Intro to Programming with Python

June 25,26 July 1 ~~24 - 26~~, Watertown Public Library 3-5pm

Link to this document: tinyurl.com/wplpythonJun24

Workshop Resources

- JupyterLite notebook: jupyter.org/try-jupyter files: jupyter.org/try-jupyter/tree/
- Slides: Day 1, Day 2, Day 3
- Notebooks: Day1
- Starter JupyterNotebook: tinyurl.com/starter-ipynb
- Reference JupyterNotebook (click the “raw” option, use the URL to run in JupyterLite)

Free Python learning resources

- Khan academy: https://www.khanacademy.org/computing/intro-to-python-fundamentals
- Raspberry Pi foundation:
  - https://projects.raspberrypi.org/en/pathways/python-intro
  - https://projects.raspberrypi.org/en/pathways/more-python
- Udemy video tutorials
  - https://www.udemy.com/course/pythonforbeginnersintro/
  - https://www.udemy.com/course/python-for-every1/
- Introduction to Python (Microsoft)
  - https://vscodeedu.com/courses/intro-to-python
- Google’s Python Class
  - https://developers.google.com/edu/python
- Python exercises, with hints
  - https://codingbat.com/python
- https://www.geeksforgeeks.org/python-programming-language-tutorial/

How do I run Python on my own computer?

- Your options depend on the device’s Operating System (Windows vs Mac vs Linux)
  - First, install Python (Reference: https://docs.python.org/3/using/)
    - Both Mac and Linux have a version of Python available as part of the OS.
      - Note: you may not want to use the version of Python that comes with your machine. Installing a different version of Python is recommended so you don't want to accidentally change the version of Python that your operating system depends on!
    - For Python on Windows, Microsoft has several options. https://learn.microsoft.com/en-us/windows/python/beginners
    - A note on Anaconda: Anaconda is commercial software that provides a convenient solution for installing data science-related python libraries (among other features). Beginning in 2020, "exempt" status was revoked for non-profit and educational use so Anaconda should only be considered if it is an option you want to pay for.
  - Then, install JupyterLab (Reference: https://jupyterlab.readthedocs.io/en/stable/getting_started/installation.html#pip)
  - To launch JupyterLab - in a terminal window, type:
    - `jupyter lab`

```
big_word = "supercalifragilisticexpialidocious"
long_number = 3.14159265358979323846264338327950288
```