

LaTeX Syntax Explained Simply



Here is the breakdown of the **List** commands, presented with the **Output** first, followed by the **Code**.

1. Unordered Lists (Bullet Points)

Output:

- First item
- Second item
 - Nested item

Code:

Code snippet



```
\begin{itemize}
  \item First item
  \item Second item
    \begin{itemize}
      \item Nested item
    \end{itemize}
\end{itemize}
```

Output: – Dash bullet ★ Star bullet → Arrow bullet • Standard bullet

Code:

Code snippet



```
% You can manually change the bullet for just one item
\begin{itemize}
```

```
\item[--] Dash bullet
\item[$\star$] Star bullet
\item[$\rightarrow$] Arrow bullet
\item[\textbullet] Standard bullet
\end{itemize}
```

Output: ○ Circle bullets (Uses `enumitem` package)

Code:

Code snippet



```
\usepackage{enumitem} % Required in preamble

\begin{itemize}[label=$\circ$]
  \item Circle bullets
\end{itemize}
```

Output:

- Compact item
- Compact item (*Removes extra vertical space between items*)

Code:

Code snippet



```
\begin{itemize}[noitemsep]
  \item Compact item
  \item Compact item
\end{itemize}
```

2. Ordered Lists (Numbered)

Output:

1. First item
2. Second item a. Nested

Code:

Code snippet



```

\begin{enumerate}
  \item First item
  \item Second item
  \begin{enumerate}
    \item Nested
  \end{enumerate}
\end{enumerate}

```

Output: (a) First (a) (b) Second (b)

Code:

Code snippet



```

% Requires \usepackage{enumitem}
\begin{enumerate}[label=(\alph*)]
  \item First (a)
  \item Second (b)
\end{enumerate}

```

Output: i. Roman numerals

Code:

Code snippet



```

% \roman* gives i, ii, iii. \Roman* gives I, II, III.
\begin{enumerate}[label=\roman*.]
  \item Roman numerals
\end{enumerate}

```

Output: (1) First

Code:

Code snippet



```

\begin{enumerate}[label=(\arabic*)]
  \item First
\end{enumerate}

```

Output:

1. First
2. Second
3. Third (continued) (*Automatically remembers the last number*)

Code:

Code snippet



```
\begin{enumerate}
  \item First
  \item Second
\end{enumerate}

% "resume" picks up where the last list left off
\begin{enumerate}[resume]
  \item Third (continued)
\end{enumerate}
```

3. Description Lists (Definitions)

Output: Term 1 Definition of term 1 Term 2 Definition of term 2

Code:

Code snippet



```
\begin{description}
  \item[Term 1] Definition of term 1
  \item[Term 2] Definition of term 2
\end{description}
```

Output: Term Definition on next line

Code:

Code snippet



```
\usepackage{enumitem}

\begin{description}[style=nextline]
```

```
\item[Term] Definition on next line  
\end{description}
```

4. Inline Lists (Lists inside a paragraph)

Output: Here is a sentence with 1. Item one 2. Item two embedded inside it.

Code:

Code snippet



```
\usepackage{paralist}  
  
\begin{inparaenum}  
  \item Item one  
  \item Item two  
\end{inparaenum}
```