

Part I

Examples

1 This is an example of the section command defined below

```
\titleformat{\section} [block]
  {\normalfont\bfseries\filcenter}{\fbox{\itshape\thesection}}{1em}{}
```

■

SECTION 2

A framed title

```
\titleformat{\section} [frame]
  {\normalfont}
  {\filright
   \footnotesize
   \enspace SECTION \thesection\enspace}
  {8pt}
  {\Large\bfseries\filcenter}
```

■

3. *A Ruled Title*

```
\titleformat{\section}
  {\titlerule
   \vspace{.8ex}%
   \normalfont\itshape}
  {\thesection.}{.5em}{}
```

■

4

Another Ruled Title

```
\titleformat{\section} [block]
  {\normalfont\sffamily}
  {\thesection}{.5em}{\titlerule\[\.8ex]\bfseries}
```

■

.....

5 The length of the “rule” above is that of
the longest line in this title increased by two
picas

.....

6 This one is shorter

```

\titledformat{\section} [block]
  {\filcenter\large
   \addtolength{\titlewidth}{2pc}%
   \titleline*[c]{\titlerule* [.6pc]{\tiny\textbullet}}%
   \advvspace{6pt}%
   \normalfont\sffamily}
  {\thesection}{1em}{}
\titlespacing{\section}
  {5pc}{*2}{*2}[5pc]

```



SECTION 7

This is an example of the section command defined below and, what's more, this is an example of the section command defined below. Let us repeat it. This is an example of the section command defined below and, what's more, this is an example of the section command defined below

```

\titledformat{\section} [display]
  {\normalfont\fillast}
  {\scshape section \oldstylenums{\thesection}}
  {1ex minus .1ex}
  {\small}
\titlespacing{\section}
  {3pc}{*3}{*2}[3pc]

```



THIS PART IS THE TITLE ITSELF and this part is the section body...

```

\titledformat{\section} [runin]
  {\normalfont\scshape}
  {}{0pt}{}
\titlespacing{\section}
  {\parindent}{*2}{\wordsep}

```



8. A Simple Example of the “wrap” Section Shape Which is followed by some text to show the result. Which is followed by some text to show the result. Which is followed by some text to show the result. Which is followed by some text to show the result. Which is followed by some text to show the result. Which is followed by some text to show the result.

9. And another Note how the text wraps the title and the space reserved to it is readjusted automatically. And that is followed by some text to show the result. Which is followed by some text to show the result.

```
\titleformat{\section} [wrap]
  {\normalfont\fontseries{b}\selectfont\filright}
  {\thesection.}{.5em}{}
\titlespacing{\section}
  {12pc}{1.5ex plus .1ex minus .2ex}{1pc}
```



§ 10. Old-fashioned runin title.—Of course, you would prefer just a dot after the title. In this case the optional argument should be [.] and the space after a sensible value (1em, for example).

```
\titleformat{\section} [runin]
  {\normalfont\bfseries}
  {\S\ \thesection.}{.5em}{[.---]}
\titlespacing{\section}
  {\parindent}{1.5ex plus .1ex minus .2ex}{0pt}
```



.....

Example of margin section Which is followed by some text to show the result. But don't stop reading, because the following example illustrates how to take advantage of other packages. The last command in the last argument can take an argument, which is the title with no additional command inside it. We just give the code, but you may try it by yourself. Thus, with the soul package you may say

```
\newcommand{\secformat}[1]{\MakeLowercase{\so{#1}}}
  % \so spaces out letters
\titleformat{\section} [block]
  {\normalfont\scshape\filcenter}
  {\thesection}
  {1em}
  {\secformat}
```

The margin title above was defined:

```
\titleformat{\section} [leftmargin]
  {\normalfont
  \titlerule* [.6em]{\bfseries.}%
  \vspace{6pt}%
  \sffamily\bfseries\filleft}
  {\thesection}{.5em}{}
\titlespacing{\section}
  {4pc}{1.5ex plus .1ex minus .2ex}{1pc}
```



The following examples are intended for chapters. However, this document lacks of `\chapter` and are showed using `\sections` with slight changes.

