

Neovim + LazyVim + Python + vimtex on macOS: Student Setup Guide

Step 1: Install Homebrew (if not already installed)

1. Open Terminal and run:
`/bin/bash -c "$(curl -fsSL
https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"`

Step 2: Install Neovim

1. Run in Terminal:
`brew install neovim`

Step 3: Set Up LazyVim

1. Backup old config (if any):
`mv ~/.config/nvim ~/.config/nvim.backup`
2. Install LazyVim starter:
`git clone https://github.com/LazyVim/starter ~/.config/nvim
cd ~/.config/nvim && rm -rf .git`

Step 4: Launch Neovim to Auto-Install Plugins

1. Run: `nvim`
2. Wait for LazyVim to install all default plugins, then quit and reopen.

Step 5: Install LaTeX (MacTeX)

1. Download from: <https://tug.org/mactex/mactex-download.html>
2. Install MacTeX (takes several GB).
3. Ensure `/Library/TeX/texbin` is in your PATH (usually automatic).

Step 6: Add vimtex to LazyVim

1. Create a file: `~/.config/nvim/lua/plugins/vimtex.lua`
2. Add this content:

```
return {  
  'lervag/vimtex',  
  ft = 'tex',  
  config = function()  
    vim.g.vimtex_view_method = 'skim'  
    vim.g.vimtex_compiler_method = 'latexmk'  
  end  
}
```

Step 7: Install Python

1. Run: `brew install python`
2. Confirm: `python3 --version` and `pip3 --version`

Step 8: Set Up Python Support in Neovim

1. Run:
`pip3 install pynvim`
`pip3 install 'python-lsp-server[all]'`

Step 9: Enable Python LSP in LazyVim

1. Create or edit `~/.config/nvim/lua/lsp/config/pylsp.lua`
2. Add:

```
return {  
  settings = {},  
}
```
3. LazyVim should detect and load it automatically.

Final Test

- Open a `.py` or `.tex` file in Neovim
- For LaTeX: use `\ll` to compile with vimtex
- For Python: test completion and linting