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Python • Selenium

# Introduction to Selenium in Python 3

4 months ago • by Shahriar Shovon

Selenium is a framework used for testing web applications. Selenium automates a browser, such as Chrome or Firefox, to run tests on your desired website.

Selenium is also a very powerful web scraping tool. Selenium supports JavaScript and all the modern browser features. This tool is very effective at extracting information from websites.

This article will show you how to set up Selenium on your Linux distribution (i.e., Ubuntu), as well as how to perform basic web automation and web scrapping with the Selenium Python 3 library.

## Prerequisites

To try out the commands and examples used in this article, you must have the following:

- 1) A Linux distribution (preferably Ubuntu) installed on your computer.
- 2) Python 3 installed on your computer.
- 3) PIP 3 installed on your computer.
- 4) The Google Chrome or Firefox web browser installed on your computer.



You can find many articles on these topics at [LinuxHint.com](https://linuxhint.com/). Be sure to check these articles out if you need any further assistance.

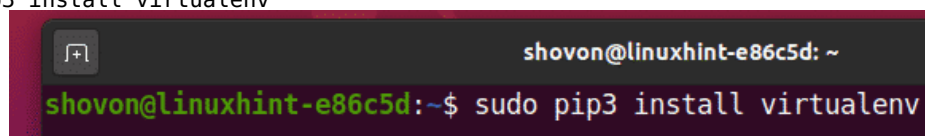
### Preparing Python 3 Virtual Environment for the Project

The Python Virtual Environment is used to create an isolated Python project directory. The Python modules that you install using PIP will be installed in the project directory only, rather than globally.

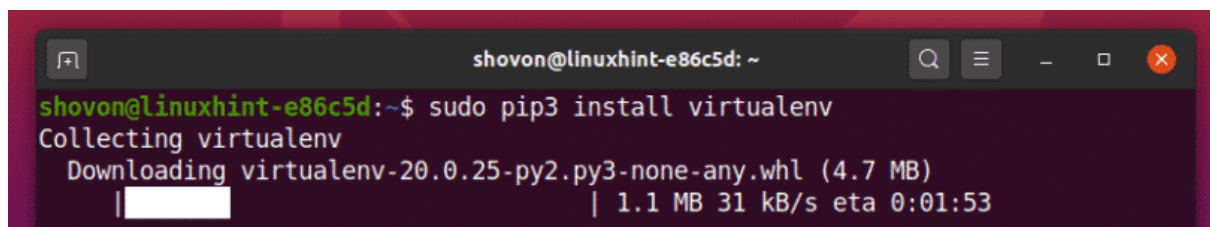
The Python **virtualenv** module is used to manage Python virtual environments.

You can install the Python **virtualenv** module globally using PIP 3, as follows:

```
$ sudo pip3 install virtualenv
```

A terminal window with a dark background. The prompt is 'shovon@linuxhint-e86c5d: ~'. The command 'sudo pip3 install virtualenv' has been entered and is highlighted in green.

PIP3 will download and globally install all the required modules.

A terminal window showing the output of the command 'sudo pip3 install virtualenv'. The output is: 'Collecting virtualenv', 'Downloading virtualenv-20.0.25-py2.py3-none-any.whl (4.7 MB)', and a progress bar showing '1.1 MB 31 kB/s eta 0:01:53'.



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At this point, the Python **virtualenv** module should be installed globally.

Create the project directory **python-selenium-basic/** in your current working directory, as follows:

```
$ mkdir -pv python-selenium-basic/drivers
```



Navigate to your newly created project directory **python-selenium-basic/**, as follows:

```
$ cd python-selenium-basic/
```

Create a Python virtual environment in your project directory with the following command:

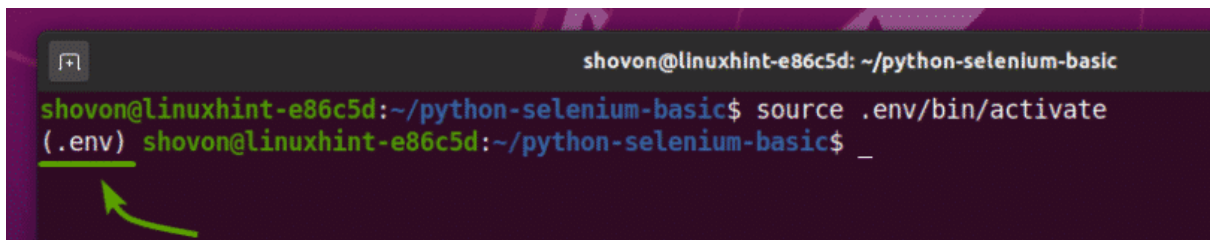
```
$ virtualenv .env
```

The Python virtual environment should now be created in your project directory.'

Activate the Python virtual environment in your project directory via the following command:



As you can see, the Python virtual environment is activated for this project directory.



```
shovon@linuxhint-e86c5d: ~/python-selenium-basic
shovon@linuxhint-e86c5d:~/python-selenium-basic$ source .env/bin/activate
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ _
```

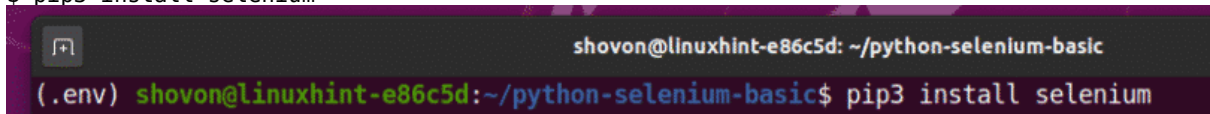
A green arrow points to the `(.env)` prefix in the prompt, indicating the virtual environment is active.

