COURSE SYLLABUS

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.

> Group classes (NYC) and onsite training are available for this course. For more information, email corporate@nobledesktop.com or visit: https://www.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

Procedural 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