

L^AT_EX

A Report Writing Tool

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Input File

```
\documentclass{article|report|...}  
\usepackage{...}  
\begin{document}  
% this is a comment  
...  
\end{document}
```

Getting The Output

- process the latex file

```
latex filename.tex
```

- convert the output .dvi file into .pdf file

```
dvipdf filename.dvi
```

Basic Formating : Text Style

- Font

`\texttt{Hello} \textrm{Hello}`

Hello Hello

- Style

`\textbf{Hello} \textit{Hello}`

Hello *Hello*

- Size

```
\tiny{Hello} \small{Hello}  
\large{Hello} \Large{Hello}
```

Hello Hello

Hello Hello

Basic Formatting : Justification

- Center

```
\begin{center}  
Hello  
\end{center}
```

Hello

- Right

```
\begin{flushright}  
Hello  
\end{flushright}
```

Hello

- Left

```
\begin{flushleft}  
    Hello  
\end{flushleft}
```

Hello

Basic Formatting : White spaces

- Space : to force $\text{\LaTeX}$ to put a space

`~`

- Line break : to start a new line

`\\`

- Page break : to start a new page

`\newpage`

Basic Formatting : Lists

- Numbered

```
\begin{enumerate}  
    \item Apple  
    \item Bat  
\end{enumerate}
```

1. Apple

2. Bat

- Bulleted

```
\begin{itemize}  
  \item Apple  
  \item Bat  
\end{itemize}
```

— Apple

— Bat

Mathematical Formulae : $\$ \dots \$$ Or $\backslash[\dots \backslash]$

- for inline formulas use $\$ \dots \$$

$\$ \backslash \text{sum}_{\{i=1\}}^{\{n\}} x^2 = \backslash \text{frac}\{n(n+1)\}\{2\} \$$

$$\sum_{i=1}^n x^2 = \frac{n(n+1)}{2}$$

- for displayed formulas $\backslash[\dots \backslash]$

$\backslash[\backslash \text{sum}_{\{i=1\}}^{\{n\}} x^2 = \backslash \text{frac}\{n(n+1)\}\{2\} \backslash]$

$$\sum_{i=1}^n x^2 = \frac{n(n+1)}{2}$$

Mathematical Formulae : Some Examples

- $\backslash\alpha, \backslash\beta - \alpha, \beta$
- $\backslash\Gamma, \backslash\Delta - \Gamma, \Delta$
- $a_i, e^{4\pi i} - a_i, e^{4\pi i}$
- $\backslash\leq, \backslash\geq, \backslash\subset - \leq, \geq, \subset$

“kile” is a nice front-end tool for $\text{\LaTeX}$, so you don’t need to remember the syntax.