



PLURALSIGHT

Python for Data Science

Welcome!



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Instructor, Pluralsight





HELLO
my name is

Greg Swanson
(he/him)

About Me:

- Lead Data Scientist for Storyblocks
- Teaching Programming and Data Science related topics for the last 5 years
- I live in Utah & love getting out in the Wasatch Mountains as much as I can

Prerequisites

This course assumes you

- No background knowledge is strictly necessary for this course.
- This is a introductory level course

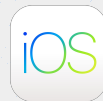
Why study this subject?

- This class establishes the foundations of Python, a programming language that has become very popular in Data Science circles (and elsewhere too)
- These tools are foundational to all forms of Python programming, not just Data Science
- This strong foundation will set learners up for success later in data science when they'll be using libraries such as Pandas, SKLearn, Tensorflow, and more

Note!

- **This course does include:**
 - Foundational, introductory level Python material.
- **This course does NOT include:**
 - Working with large datasets
 - ETL
 - Statistical analysis

We teach over 400 technology topics.



My pledge to you:

I will..

- Make this course interactive
- Ask you questions
- Ensure everyone can speak
- Create an inclusive learning environment
- Use an on-screen timer for breaks

...also, if you have an accessibility need, please let me know!

Objectives

At the end of this course, you will be able to:

- Create variables.
- Manipulate the values of those variables using operators.
- Cause specific portions of code to execute, repeat, or be ignored based on the values in variables.
- Represent complex data with lists and dictionaries.
- Create custom functions and execute both custom and built-in functions

Agenda

- The syntax of the Python programming language.
- Creating variables and handling different types of data in Python.
- Using operators and functions to manipulate data in Python.
- Using control flow: loops and if statements in Python.
- Building and using custom functions in Python.

How we're going to work together

- You'll have a copy of all the course materials shortly
 - We'll be using Jupyter notebooks/VSC
- You'll be following along in the notebook

Student Instructions



- We got acquainted last class, so let's start with some polls:
- How many people have used python before?
- Do you have any lingering conceptual questions from last class?

Set up the environment

- Download repo from here:
 - <https://github.com/gregworks/python-for-data-science.git>

Thank you!

If you have any additional questions, please ask!

