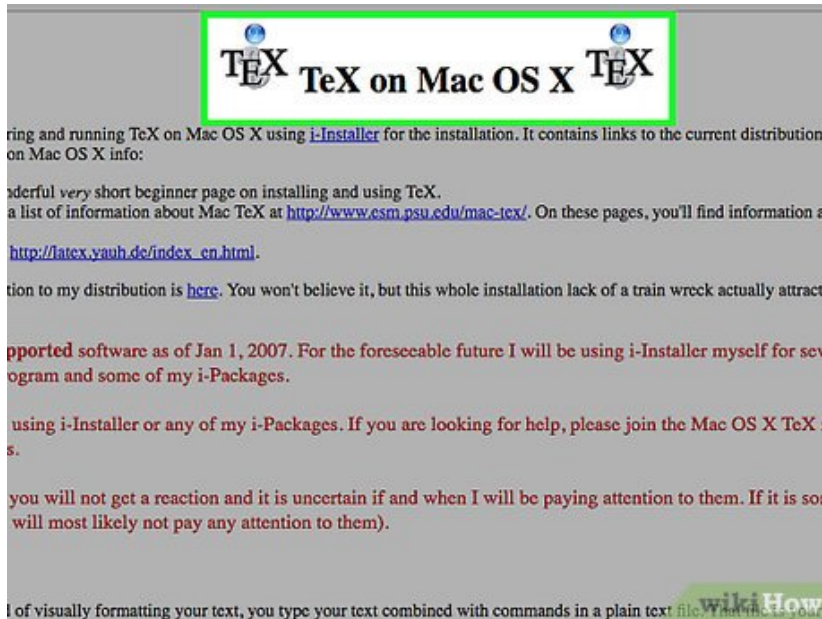


How to Use LaTeX for Text Formatting

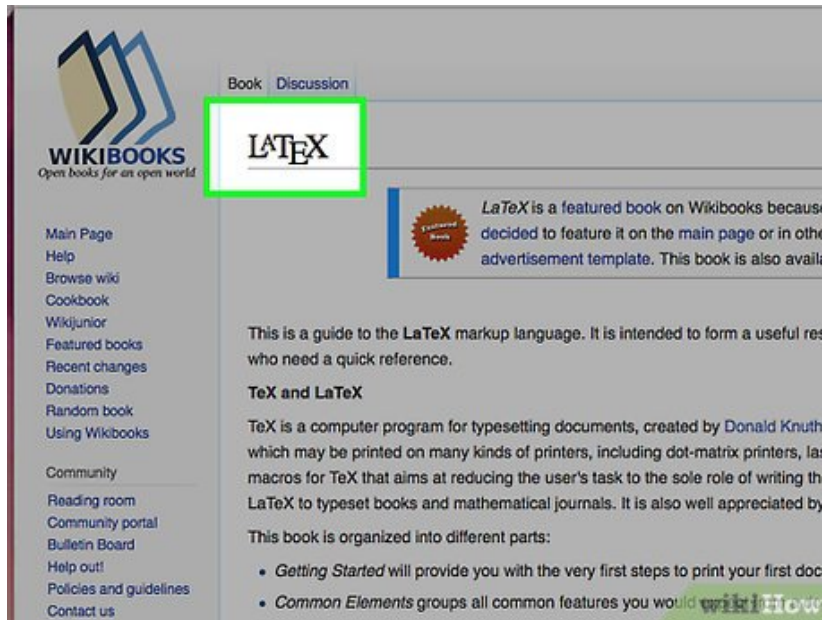
LaTeX (pronounced lay-tek or lah-tek) is a typesetting software primarily used to typeset documents containing a lot of math. It's widely used throughout the academic world to publish technical journals or books, but has more applications...

