Python Resources

We have two textbooks that will be used for our assigned readings. Both are free for students to access and relatively friendly for beginners:

- **Think Python - How to Think Like a Computer Scientist, 2nd Edition (https://runestone.academy/runestone/books/published/thinkcspy/index.html)**
- **Problem Solving with Algorithms and Data Structures using Python (https://runestone.academy/runestone/books/published/pythonds/index.html)**

There are lots more online resources that can be useful while leaning python. None of these are required for this course, but can be useful nonetheless:

- **MIT Course Introduction to Computer Science and Programming (https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-0001-introduction-to-computer-science-and-programming-in-python-fall-2016/)**
- **The Python Tutorial (https://docs.python.org/3/tutorial/index.html)**
- **Learn Python (https://www.learnpython.org/)**
- **W3schools (https://www.w3schools.com/python/)**
- **W3resource (https://www.w3resource.com/python/python-tutorial.php)**
- **Python Programming (https://en.wikibooks.org/wiki/Python_Programming)**
- **Khan Academy (https://www.khanacademy.org/computing/ap-computer-science-principles/programming-101)**

We are able to run Python code using an online editor such as **Repl.it. (https://repl.it/languages/python3)** However if you have a weak internet connection, it would be recommended to install Python on your computer. Python can be downloaded at ***python.org/downloads*** **(https://python.org/downloads)** . Please ensure that you are using Python 3 or above.

Some students benefit from using a Python Integrated Development Environment (IDE). I will recommend a free Python IDE editor called **Wing101 (https://wingware.com/downloads/wing-101)** . You can also feel free to use any other text editors such as **Spyder (https://www.spyder-ide.org/)** , **IDLE (https://docs.python.org/3/library/idle.html)** , **Sublime (https://www.sublimetext.com/)** , etc.

Code style is also an important aspect of writing good code:

- The **Python Style Guidelines (https://www.python.org/dev/peps/pep-0008/)** details the recommended style to write python code
- The **PEP8 Online (http://pep8online.com/)** code checker lets you see recommended style changes for your code

Additional Resources:

- **Python Visualizer (http://www.pythontutor.com/visualize.html)** : A tool to better understand the functionality of your code