CHAPTER 11

The Title

```
\titleformat{\chapter}[display]
  {\normalfont\Large\filcenter\sffamily}
  {\titlerule[1pt]%
   \vspace{1pt}%
   \titlerule
   \vspace{1pc}%
   \LARGE\MakeUppercase{\chaptertitlename} \thechapter}
  {1pc}
  {\titlerule
   \vspace{1pc}%
   \Huge}
```

■

CHAPTER XII

The Title

```
\renewcommand{\thechapter}{\Roman{chapter}}
\titleformat{\chapter}[display]
  {\bfseries\Large}
  {\filleft\MakeUppercase{\chaptertitlename} \Huge\thechapter}
  {4ex}
  {\titlerule
   \vspace{2ex}%
   \filright}
  [\vspace{2ex}%
   \titlerule]
```

Part II

A full example

Now an example of a complete title scheme follows.

```
\documentclass[twoside]{report}
\usepackage[sf,sl,outermarks]{titlesec}

% \chapter, \subsection...: no additional code

\titleformat{\section}
  {\LARGE\sffamily\slshape}
  {\thesection}{1em}{}
\titlespacing{\section}
  {-6pc}{3.5ex plus .1ex minus .2ex}{1.5ex minus .1ex}

\titleformat{\paragraph}[leftmargin]
  {\sffamily\slshape\filright}
  {}{}{}
\titlespacing{\paragraph}
  {5pc}{1.5ex minus .1ex}{1pc}

% 5+1=6, ie, the negative left margin in section

\widenhead{6pc}{0pc}

\renewpagestyle{plain}{}

\newpagestyle{special}[\small\sffamily]{
  \headrule
  \sethead[\usepage][\textsl{\chaptertitle}] []
    {}{\textsl{\chaptertitle}}{\usepage}}

\newpagestyle{main}[\small\sffamily]{
  \headrule
  \sethead[\usepage][\textsl{\thechapter. \chaptertitle}] []
    {}{\textsl{\thesection. \sectiontitle}}{\usepage}}

\pagestyle{special}

\begin{document}

---TOC

\pagestyle{main}

---Body

\pagestyle{special}

---Index
\end{document}
```

Part III

Standard Classes

Now follows, for your records, how sectioning commands of standard classes could be defined.

```
\titleformat{\chapter}[display]
  {\normalfont\huge\bfseries}{\chaptertitle\ \thechapter}{20pt}{\Huge}
\titleformat{\section}
  {\normalfont\Large\bfseries}{\thesection}{1em}{}
\titleformat{\subsection}
  {\normalfont\large\bfseries}{\thesubsection}{1em}{}
\titleformat{\subsubsection}
  {\normalfont\normalsize\bfseries}{\thesubsubsection}{1em}{}
\titleformat{\paragraph}[runin]
  {\normalfont\normalsize\bfseries}{\theparagraph}{1em}{}
\titleformat{\subparagraph}[runin]
  {\normalfont\normalsize\bfseries}{\thesubparagraph}{1em}{}

\titlespacing*{\chapter}      {0pt}{50pt}{40pt}
\titlespacing*{\section}     {0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
\titlespacing*{\subsection}  {0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
\titlespacing*{\subsubsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
\titlespacing*{\paragraph}   {0pt}{3.25ex plus 1ex minus .2ex}{1em}
\titlespacing*{\subparagraph}{\parindent}{3.25ex plus 1ex minus .2ex}{1em}
```

Part IV

More advanced example

A final example shows how to take advantage of the `picture` environment for fancy sectioning formats. Even with the simple tools provided by standard `LATEX` you may create impressive titles but you may devise more elaborated ones with, for instance, `pspicture` (`PSTricks` package) or by including graphics created with the help of external programs.

```
\usepackage[dvips]{color}
\usepackage[rigidchapters]{titlesec}

\DeclareFixedFont{\chapterfont}{T1}{phv}{bx}{n}{11cm}

\newcommand{\chapterformat}[1]{%
  \put(0,190){\parbox[t]{300pt}{\Huge\sffamily\filright#1}}}

\titlespacing{\chapter}{0pt}{0pt}{210pt}
% Most of titles have some depth. The total space is
% a bit larger than the picture box.
```

```

\titleformat{\chapter} [block]
{\begin{picture}(330,200)}
{\put(450,80){%
  \makebox(0,0) [rb]{%
    \chapterfont\textcolor[named]{SkyBlue}{\thechapter}}}
\put(0,230){%
  \makebox(0,0) [lb]{%
    \Huge\sffamily\underline{Chapter \thechapter}}}}
{0pt}
{\chapterformat}
[\end{picture}]

```

(The exact values to be used depend on the text area, class, `\unitlength`, paper size, etc.)