

# LaTeX Syntax Explained Simply

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

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## 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}
```

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### 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}
```