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 \texttt{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.
\author is the author of the document in “first-name last-name” format.

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

security 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:

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

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

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

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

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

PrintDisclaimer prints a paragraph at the bottom of the page with a standard disclaimer:
1 Introduction
Hello, world!
1.1 More Details
Hello again!

Disclaimer: The opinions expressed in this document are in good faith and while every care has been taken in preparing it,
Huawei Technologies Co., Ltd. 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. Huawei
Technologies Co., Ltd., 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.

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:

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

\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}
6 Implementation

First, we load the parent class:
\LoadClass[12pt]{article}

Then, we parse class options:
\RequirePackage{pgfopts}
\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
  \geometry{paperwidth=16in, paperheight=9in, left=4in, right=2in, top=1.5in, bottom=1.5in}
\else
  \geometry{a4paper, left=1.5in, right=1in, top=1.2in, bottom=1.2in}
\fi\makeatother

Then, we set the size of the font:
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{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 \texttt{libertine} font:
\PassOptionsToPackage{tt=false,type1=true}{libertine}
\RequirePackage{libertine}

Then, we configure \texttt{microtype}:
\RequirePackage{microtype}
\AddToHook{env/verbatim/begin}{\microtypesetup{protrusion=false}}

Then, we configure \texttt{footmisc}:
\PassOptionsToPackage{para}{footmisc}
\RequirePackage{footmisc}
\setlength{\footnotemargin}{2pt}
\setlength{\footnotesep}{2pt}

Then, we configure \texttt{enumitem}:
\RequirePackage[inline]{enumitem}
\setlist{nosep}

Then, we configure \texttt{textpos}:
\RequirePackage[absolute]{textpos}
\TPGrid{16}{16}

Then, we configure \texttt{datetime}:
\PassOptionsToPackage{mmddyyyy,iso}{datetime}
\RequirePackage{datetime}
\newtimeformat{daytime}{\twodigit{\THEHOUR}:\twodigit{\THEMINUTE}}

Then, to enable \texttt{pageref} command, we configure \texttt{hyperref}:
\PassOptionsToPackage{hidelinks}{hyperref}
\RequirePackage{hyperref}
Then, we configure biblatex:
\begin{verbatim}
\RequirePackage[maxnames=1, minnames=1, natbib=true, 
citestyle=numeric, bibstyle=numeric, 
url=false, isbn=false, isbn=false]{biblatex}
\end{verbatim}

Then, we make figure captions smaller and in \texttt{sf} font:
\begin{verbatim}
\PassOptionsToPackage{font={small, sf}}{caption}
\RequirePackage{caption}
\end{verbatim}

Then, we make all figures and tables bordered by default, with the help of the \texttt{float} package:
\begin{verbatim}
\RequirePackage{float}
\floatstyle{boxed}
\restylefloat{table}
\restylefloat{figure}
\end{verbatim}

Then, we make sure all figures and tables are centered by default, as recommended here:
\begin{verbatim}
\makeatletter
\g@addto@macro\@floatboxreset\centering
\makeatother
\end{verbatim}

Then, we set spacing between lines:
\begin{verbatim}
\RequirePackage{setspace}
\setstretch{1.08}
\end{verbatim}

Then, we define branded colors:
\begin{verbatim}
\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}
\end{verbatim}

\texttt{\textbackslash huawei@header} Then, we define \texttt{\textbackslash huawei@header}:
\begin{verbatim}
\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
\end{verbatim}

\texttt{\textbackslash huawei@bar} Then, we define \texttt{\textbackslash huawei@bar}:
\begin{verbatim}
\makeatletter
newcommand\huawei@bar{% 
  \begin{textblock}{1}(0,0)%
    \tikz \node[fill=red,minimum width=TPHorizModule, 
    minimum height=16\TPVertModule] {};%
  \end{textblock}%
} \makeatother
\end{verbatim}
Then, we define \huawei@logo:}