## Installing Selenium Python Library

The Selenium Python library is available in the official Python PyPI repository.

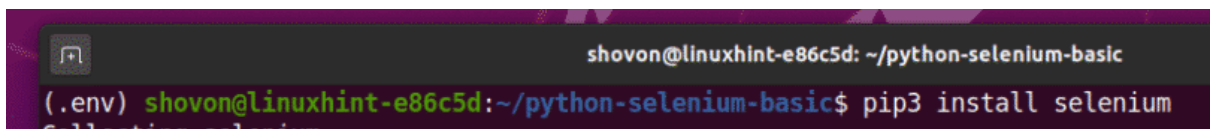
You can install this library using PIP 3, as follows:

```
$ pip3 install selenium
```



```
shovon@linuxhint-e86c5d: ~/python-selenium-basic
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ pip3 install selenium
```

The Selenium Python library should now be installed.



```
shovon@linuxhint-e86c5d: ~/python-selenium-basic
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ pip3 install selenium
```

The output "Collecting selenium" is partially visible below the command.



```
Downloading urllib3-1.25.9-py2.py3-none-any.whl (126 kB)
| [REDACTED] | 126 kB 632 kB/s
Installing collected packages: urllib3, selenium
Successfully installed selenium-3.141.0 urllib3-1.25.9
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ _
```

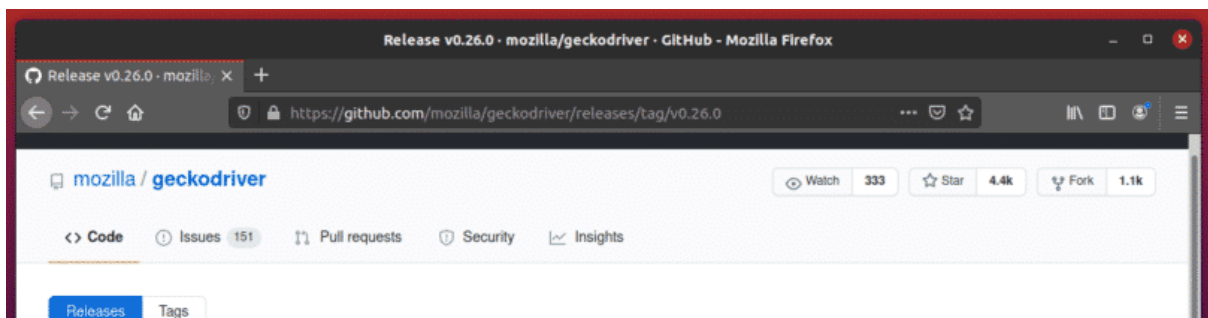
Now that the Selenium Python library is installed, the next thing you have to do is install a web driver for your favorite web browser. In this article, I will show you how to install the Firefox and Chrome web drivers for Selenium.

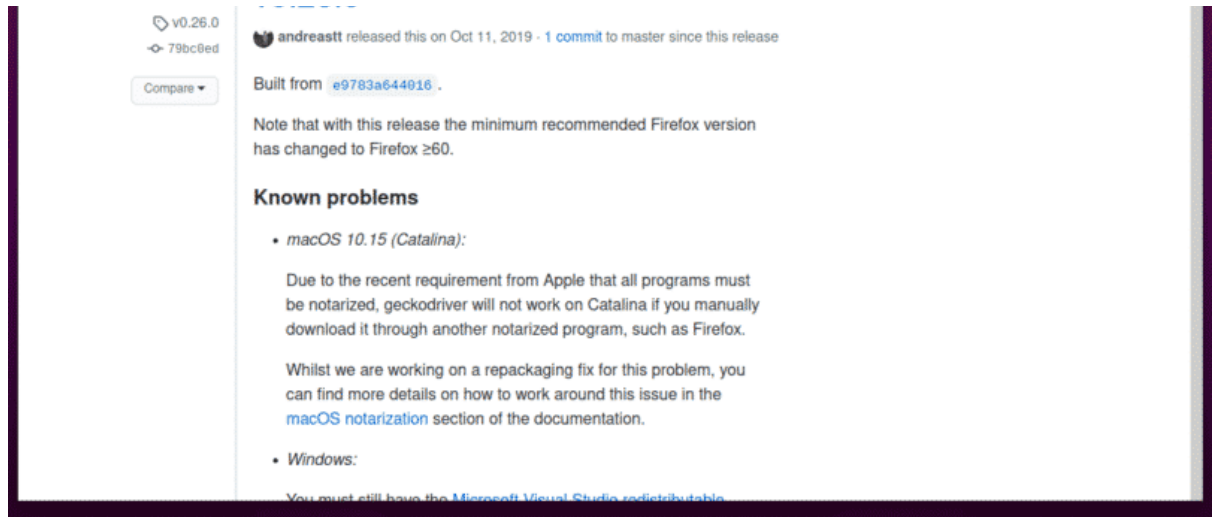
### Installing Firefox Gecko Driver

The Firefox Gecko Driver allows you to control or automate the Firefox web browser using Selenium.

To download the Firefox Gecko Driver, visit the [GitHub releases page of mozilla/geckodriver](https://github.com/mozilla/geckodriver/releases/tag/v0.26.0) from a web browser.

