

Selenium Python Setup

This guide will help get new testers started on setting up their local machine to write and execute automated tests using Python and Selenium.

Python Installation

1. Go to <https://www.python.org/downloads/> and download the latest version for your OS.



2. Execute the installer and follow the instructions on screen, choosing the default options when prompted.
 1. **Windows:** make note of the path where Python is being installed. By default, it's `C:\Users\{YourName}\AppData\Local\Programs\Python\Python{Ver}`
3. Verify that the installation was successful:
 1. **Windows:** Navigate to the path where Python was installed. You should see a python.exe application.
 2. **Mac:** Open a terminal window and type `which python` and hit enter. You should see the path where Python was installed.
4. - **WINDOWS ONLY** - Set the path to the Python and Python Scripts folders in your environment variables
 - o Mac users can ignore this - it's done automatically when you install Python.
 1. Copy the path to the folder where python.exe is saved
 2. Open your start menu and search for "edit system environment variables"
 3. Click Environment Variables
 4. Click Path > Edit
 5. Click on a new line, then paste the path to your Python folder:
 - `C:\Users\{YourName}\AppData\Local\Programs\Python\Python37-32`
 6. Click on another new line, then paste the path to the Scripts folder inside of the Python folder:
 - `C:\Users\{YourName}\AppData\Local\Programs\Python\Python37-32\Scripts`
 7. Open command prompt and type `python --version`
 1. "python 3.7.4" should be returned if the path was set successfully

Selenium Installation

After Python was successfully installed, you should have access to pip. Install selenium using pip by following the

steps below:

Windows

1. Open command prompt and type the following command:
 - pip install selenium

Mac

1. Open a terminal window and type the following command:
 - pip3 install selenium

PyCharm Setup

Go to <https://www.jetbrains.com/pycharm/download> and download the Community edition of PyCharm for your OS. Execute the installer and follow the steps, selecting the default options when prompted.



Version: 2020.1.1
Build: 201.7223.92
6 May 2020

[System requirements](#)

[Installation Instructions](#)

[Other versions](#)

Download PyCharm

Windows **Mac** Linux

Professional

For both Scientific and Web Python development. With HTML, JS, and SQL support.

