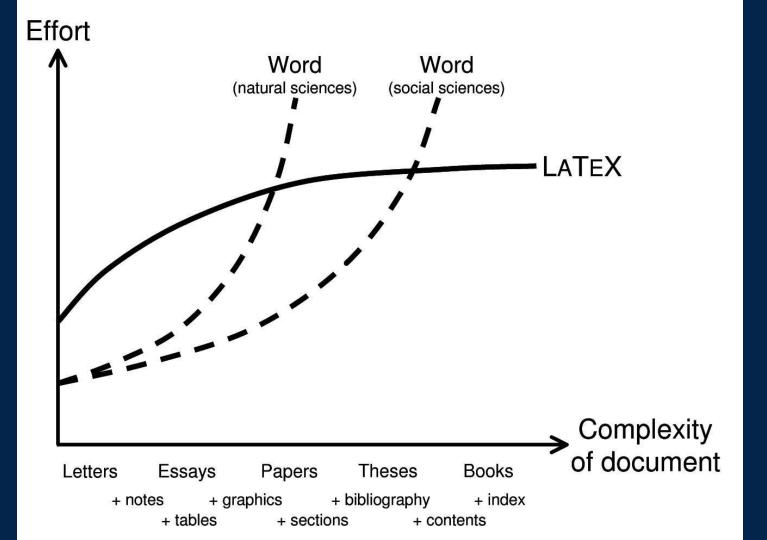
DAY_1



Why LaTeX





Pronunciation

Pronunciation

Lay-teks

Pronunciation

Lay-teks

false

Lay-tek Lah-tek

Pronunciation

Lay-teks

ay-u false

Lay-tek
Lah-tek
true

Pronunciation

1 Lay-teks

false

LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation.

What is LaTeX?

The LaTeX system is a markup language that handles typesetting and rendering, and can be arbitrarily extended.

























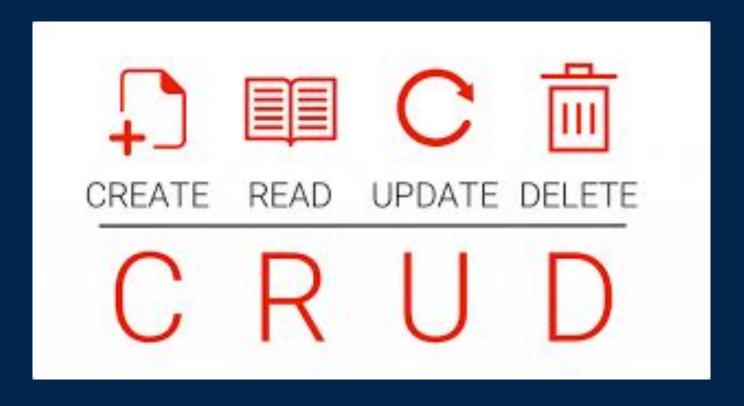
- → Intuitive Writing Platform
- → Nothing to install
- → Error Handling
- → Simple Online Collaboration
- → Link Sharing
- → Over 6000 templates

