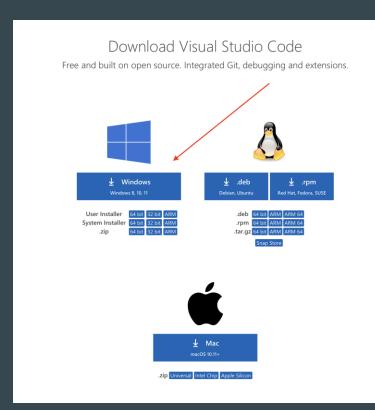
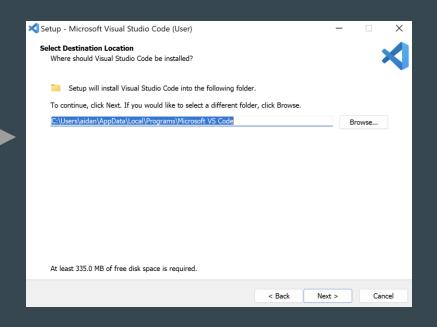
Beginners Guide To Python

Installing VSCode

Go to https://code.visualstudio.com/download

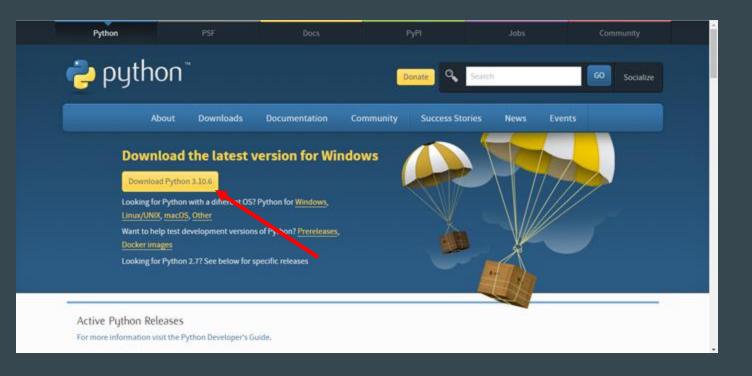




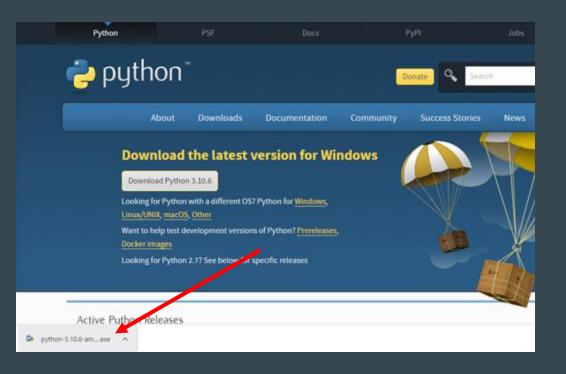
Installing Python

Downloading Python

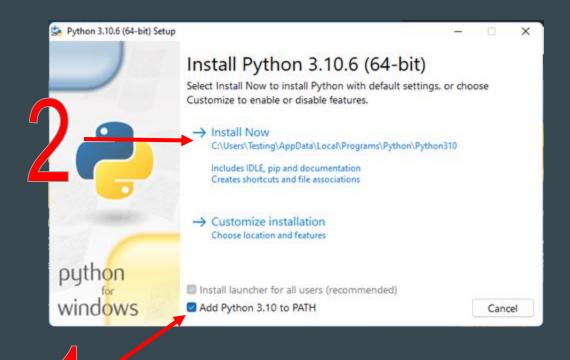
python.org/downloads/



Downloading Python

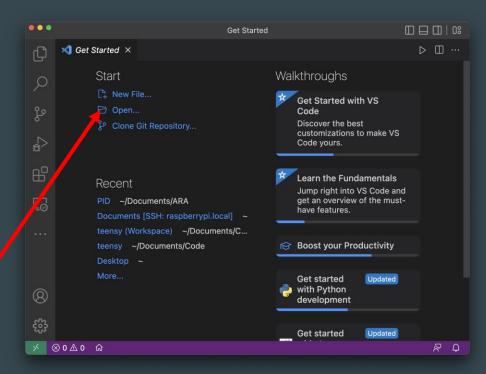


Downloading Python

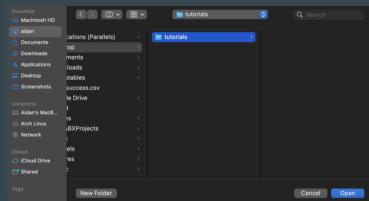


Setting up "Hello World"