Download

Free trial

Community

For pure Python development

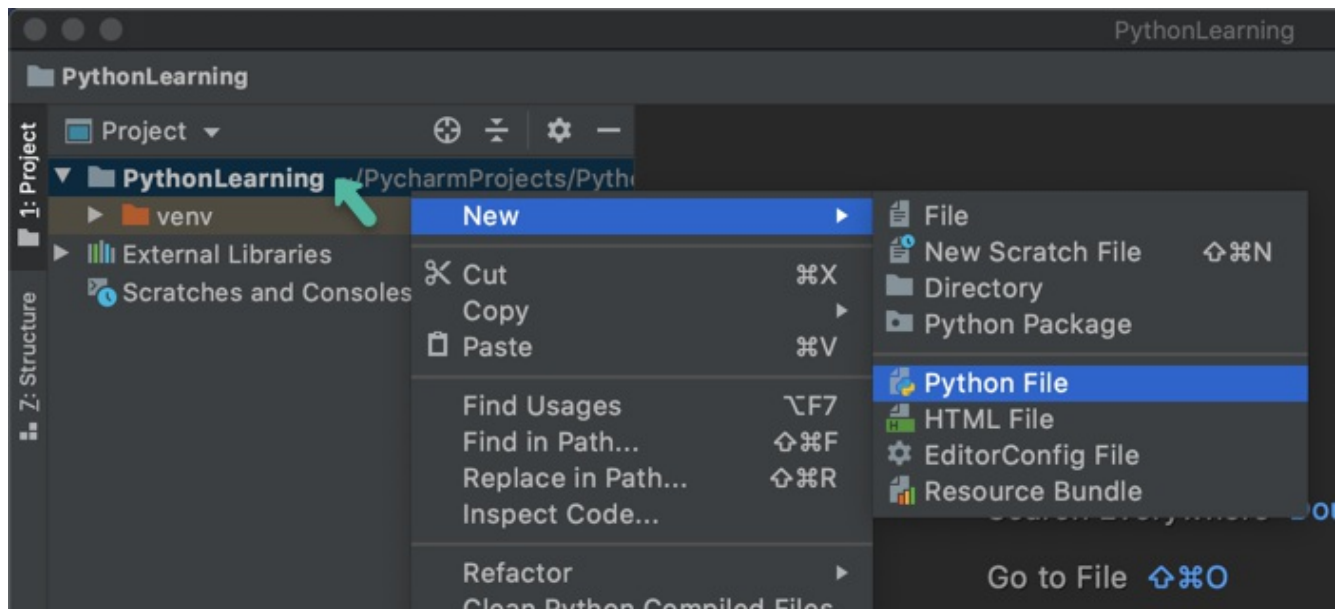
Download

Free, open-source

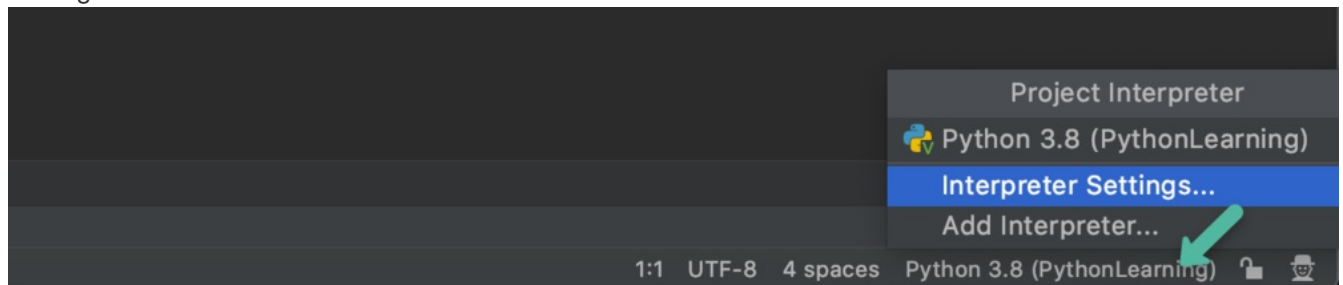
Set the Project Interpreter

By default, when you create a project, a venv (virtual environment) folder is created. We want to make sure that the interpreter is pointing to the Python installed on your local machine, not the virtual environment. Otherwise, Selenium won't be recognized.

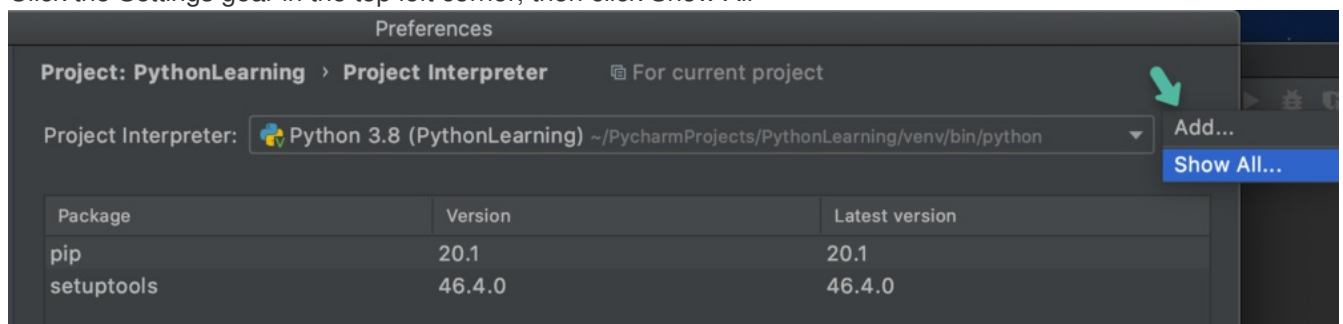
1. Open PyCharm and create a project
 1. Make note of the path to the project (C:\Users\{YourName}\PycharmProjects\{ProjectName})
2. After the virtual environment is created, right click the project name in the left nav menu and click "New -> Python File"



