

An introduction to programming with Python



Week 1, Learning objective # 2 - Sara Bandres-Ciga, PhD


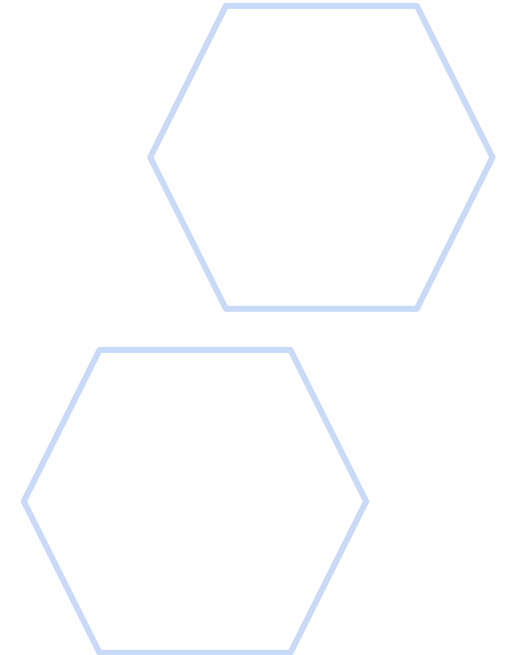


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Execution of python



We can execute python in three different ways:

- **Interactive Mode**

We can enter python in the command prompt and execute

- **Script mode**

We can write our python code in a separate file using any editor with the .py extension

- **IDE (Integrated Development Environment)**

We can execute our python code using a Graphical User Interface (GUI) –

Spyder, [Google Colab](#)

Installing time!



- Install Anaconda - <https://docs.anaconda.com/anaconda/install/>
 - ✓ Install Python
 - ✓ Install Spyder

Introduction to notebooks

- **Notebook structure**
 - What are cells?
 - Types of cells
 - Layout and language
- **What can you do with a notebook?**
 - Analyses
 - Great for workflows
 - Creates a record of your analysis pipeline

Introduction to notebooks



- **Jupyter notebook and Google Colab**
 - Available languages include Python 2 and 3
 - Connected to a Runtime environment where the user can specify memory, cpus, and disk space
- ✓ Install Jupyter Notebook
- ✓ Navigate through Google Colab - <https://drive.google.com/>

See you in the next module!