








Python


The Basics

Session Expectations:

- Cameras on 
- Mics muted 
- Raise Hand 
 - React 
 - Respond **"?"**



Learning Objectives

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- **Intent:** To explore what **Python** is, and what it does.
 - **Implementation:** To **write** and **run** your first lines of **Python** code.
 - **Impact:** To contextualise how the fundamentals of **Python** enable us to **process** and **manipulate** data.

What is Python?

Python is a versatile, high-level programming language known for its simplicity and readability.

It supports various programming paradigms and is widely used in data analysis, machine learning, AI, scientific computing, and automation.

Remember JavaScript!

Python and JavaScript share many fundamental concepts, making it easier to transition between the two.

They support similar data structures like arrays (*lists in Python*) and objects (*dictionaries in Python*).

Concepts such as variables, loops, and conditional statements work similarly in both languages.

One difference between **Python** and JavaScript is that **Python** does not natively run in the browser, meaning we need to install it to our system to work with it.

Please ensure you have Python downloaded and installed:

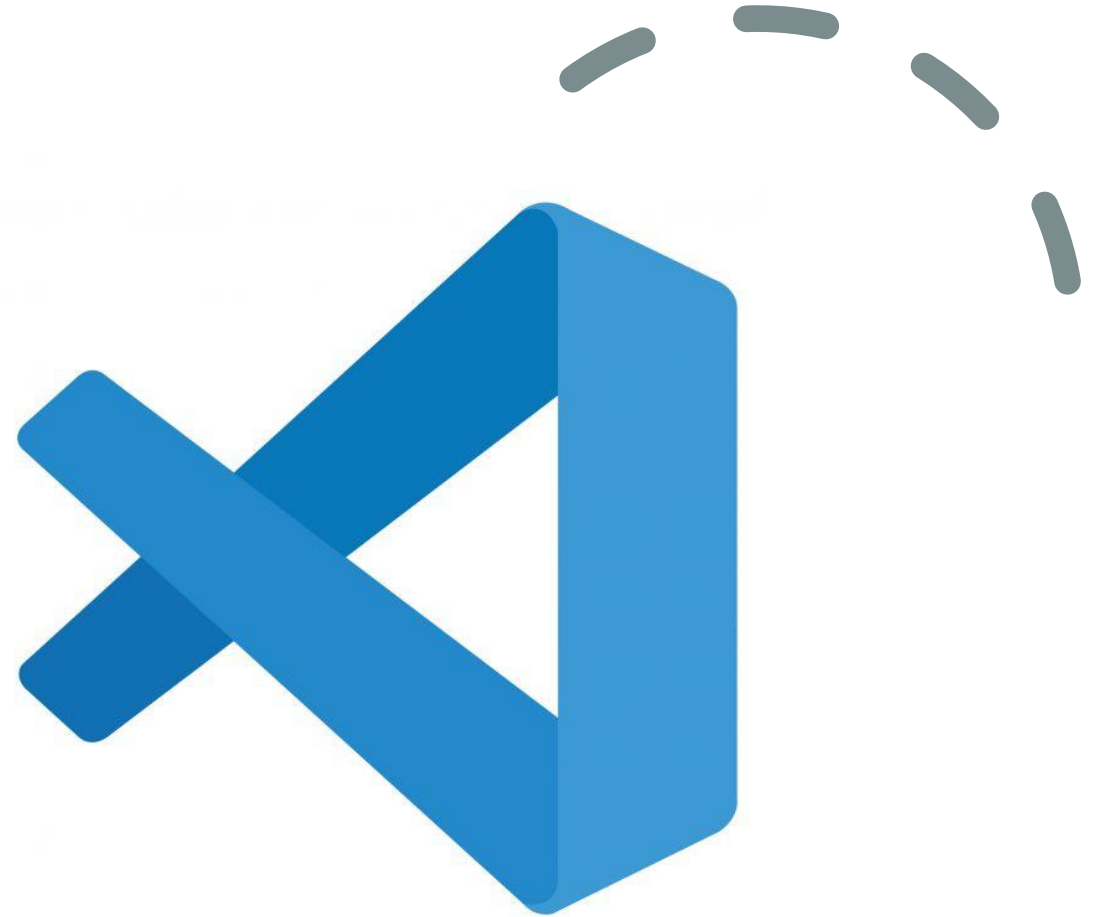
Windows: <https://www.python.org/downloads/>

Mac: <https://www.python.org/downloads/macros/>

Session Topics:

- Variables
- Data Types
- Input / Output

**Let's move over
to VS Code to
take a look at the
basics of
Python...**



Reference Links:

Getting Started: <https://www.programiz.com/python-programming/getting-started>

Variables: <https://www.programiz.com/python-programming/variables-constants-literals>

Input / Output: <https://www.programiz.com/python-programming/input-output-import>