
172 (2.5558,10.5519) .. controls (2.5579,10.5836) and
173 (2.5595,10.6157) .. (2.5615,10.6480) .. controls
174 (2.6804,12.8893) and (4.3665,14.2157) ..
175 (4.3665,14.2157) .. controls (7.0831,16.8634) and
176 (13.6611,20.2062) .. (15.1896,20.9647) .. controls
177 (15.2110,20.9727) and (15.2900,20.9985) ..
178 (15.3364,20.9399) .. controls (15.3364,20.9399) and
179 (15.3605,20.9216) .. (15.3715,20.8887) --
180 (15.3715,20.8189) .. controls (15.3704,20.8149) and
181 (15.3683,20.8109) .. (15.3663,20.8065) --
182 (15.3669,20.8065) .. controls (11.1809,11.6620) and
183 (5.4543,4.7294) .. (5.4543,4.7294) -- (5.4542,4.7294) -- cycle;
184 \path[fill=red] (30.1695,4.7294) .. controls (30.1695,4.7294) and
185 (24.4602,11.6403) .. (20.2761,20.7662) --
186 (20.2777,20.7657) .. controls (20.2777,20.7657) and
187 (20.2283,20.8715) .. (20.3082,20.9399) .. controls
188 (20.3082,20.9399) and (20.3320,20.9579) .. (20.3650,20.9652) --
189 (20.4229,20.9652) .. controls (20.4333,20.9622) and
190 (20.4444,20.9582) .. (20.4554,20.9507) --
191 (20.4554,20.9517) .. controls (22.0255,20.1724) and
192 (28.5525,16.8516) .. (31.2563,14.2162) .. controls
193 (31.2563,14.2162) and (32.9686,12.8412) ..
194 (33.0583,10.6334) .. controls (33.2560,7.5672) and
195 (30.1696,4.7294) .. (30.1696,4.7294) -- (30.1695,4.7294) -- cycle;
196 \path[fill=red] (35.3082,13.8080) .. controls (35.3082,13.8080) and
197 (26.0003,18.8031) .. (21.1876,22.0494) -- (21.1882,22.0499) --
198 (21.1893,22.0509) .. controls (21.1893,22.0509) and
199 (21.1019,22.1081) .. (21.1324,22.2106) .. controls
200 (21.1324,22.2106) and (21.1781,22.2933) .. (21.2446,22.2933) --
201 (21.2446,22.2938) .. controls (22.9684,22.2968) and
202 (29.4914,22.3041) .. (29.6549,22.2736) .. controls
203 (29.6549,22.2736) and (30.4983,22.2399) ..
204 (31.5406,21.8395) .. controls (31.5406,21.8395) and
205 (33.8608,21.1019) .. (35.0659,18.4677) .. controls
206 (35.0659,18.4677) and (35.6166,17.3662) .. (35.6246,15.8187) --
207 (35.6246,15.7531) .. controls (35.6206,15.1563) and
208 (35.5365,14.4957) .. (35.3083,13.8080) --
209 (35.3082,13.8080) -- cycle;
210 \path[fill=red] (0.3129,13.8313) .. controls (-0.5339,16.4531) and
211 (0.6062,18.5656) .. (0.6080,18.5690) .. controls
212 (1.7962,21.0795) and (4.0641,21.8401) ..

```