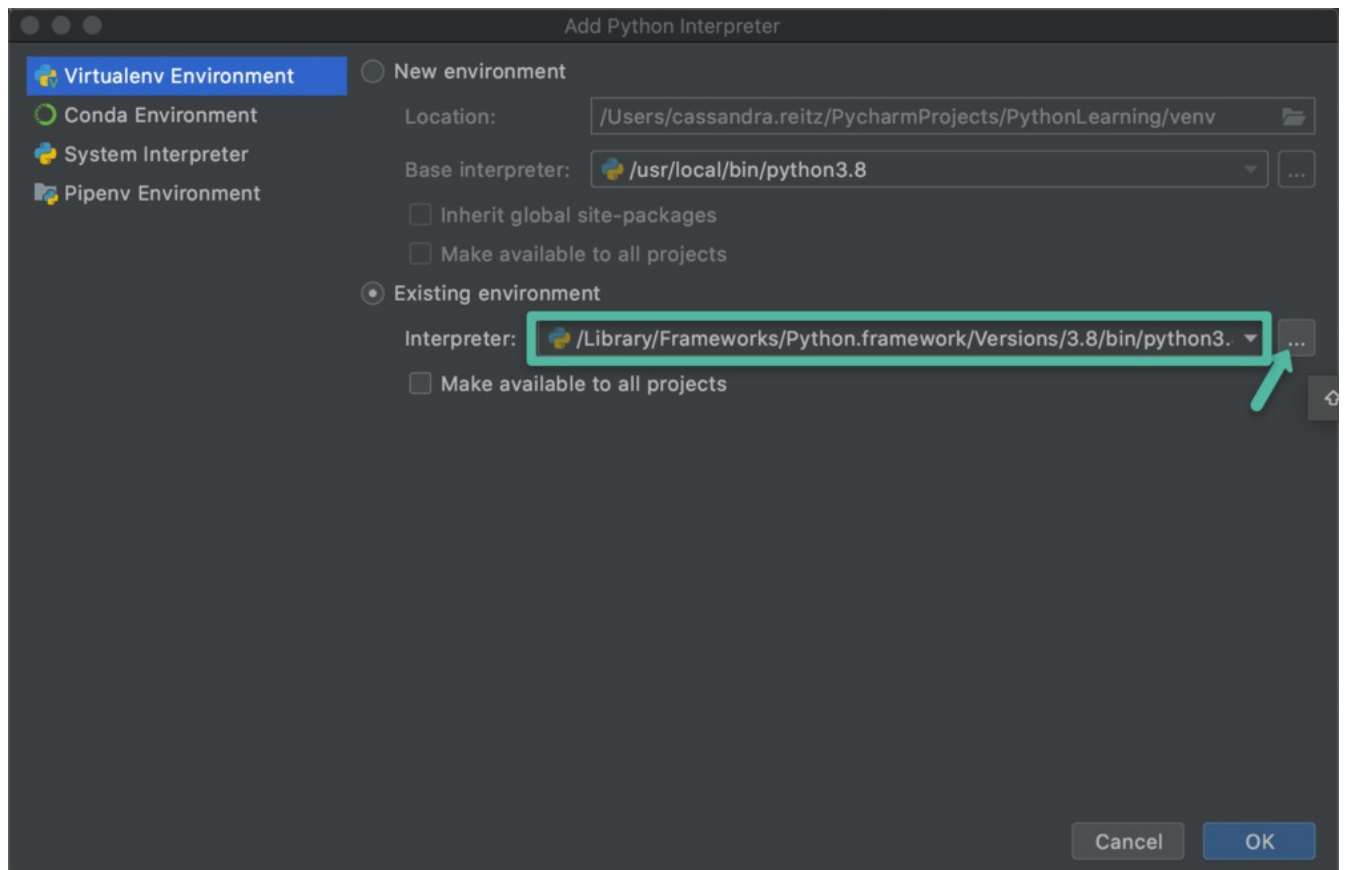
3. In the bottom right corner of the screen, click the name of the project in parentheses, then click Interpreter Settings



