Outline

- 1. Set up coding environment
 - a. Terminal / WSL
 - b. Install python3 and pip3
 - c. Install visual studio code
- 2. Python fundamentals
- 3. Numpy, matplotlib, pandas and scipy

Terminal install (for Windows only)

Window 11

https://ubuntu.com/tutorials/install-ubuntu-o n-wsl2-on-windows-11-with-gui-support#1overview

- Overview
- 2 Install WSL
- 3 Download Ubuntu
- 4 Configure Ubuntu

Skip 5 and 6

- 5 Install and use a GUI package
- 6 Enjoy Ubuntu on WSL!

Windows 10

https://ubuntu.com/tutorials/install-ubuntu-on-wsl2-on-windows-10#1-overview

- Overview
- 2 Install WSL
- 3 Download Ubuntu
- 4 Configure Ubuntu

Skip 5, 6, 7

- 5 Install your first package
- 6 Customising your Terminal with Windows Terminal Preview
- 7 Enjoy Ubuntu on WSL!

Linux and Windows

- sudo apt-get update
- 2. sudo apt-get install python3 python3-pip

Mac

- 1. Install <u>homebrew</u>
- 2. brew install python3 python3-pip

Install vscode: https://code.visualstudio.com/

Install vscode extensions

Must have: Python, Pylance, Code Runner

Recommend: Guides, TODO Highlight, vscode-icons

(speaker note: generally introduce vscode and how to use it)

Python

https://www.learnpython.org/

Numpy, matplotlib, pandas, scipy

More advanced topics: parallel, The book "High Performance Python"