

Install tools workshop

(15 - 30 minutes)

USB stick with Python and Visual Studio Code

Instructions

Windows 10+

- Copy win.zip to the Documents folder
- Right click on the tile and “Extract all” to your documents folder ...\\Documents\\ (remove the name at the end)
- Click *start_vscode.bat*

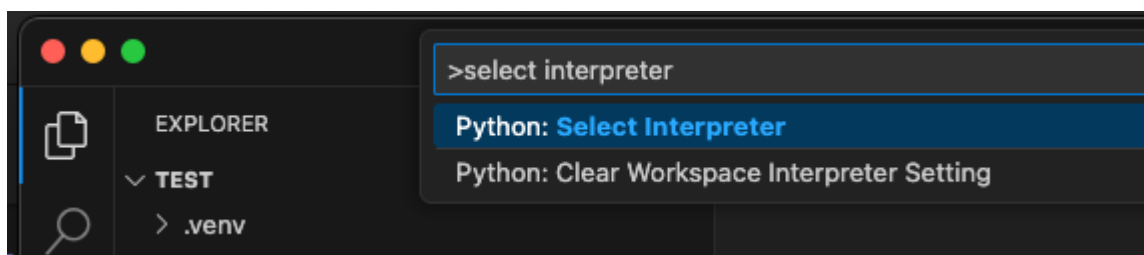
MacOS Intel or Apple Silicon

Check click Apple in left upper corner “About This Mac” and check “Chip”

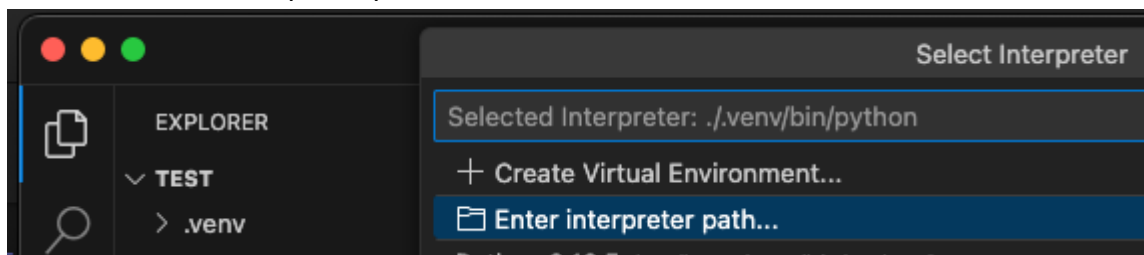
- For new laptops with Chip Apple M1 to 4 processor
 - Copy apple.zip Documents folder
- OR for older laptops with Chip Intel processor
 - Copy intel.zip Documents folder
- Right click on the zip file then select Open with -> “Archive Utility.app”
- Click *start_vscode.sh*

Alternative (ask first):

- In VSCode dir open “Visual Studio Code.app”
- Press keys COMMAND ⌘ + SHIFT + P Then search for “select interpreter” And click on this item:



- Then click “Enter interpreter path”



- Find and go to path ~/Documents/mbot-workshop-tools-2025/python/3.13/bin/python

Visual Studio Basics

Open menu Click File -> "Open folder" and choose **test** folder in the mbot-workshop-tools-2025 folder ~/Documents/mbot-workshop-tools-2025/**test**
Click the button "Yes, I trust the authors"

Open the test.py file in the explorer on the left.

