Introduction

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Why Python?

- Python is an incredibly efficient language:
 - Your programs will do more in fewer lines of code than many other languages would require
 - Your code will be
 - easier to read,
 - easier to debug, and
 - easier to extend and build upon, compared to other languages
- ▶ People use Python for many purposes:
 - ▶ To make games,
 - Build web applications,
 - Solve business problems, and
 - ▶ Develop internal tools at all kinds of interesting companies

Getting Started

- Need to check whether a recent version of Python is installed on your computer
- Also install a text editor to work with your Python programs
- Latest version is Python 3.11
- ▶ You can run Python's interpreter in a terminal window, allowing you to try bits of Python code without having to save and run an entire program.

```
>>> print("Hello Python interpreter!")
Hello Python interpreter!
```

Getting Started

► The three angle brackets (>>>) referred to as a *Python prompt*, indicates that you should be using the terminal window

VS Code Editor

- VS Code is a powerful, professional-quality text editor that's free and beginnerfriendly
- Can be installed on all modern OS and supports most programming languages including Python

Installing Python

- Open command prompt typing cmd
- ► Type python in lowercase
- ▶ If you get Python prompt >>> in response then
 - python is installed correctly,
 - else you get an error message that python is not a recognized command

Installing Python

- Download Python from https://python.org
- Click on Add Python 3.11 to PATH



Running Python

- Open a new command window and enter python in lowercase.
- You should see a Python prompt (>>>)

```
C:\> python
Python 3.x.x (main, Jun . . . , 13:29:14) [MSC
v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license"
for more information.
>>>
```

► Enter the following line

```
>>> print("Hello Python interpreter!")
Hello Python interpreter!
>>>
```

You can download an installer for VS Code at https://code.visualstudio.com