# Python in a Day

Learn Python from scratch and explore its various applications in web development and data science. This introductory course covers the fundamentals of Python programming, including data types, conditional statements, loops, functions, and an introduction to object-oriented programming.

For more information, visit
https://cl2.nobledesktop.com/classes/python-workshops-nyc

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# Course Outline

## Section 1

**Fundamentals of Python**

- Python Overview + History
- Anaconda Distribution
- Jupyter Notebook + Markdown
- Data Types + Variables
- Assignment Operators
- Numbers vs. strings
- Concatenation

**Procedual Programming**

- Built in Functions
- Control Flow Statements
- Functions
- Lists
- Indexing + Slicing

## Section 2

**Iterative Code**

- Intro to looping
- For Loop
- While Loop

**Complex Data Types**

- String

- Methods
- Lists
- Tuples
- Sets
- Dictionaries

## Section 3

**Object Programming**
- Intro to Object Oriented Programming
- Inheritance

**Python's Uses**
- Different Environments
- Data Science with Jupyter
- Web Development with Flask