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Install Python

1. Download the latest version of Python from here

2. Double click on the `exe` downloaded file
3. You can use the following command instead

4. Check that Python is installed by typing this cmd in your command prompt

```
In [ ]:   python -m pip install -U pip
```

```
In [ ]:   python --version
```

Installing Pip3

Pip the standard package manager for Python. It allows you to install and manage tools and libraries that don't come with the regular Python package you installed

1-Check that you have it on your machine by typing:

```
In [ ]:   pip3 --version
```

You may need to update your pip by typing:

```
In [ ]:   python.exe -m pip install --upgrade pip
```

install Selenium and dependencies

Type the following commands in the command prompt

1. Install Selenium

```
In [ ]:  pip install -U selenium
```

2. To check that selenium is installed

```
In [ ]:  pip list
```
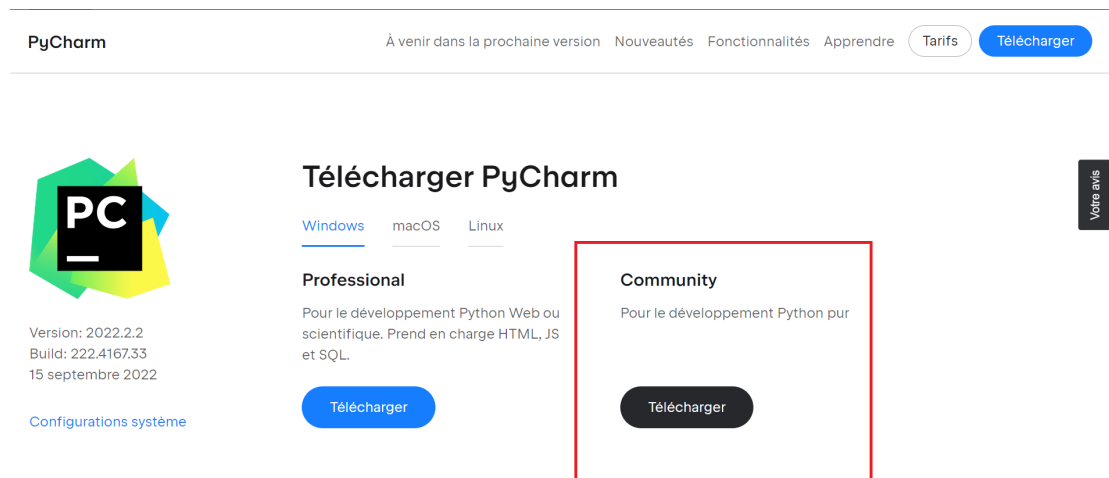
3. Install webdriver manager

```
In [ ]:  pip3 install webdriver-manager
```

4. Install packaging

```
In [ ]: pip3 install packaging
```

# Install PyCharm

- Donwload the community version of PyCharm



# Configure Pycharm

## Create a Project Directory

- Open up `PyCharm` and choose the location on your local machine for your project.
- Name the project folder `SeleniumProject`.
- **IMPORTANT:** `SeleniumProject` is a name I chose, you can change it. You are not allowed to use a space between words. Instead, use the **CamelCase convention**, which means writing the first letter of each word in capitals.
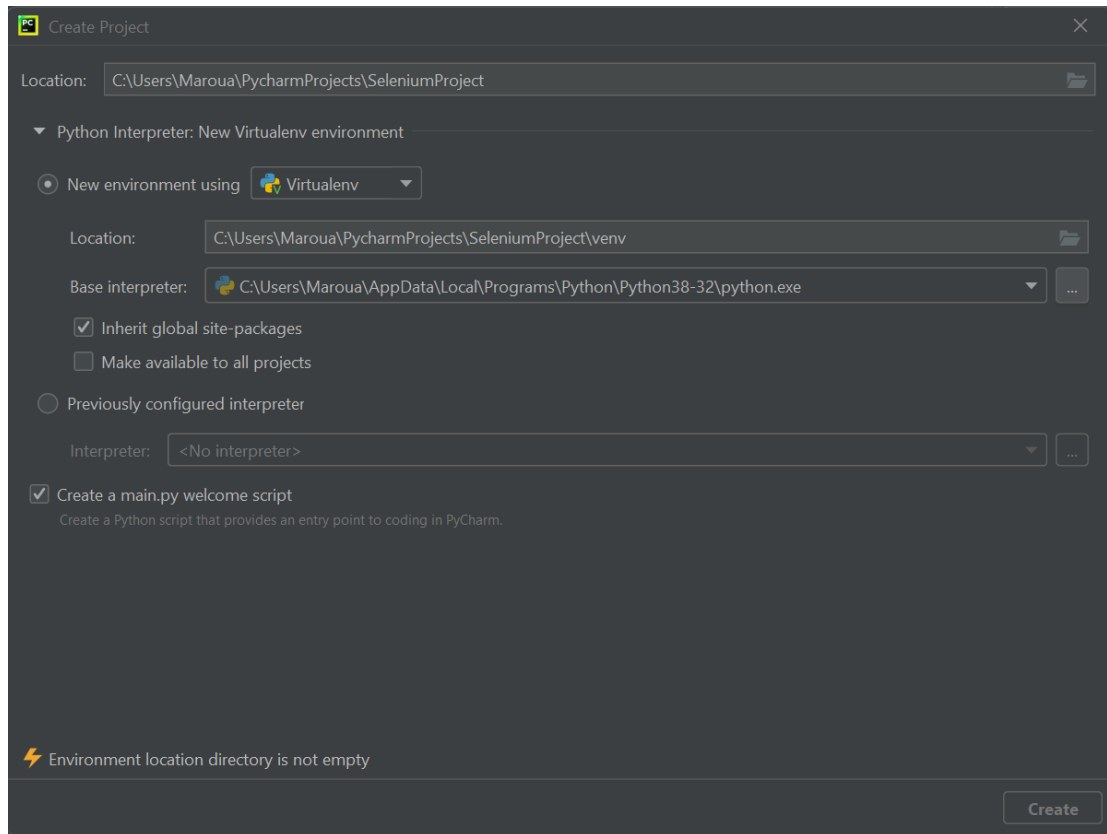
You will want to make sure you have the following options chosen:

- You have chosen the location on your machines file directory and typed `SeleniumProject` .
- You chose a `New environment` using `Virtualenv` , located within the SeleniumProject directory you just created.
- **Check the box to** `Inherit global site-packages` .
- Click `Create` .
- You should see a project like the following.
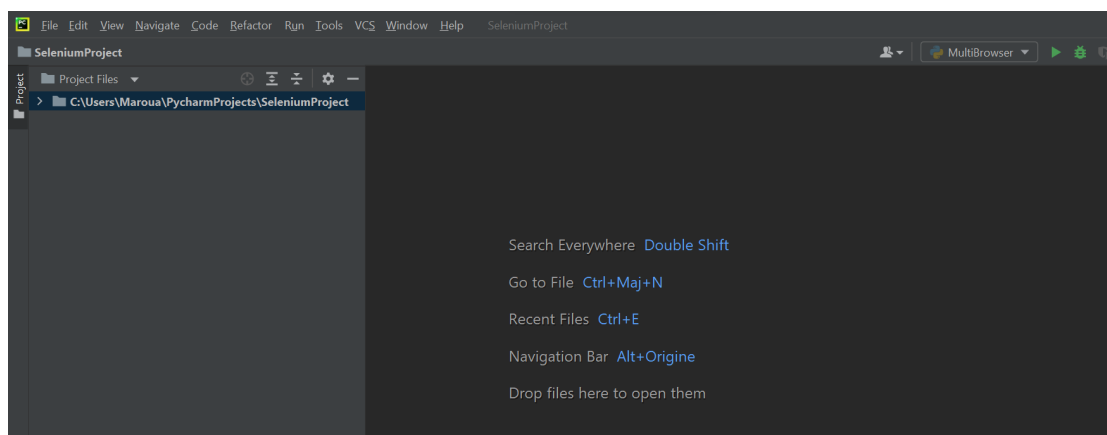


- Open your pycharm IDE
- File
- Setting
- Click on Selenium project
- Click on `project Interpreter`

- Click on the `'+'` button on the right-top of the window
  - Type **Selenium** ⟶ check the `version` ⟶ `Install package`
  - Type **webdriver-manager** ⟶ `version` ⟶ `Install package`
  - Type **packaging** ⟶ `version` ⟶ `Install package`

# First Selenium script

## Steps

There are seven basic elements of a Selenium test script, which apply to any test case and any Application Under Test (AUT):

1. Create a WebDriver instance.
2. Go to a webpage.
3. Locate an HTML element on the web page.
4. Perform an action on the HTML element.
5. Anticipate the browser's response to the action.
6. Run tests and record test results using a test framework.
7. End the test.

## Your first script

- Open PyCharm
- Creat a file called `FirstTestScript.py`
- Type the following lines of code

In [ ]:
```python
#webdriver module provides all the WebDriver implementations
from selenium import webdriver
from selenium.webdriver.chrome.service import Service as ChromeService
from webdriver_manager.chrome import ChromeDriverManager
#The Keys class provide keys in the keyboard like RETURN, F1, ALT, etc.
from selenium.webdriver.common.keys import Keys

#the instance  of Chrome WebDriver is created using webdriver.Chrome
driver =  webdriver.Chrome(service=ChromeService(ChromeDriverManager().install()


#open the URL using the get() method which will navigate to the page given by UR
#WebDriver will wait until the page has fully loaded before returning control to
driver.get("https://www.example.tn/fr/")

# return the URL of the page
print(driver.current_url)

#HTML code of the page
print(driver.page_source)

#close the browser window and not the driver
driver.close()
```