nvim

The Rise and Fall of the Modal Editor and the Spiders from Mars

why neovim

- Universal
- Productivity



let's jump into it

- sudo apt install neovim
- https://raw.githubusercontent.com/biosustain/lost_semester/48ac9fc0e1766af2f062
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- Grab the config and put it in:
 - o ~/.config/nvim/init.lua
 - o ~/AppData/Local/nvim/init.vim
 - Wherever \$XDG_CONFIG_HOME/nvim/init.lua
- nvim -c Tutor

Tutor time (25 min)

•••

nvim -c Tutor

configuring nvim

- init.lua
- init.nvim
- .vimrc
- Let's go back to check out our config.

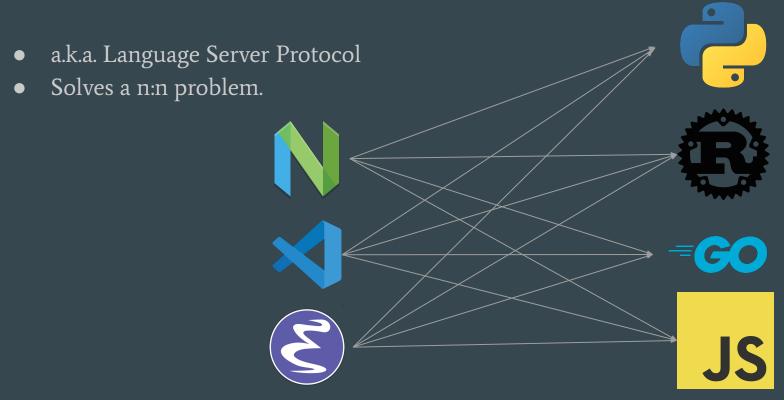
plugins with Packer

- Grab EVERYTHING from
 https://github.com/biosustain/lost_semester/tree/56d71da1fe6379df61467e5626c45
 b122f865835/nvim
- : PackerInstall, : PackerUpdate, : PackerClean

Install a colorscheme (5 min)

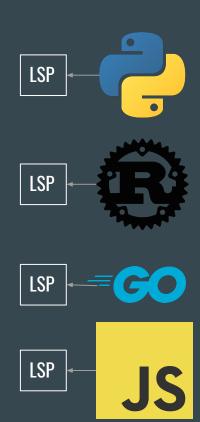
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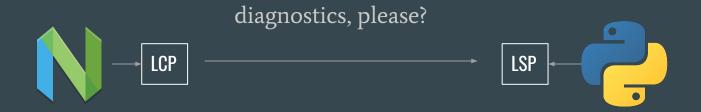
use "author/plugin"



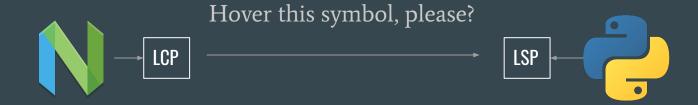
- a.k.a. Language Server Protocol
- Solves a n:n problem
- To 1:n problem



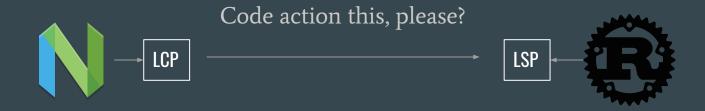














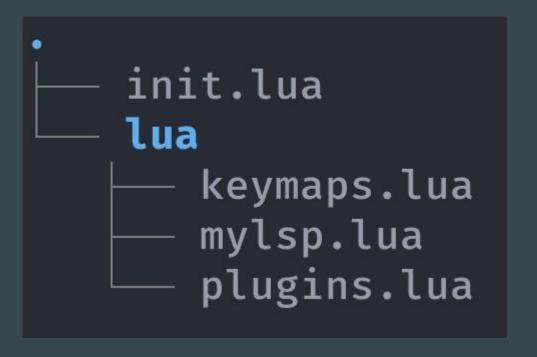
pip install 'python-language-server[all]'

pylsp (if lost, maybe check

https://github.com/biosustain/lost_semester/tree/4a353528984ec00e8ff1b0ebf49e3a50e6daf8ae/nvim)

refactor: things are getting messy!

- Split the config into files
- require("keymaps")



Latex

- texlab: https://github.com/latex-lsp/texlab/releases/tag/v4.3.0
- Latex distribution: https://tectonic-typesetting.github.io/en-US/install.html
- texlab LSP commit: <u>https://github.com/biosustain/lost_semester/blob/master/nvim/lua/mylsp.lua</u>
- With completion commit:
 https://github.com/biosustain/lost_semester/commit/94fcc41220df67b357c5cle623
 39e0da64a36196

treesitter

- Incremental
- AST
- Like LSP but for syntax trees

```
function_definition [0, 0] - [3, 12]
  name: identifier [0, 4] - [0, 9]
  parameters: parameters [0, 9] - [0, 11]
  return_type: type [0, 15] - [0, 18]
   identifier [0, 15] - [0, 18]
  body: block [1, 4] - [3, 12]
   expression statement [1, 4] - [1, 9]
      assignment [1, 4] - [1, 9]
        left: identifier [1, 4] - [1, 5]
        right: integer [1, 8] - [1, 9]
   expression_statement [2, 4] - [2, 18]
      call [2, 4] - [2, 18]
        function: identifier [2, 4] - [2, 9]
        arguments: argument_list [2, 9] - [2, 18]
          string [2, 10] - [2, 17]
            interpolation [2, 12] - [2, 16]
              identifier [2, 13] - [2, 14]
   return statement [3, 4] - [3, 12]
      integer [3, 11] - [3, 12]
```

fuzzy-finding...

- ...with <u>telescope!</u>
- Get the config:
 - c0ff4ad9dcf5f8
- Press <C-f> or <C-q>

```
https://github.com/biosustain/lost_semester/commit/79e9a262776102ae57202f64c7
```

Let's make a plugin!

```
Find bib file ———— Parse file into entries ————— Telescope
                   entry := {
                                              finder
                                              previewer
                       name: str,
                       content: str, sorter
Mappings: Fn (entry) \rightarrow command
    More like: Fn (buffer number) \rightarrow None
```