Install WebDriverManager For Selenium

Selenium Using Python Video Playlist
https://www.youtube.com/playlist?list=PLfp-cJ6BH8u9sO59X4pnKwdbcMiAfOHXr
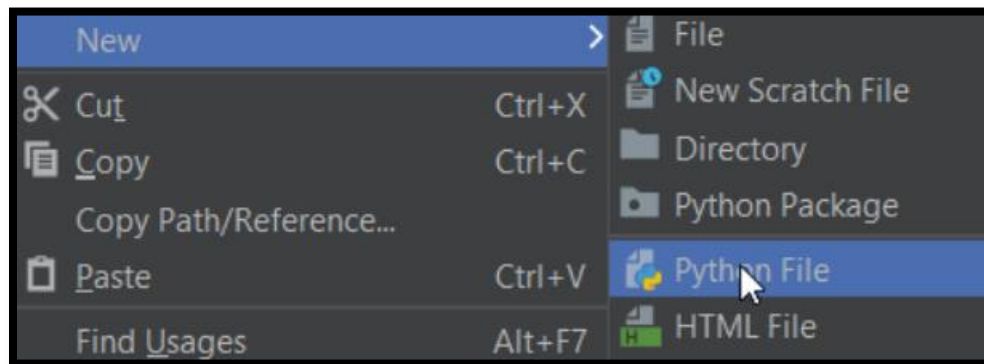
In this session, we are going to drive our browser using webdriver-manager and by downloading the browser drivers. I will show you both ways. The purpose of a browser driver is to set up our browser for automation. Personally, I believe webdriver-manager is the best way to for managing our browser drivers. It is the best way because it automatically takes care of our drivers without needing an update.

To install webdriver-manager, we go to the Terminal then type pip install webdriver-manager.

```
pip install webdriver-manager
```

That's it. Now, we can automate our application. Right click SeleniumTutorials then select New, Python File. The file name will be browser_driver.

Now, let's start with our Test Script. from selenium we import webdriver. Next is from webdriver_manager.chrome we import ChromeDriverManager.

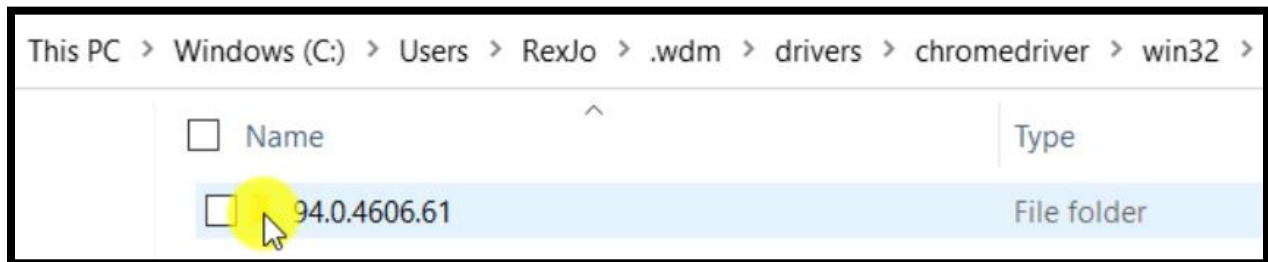The Test Script starts with driver = webdriver.Chrome(ChromeDriverManager().install()).

This statement installs webdriver_manager so we can drive our automation on the Chrome browser. Load a web page by writing driver.get('https://www.google.com').

```
from selenium import webdriver
from webdriver_manager.chrome import ChromeDriverManager

driver = webdriver.Chrome(ChromeDriverManager().install())
driver.get("https://www.google.com")
```

Let's run. The page loaded without a problem.

Notice the console shows my current browser version is 94 and then it says "Get LATEST driver version". Click internal line and it shows the location of the chromedriver.exe file. Here's the location in Windows Explorer. We see the drivers folder, chromedriver, win32, and my browser version 94. When I click version 94, we see chromedriver.exe.

This PC > Windows (C:) > Users > RexJo > .wdm > drivers > chromedriver > win32 >

Name	Type
94.0.4606.61	File folder

This PC > Windows (C:) > Users > RexJo > .wdm > drivers > chromedriver > win32 > 94.0.4606.61