4. Click the Settings gear in the top left corner, then click Show All

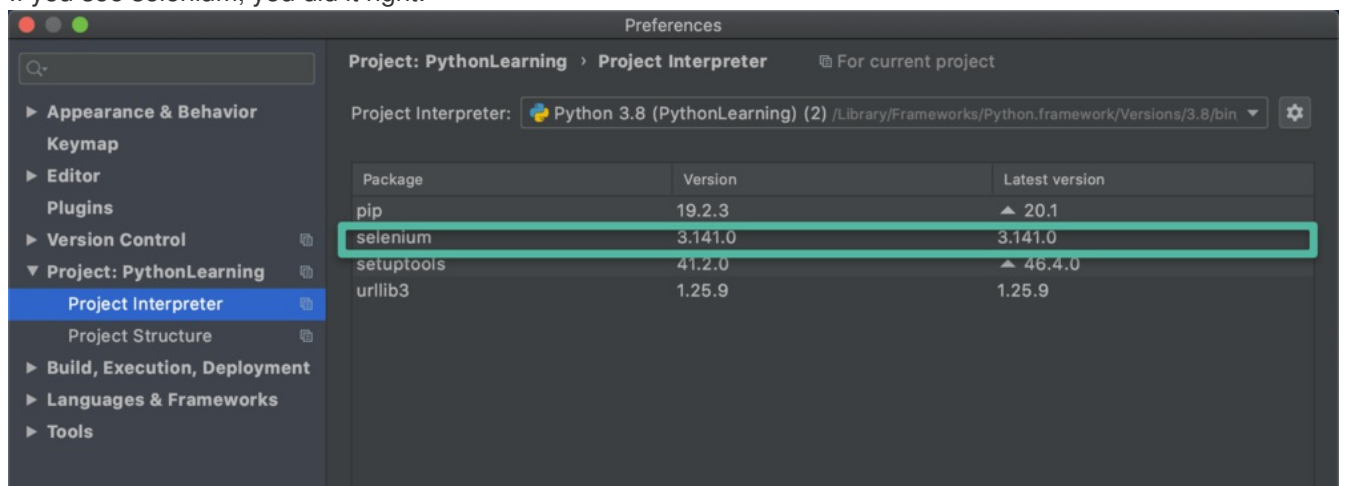


5. Click the + sign, then click the Existing Environment radio button and navigate to where Python is installed on your local machine:



- **Windows:** C:\Users\{YourName}\AppData\Local\Programs\Python\Python37-32
- **Mac:** /Library/Frameworks/Python.Framework/Versions/3.X/bin/python3.x

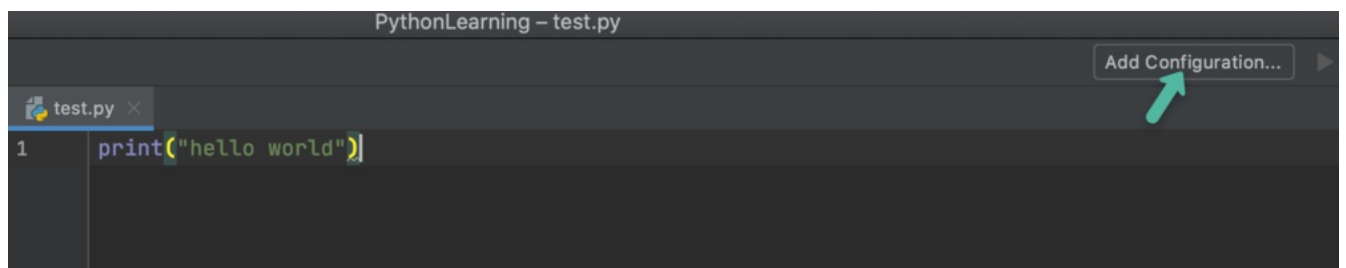
- Click OK, highlight the new interpreter, click OK, then click Apply
- Verify that you have the correct settings by checking the packages installed under the new Project Interpreter. If you see selenium, you did it right:



