LaTeX Cheat Sheet

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Document Structure Commands

- `\documentclass{...}` - To specify the overall layout of a document.
- `\title{...}` - Sets the main title of the document.
- `\author{...}` - Sets the author of the document.
- `\date{\today}` - Sets the date to the current date.
- `\begin{document}` - Initiates the document structure.
- `\maketitle` - To display the preamble i.e. title, author , date ...
- `\tableofcontents` - For table of contents

Content Commands and Usag

- `%` - Indicate a comment
- `\par` - It is used to create line breaks, similar to pressing "Enter" in a word processor
- `\noindent` - To suppress the indentation
- `\hspace` - To give a space horizontally
- `\vspace` - To give a space vertically `\end{center}` - To center block of text, images or diagrams etc.

Formatting Commands and Usage

- \textbf{...} - Used to make the enclosed text bold
- \textit{...} - Used to make the enclosed text italic
- \underline{...} - Used to underline the enclosed text.

Section Commands and Usage

- `\section{...}` - To define a new section in the document
- `\subsection{...}` - To define a new section under the main section
- `\subsubsection{...}` - To define a new section under the subsection
- `\section *{...}` - To create an unnumbered section or heading

List Commands and Usage

- `\begin{itemize}` - Starts a bulleted list environment.
- `\begin{enumerate}` - Initiates a numbered list environment.
- `\begin{equation}` - Begins a mathematical equation environment.
- `\begin{table}` - Initiates a table environment.
- `\begin{figure}` - Starts a figure or graphic environment.

Math Commands and Usage

- `$ ... $` - For inserting mathematical expressions within a line a text

- `\[ ... \]` - For inserting mathematical expressions to appear as a centered equation on its own line
- `\dots` - For 3 dots (...)
- `\sqrt{...}` - For inserting square root

Figures, Images Commands and Usage

- `\usepackage{graphicx}` - Importing the graphicx package
- `\usepackage{subfigure}` - Importing subfigures under a main figure
- `\begin{figure}` ... `\end{figure}` - To Insert images, diagrams or illustrations
- `\begin{center}` ... `\end{center}` - To center images, diagrams, illustrations or even block of text
- `\includegraphics{image.jpg}` - To include external files eg. images
- `\caption{Eg. This is an image}` - To indicate a caption

Formatting the image

- `\includegraphics[height=200pt, width=100pt]{image.jpg}` - Including a figure and specifying the height and width
- `\begin{figure}[!t]` ... `\end{figure}` - Place the image at the top of the page
- `\begin{figure}[!b]` ... `\end{figure}` - Place the image at the bottom of the page
- `\begin{figure}[!here]` ... `\end{figure}` - Place the image at the exact place of the editor (h means here)
- `\subfigure{\includegraphics{image.jpg}}` - To add a subimage or a subfigure
- `\subfigure[This is a subcaption]{\includegraphics{image.jpg}}` - To add a sub caption to a figure