

# Putting together the perfect terminal experience tmux

The relatively short version

### Who am I?



- Aspiring Speakers Group member #1
- I have a cute accent
- I spend a lot of time using the terminal
- Principal Developer at Comply Advantage
- Disclaimer: Nothing that I say or do has anything to do with my employer:

## Comply Advantage

But we are hiring https://complyadvantage.com/careers/

### Motivation

- I'm a IntelliJ IDEA kind of person
- Keyboard shortcuts are
- Thanks to the whole DevOps movement I'm expending more and more time using the terminal
- Old school SysAds surely can do a lot in the terminal
- Can I become more productive with the terminal?



https://www.youtube.com/watch?v=41CC-F6KRP8

## So, what's the "perfect" terminal experience?

#### It's up to you. My wishlist:

- Terminal doesn't get in my way
- Fast
- Low energy consumption
- Syntax highlighting and autocompletion
- I can quickly find files, commands, etc
- Term can handle context switching
- It remembers what I was doing 3 days ago so that I don't have to do it

#### And it looks like this:

## Let's get something out of the way

- I will be using Ubuntu Today
- This is not a talk for Linux Gurus
- The OS itself isn't as important as you may think
- I'll be using a terminal emulator called kitty: https://sw.kovidgoyal.net/kitty/
- Your choice of terminal emulator is important
- Pick one that:
  - Is GPU Accelerated
  - Has a Quake / drop-down mode
  - Has good font support (including ligatures)



## Eye Candy:

#### **Fonts**

- You want a Monospaced font
- At least Powerline Glyphs
- Optional: Font ligatures
- Pick one from https://www.nerdfonts.com/:
  - JetBrains Mono
  - Cascadia Code
  - Fira Code
  - Meslo
  - Source Code Pro / Hasklig
  - Ubuntu Mono

#### Colours

- Pick a colour scheme that doesn't make your eyes bleed
- I don't have a lot of imagination, so I keep coming back to my own patched version of <u>Solarized</u> Dark
- A few other suggestions:
  - Base16 schemes: https://github.com/chriskempson/base 16
  - Dracula
  - Gruvbox
  - Monokai
  - PaperColor





## Shell



- <u>Bash</u> is great, <u>Zsh</u> is even better
- Install a recent version and make it default:
  chsh -s \$(which zsh)
- Notable features:
  - Smart tab completion
  - History filter with up arrow
  - case / typo correction
  - \*\* expansion
  - Glob Qualifiers: Is \*(m-7)

## Framework / Plugin Managers

- Extract even more from zsh with a collection of plugins and themes. Use Oh My Zsh
- Install Oh My Zsh and start enjoying extra functionality out of the box:
  - Easier nagivation:
    - .., ..., ....
    - No need to type cd
    - Partial path matching
  - New commands / alias by default such as:
    - d / cd -N
    - rd
    - take

- Install custom plugin sand edit your
  .zshrc file to enable / disable plugins
  - zsh-autosuggestions
  - zsh-syntax-highlighting
  - Z
  - web-search
- If you are using too many plugins and your shell is taking a while to start, have a look at a plugin manager able to load plugins asynchronously (such as Zinit)

## A powerful / lightweight / flexible theme

- <u>Powerlevel10K</u> is my favourite theme
- Notable features:
  - Make it look the way you want
  - Fast (and can also make zsh plugins load faster)
  - Transient Prompt
  - Enable and Disable "Segments"



## Terminal Multiplexer

• Tmux for the win!



- Create, use and manage multiple sessions, windows and panes
- Nest Tmux inside Tmux
- Tmux + SSH = Don't lose your work
- Customize and install plugins (<u>TPM</u> strongly recommended)



## Fuzzy Find all the things



- Find what you need with <u>fzf</u>
- A standalone command that integrates with what you have
- \*\* expansion
- Integrates by default with commands such as kubectlx, kubens, etc
- Shortcuts:
  - CTRL+T to search files
  - CTRL+R to search history
  - ALT+C cd into directory

### Honourable mentions:

- asdf: nvm + pyenv+ rbenv +
   SDKMAN + ... . Install and manage
   versions for all your cli tools. Go
   watch my talk ⇒
- <u>bat</u>: "better" cat with syntax highlighting, Git Integration, automatic paging, etc
- <u>fd</u>: "better", faster, saner alternative to find written in Rust
- <u>ripgrep</u>: "better", faster", saner alternative to grep written in Rust



https://www.youtube.com/watch?v=6N NbqDTSFDo&t=646s

## Oh, by the Way

- I avoid text editors as much as I can but...
- When I need an editor I use neovim:



- Getting all of this to work can take some time
- It's a hobby like any other
- Make sure to keep your files in version control
- Take some time to steal ideas from get inspired by other people's dotfile repositories.

• ... and <u>vim-plug</u>





## Questions?







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