**What is Selenium?**

Selenium is an open-source tool that automates web browsers. It provides a single interface that lets you write test scripts in programming languages like Ruby, Java, NodeJS, PHP, Perl, Python, and C#, among others.

A browser-driver then executes these scripts on a browser-instance on your device.

**Selenium (Python) Installation:**

Prerequisite: Python version 3.7+ should be there,

Download and install selenium using pip on Anaconda command prompt.

|  |
| --- |
| pip install selenium |

It will install selenium for python through the command line interface. There are other methods available to install selenium: follow the link:

<https://pypi.org/project/selenium/>

To work with selenium, web-browser plugins need to be installed. In this example, we are considering Google Chrome driver. For other supported browsers, please follow the link given above. For google chrome, follow the link below and download the latest driver.

<https://chromedriver.chromium.org/downloads>

Currently the latest version is 101.0.4951.15, but it needs existing google chrome version 101+, We are using google chrome version 100.0.4896.88, so it needs driver 100.0.4896+. After clicking on this link, it will open another page to select appropriate version. In our case we are using Windows operating system on a 64-bit machine, but there is only one file available for 32-bit Windows systems. so, we are downloading that: **chromedriver\_win32.zip**. It is a zip file and extract the exe to your directory where you are going to write your selenium programs. The exe filename is “chromedriver.exe”.

For the rest, follow the (ipynb) notebook file.

For more details refer: <https://www.browserstack.com/selenium>

Graphical user interface, application

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