Learning and Applying Python to Make Your Life Easier: Tools to Get Started with Python 3

You'll need a text editor or an IDE (Integrated Development Environment) to write and implement your code

Jupyter Notebook and Google's Colaboratory are awesome notebook-type IDEs that allow you to de-bug as you code, explore data sets, and prototype visualizations and other scripts. (Jupyter Notebook Tutorial)	Atom and Spyder are easy-to-use IDE text editors that also show visualizations as you code	Spyder and Jupyter Notebooks are available through Anaconda Navigator, which is a user interface that helps make sure all of the package versions that you run are compatible

Within the Python language, we'll use different libraries to help with specific types of analysis

Numpy is used for doing calculations with multidimensional data sets	Pandas is built on top of numpy and provides a better toolkit for doing data analysis (Pandas Tutorial)	Matplotlib allows us to easily plot and visualize our data (Matplotlib Tutorial)

In order to use the libraries, you'll want to get familiar with a few things

Python syntax and core concepts such as: data types, variables, control flow, functions, dictionaries, and loops	Github: used for version control and to store and collaborate on open sourced code (Github Tutorial)	Interpreting error messages and troubleshooting with the help of StackOverflow

There are a lot of free online reading and instructional resources on the web to help guide your Python journey. These are a few that we've either used or have heard good things about

The Python Guru: reading with some examples that you can do in your own text editor	CodeAcademy Python Course: interactive lessons that guide you through main concepts	Automate the Boring Stuff: YouTube courses with written guides to follow along
Learn Python the Hard Way: written tutorials to work out in your own text editor	Python Data Science Handbook: excellent resource of Python tools for data science (numpy and pandas)	A Whirlwind Tour of Python: fast-paced introduction to essential components that has written tutorials
Udemy Course: 30 Days of Python | Unlock your Python Potential	Udemy Course: Complete Python Masterclass	Udemy Course: Learning Python for Data Analysis and Visualization