As you can see, v0.26.0 is the latest version of the Firefox Gecko Driver at the time this article was written.



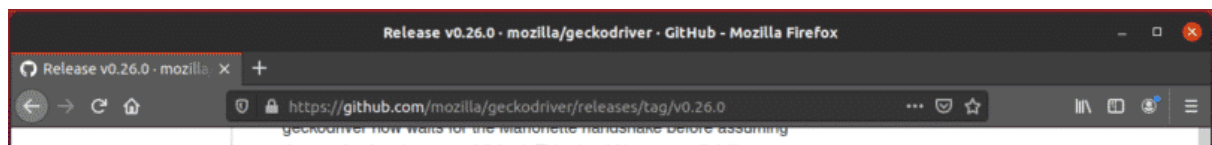


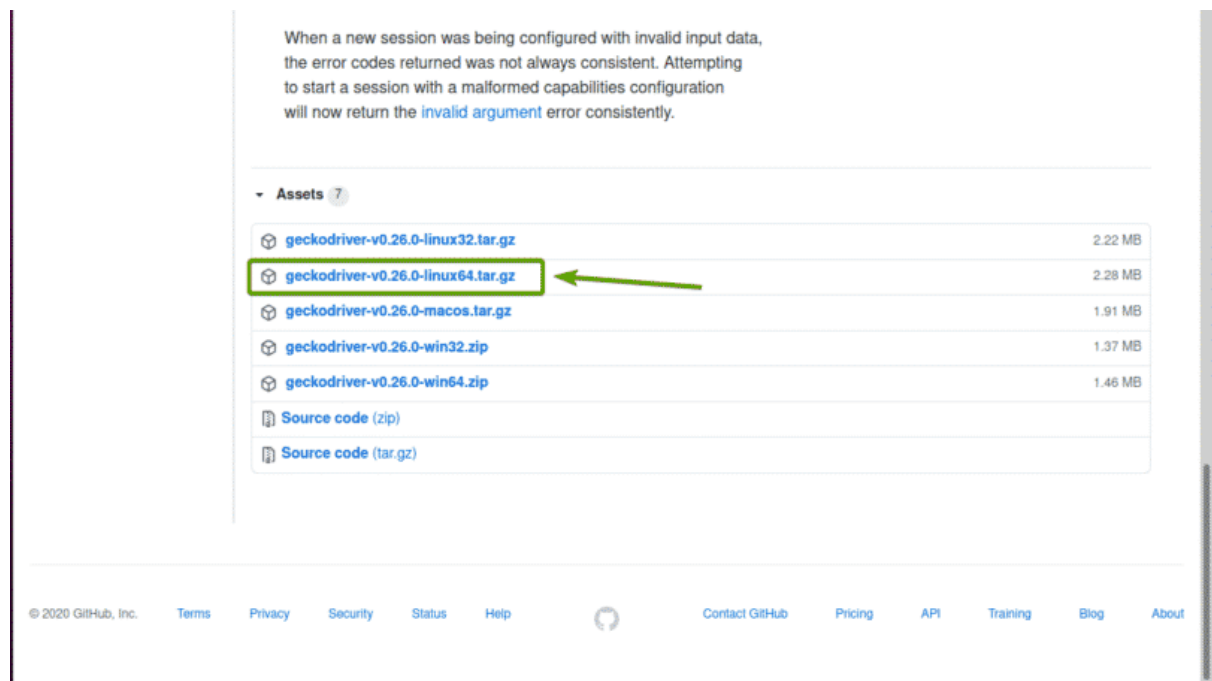
To download the Firefox Gecko Driver, scroll down a bit and click on the Linux geckodriver tar.gz archive, depending on your operating system architecture.

If you are using a 32-bit operating system, click the **geckodriver-v0.26.0-linux32.tar.gz** link.

If you are using a 64-bit operating system, click the **geckodriver-v0.26.0-linuxx64.tar.gz** link.

In my case, I will download the 64-bit version of the Firefox Gecko Driver.





Your browser should prompt you to save the archive. Select **Save File** and then click **OK**.





The Firefox Gecko Driver archive should be downloaded in the **~/Downloads** directory.

Extract the **geckodriver-v0.26.0-linux64.tar.gz** archive from the **~/Downloads** directory to the **drivers/** directory of your project by entering the following command:

```
$ tar -xzf ~/Downloads/geckodriver-v0.26.0-linux64.tar.gz -C drivers/
```

Once the Firefox Gecko Driver archive is extracted, a new **geckodriver** binary file should be created in the **drivers/** directory of your project, as you can see in the screenshot below.



## Testing Selenium Firefox Gecko Driver

In this section, I will show you how to set up your very first Selenium Python script to test whether the Firefox Gecko Driver is working.

First, open the project directory **python-selenium-basic/** with your favorite IDE or editor. In this article, I will use Visual Studio Code.



Create the new Python script **ex01.py**, and type the following lines in the script.

```
from selenium import webdriver
from selenium.webdriver.common.keys import Keys
from time import sleep
browser = webdriver.Firefox(executable_path='./drivers/geckodriver')
browser.get('http://www.google.com')
sleep(5)
browser.quit()
```

Once you are done, save the **ex01.py** Python script.

I will explain the code in a later section of this article.