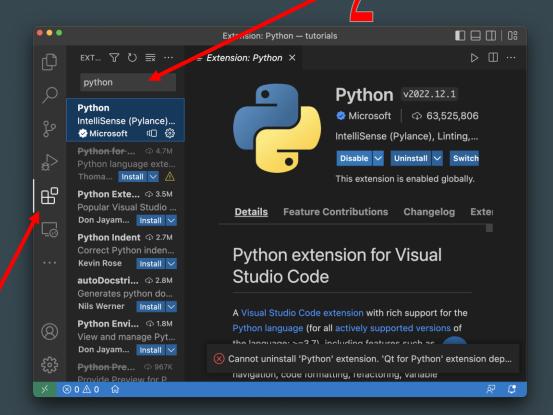
Create a new project



Open a folder on your computer where you wish to store all your programs

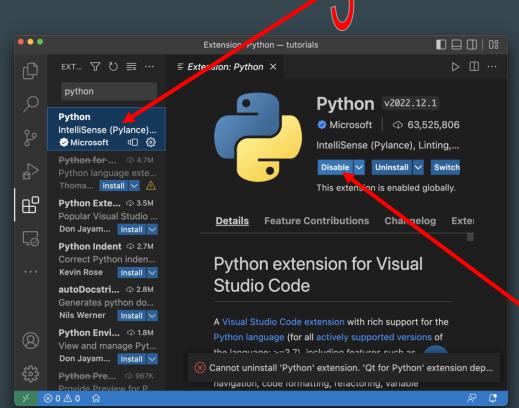


Python Extension



- 1. Select the "Extensions" tab
- 2. Search for the "Python" extension

Python Extension

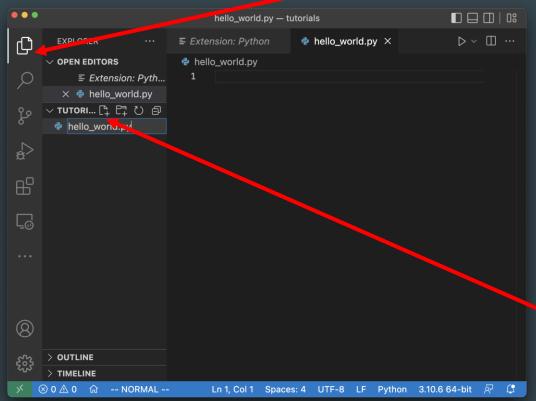


3. Select the first result

4. Click the "Install" button

Create a New File



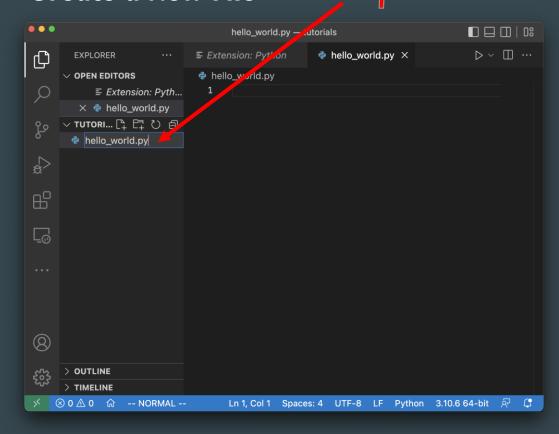


5. Go back to the "Files" tab

6. Add a new file to your project

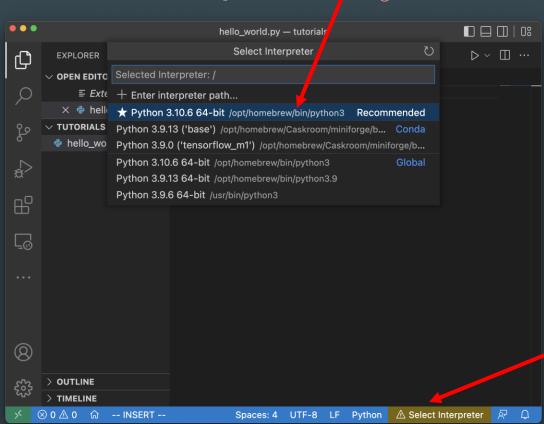


Create a New File



7. Name your file with a ".py" extension

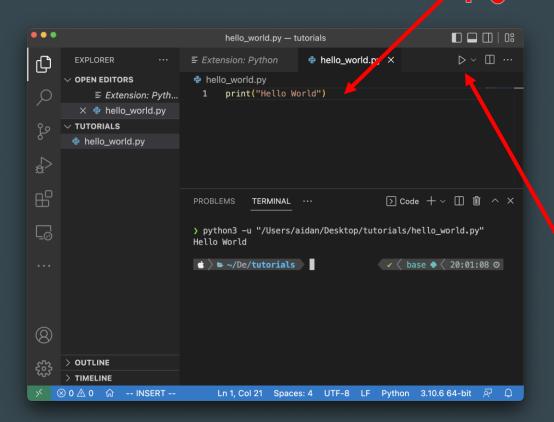
Select an Interpreter



8. Click the "Select Interpreter" button

9. Select the interpreter you installed earlier

Run "Hello World!"



10. Type this statement:

print("Hello World!")

11. Click the "run" button

NOW LET'S GET TO PROGRAMMING

Exercise 1 – Evaluating a Function:

• Use a python program to evaluate the following equation for f(4):

$$f(x) = \frac{12x^4 - 4x^2 + 9}{x^5 - 31}$$

Exercise 2 – Even/Odd numbers:

Make a program which lets a user input a number, and tells them if the number is even or odd

Exercise 3 – Factorials:

Make a program which lets a user input a number n and evaluates:

$$n! = 1 * 2 * \cdots * (n - 1) * n$$

Exercise 4 – Least Common Multiples:

Find the first number which is divisible by 1, 2, 3, 4, 5, 6, and 7 - in other words, the least common multiple of those numbers

THANKS SO MUCH



Jupyter Notebook