Tools/Softwares



https://www.overleaf.com/

Basics to Know in any software tool

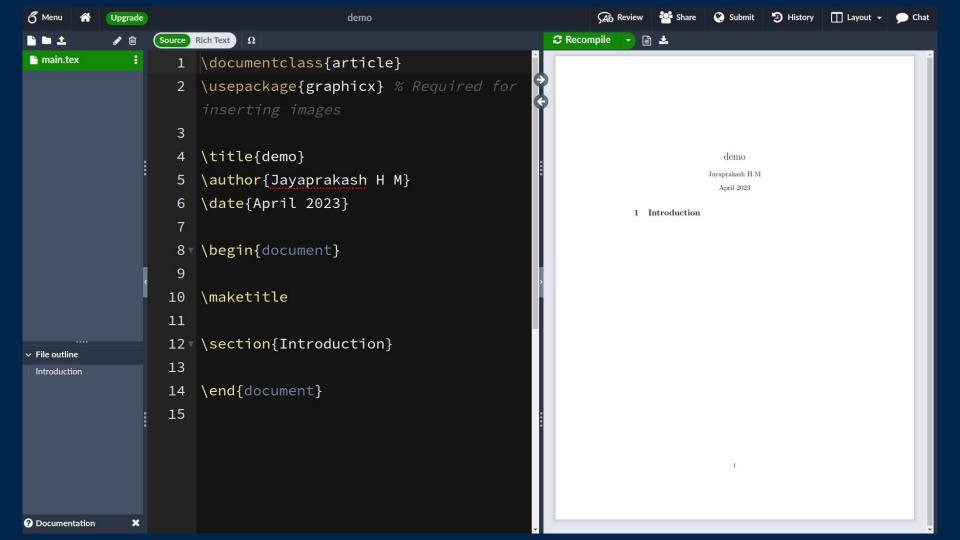


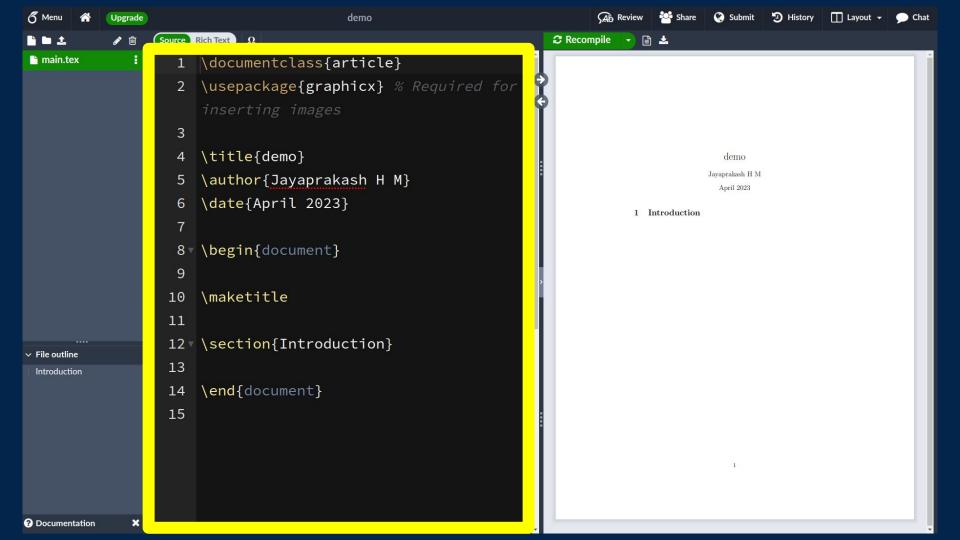
Workflow

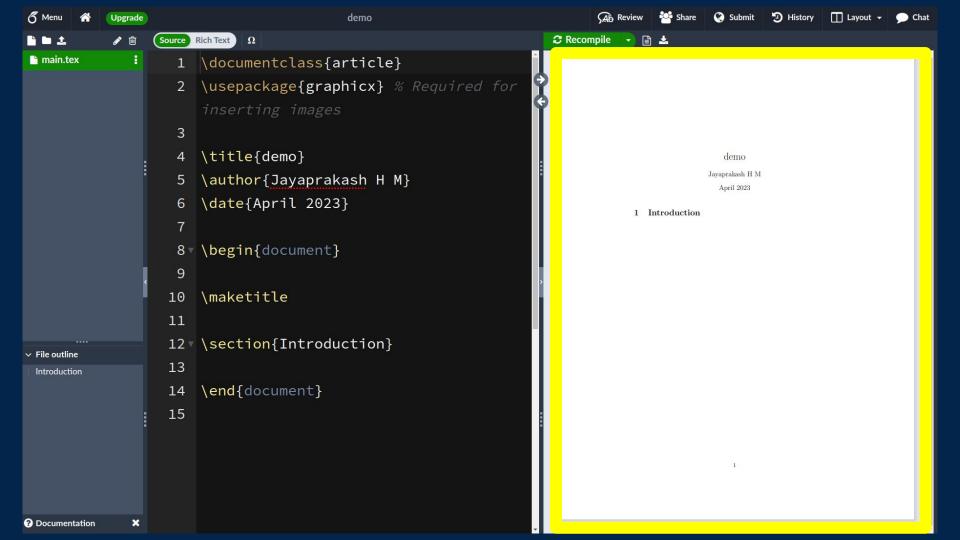


https://www.overleaf.com/

Let's look at overleaf.com







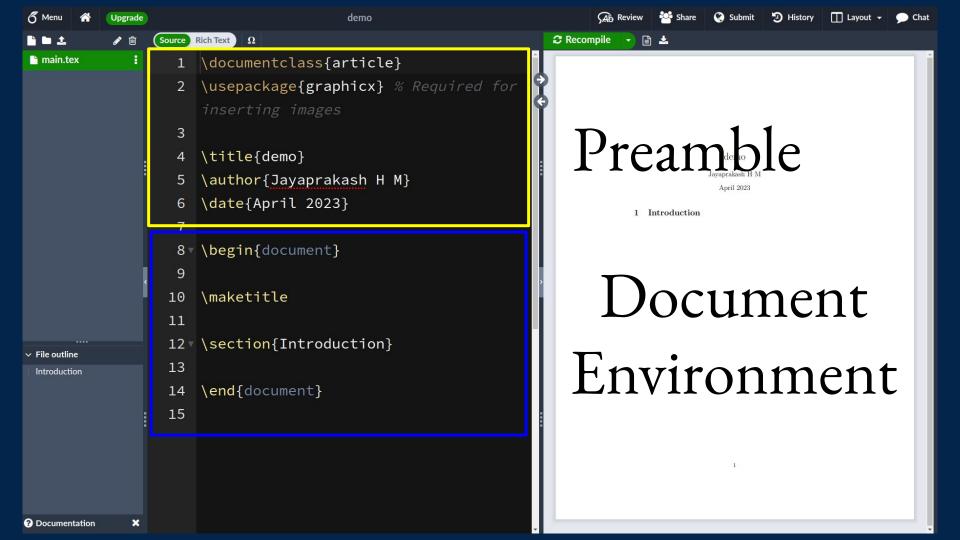
TeX
Code of LaTeX
document

.tex

Exporting

PDF
To Read PDF

.pdf

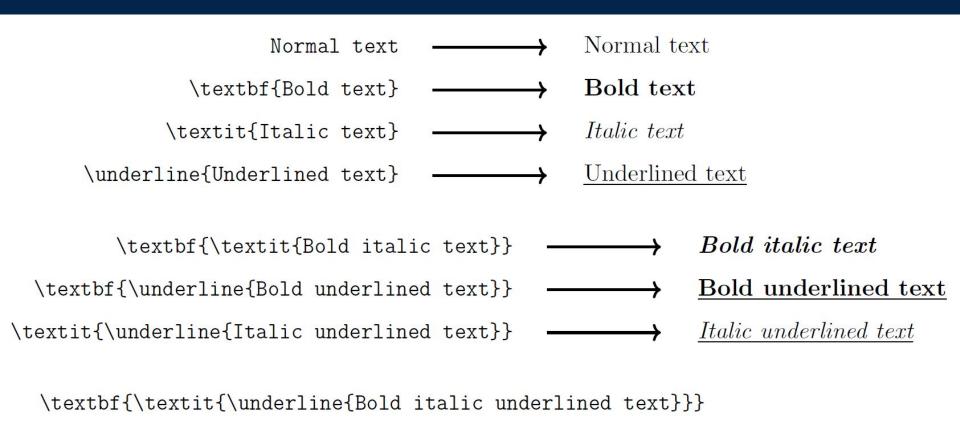


Basic Text
Manipulation

Font Size

	Default		
Command	10-point	11-point	12-point
\tiny	5-point	6-point	6-point
\scriptsize	7-point	8-point	8-point
\footnotesize	8-point	9-point	10-point
\normalsize	10-point	11-point	12-point
\large	12-point	12-point	14-point
\Large	14-point	14-point	17-point
\LARGE	17-point	17-point	20-point
\huge	20-point	20-point	25-point
\Huge	25-point	25-point	25-point

Font Style



Bold italic underlined text

Text Underline

\underline{Text}

Imagine the lines represent the margins of a paper. LATEX normally wraps text to fit the page as best it can.

However, underlining text can cause LATEX to get confused, which leads to poor spacing and text-wrapping decisions.

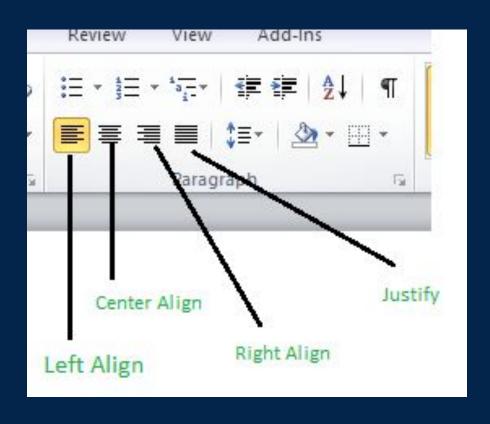
Aside from creating strange spacing, it will also not break long lines of text.

 $\usepackage{ulem} \longrightarrow \uline{Text}$

The ulem package fixes the text-wrapping and spacing issues. This is useful for long strings of underlined text.

Text Justification

Text Justification / Alignment



Fully Justified Text (Default)

