How to Vim up your LATEX

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This is Vim



Figure: Vim



What is Vim?

Introduction 0•0

Vim is hard



How do you generate a random string? Put a web designer in front of VIM and tell him to save and exit.



This is Vim

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What is Vim?

- Vim = Vi improved, it is an improvment over the old editor Vi
- It does have three modes normal, visual and insert
- It does have a really hard learning curve, but it is worth it!
- Configure it with the vimrc file



Requirements

What do we need?

Please keep in mind: those are only my recommendations. There are various other possibilities.

- An Unix like operating system. For running Vim natively.
- vim-latex, the LATEX plugin.
- A PDF reader which supports PDF-TeX Sync. You can use Skim for example.
- gVim



Compiling with Vim

Compile

The fastest way to this is to use one of many vim-latex shortcuts

- \II . . . two lower case L
- You can also set compilation rules. Either with menu TeX-Suit or with the command g:Tex_CompileRule_<format>
- Take a look here: http://vim-latex.sourceforge.net/documentation/latex-suite/
 - compiler-rules.html



Use the Power of Vim to navigate through your code

- Just use the normal Vim commands to move around.
- h . . . left
- j . . . down
- k . . . up
- I . . . right

Those letters may seem arbitary, but just take a look at your keyboard ³



vim-latex uses jump points. Everytime you generate something with vim-latex it creates those points. It may be disturbing at the beginning, since you are getting used to it, it becomes really handy

- You can jump there in normal mode or even the insert mode.
- The shortcut is CTRL + i

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Jump Points

Navigating Code

```
\begin { figure }[<+htpb+>]
  \centering
  \includegraphics {<+file+>}
  \caption {<+caption text+>}
  \label { fig:<+label+>}
  \end { figure }<++>
```

Listing 1: Jump Points

A List of handy Shortcuts

Just type them in, they even work directly in the insert mode.

- SSE for section
- SSS for subsection
- more section mappings can be found here: http://vim-latex.sourceforge.net/documentation/latex-suite/ section-mappings.html
- EFI for images
- All mappings can be found here: http://vim-latex.sourceforge.net/documentation/latex-suite.html



Setup

Recommended Setup

- gVim
- Vundle
- Skim
- vim-latex

Installation

Installation Steps

- Install gVim
- Setup Vundle
- **3** Edit your .vimrc file
- Install vim-latex
- 5 Start working



\sim /.vimrc

```
58 Plugin 'bling/vim-airline
60 " Nerd tree comander
61 Plugin 'scrooloose/nerdtree'
 62 * autocmd vimenter * NERDTree
 66 " vim-latex
 65 Plugin 'vim-latex/vim-latex'
67 ° for creating a latex file, the plugin does not open when it is plain
68 " let g:tex_flavor = "plain"

59 " let g:tex_flavor = "context"

70 let g:tex_flavor = "latex"
 73 Plugin 'ervandew/supertab'
 75 ° c lang
76 Plugin 'c.vim'
78 ° c formatting
79 ° Plugin 'rhysd/vim-clang-format'
81 * autoformatting
82 Plugin 'Chiel92/vim-autoformat'
83 let g:python3_host_prog='/usr/bin/python'
85 * aformat
86 | lugin 'datsuns/astyle.vim'
                                                                                    vin [unix] 188% ln 86/86 : : 1 1 [17]
    anal .vince
```

Figure: vimrc



Download the Complete Guide

- You can find a complete installation guide in the paper on Github.
- https://github.com/x21L/vim-up-your-latex

- Really fast
- Great UI
- Extremly customizable
- Nearlly unlimited possibilities
- \blacksquare Versioning vimrc files with git \to same config on different systems



TeXstudio over Vim

Cons

- Feature rich
- Easy to use
- Download and go
- Runs easily on every major system

Alternatives to vim-latex

- vimtex
- Just Vim with latexmk
- latex-box
- Take a look at https://vimawesome.com/?q=latex

- https://github.com/x21L/vim-up-your-latex
- You can also find an A4 version of the slides there.
- You can exit and save with :wq



Demo Time







Figure: Questions

Live Demo