

Supplementary notes for PYP1-OCT-25

VS Code shortcuts - Python and JS environment

CTRL + B	toggle explorer pane / full screen
CTRL + +/-	up/down font size
CTRL + /	toggle comment on/off
CTRL + D	multi-cursor select
ALT + SHIFT + DOWN/UP	duplicate line down/up

number formatting

Python

```
number = 3.12345678
```

```
print(f'the number to 2 decimal places is: {number:.2f}')
```

*Note: best practice **NOT** to use number formatting that rounds a number in a function. Then you will never get a more accurate result if you need one. Best to let the function "do its thing" and round any output in your runtime code.*

*For floating point number accuracy use module **numpy***

Open Source projects

Open Source libraries repository, browse here for open source projects to potentially collaborate on, and follow the link to each project's GitHub page:

Python

<https://pypi.org/>

Further self-study resources for Python:

RealPython (excellent, but video courses paywalled)

<https://realpython.com/>

GeeksForGeeks

<https://www.geeksforgeeks.org/python-programming-language/learn-python-tutorial/>

W3Schools (straightforward but a bit dated now)

<https://www.w3schools.com/python/>

Official Docs (mainly a page of links to other resources)

<https://www.python.org/about/gettingstarted/>

For consolidating knowledge gained on the course, or looking something up to check knowledge, RealPython or GeeksForGeeks are in my opinion excellent.

GFG in particular seems to offer just the right level of granular detail - more modern code examples than W3 Schools, but not as hard to understand or as exhaustive as the official Python docs.

UML

https://en.wikipedia.org/wiki/Unified_Modeling_Language

<https://www.uml.org/>

LINKS

<https://simonwillison.net/2025/Jul/17/vibe-scraping/>
Shows Python being used together with JSON data
In an AI environment - some seriously impressive stuff!

Use regexr.com online to check validity of regular expressions

OMITTED SECTIONS WITH CODE NOW SUPPLIED

- 09-12 in /containers
- /14 pattern matching
- /17 databases