Fully justified text is spaced out so that it stretches to fill the entire width of the page. Notice that the left and right margins are perfectly straight.

Left Justified Text

\begin{flushleft} ... \end{flushleft}

Left justified text is aligned with the left margin. The spacing between the words is not stretched out, which leads to a ragged margin on the right. Center Justified Text

\begin{center} ... \end{center}

Center justified text is aligned down the center of the page. The spacing between the words is not stretched out, which leads to ragged margins on the left and right.

Right Justified Text

\begin{flushright} ... \end{flushright}

Right justified text is aligned with the right margin. The spacing between the words is not stretched out, which leads to a ragged margin on the left.

Line Breaks

This is a line of text. \\
This is another line of text. \\[\baselineskip]
This is yet another line of text. \\[2\baselineskip]
This is the last line of text.

This is the last line of text.				
Left Justified	Center Justified	Right Justified		
This is a line of text. This is another line of text. This is yet another line of text.	This is a line of text. This is another line of text. This is yet another line of text.	This is a line of text. This is another line of text. This is yet another line of text.		

This is the last line of text.

This is the last line of text.

This is the last line of text.

Units used in LaTeX

LATEX Units of Length

in inches
cm centimeters
mm millimeters
pt points - about 1/72 of an inch
em about the width of an m
ex about the height of an x

Basic Math Manipulation