

LaTeX Workshop

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1 Downloading LaTeX and Texmaker

Here is a YouTube video on how to download LaTeX on your PC:

<https://www.youtube.com/watch?v=renGS9t0jhc>

To download Texmaker, follow the following link:

<http://www.xmlmath.net/texmaker/download.html>

2 Author, Title and Date

`\title{INCLUDE TITLE HERE}`

`\author{INCLUDE AUTHOR HERE}`

`\date{INCLUDE DATE HERE}`

3 Abstracts

`\begin{abstract}`

INCLUDE YOUR ABSTRACT HERE

`\end{abstract}`

4 Sectioning

Here are the commands you can use to add sections to your paper:

For sections, use the command: `\section{TITLE HERE}`

For subsections, use the command: `\subsection{TITLE HERE}`

For sections within subsections, use the command: `\subsubsection{TITLE HERE}`

5 Basic Formatting Commands

5.1 Fonts

To use a basic font like Times New Roman, add the following line to the packages:

```
\usepackage{times}
```

For other fonts, add the following lines to the comment:

```
\usepackage{tgbonum}  
\usepackage{NAME OF FONT FROM DIRECTORY}
```

The types and packages of the fonts supported by LaTeX can be found at the following link:

https://www.sharelatex.com/learn/Font_typefaces#Changing_default_font_typeface

5.2 Font Size

tiny
scriptsize
footnotesize
small
normalsize
large
Large
LARGE
huge
Huge

To change font size, use the following command line:

```
\small
```

The value of the command can be chosen from the list to the left.

5.3 Italics, Boldface and Underlining

For italics, use one of these commands: `{\textit{text here}}`, `{\emph{text here}}`

For boldface, use one of the following commands: `{\bf{text here}}`, `{\textbf{ text here}}`

For underlining, use the command: `{\underline{text here}}`

5.4 Strike-Through

To strike through a text, use the command: `\st{text here}`

Note that this command requires a special package, so you need to add `\usepackage{soul}` to the packages of the file.

5.5 Superscript and Subscripts

For subscripts, use `\textsubscript{text here}`, `_{}`

For superscripts, use `text here`, `^{}`

5.6 Text Alignment

Here are the commands to change the alignment of the text:

1- For left alignment:

```
\begin{flushleft}  
    TEXT HERE  
\end{flushleft}
```

2-For Center alignment:

```
\begin{center}  
    TEXT HERE  
\end{center}
```

3-For right alignment:

```
\begin{flushright}  
    TEXT HERE  
\end{flushright}
```

5.7 Spacing and Page Boundaries

To change the spacing of the document, add the following command to the packages, before the beginning of the document:

```
\linespread{1}    for single-spacing  
\linespread{1.15} for 1.15-spacing  
\linespread{1.5}  for 1.5-spacing  
\linespread{2}    for double-spacing
```

To move to a new page, use:

```
\newpage
```

6 Referencing

6.1 Examples

For numbering examples, use the following:

```
\begin{exe}  
  
\ex INCLUDE EXAMPLE HERE  
  
\end{exe}
```

6.2 Cross-References

To refer to a section, table, figure, or example, you can link the reference to the item you would like to refer to by including `\ref{label}` in the body of the text, and giving the same label to the object by including `\label{label}`.

6.3 Footnotes

Use the following command for footnotes:

```
\footnote{INCLUDE TEXT HERE}
```

6.4 Endnotes

To turn footnotes into endnotes, add the following commands to the packages:

```
\usepackage{endnotes}  
\let\footnote=\endnote
```

And add this line to the body of the text wherever you want the endnotes to appear:

```
\theendnotes
```

7 Inserting Figures

To include a picture add `\includepackage{graphicx}` to the packages and include the following command in the body of the text:

```
\includegraphics[scale=1]{NameOfPicture}
```

8 Inserting Tables

Here is a website that helps you build a table template:

<https://www.tablesgenerator.com/>

Here is a sample table code:

```
\begin{table}[]  
  \centering  
  \caption{My caption}  
  \label{my-label}  
  \begin{tabular}{|l|l|l|l|}  
    \hline  
    & & & \\\hline  
    & & & \\\hline  
    & & & \\\hline  
    & & & \\\hline  
  \end{tabular}  
\end{table}
```

9 Page Margins

To change the margins of the page, add the following to the packages:

```
\usepackage{geometry}  
\geometry{margin=1in}
```

10 Table of Contents

Add the following line to the body of text to include a table of contents:

`\tableofcontents`

11 Creating a Bibliography

Here is a link that helps in creating bibliography entries that are compatible with BibTeX:

<http://truben.no/latex/bibtex/>

12 Using BibTeX for Citations

- To cite using BibTeX, add the following package:

`\usepackage{natbib}`

- Add the following lines before the end of the document:

`\bibliographystyle{NAME OF STYLE}`
`\bibliography{NAME OF BIB FILE}`

- BibTeX supports many bibliography styles, one of which is the APA style.

- Note that you must have the style file saved in the same directory of the LaTeX file you are working on.

Here are the citation commands of natbib package:

`\citel : Johnson (1993)`
`\citep: (Johnson 1993)`
`\citealp: Johnson 1993`
`\citeyear: It outputs the year of publication without the name of the author`

Each reference stored in the .bib file must have a label. This label should be called in the citation command. Here is the structure of citation commands:

`\citel{LABEL OF REFERENCE}`

Here is a link to a short guide to using BibTeX:

<https://www.economics.utoronto.ca/osborne/latex/BIBTEX.HTM>

Here is a link to the styles supported by BibTeX:

https://www.sharelatex.com/learn/Bibtex_bibliography_styles

13 Research Papers in Arabic

Here is a link on how to use LaTeX for Arabic:

<https://www.sharelatex.com/learn/Arabic>

14 Resources

Here are some helpful links:

1. LaTeX Tutorials: <https://www.latex-tutorial.com/tutorials/>
2. Creating your first LaTeX document: https://www.sharelatex.com/learn/Creating_a_document_in_LaTeX