# Additional Python Resources

If you're having trouble with a particular concept or simply want to have access to more information, try one of the following links.

## **DOCUMENTATION**

• Official Python 3 Documentation - "official"/technical explanation of what a particular function/operator does, examples of correct syntax, what the various libraries are, etc.

# TEXTBOOKS/TUTORIALS

- Dive Into Python another survey of Python syntax, datatypes, etc.
- Think Python by Allen Downey a good general overview of the Python language. Includes exercises.
- The Official Python Tutorial self-explanatory
- Learn Python the Hard Way (note: for Python 2) another free online text
- Reserved Keywords in Python don't use these as variable names
- PEP 8 Style Guide for Python Code learn what is good and bad style in Python
- CheckIO learn Python by exploring a game world
- Invent with Python develop your Python skills by making games or hacking ciphers
- Codecademy (note: for Python 2) learn Python by building web apps and manipulating data; interactive tutorial sequence
- Python Tutor interactive tutorial sequence of exercises

#### DEBUGGING

- Python Tutor an excellent way to actually visualize how the interpreter actually reads and executes your code
- DiffChecker compares two sets of text and shows you which lines are different
- Debugging in Python steps you can take to try to debug your program

#### SOFTWARE

Python Tools for Visual Studio - Visual Studio plug-in enabling Python programming

## OTHER Q&A

• Stack Overflow - a large Q&A forum for programming concepts (not just Python). Try searching here before you post on the edX forum, and you may find that someone has already answered your question.

#### MORE PRACTICE PROBLEMS

- Python Challenge a series of puzzles you can try to test your Python abilities
- Project Euler additional programming challenges you can try once your Python knowledge becomes stronger; problems are sorted by increasing difficulty
- Coding Bat problems you can solve within an online interpreter
- Codewars improve your skills by training on real code challenges

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