Steps



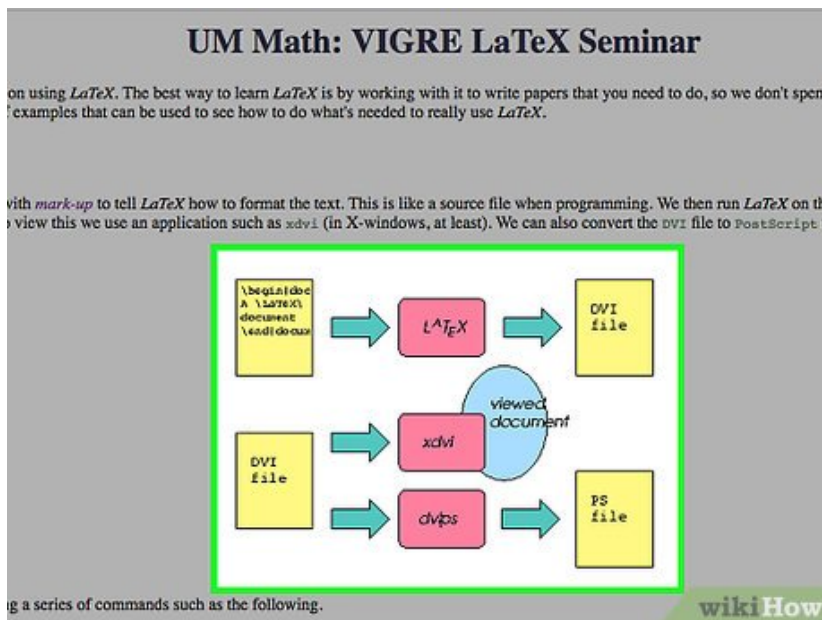
Install a LaTeX distribution. First of all, using LaTeX is free. There is no need to buy a program, since a myriad of tools are available as free downloads. The choice of an editor is a matter of personal preference and your operating system. If you're using a PC, you probably want to install MikTeX as a beginner, as it provides you with everything you need out of the box. The editor you use depends on your computer's operating system. As a GNU/Linux user, you will probably find the texlive package in your repository and you can easily install it through your distribution's package manager. Also for Mac/OSX there are several tools available. One of them is gWTeX. If you want to get started right away, you can also try using an online editor for LaTeX such as writelatex.com.

2.

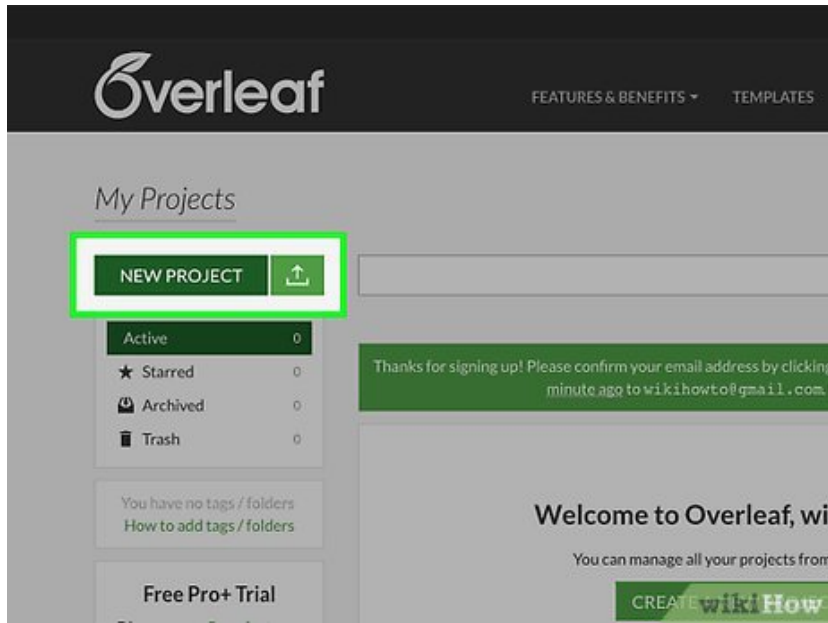


Find a tutorial. By querying the search engine of your choice for tutorials, you can choose from plenty of tutorials on the internet. There are offline tutorials available as PDF such as The (Not So) Short Introduction to LaTeX2e, plain text tutorials from many universities (e.g. A Tutorial from Cornell or David Wilkins's Primer). For more detailed documentation, you can refer to LaTeX in Wikibooks.