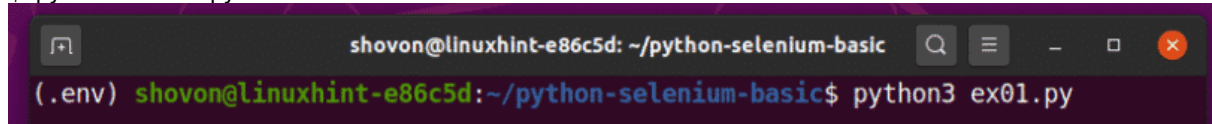
The following line configures Selenium to use the Firefox Gecko Driver from the



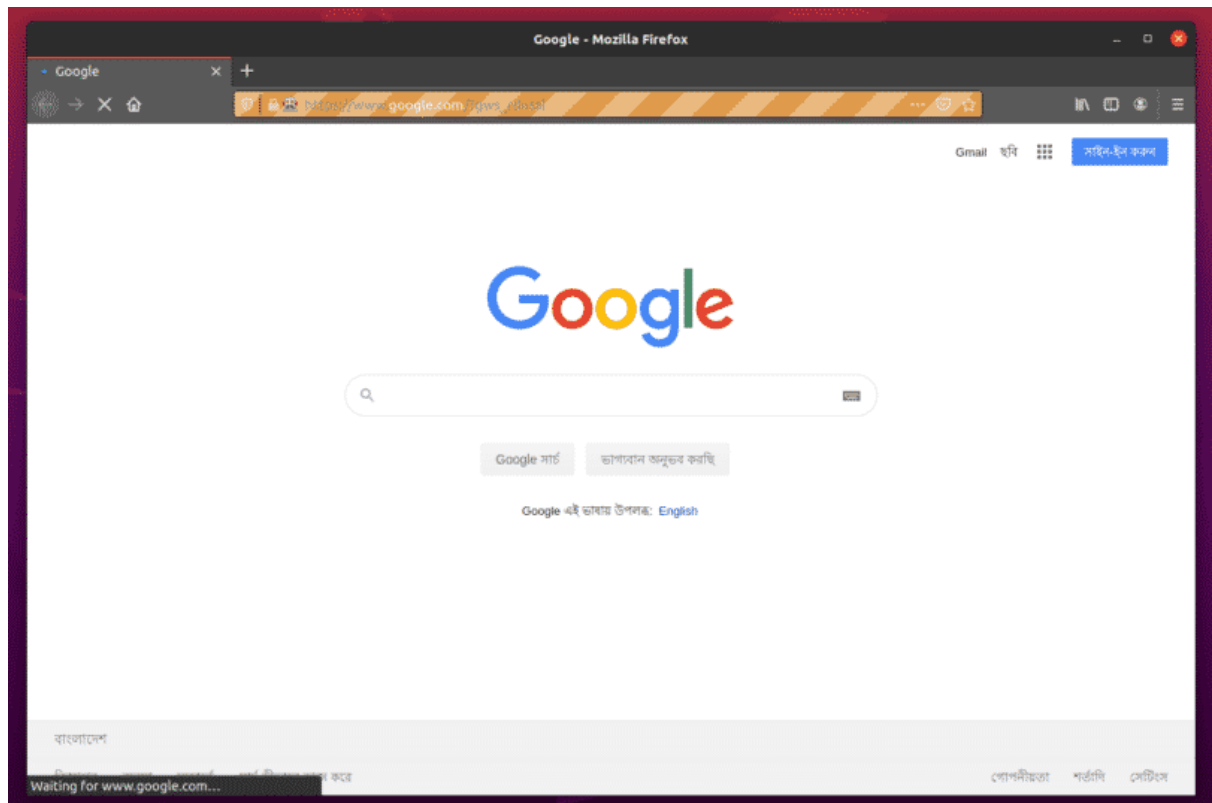
```
browser = webdriver.Firefox(executable_path="./drivers/geckodriver")
```

To test whether the Firefox Gecko Driver is working with Selenium, run the following **ex01.py** Python script:

```
$ python3 ex01.py
```



The Firefox web browser should automatically visit Google.com and close itself after 5 seconds. If this occurs, then the Selenium Firefox Gecko Driver is working correctly.