```

213 (4.0641,21.8401) .. controls (5.1112,22.2703) and
214 (6.1586,22.3000) .. (6.1586,22.3000) .. controls
215 (6.3221,22.3300) and (12.6713,22.3030) ..
216 (14.3725,22.2950) .. controls (14.4445,22.2945) and
217 (14.4842,22.2221) .. (14.4842,22.2221) .. controls
218 (14.4892,22.2142) and (14.4936,22.2062) .. (14.4955,22.1989) --
219 (14.4955,22.1333) .. controls (14.4814,22.0893) and
220 (14.4439,22.0584) .. (14.4439,22.0584) --
221 (14.4450,22.0578) .. controls (9.6347,18.8126) and
222 (0.3130,13.8315) .. (0.3130,13.8315) -- (0.3129,13.8313) -- cycle;
223 \path[fill=red] (14.1782,23.1010) -- (3.2285,23.4850) .. controls
224 (4.4160,25.6018) and (6.4158,27.2469) ..
225 (8.4990,26.7416) .. controls (9.9366,26.3822) and
226 (13.1935,24.1105) .. (14.2687,23.3429) --
227 (14.2651,23.3399) .. controls (14.3487,23.2648) and
228 (14.3188,23.2045) .. (14.3188,23.2045) .. controls
229 (14.2913,23.1062) and (14.1783,23.1063) .. (14.1783,23.1063) --
230 (14.1782,23.1010) -- cycle;
231 \path[fill=red] (21.4305,23.1090) -- (21.4294,23.1130) .. controls
232 (21.4294,23.1130) and (21.3333,23.1252) ..
233 (21.3064,23.1972) .. controls (21.3064,23.1972) and
234 (21.2831,23.2956) .. (21.3478,23.3445) --
235 (21.3467,23.3455) .. controls (22.3950,24.0973) and
236 (25.5729,26.3191) .. (27.1039,26.7505) .. controls
237 (27.1039,26.7505) and (27.3359,26.8294) .. (27.7246,26.8435) --
238 (27.9581,26.8435) .. controls (28.9839,26.8075) and
239 (30.7708,26.2805) .. (32.3946,23.4907) --
240 (21.4305,23.1090) -- cycle;
241 \end{scope}%
242 \end{scope}%
243 \end{tikzpicture}%
244 }\makeatother

```

Then, we configure headers using fancyhdr:

```

245 \RequirePackage{fancyhdr}
246 \pagestyle{fancy}
247 \renewcommand{\headrulewidth}{0pt}
248 \fancyhf{}
249 \makeatletter\fancyfoot[L]{
250   \huawei@bar
251   \ifdefined\huawei@authordraft%
252     \begin{textblock}{14}[0.5,0.5](8,8)%
253       \tikz \node[minimum width=14\TPHorizModule] {%
254         \fontsize{64}{64}\selectfont\sffamily\scshape%
255         \color{gray!20}\rotatebox{30}{it is a draft}
256       };%
257     \end{textblock}%
258   \else\fi%
259 }\makeatother
260 \makeatletter\fancyhead[L]{
261   \ifnum\value{page}=1\else%
262     \ifdefined\huawei@nobrand\else%
263       \begin{textblock}{8}[0,0](1.2,0.2)%
264         \huawei@logo{\ifdefined\huawei@slides 1.8\else 1\fi}%

```

```

265     \end{textblock}%
266     \fi%
267 \fi%
268 }\makeatother
269 \makeatletter\fancyhead[R]{
270   \begin{textblock}{8}[1,0](15.8,0.2)%
271     \raggedleft\huawei@header{%
272       \ifdefined\huawei@nosecurity\else%
273         \thesecurity
274       \fi%
275     }%
276   \end{textblock}%
277 }\makeatother
278 \makeatletter\fancyfoot[R]{
279   \begin{textblock}{8}[0,1](1.2,15.8)%
280     \ifnum\value{page}=1\else%
281       \huawei@header{\raggedright%
282         \ifdefined\huawei@anonymous\else%
283           \theauthor%
284           \ifdefined\huawei@nosecurity\else%
285             \ifx\theid\empty\else, \theid\fi
286           \fi%
287           \ifdefined\huawei@nobrand\else%
288             \newline
289           \fi%
290         \fi%
291         \ifdefined\huawei@nobrand\else%
292           \thecompany{}
293         \fi%
294       }%
295     \fi%
296   \end{textblock}%
297   \begin{textblock}{8}[1,1](15.8,15.8)%
298     \raggedleft\huawei@header{%
299       \ifnum\value{page}=1\else%
300         \ifdefined\huawei@nopaging\else%
301           Page \#\thepage{} of \pageref*{LastPage}%
302         \ifdefined\huawei@nodate\else%
303           \\\
304         \fi%
305       \fi%
306     \fi%
307     \ifdefined\huawei@nodate\else%
308       \today{} \settimeformat{daytime}\currenttime{}%
309     \fi%
310   }%
311   \end{textblock}%
312 }\makeatother

```

abstract Then, we redefine abstract environment:

```

313 \RequirePackage{changepage}
314 \renewenvironment{abstract}
315   {\begin{adjustwidth}{0pt}{1in}{\scshape Abstract:}\newline\small}
316   {\end{adjustwidth}}

```

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