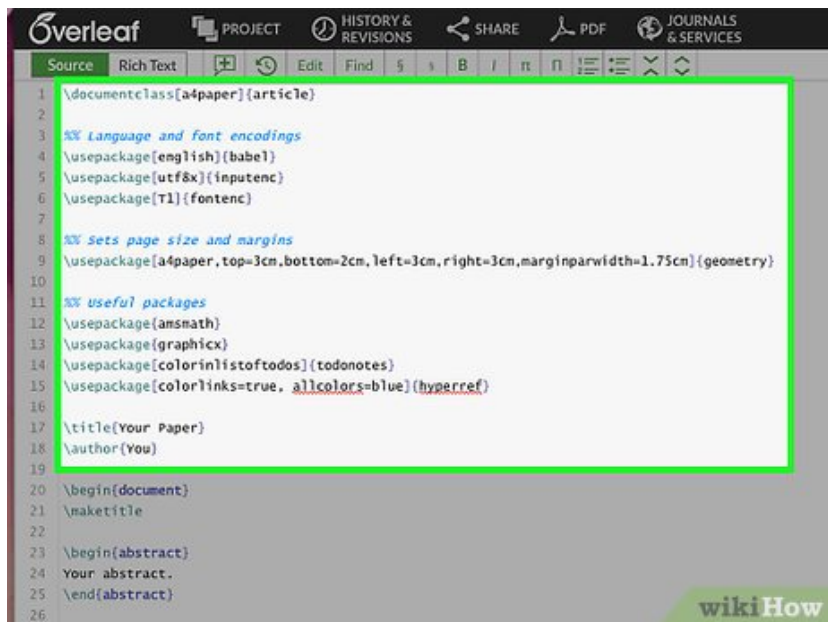
3.



Find an example document similar to the document you want to write. For example, a PH.D. dissertation written in LaTeX may be a set of files or a single file. The file with the '.tex' extension will be the one containing the actual document. Example documents can be found at these useful sites: IIT Bombay, Univ. of Michigan, and many more.



Build the document. What the LaTeX software does is convert a text file (written in its markup language) into a document. This can be a cumbersome step. Once the first build is finished the rest are easy.



Modify the document to suit your needs. Once the template has been built, it is not difficult to modify it to suit your needs.

Information on LaTeX

These are packages, fonts, and other files that I have created for use with TeX and LaTeX and that others might find useful.

- ✓ A survey of free math fonts for TeX and LaTeX, which also appeared as an article in [PracTeX](#) and the German journal [TeX](#), and as an excellent [LaTeX Font Catalogue](#) which focuses more on free text fonts for LaTeX.
- ✓ Millennial is designed to be a math accompaniment to New Century Schoolbook. Here is a test of the [charcar](#) font. Update 20110819: Initial public release of Millennial ([download](#)).

Theorem 1 (Residue Theorem). Let f be analytic in the region G except for a finite number of singularities a_1, a_2, \dots, a_m . If γ is a closed rectifiable curve in G which does not pass through any of the points a_k and if $\gamma \approx 0$ in G then

$$\frac{1}{2\pi i} \int_{\gamma} f = \sum_{k=1}^m n(\gamma; a_k) \text{Res}(f; a_k).$$

Theorem 2 (Maximum Modulus). Let G be a bounded open set in the complex plane and let f be a continuous function on \bar{G} which is analytic in G . Then

$$\max\{|f(z)| : z \in \bar{G}\} = \max\{|f(z)| : z \in \partial G\}.$$

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wikiHow

6.

Maintain an organized list of links with information on LaTeX. LaTeX is a sophisticated software package and the possibilities are endless. Some sites may treat many aspects of LaTeX, some only a few specific ones.

You finished reading the article "**How to Use LaTeX for Text Formatting**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.