\makeatletter
\newcommand*{\huawei@logo}[1]{
    \def\BLACK{\if\defined\huawei@dark white\else black\fi}
    \def\BLANK{\if\defined\huawei@dark black\else white\fi}
    \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] (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) -- (4.1780,32.6102) -- (4.1780,32.6102) -- 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) -- cycle;
        \end{scope}
    \end{scope}
    \end{tikzpicture}
}\makeatother
(4.0641,21.8401) .. controls (5.1112,22.2703) and 
(6.1586,22.3000) .. controls (6.3221,22.3300) and (12.6713,22.3030) .. controls (14.3725,22.2950) and (14.4824,22.2221) .. controls (14.4892,22.2142) and (14.4936,22.2062) -- (14.4955,22.1333) .. controls (14.4914,22.0893) and (14.4439,22.0584) -- cycle;
\path[fill=red] (14.1782,23.1010) -- (3.2285,23.4850) .. controls (4.4160,25.6018) and (6.4158,27.2469) .. controls (8.4990,26.7416) and (13.1935,24.1105) .. controls (14.2651,23.3399) and (14.3188,23.2648) and (14.3188,23.2045) .. controls (14.3487,23.2648) and (14.3064,23.1972) and (21.2831,23.2956) .. controls (21.3478,23.3445) -- (21.3467,23.3455) .. controls (22.3900,24.0973) and (25.5729,26.3191) .. controls (27.1039,26.7505) .. controls (27.3359,26.8294) and (27.7246,26.8435) .. controls (27.9581,26.8435) and (30.7708,26.2805) .. controls (32.3946,23.4907) -- cycle;
\begin{tikzpicture}
\end{scope}
\end{scope}
\end{tikzpicture}
\end{document}

Then, we configure headers using fancyhdr:

\RequirePackage{fancyhdr}
\pagestyle{fancy}
\renewcommand{\headrulewidth}{0pt}
\fancyhf{}
\makeatletter\fancyfoot[\L]{\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\begin{textblock}{8}[0,0](1.2,0.2)\huawei@logo{\ifdefined\huawei@slides 1.8\else 1\fi}\fi\fi}\end{document}
abstract Then, we redefine abstract environment:

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

```latex
\maketitle
\renewcommand\maketitle{%
\vspace*{18pt}%
{\bfseries{\begin{spacing}{.9}\Huge\raggedright\thetitle\par\end{spacing}}}%
\ifs\thesubtitle\empty\else%
{\color{gray!50!black}\large\raggedright\thesubtitle\par}%
\fi%
\ifdefined\huawei@nobrand\else%
\ifdefined\huawei@anonymous\else%
\ifs\thecompany\empty\else%
\thecompany\par%
\fi%
\fi%
\fi%
\if\theauthor\empty\else%
{\scshape{\ifdefined\huawei@anonymous%
Anonymous Authors%
\else%
\theauthor%
\fi}}%
\fi%
\ifdefined\huawei@anonymous\else%
\if\theauthor\empty\else%
\ifdefined\huawei@nobrand\else%
\ifs\theid\empty\else%
\;$/ {\theid}%
\fi%
\fi%
\fi%
\par%
\fi%
\fi%
\fi%
\par%
\vspace{2em}%
}\makeatother
```

Then, we define `\PrintCrumb`:

