

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

Step 1: Install Neovim

1. Download Neovim from <https://github.com/neovim/neovim/releases>
2. Choose the latest nvim-win64.zip and extract to C:\nvim
3. Add C:\nvim\bin to your system PATH: - Search for 'Environment Variables' in the Start Menu
 - Edit your user PATH and add: C:\nvim\bin

Step 2: Install Git for Windows

1. Download from <https://git-scm.com/download/win> and install with default options

Step 3: Install LazyVim Starter

1. Open PowerShell and run:
`git clone https://github.com/LazyVim/starter $HOME\AppData\Local\nvim`
`cd $HOME\AppData\Local\nvim`
Remove the .git folder: `Remove-Item -Recurse -Force .git`

Step 4: Launch Neovim to Auto-Install Plugins

1. Open PowerShell or Windows Terminal and run: `nvim`
2. Wait for LazyVim to install all default plugins
3. Quit and reopen once setup is complete

Step 5: Install LaTeX (MiKTeX)

1. Download and install from <https://miktex.org/download>
2. Allow it to install missing packages automatically

Step 6: Add vimtex to LazyVim

1. Create a file: `$HOME\AppData\Local\nvim\lua\plugins\vimtex.lua`
2. Add this content:

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

Step 7: Install Python

1. Download from <https://www.python.org/downloads/windows/>
2. IMPORTANT: Check 'Add Python to PATH' during install
3. Confirm installation by running in PowerShell:
`python --version`
`pip --version`

Step 8: Set Up Python Support in Neovim

1. Install pynvim and LSP support:

```
pip install pynvim
```

```
pip install 'python-lsp-server[all]'
```

Step 9: Enable Python LSP in LazyVim

1. Create or edit: `$HOME\AppData\Local\nvim\lua\lsp\config\pylsp.lua`

2. Add:

```
return {  
  settings = {},  
}
```

Final Test

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