

How to L^AT_EX

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June 3, 2020

1 The Basics

Time to get groovin'.

- L^AT_EX introduction (start here!) Link: [L^AT_EX Introduction from Overleaf](#)
- Where to L^AT_EX? In my experience, Overleaf (free, online) and TexMaker (free, offline/Windows) are my favorites, but here's a massive list. Link: [Stackexchange L^AT_EX editors list](#)
- It's dangerous to go alone. Take this! It's my favorite L^AT_EX cheatsheet in PDF form. Link: [L^AT_EX2e cheat sheet from NYU](#)
- Need a symbol and can't find it? Try using handwriting recognition. Link: [Detexify, Kire Labs](#)
- The unofficial L^AT_EX 2e manual. For reference only, not required reading. Link: [Unofficial L^AT_EX2e manual PDF](#)
- The "not so short" L^AT_EX manual. Suggested reading. Est. 2hrs. Link: [The Not So Short Guide To L^AT_EX2e PDF](#)
- Good (but small) list of math symbols for L^AT_EX. Link: [Rice.edu list of useful L^AT_EX math symbols PDF](#)

2 Typical Document Features

- Guide to using L^AT_EX environments. Link: [Overleaf Environments Article](#)
- L^AT_EX table creator. It's very annoying to type tables and matrices by hand. Use this. Link: [Tablesgenerator.com L^AT_EX table generator](#)
- How to insert figures and images into your document. Link: [Overleaf figures article](#)
- PDF links make every document look super tech-savvy. [latex-tutorial.com's](#) guide to clickable links in LaTeX
- Bibliography and references. Link: [Overleaf bibliography article](#)

3 Stuff That Makes \LaTeX Superior To Word

- The math typesetting.
- Advanced \LaTeX tricks for super amazing documents. Link: [Brown.edu Advanced Latex PDF](#)
- The AMSMath package is super useful. Here's the manual. Link: [AMS-Math manual PDF](#)
- Very specific spacing in math. Link: [Overleaf article on spacing symbols](#)
- PSTricks for advanced plotting and diagrams. Very time consuming, but worthwhile. Link 1: [tug.org PSTricks homepage](#), with loads of breathtaking examples. Link 2: \LaTeX wikibooks PSTricks wiki page, with basic commands.
- Downloading extra packages from CTAN on a local device for extended functionality. Link: [latex.simaril.ie CTAN tutorial](#)
- All the CTAN packages and what they can do. Click the letters up top and browse for a bit. Link: [CTAN packages](#)

4 Easter Eggs

- The halloweenmath package lets you put ghost, pumpkin, and witch symbols in your math. The application of such a package is obvious, and left as an exercise to the reader. Link: [The halloweenmath package manual PDF](#)
- Finally, automatic coffee stains for math papers! Hanno-rein.de (the creator's site) on the coffee stain package, with example PDF
- List of fun packages. Link: [Stackexchange user compiled list of fun packages](#)
- \LaTeX tricks. Link: [latexstudio.net misunderstood or underused \$\text{\LaTeX}\$ tricks](#).
- The comprehensive \LaTeX symbol list contains some cool stuff. Link: [CTAN hosted PDF of all \$\text{\LaTeX}\$ symbols](#).