



# Introduction to Python

A Series of Hands-on Software Carpentry Workshops

*Posted on March 25, 2021*

**Data Science Learning Exchange  
Software Carpentry Workshops  
Wrap-Up – May 25, 2021**



***See the Survey in the chat box***

# Course Sessions

- **Week 1:** Introduction to Python and Colab, Running and Quitting, Variables and Assignment
  - **NOTE:** A one-hour help session will be offered on **April 23, 11 AM – 12 PM:** *Getting Started with Google Colab*
- **Week 2:** Data Types and Type Conversion, Built-in Functions and Help
- **Week 3:** , Libraries, Reading Tabular Data into DataFrames, Pandas DataFrames 1
- **Week 4:** DataFrames 2, Plotting 1, Lists 1
- **Week 5:** List 2, For Loops, Looping Over Data Sets, Conditionals
- **Week 6:** Writing Functions, Variable Scope, Programming Style, Wrap-Up
  - **NOTE:** A one-hour bonus session will be offered on **May 28, 1 PM – 2 PM:** *Plotting 2*

# Course Materials

- **Github repo for materials and recordings:**
  - <https://github.com/CBIIT/python-carpentry-workshop>
- **Reference:**
  - Plotting and programming with Python
  - <http://swcarpentry.github.io/python-novice-gapminder/>
- **Additional learning resources**
  - Licenses available for Dataquest.io
  - [https://cbiit.github.io/p2p-datasci/2020-04-21-data\\_science\\_course\\_licenses/](https://cbiit.github.io/p2p-datasci/2020-04-21-data_science_course_licenses/)

## Upcoming Events

- Seminar Series: **Introduction to Artificial Intelligence in Biological Data**
  - May 25, 2021 - Sep 23, 2021
  - [https://cbiit.github.io/p2p-datasci/2021-05-13-ai\\_in\\_biological\\_data\\_series/](https://cbiit.github.io/p2p-datasci/2021-05-13-ai_in_biological_data_series/)
  - First seminar: AI in Drug Development, presented by the ATOM consortium, May 25, 2021, 1 - 2 PM
- **Machine Learning Jargon: An Introduction to Key Concepts and Terms**
  - May 26, 2021, 1 - 2 PM
  - [https://cbiit.github.io/p2p-datasci/2021-04-27-machine\\_learning\\_jargon/](https://cbiit.github.io/p2p-datasci/2021-04-27-machine_learning_jargon/)

# Acknowledgment

## Special thanks to:

- **Attendees**
- **Workshop Organizers**
  - Lynn Borkon
  - Petrina Hollingsworth
  - Mike Rinaldi
- **Workshop Instructors**
  - Pinyi Lu
  - Robin Kramer
  - George Zaki