```
317 \makeatletter\renewcommand\maketitle{%
318   \vspace*{18pt}
319   {\bfseries{\Huge\thetitle\par}}
320   \ifx\thesubtitle\empty\else%
321     {\color{gray!50!black}\large\thesubtitle\par}
322   \fi
323   \ifdefined\huawei@nobrand\else%
324     \ifdefined\huawei@anonymous\else%
325       \ifx\thecompany\empty\else%
326         \thecompany\newline
327       \fi
328     \fi
329   \fi
330   \ifx\theauthor\empty\else%
331     {\scshape\ifdefined\huawei@anonymous
332       Anonymous Authors
333     \else%
334       \theauthor
335     \fi}%
336   \fi%
337   \ifdefined\huawei@anonymous\else%
338     \ifx\theauthor\empty\else
339       \ifdefined\huawei@nobrand\else%
340         \ifx\theid\empty\else
341           $\";$/ {\theid}
342         \fi
343       \fi
344     \fi
345   \fi
346   \vspace{2em}
347 }\makeatother
```

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

```
348 \newcommand\PrintCrumb[2]{%
349   \begin{minipage}{\columnwidth}%
350     \raggedright\textsc{#1}: \#2%
351   \end{minipage}\vspace{1em}%
352 }
```

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

```
353 \newcommand\PrintThankYouPage{
354   \newpage
355   \vspace*{\fill}
356   \begin{center}
357     \normalsize
358     {\Huge\color{red}\textbf{Thank you!}}
359   \end{center}
360   \vspace*{\fill}
361 }
```

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

```
362 \makeatletter\newcommand\PrintDisclaimer{%
363   \justify\vspace*{\fill}%
```

```

364 \begingroup%
365 \setstretch{0.55}%
366 \sffamily\scriptsize\color{gray!50!black}%
367 \textbf{Disclaimer}: The opinions expressed in
368 this document are in good faith and
369 while every care has been taken in preparing it,
370 \ifdefined\huawei@nobrand%
371 the author%
372 \else%
373 \thecompany{}%
374 \fi
375 makes no representations and gives no warranties
376 of whatever nature in respect of these documents,
377 including but not limited to the accuracy or completeness
378 of any information, facts and/or opinions contained therein.
379 \ifdefined\huawei@nobrand%
380 The author%
381 \else%
382 \thecompany{}%
383 \fi,
384 its subsidiaries, the directors, employees and agents
385 cannot be held liable for the use of and reliance of
386 the opinions, estimates, forecasts and findings in
387 these documents.
388 \par
389 \endgroup%
390 }\makeatother

```

\PrintFirstPage Then, we define \PrintFirstPage:

```

391 \makeatletter\newcommand\PrintFirstPage[1]{
392 \ifdefined\huawei@landscape\else
393 \PackageError{huawei}{It's allowed to use
394 PrintFirstPage only in landscape mode}{Read huawei.pdf
395 for more information}
396 \fi
397 \huawei@bar
398 \def\param{#1}%
399 \ifx\param\empty\else
400 \includegraphics[height=2in]{#1}
401 \newline
402 \fi
403 \vspace*{0.5in}
404 \maketitle
405 \ifdefined\huawei@nocover\else
406 \begin{textblock}{14}[1,1](14,14)
407 \raggedleft\includegraphics[height=3.6in]{huawei-cover-picture.pdf}
408 \end{textblock}
409 \fi
410 }\makeatother

```

\PrintLastPage Then, we define \PrintLastPage:

```

411 \makeatletter\newcommand\PrintLastPage{
412 \ifdefined\huawei@landscape\else
413 \PackageError{huawei}{It's allowed to use

```

```

414 PrintLastPage only in landscape mode}{Read huawei.pdf
415 for more information}
416 \fi
417 \newpage
418 \vspace*{1in}
419 \begin{center}
420 \begin{minipage}{0.6\columnwidth}\raggedright
421 \normalsize
422 \setlength{\parskip}{6pt}
423 {\Huge\color{red}\textbf{Thank you!}}
424
425 \vspace{0.5in}
426
427 Bring digital to every person, home and organization
428 \newline
429 for a fully connected, intelligent world.
430
431 \textbf{%
432 Copyright \copyright{} \the\year{} \thecompany{}
433 \newline
434 All Rights Reserved.%
435 }
436
437 The information in this document may contain predictive
438 statements including, without limitation, statements regarding
439 the future financial and operating results, future product
440 portfolio, new technology, etc. There are a number of factors that
441 could cause actual results and developments to differ materially
442 from those expressed or implied in the predictive statements.
443 Therefore, such information is provided for reference purpose
444 only and constitutes neither an offer nor an acceptance.
445 \ifdefined\huawei@nobrand%
446 The author%
447 \else%
448 \thecompany{}%
449 \fi
450 may change the information at any time without notice.
451 \end{minipage}
452 \end{center}%
453 }\makeatother

```

\PrintBibliography Then, we define \PrintBibliography:

```

454 \makeatletter\newcommand\PrintBibliography{%
455 \setlength\bibitemsep{3pt}%
456 \AtNextBibliography{\small}%
457 \ifdefined\huawei@breaks\newpage\fi%
458 \begin{group}%
459 \raggedright%
460 \setstretch{0.95}%
461 \ifdefined\huawei@landscape%
462 \begin{multicols}{3}\printbibliography\end{multicols}%
463 \else%
464 \ifdefined\huawei@breaks%
465 \begin{multicols}{2}\printbibliography\end{multicols}%

```

```

466 \else
467 \printbibliography%
468 \fi%
469 \fi%
470 }\makeatother

```

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

```

471 \makeatletter\ifdefined\huawei@dark
472 \RequirePackage{pagecolor}%
473 \pagecolor{black}%
474 \color{white}%
475 \fi

```

Then, we configure the layout:

```

476 \AtBeginDocument{%
477 \raggedbottom%
478 \raggedcolumns%
479 \setlength\headheight{32pt}%
480 \setlength\footskip{32pt}%
481 \setlength\topskip{0mm}%
482 \setlength\parindent{0pt}%
483 \setlength\parskip{6pt}%
484 \setlength\columnsep{32pt}%
485 \def\arraystretch{1.5}%
486 }

```

Then, we renew a few commands:

```

487 \renewcommand\title[1]{\renewcommand\thetitle{#1}}
488 \newcommand\thetitle{\textbackslash{}thetitle}
489 \newcommand*\thecompany{Huawei Technologies Co., Ltd.}
490 \newcommand\thesubtitle{}
491 \renewcommand\author[1]{\renewcommand\theauthor{#1}}
492 \newcommand\theauthor{\textbackslash{}theauthor}
493 \newcommand*\thesecurity{Confidential}
494 \newcommand*\theid{}
495 \ifcsname nospell\endcsname\else\newcommand\nospell[1]{#1}\fi

```

## Change History

v0.1.0		All figures and tables are centered by default. . . . .	7
General: The first draft version. . . . .	5		
v0.10.0		Smaller and sans-serif font for captions of figures. . . . .	7
General: Some colors redefined. . . . .	5		
v0.11.0			
General: The fixed-width font is rendered correctly now, without <code>ffcode</code> . . . . .	5	v0.18.0	
v0.12.0		General: Now we use <code>pfgopts</code> for parsing class options. . . . .	5
General: The <code>abstract</code> is now formatted correctly. . . . .	5	<code>\PrintBibliography</code> : The bibliography prints in one column unless <code>breaks</code> class option is specified. . . . .	14
v0.14.0		v0.3.0	
General: The <code>13build</code> is now used for build automation, instead of <code>Makefile</code> . . . . .	5	General: The cover picture added for front pages. . . . .	5
v0.15.0		v0.4.0	
General: A new package option <code>breaks</code> introduced, which forces all sections to start from a new page. . . . .	5	General: The current time is rendered without seconds. . . . .	5
v0.16.0		v0.5.0	
General: The <code>doi</code> tag enabled for <code>biblatex</code> . . . . .	7	General: The <code>DEPENDS.txt</code> file added. . . . .	5
v0.17.0		v0.6.0	
General: All figures and tables are bordered by default. . . . .	7	General: The <code>ffcode</code> and <code>href-ul</code> packages created an their code removed from this class. . . . .	5
		v0.7.0	
		General: The <code>authordraft</code> option is now supported. . . . .	5