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

Then, we define `\PrintThankYouPage`:

```latex
\newcommand\PrintThankYouPage{%
\newpage
\vspace*{\fill}%
\begin{center}
{\Huge\color{red}\textbf{Thank you!}}
\end{center}
\vspace*{\fill}%
}
Then, we define \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\}

\PrintFirstPage Then, we define \PrintFirstPage:

\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}\
\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:
Then, we define \PrintBibliography:

\makeatletter\newcommand\PrintBibliography{\
\setlength{\bibitemsep}{3pt}\n\AtNextBibliography{\small}\n\ifdefined\huawei@breaks\newpage\fi\n\begingroup\n\raggedright\n\setstretch{0.95}\n\ifdefined\huawei@landscape\n\begin{multicols}{3}\printbibliography\end{multicols}\n\else\n
\begin{center}
\begin{minipage}{0.6\columnwidth}\raggedright\n\normalsize

\Huge\color{red}\textbf{Thank you!}\n
\vspace{0.5in}\n
Bring digital to every person, home and organization for a fully connected, intelligent world.

Copyright \copyright{} \the\year{} \thecompany{}\n
All Rights Reserved.\

\end{minipage}
\end{center}\n
\end{group}\n
\makeatother\n
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.\n
The author\n
\thecompany{}\n
may change the information at any time without notice.\n
\end{center}\n
\end{center}
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}%
\renewcommand{\arraystretch}{1}%
%
}\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}\fi
## Change History

<table>
<thead>
<tr>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>v0.1.0</td>
<td>General: The first draft version.</td>
</tr>
<tr>
<td>v0.10.0</td>
<td>General: Some colors redefined.</td>
</tr>
<tr>
<td>v0.11.0</td>
<td>General: The fixed-width font is rendered correctly now, without \texttt{ffcode}.</td>
</tr>
<tr>
<td>v0.12.0</td>
<td>General: The abstract is now formatted correctly.</td>
</tr>
<tr>
<td>v0.14.0</td>
<td>General: The \texttt{13build} package is now used for build automation, instead of \texttt{Makefile}.</td>
</tr>
<tr>
<td>v0.15.0</td>
<td>General: A new package option \texttt{breaks} is introduced, which forces all sections to start from a new page.</td>
</tr>
<tr>
<td>v0.16.0</td>
<td>General: The \texttt{doi} tag is enabled for \texttt{biblatex}.</td>
</tr>
<tr>
<td>v0.17.0</td>
<td>General: All figures and tables are bordered by default.</td>
</tr>
</tbody>
</table>
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
\# .................. 301
\; ................ 342
\@floatboxreset ... 77
\ \ .................. 303, 353
A
\abstract ........... 313
\AddToHook .......... 53
\arraystretch ....... 488
\AtBeginDocument .. 479
\AtNextBibliography 459
\author ............ 494
B
\begin ............ 101, 109, 111, 112, 252, 263, 270, 279, 297, 315, 319, 352, 359, 409, 422, 423, 465, 468
\bfseries ........... 319
\bibitemsep ......... 458
\BLACK ............. 107, 113, 123, 127, 132, 134, 139
\BLANK ............ 108, 144
C
\centering .......... 77
\clearpage .......... 19
\color ............ 98, 255, 321, 361, 369, 426, 477
\columnsep ........ 487
\columnwidth ..... 352, 423
\copyright .......... 435
\currenttime ...... 308
D
\def ............... 107, 108, 401
\definecolor ....... 83, 84, 85, 86, 87, 88, 89
E
\empty ........... 285, 320, 325, 331, 339, 341, 402
\end ............ 104, 241, 242, 243, 257, 265, 276, 296, 311, 316, 319, 354, 362, 411, 454, 455, 465, 468
\endcsname ........ 498
F
\fancyfoot ........ 249, 278
\fancyhead ....... 260, 269
\fancyhf .......... 248
\fill ........ 358, 363, 366
\floatstyle ......... 73
\fontsize .......... 93, 96, 254
\footnotesep ...... 56
\footnotesep ...... 57
\footskip .......... 483
G
\g@addto@macro .... 77
\geometry .......... 23, 26
\Huge ............ 319, 361, 426
I
\ifcsname ........ 498
\ifnum ........ 261, 280, 299
\ifx ........ 285, 320, 325, 331, 339, 341, 402
\includegraphics ... 403, 410
J
\justify .......... 366
L
\large ............ 321
\LoadClass ........ 1
M
\makeatletter .... 17, 22, 29, 76, 90, 100, 106, 249, 260, 269, 278, 317, 365, 394, 414, 457, 474
\makeatother .... 20, 28, 31, 78, 99, 105, 244, 259, 268, 277, 312, 350, 393, 413, 456, 473
\maketitle ........ 317, 407
\microtypesetup ... 53
N
\newline ........... 288, 315, 404, 431, 436
\newpage .......... 357, 420, 460
\newtimeformat .... 64
\node ............ 102, 253
\normalsize ...... 360, 424
\noindent .......... 498
P
\PackageError .. 396, 416
\pagecolor ........ 476
\pageref .......... 301
\pagestyle ........ 246
\par 98, 319, 321, 326, 347, 391, 427, 429, 433, 439

17