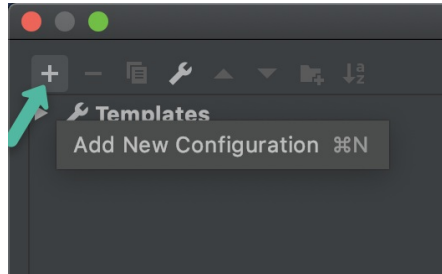
Edit Configuration

Before you can run a python script, you have to set the path to that script in PyCharm.

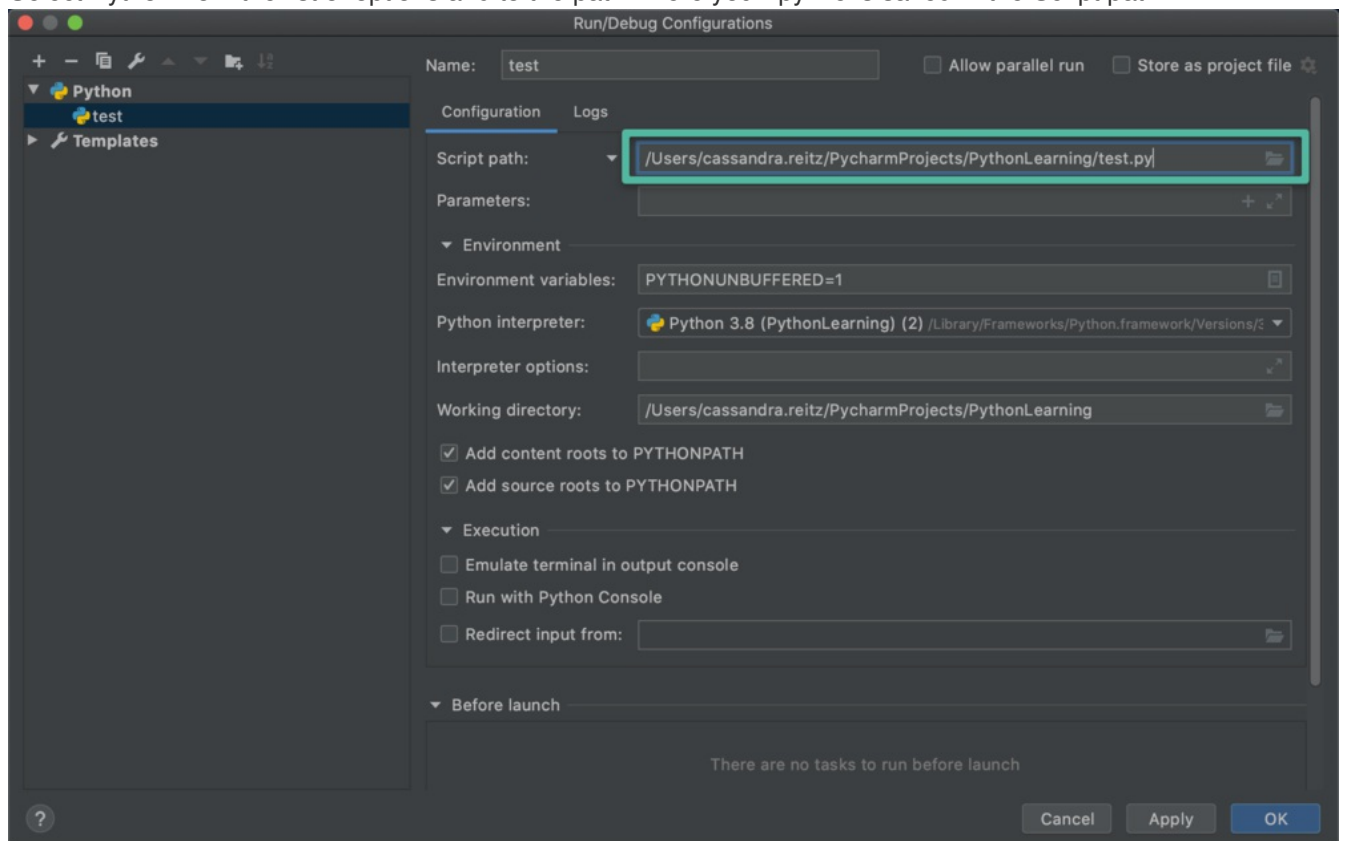
- Click "Add Configurations..." in the top right corner of the editor