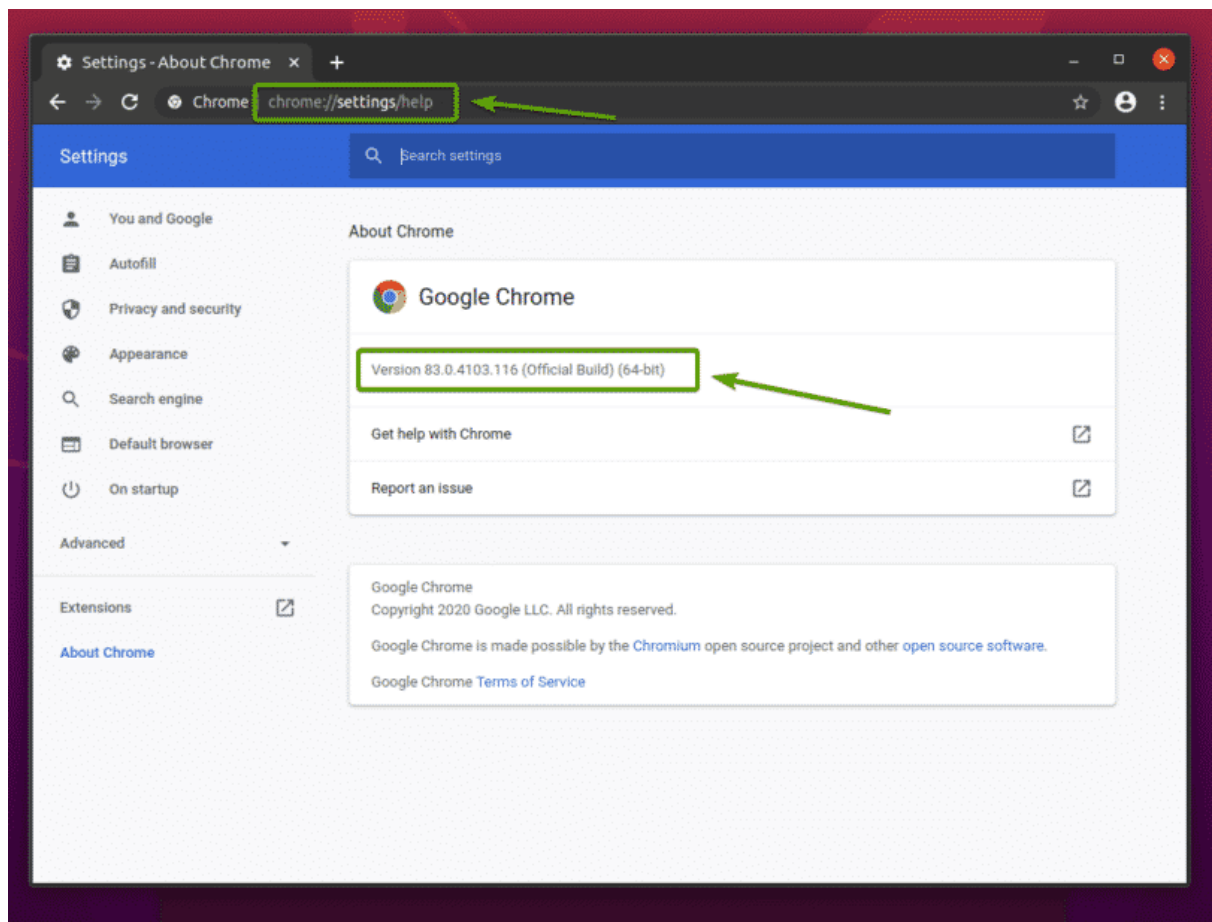
## Installing Chrome Web Driver

The Chrome Web Driver allows you to control or automate the Google Chrome web browser using Selenium.

Google Chrome web browser.

To find the version number of your Google Chrome web browser, visit <chrome://settings/help> in Google Chrome. The version number should be in the **About Chrome** section, as you can see in the screenshot below.

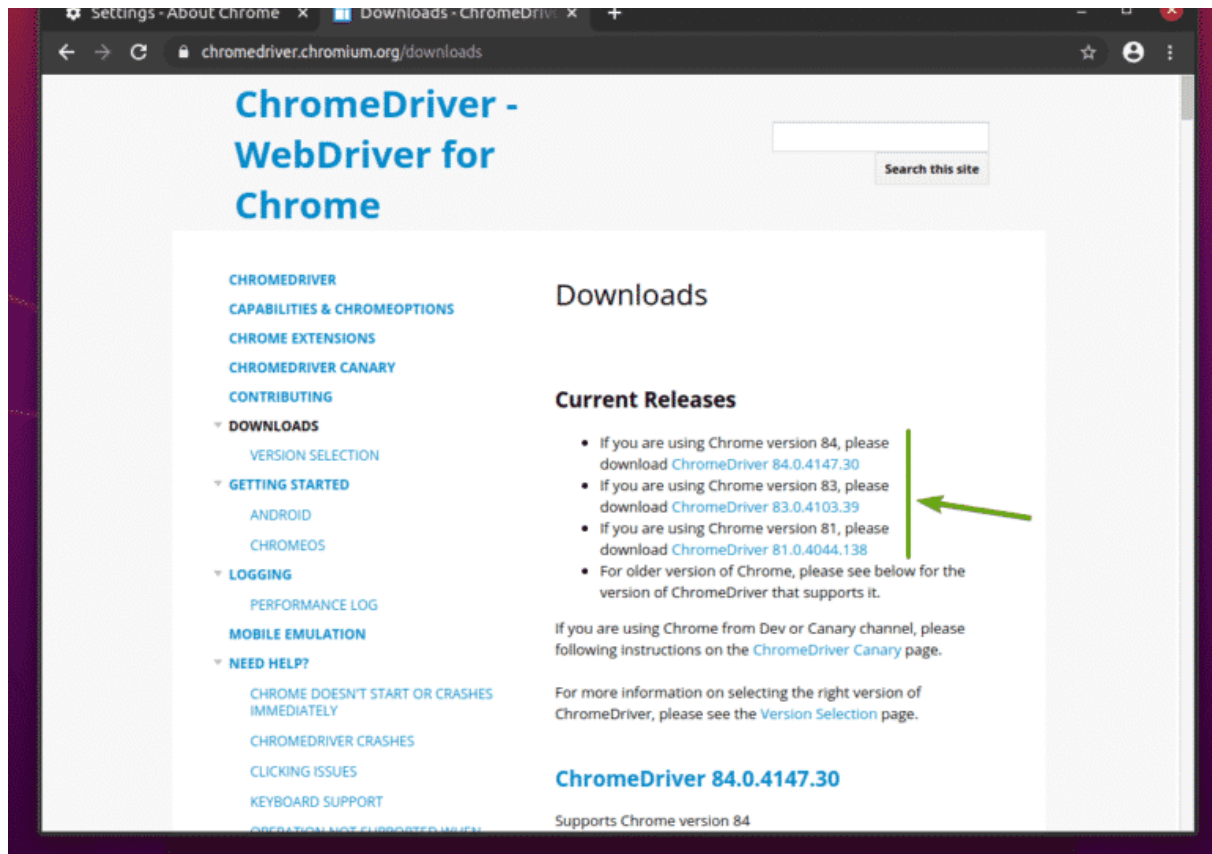
In my case, the version number is **83.0.4103.116**. The first three parts of the version number (**83.0.4103**, in my case) must match the first three parts of the Chrome Web Driver version number.



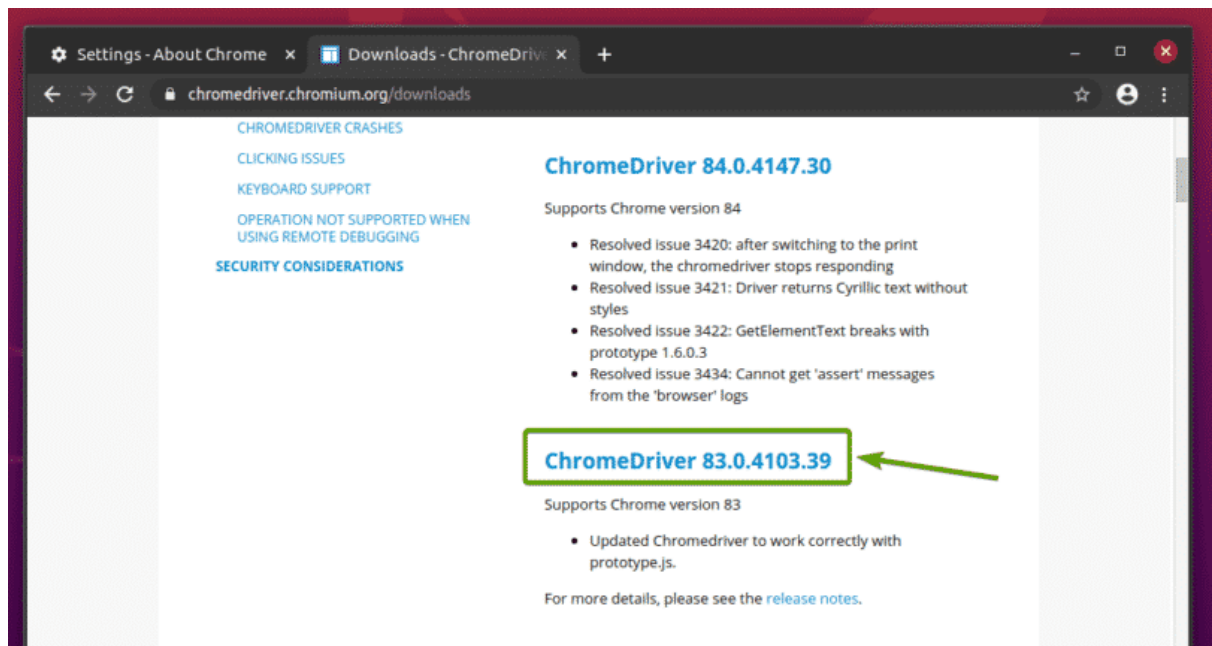
To download Chrome Web Driver, visit the [official Chrome Driver download page](#).

In the **Current Releases** section, the Chrome Web Driver for the most current releases of the Google Chrome web browser will be available, as you can see in the screenshot below.



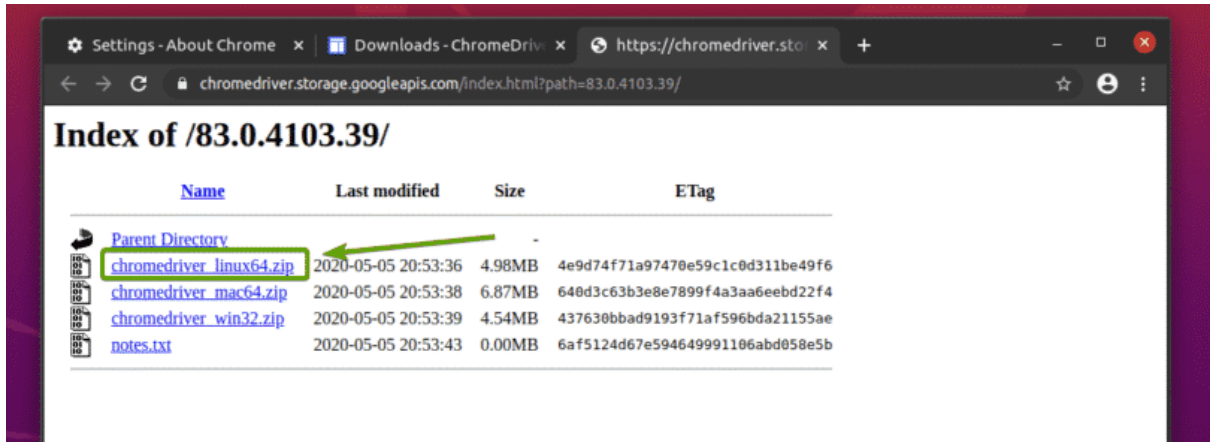


If the version of Google Chrome you are using is not in the **Current Releases** section, scroll down a little, and you should find your desired version.

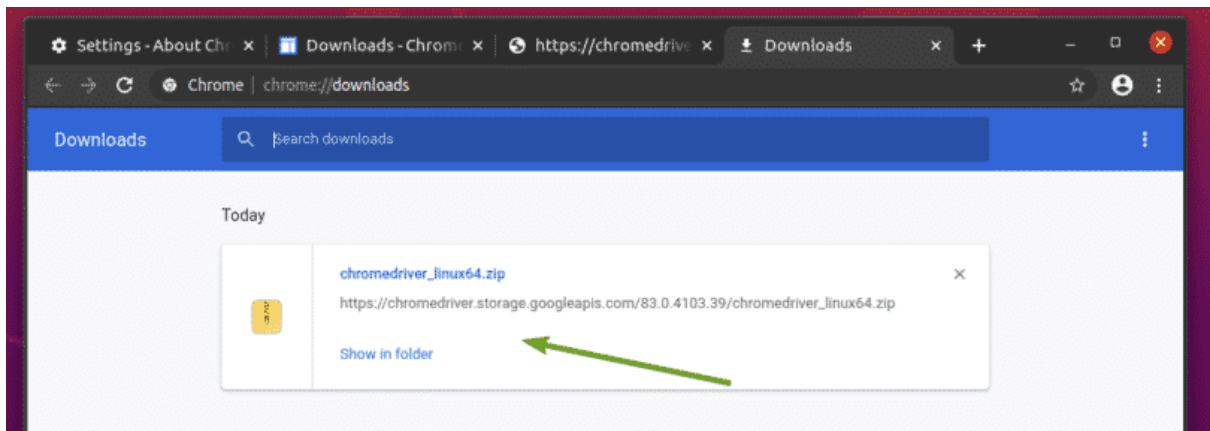


- Resolved issue 1778: Deprecate launchApp from ChromeDriver
- Resolved issue 2520: InitSession can wait forever when Chrome is unresponsive
- Resolved issue 3120: Headless mode download from new tab
- Resolved issue 3234: Confirm semicolon found before

Once you click on the correct Chrome Web Driver version, it should take you to the following page. Click on the **chromedriver\_linux64.zip** link, as notated in the screenshot below.



The Chrome Web Driver archive should now be downloaded.

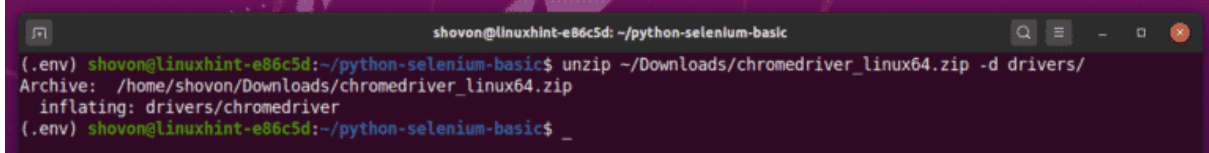


The Chrome Web Driver archive should now be downloaded in the **~/Downloads** directory.

You can extract the **chromedriver-linux64.zip** archive from the **~/Downloads** directory to the **drivers/** directory of your project with the following command:

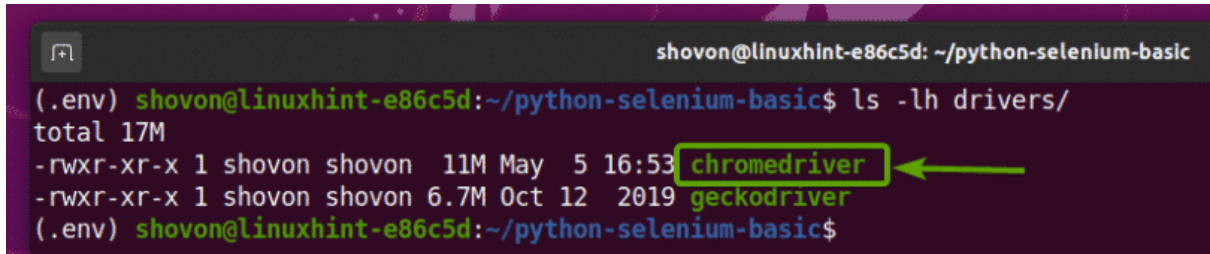


```
$ unzip ~/Downloads/chromedriver_linux64.zip -d drivers/
```



```
shovon@linuxhint-e86c5d: ~/python-selenium-basic  
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ unzip ~/Downloads/chromedriver_linux64.zip -d drivers/  
Archive: /home/shovon/Downloads/chromedriver_linux64.zip  
inflating: drivers/chromedriver  
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ _
```

Once the Chrome Web Driver archive has been extracted, a new **chromedriver** binary file should be created in the **drivers/** directory of your project, as you can see in the screenshot below.



```
shovon@linuxhint-e86c5d: ~/python-selenium-basic  
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ ls -lh drivers/  
total 17M  
-rwxr-xr-x 1 shovon shovon 11M May  5 16:53 chromedriver  
-rwxr-xr-x 1 shovon shovon 6.7M Oct 12  2019 geckodriver  
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$
```