Action

Press **Play** button -> Run Python file

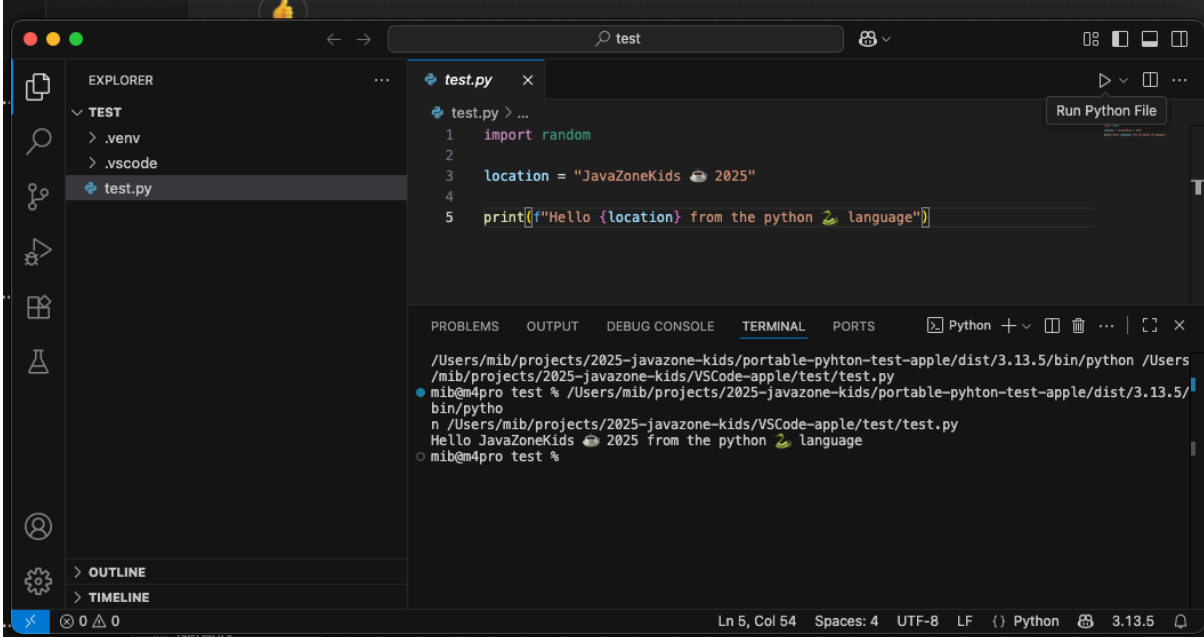
This will open a TERMINAL on the bottom (see screenshot below)

Result

It should give the Hello JazoneKids message like the screenshot below:

- ✓ Yes then we have installed it correctly. Celebrate 🎉 You are ready for some coding 😊
- ✗ There should be no error message or colored lines, if so please ask.

Show on screen



The screenshot shows the Visual Studio Code interface with a dark theme. On the left, the Explorer sidebar shows a folder named 'TEST' containing files '.venv', '.vscode', and 'test.py'. The 'test.py' file is selected and open in the main editor. The code in 'test.py' is as follows:

```
1 import random
2
3 location = "JavaZoneKids 📮 2025"
4
5 print(f"Hello {location} from the python 🐍 language")
```

Below the editor, the TERMINAL panel is active, showing the command prompt and the output of the Python script:

```
/Users/mib/projects/2025-javazone-kids/portable-python-test-apple/dist/3.13.5/bin/python /Users/mib/projects/2025-javazone-kids/VSCo-apple/test/test.py
mib@m4pro test % /Users/mib/projects/2025-javazone-kids/portable-python-test-apple/dist/3.13.5/bin/python /Users/mib/projects/2025-javazone-kids/VSCo-apple/test/test.py
Hello JavaZoneKids 📮 2025 from the python 🐍 language
mib@m4pro test %
```

The status bar at the bottom indicates the current file is 'test.py' at line 5, column 54, using UTF-8 encoding and LF line endings.

End installing tools.

Python

Interesting links:

Download python installer <https://www.python.org/downloads/>

Examples extra help, background (not needed)

https://www.w3schools.com/python/python_getstarted.asp

<https://media.datacamp.com/cms/python-basics-cheat-sheet-v3.pdf>

<https://scouv.lisn.upsaclay.fr/python-memento/memento-python3-en-latest.pdf>

Robot Checks

Optional (check)

Port 2 = Line follower

Port 3 = Distance sensor

Batteries

White Wifi dongle for the laptop