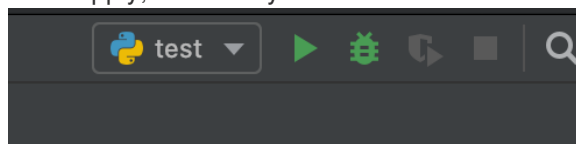
- Click the + sign, then click Add New Configuration



- Select Python from the list of options and to the path where your .py file is saved in the Script path:



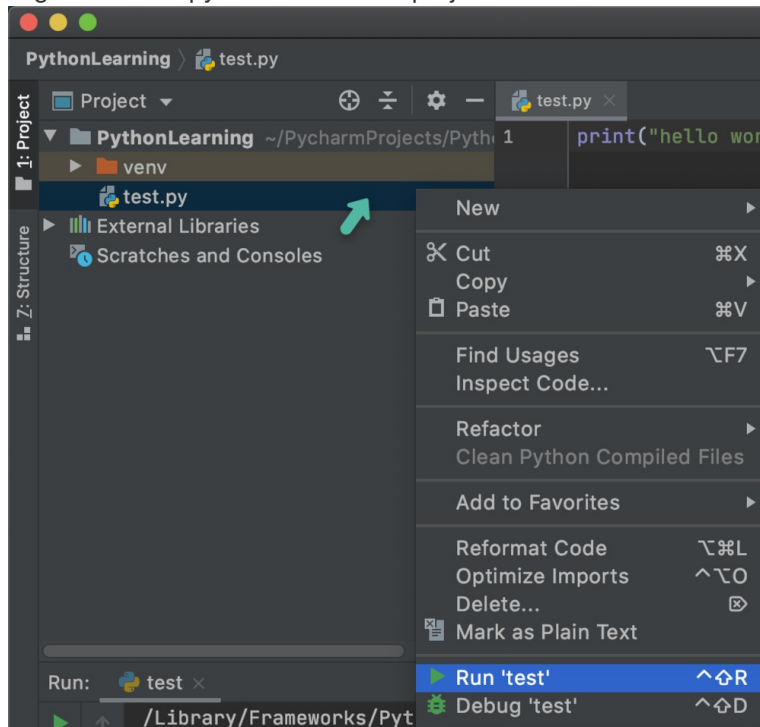
- Click Apply, then OK. you should see the name of your file where "Add Configuration" was previously:



Run a quick test program

- Create a simple hello world application by typing the following line in your .py file:
 - `print("hello world")`

2. Right click the .py file name in the project tree on the left side of the screen, then click "Run {filename.py}"



3. If everything was setup correctly, "hello world" should be printed to the console at the bottom of PyCharm:

