

# computing\_tools

#AM129

## Terminal things

### tmux

tmux allows you to manage multiple terminal windows efficiently. It is also useful when connected to a remote machine since it will persist your shell even if you accidentally get disconnected from the remote.

Here is my tmux config file:

```
# tmux config file for my personal computers

# remap prefix from 'C-b' to 'C-l'
unbind C-b
set-option -g prefix C-j
bind-key C-j send-prefix

# easier movement between panes
bind C-h select-pane -L
bind C-l select-pane -R
bind C-j select-pane -D
bind C-k select-pane -U

# always prompt for window name when creating new window
bind-key c command-prompt -p "window name:" "new-window; rename-window '%%'"

# make it so scrolling with the mouse actually scrolls
setw -g mouse on

# List of plugins
set -g @plugin 'tmux-plugins/tpm'
set -g @plugin 'tmux-plugins/tmux-sensible'
set -g @plugin 'tmux-plugins/tmux-resurrect'

# Other examples:
# set -g @plugin 'github_username/plugin_name'
# set -g @plugin 'github_username/plugin_name#branch'
# set -g @plugin 'git@github.com:user/plugin'
# set -g @plugin 'git@bitbucket.com:user/plugin'

# Initialize TMUX plugin manager (keep this line at the very bottom of tmux.conf)
```

```
# install instructions: https://github.com/tmux-plugins/tpm
run '~/config/tmux/plugins/tpm/tpm'
```

## Oh My Zsh

Makes your terminal look a lot nicer.

## iterm2

Better terminal emulator for macOS

## foot

Good terminal emulator for Linux

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# text editors

## vim

No link to this one because it is already on your computer. Learn how to use it with the `vimtutor` command. I use vim to open and edit files quickly. Here is my vim config file.

```
" turn relative line numbers on and
" normal line number on to achieve hybrid line numbers
" :set number relativenumber
:set number
" ignore case when searching
:set ic

:set autochdir

" remap kj to esc when in insert mode
imap kj <Esc>

" remap C-e to go to end of line when in insert mode
imap <C-e> <Esc>${i}<Right>
" remap C-a to go to the beginning of line when in insert mode
imap <C-a> <Esc>_i
" remap C-f to <Right> when in insert mode
imap <C-f> <Right>
" remap C-b to <Left> when in insert mode
imap <C-b> <Left>
```

```

" remap M-b to move left a word when in insert mode
imap b <Esc>bi
" remap M-f to move right a word when in insert mode
imap f <Esc>ea

" Use a line cursor within insert mode and a block cursor everywhere else.
"
" Reference chart of values:
" Ps = 0 -> blinking block.
" Ps = 1 -> blinking block (default).
" Ps = 2 -> steady block.
" Ps = 3 -> blinking underline.
" Ps = 4 -> steady underline.
" Ps = 5 -> blinking bar (xterm).
" Ps = 6 -> steady bar (xterm).
let &t_SI = "\e[6 q"
let &t_EI = "\e[2 q"

```

## neovim

Essentially modernized vim.

## emacs

Although I use VS Code for most (but not all) of my programming these days, emacs will always have a special place in my heart. I also still find emacs useful quite often. For example, I usually write LaTeX documents in emacs. I won't include my emacs config here because it is way too long. Here is a good basic config though:

```

;; -----
;; Don't show startup screen
;; -----
(setq inhibit-startup-screen t)

;; -----
;; get rid of menu bar
;; -----
(tool-bar-mode -1)

;; -----
;; Turning off the bell noise
;; and using a visual alert instead
;; -----
(setq visible-bell t)

;; -----

```

```

;; stop emacs from saving backups
;; everywhere
;; -----
(setq
  backup-by-copying t      ; don't clobber symlinks
  backup-directory-alist
    '(("." . "~/emacs.d/backups")) ; don't litter my fs tree
  delete-old-versions t
  kept-new-versions 6
  kept-old-versions 2
  version-control t)      ; use versioned backups

;; -----
;; use a certain major mode for certain files
;; -----
(add-to-list 'auto-mode-alist '(("\\.emacs\\\\" . emacs-lisp-mode))
(add-to-list 'auto-mode-alist '(("\\.zshrc\\\\" . shell-script-mode))
(add-to-list 'auto-mode-alist '(("\\.bashrc\\\\" . shell-script-mode))

;; -----
;; Making line and column numbers display
;; -----
(when (version<= "26.0.50" emacs-version )
  (global-display-line-numbers-mode))
(setq column-number-mode t)

;; -----
;; make searches case insensitive
;; -----i-----
(setq case-fold-search t)

;; -----
;; scrolling
;; -----
(setq scroll-step 1) ;; keyboard scroll one line at a time

```

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## other stuff

### [pyenv](#)

The best way manage python versions and packages on macOS and Linux in my opinion.

### [lazygit](#)

Makes using git from the command line faster and easier.

## fzf

Highly extensible command line fuzzy finder.