

1 Basic List Types

In this section, let's look at some basic list constructs of $\text{\LaTeX} 2_{\epsilon}$. They are *enumerate*, *itemize*, *description* ...

You can start a new paragraph either with a blank line or a `\par`.

1.1 Enumeration

An enumeration starts with `\begin{enumerate}`, ends with `\end{enumerate}`. Each item starts with `\item`. The items are labeled with roman numeral by default, but you can change the style to anything you like.

Hey! Here is some very basic things you need to know about \LaTeX .

1. Hi, Today is January 14, 2003.
2. You must enter “open quotes” as ‘ and “close quotes” as ’.
3. You must enter the characters `$ & % # - { } ~ ^` as `\$ \& \% \# _ \{ \} \~{} \^{}` .
4. you can enter verbatim text with `\verb|something|`.
5. Use `\textbf{something}` to enter something with font **Bold Weight**.
6. Use `\textsf{something}` to enter something with font Sans Serif.
7. `\bfseries` can change **all the text follows to bold face, until the group ends**.
8. Font switch commands: `tiny` `scriptsize` `footnotesize` `small` `normalsize`(default) `large` `Large` `LARGE` `huge` `Huge`.
9. Here are three types of dashes: “emdash”, “endash” and “hyphen”.
emdash: He lay there—dead.
endash: from 10–12
hyphen: state-of-the-art.
10. Ellipsis should be entered as: `\ldots` (...), `\cdots` (···) or `\ddots` (···), even `\dotfill`.....

1.2 Change the style of enumeration

Here you can setup new environments named `whitecircleenum` and `blackcircleenum`.

First, we use the package `pifont`. Then we can access the PostScript Dingbats font designed by Hermann Zapf.

```
\usepackage{pifont}
```

Then we renew the command `\labelenumi` to set the new label style.

```
\newcounter{local}  
\newenvironment{whitecircleenum}%  
{\begingroup\renewcommand{\labelenumi}{%  
\setcounter{local}{171+\value{enumi}}}%  
\ding{\value{local}}}\begin{enumerate}}%  
{\end{enumerate}\endgroup}
```