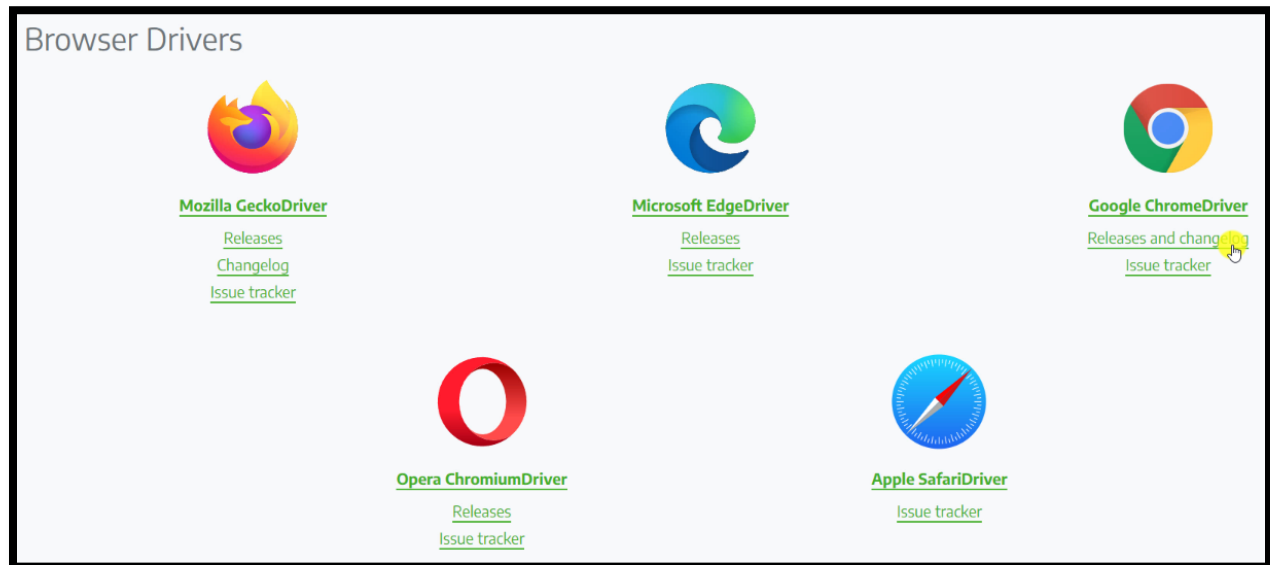| Name	Type	Size
chromedriver.exe	Application	

chromedriver.exe is a standalone server and a required separate executable that WebDriver uses to control Chrome. We have executables for all major browsers such as Firefox, Edge, Opera, IE, and Safari.

That's important because it goes back to what I said in the introduction. webdriver-manager automatically takes care of the drivers. This shows the chromedriver.exe file was automatically downloaded. The original way requires us to manually download the driver then add the executable path to our Test Script. Let me show you by commenting (#) the install step then write driver = webdriver.Chrome() and run.

```
#driver = webdriver.Chrome(ChromeDriverManager().install())
driver = webdriver.Chrome()
driver.get("https://www.google.com")
```
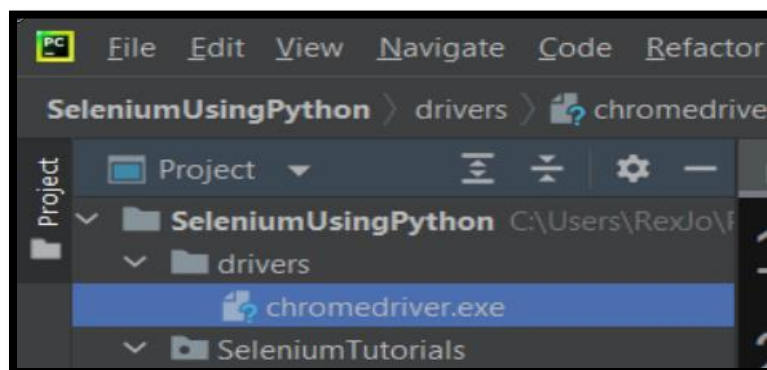
The console returns "'chromedriver' executable needs to be in PATH". That means, we must download the chromedriver.exe file then add the file to a path.

Let's walk through the process by going to the selenium.dev/ecosystem website. We see the browser drivers for each major browser.

Go to Releases and changelog for ChromeDriver. We see the Current Release and the previous releases. Each release supports a particular Chrome browser version.

If you want to add chromedriver this way then first find the browser version by going to these 3 vertical dots, then click Help, and go to About Google Chrome. We see Version 94. Click the link for ChromeDriver 94 and select the link for your operating system. chromedriver_win32_zip to download the file. Unzip the file. Go back to the project and create a directory. Right click, New, Directory and the Name is drivers. Drag and drop chromedriver.exe into the drivers directory.

Inside the parenthesis, type the (executable_path="/drivers/chromedriver.exe") then Run.

```
#driver = webdriver.Chrome(ChromeDriverManager().install())
driver = webdriver.Chrome(executable_path="/drivers/chromedriver.exe")
driver.get("https://www.google.com")
```

Now the page loaded without a problem. Those are the 2 ways to drive our browser for Selenium automation.

Contact Info

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