

L^AT_EX Notes

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Special Characters

Character	Replace With
#	\#
\$	\\$
&	\&
%	\%
—	\underline{~~}
{	\{
}	\}
	\$_mid\$
\	\verb+\+
\	\$_backslash\$
"	` ` and ' '
'	` and '
-, -, —	-, --, or ---
^	\verb+^+
~	\verb+~+
<	\verb+<+
<	\$_<\$
>	\verb+>+
>	\$_>\$

Comments begin with % to the end of the line.

Use '~' to signify a single space that is not an end of sentence and not to be line broken.
Mr.~Jones becomes Mr. Jones.

Use '\ ' followed by a space to signify a space that is not the end of a sentence but can be line broken. Mr.\ Jones becomes Mr. Jones.

Use '\@.' to signify a period which *should* end a sentence (L^AT_EX expects a lowercase letter to precede a period.) NASA\@. becomes NASA.

Basic Structure

```
\documentclass[12pt]{article}
\usepackage[letterpaper,margin=1in]{geometry}
\pagestyle{empty}      % if no page numbers
\begin{document}
.
.
.
\end{document}
```

Paragraphs

<code>\setlength{\parskip}{0in}</code>	to eliminate space between paragraphs
<code>\setlength{\parskip}{\baselineskip}</code>	blank line between paragraphs
<code>\setlength{\parindent}{0in}</code>	remove first line paragraph indent
<code>\setlength{\parindent}{2.5em}</code>	indent first line of each paragraph
<code>\renewcommand{\baselinestretch}{2}</code>	double space each line
<code>\raggedright</code>	don't justify text
<code>\noindent</code>	stop paragraph indentation this once
<code>\indent</code>	insert paragraph indent here

Fonts

Command	Effect
<code>\emph{My Text}</code>	<i>My Text</i>
<code>{\em My Text}</code>	<i>My Text</i>
<code>{\em My Text\}</code>	<i>My Text</i> More
<code>\underline{My Text}</code>	<u>My Text</u>
<code>{\bfseries My Text}</code>	My Text
<code>\textbf{My Text}</code>	My Text
<code>\tiny</code>	<small>My Text</small>
<code>\small</code>	My Text
<code>\large</code>	My Text
<code>\Large</code>	My Text
<code>\LARGE</code>	My Text
<code>\huge</code>	My Text
<code>\Huge</code>	My Text

Justifying Text

These command affect justification and not filling.

```
\centerline{My Text}
\begin{center} ... \end{center}
\begin{flushright} ... \end{flushright}
\begin{flushleft} ... \end{flushleft}
\raggedright
\raggedleft
```

Breaking

```
\\                line break
\\[1in]           break line and add 1in of space
\newpage
```

Space

```
\smallskip
\medskip
\bigskip
\vspace{length}
\vspace*{length}    force space
\hspace{length}
\hspace*{length}    force space
\hfill              fill available horz space
\vfill              fill available vert space
\dotfill             fill with dots
\hrulefill           fill with horz rule
```

Lists

```
\begin{enumerate}
  \item One           1. One
  \item Two           2. Two
  \item Three         3. Three
\end{enumerate}
```

```
\begin{itemize}
  \item One
  \item Two
  \item Three
\end{itemize}
```

- One
- Two
- Three

```
\begin{description}
  \item[One] Line 1
  \item[Two] Line 2
  \item[Three] Line 3
\end{description}
```

One Line 1

Two Line 2

Three Line 3

Quotes

This is the quote environment.

```
\begin{quote}
  Now is the time .....
\end{quote}
```

This is the quote environment.

Now is the time for all good men to
come to the aid of their party.

Now is the time for all good men to
come to the aid of their party.

This is the quotation environment.

```
\begin{quotation}
  Now is the time .....
\end{quotation}
```

This is the quotation environment.

Now is the time for all good men
to come to the aid of their party.

Now is the time for all good men
to come to the aid of their party.

This is the verbatim environment.

```
\begin{verbatim}
Line 1
  Line 2
Special characters can be included too
$ & \ %
\end{verbatim}
```

This is the verbatim environment.

```
Line 1
  Line 2
Special characters can be included too
$ & \ %
```

Tables

```
\begin{tabular}{ll}
  Animal & Name \\ \hline
  Cat & George \\
  Cat & Sam \\
  Dog & Katrina \\
\end{tabular}
```

Animal	Name
Cat	George
Cat	Sam
Dog	Katrina

```
\begin{tabular}{|l|c|} \hline
  Animal & Animal's Name \\ \hline
  Cat & George \\
  Cat & Sam \\
  Dog & Katrina \\ \hline
\end{tabular}
```

Animal	Animal's Name
Cat	George
Cat	Sam
Dog	Katrina

Tabbing Environment

```
\begin{tabbing}
  \hspace*{.5in} \>= \hspace*{.75in} \>= \\
  Cat \> George \> Michaels \\
  Cat \> Sam \> Goodman \\
  Dog \> Katrina \> Fisch \\
\end{tabbing}
```

Cat	George	Michaels
Cat	Sam	Goodman
Dog	Katrina	Fisch

Misc. Commands

```
\tableofcontents
\footnote{note}
```

AAA \hspace*{.5in} BBB

AAA _____ BBBB

Headers and Footers

```
\documentclass[12pt]{article}
\usepackage[letterpaper,margin=1in]{geometry}

% header/footer package
\usepackage{fancyhdr}
\pagestyle{fancy}
\renewcommand{\headrulewidth}{0in}
\rfoot{\small Page \thepage\ of \pageref{lastpage}}
\cfoot{}
\lfoot{\small 1/11/05 (rev. 4/21/05)}

\begin{document}
.
.
.
\label{lastpage}      % let LaTeX know where the last page is.
\end{document}
```

Commands

```
\lhead{}           \lfoot{}
\chead{}           \cfoot{}
\rhead{}           \rfoot{}
\thepage
\pageref{lastpage}
```

Sectioning Commands

```
\chapter{name}
\section{name}
\subsection{name}
\subsubsection{name}

\label{name}       set a marker at this point
\ref{name}         evaluates to the section at \label{name}
\pageref{name}     evaluates to the page number at \label{name}
```