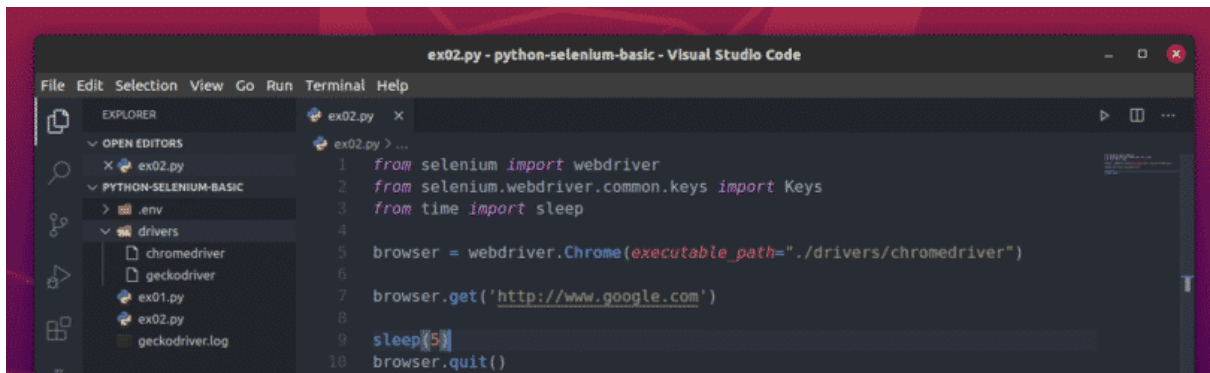
## Testing Selenium Chrome Web Driver

In this section, I will show you how to set up your very first Selenium Python script to test whether the Chrome Web Driver is working.

First, create the new Python script **ex02.py**, and type the following lines of codes in the script.

```
from selenium import webdriver  
from selenium.webdriver.common.keys import Keys  
from time import sleep  
browser = webdriver.Chrome(executable_path="./drivers/chromedriver")  
browser.get('http://www.google.com')  
sleep(5)  
browser.quit()
```

Once you are done, save the **ex02.py** Python script.



```
ex02.py - python-selenium-basic - Visual Studio Code  
File Edit Selection View Go Run Terminal Help  
EXPLORER  
OPEN EDITORS  
X ex02.py  
PYTHON-SELENIUM-BASIC  
> env  
drivers  
  chromedriver  
  geckodriver  
ex01.py  
ex02.py  
geckodriver.log  
ex02.py  
1 from selenium import webdriver  
2 from selenium.webdriver.common.keys import Keys  
3 from time import sleep  
4  
5 browser = webdriver.Chrome(executable_path="./drivers/chromedriver")  
6  
7 browser.get('http://www.google.com')  
8  
9 sleep(5)  
10 browser.quit()
```





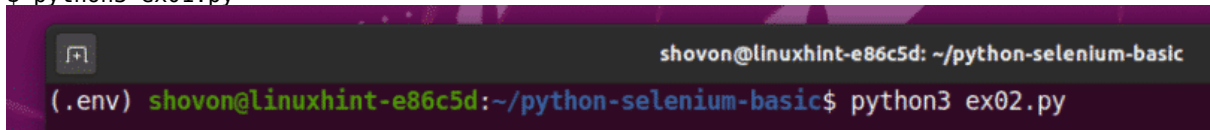
I will explain the code in a later section of this article.

The following line configures Selenium to use the Chrome Web Driver from the **drivers/** directory of your project.

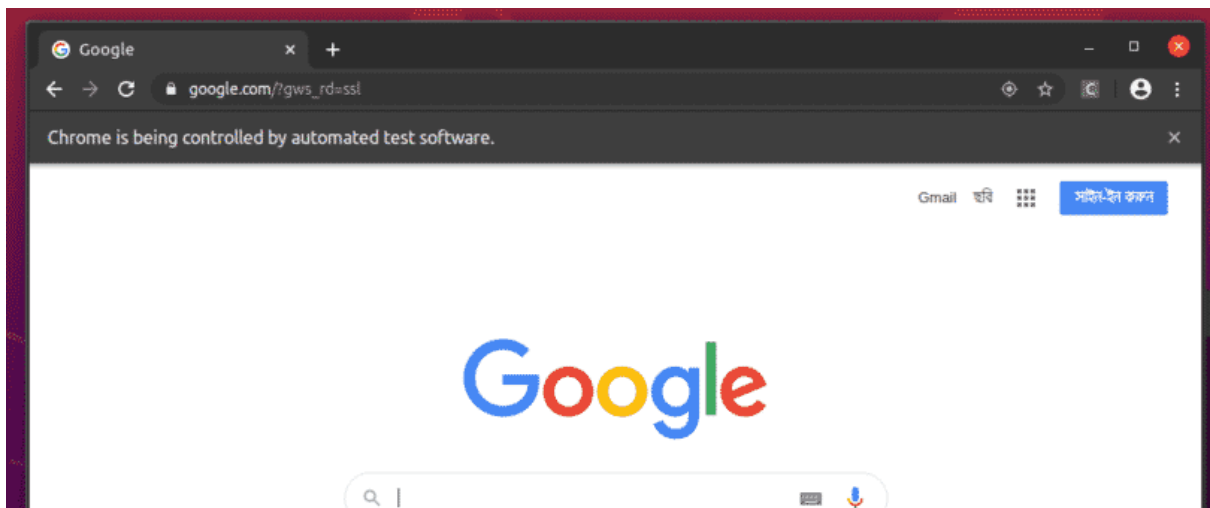
```
browser = webdriver.Chrome(executable_path="./drivers/chromedriver")
```

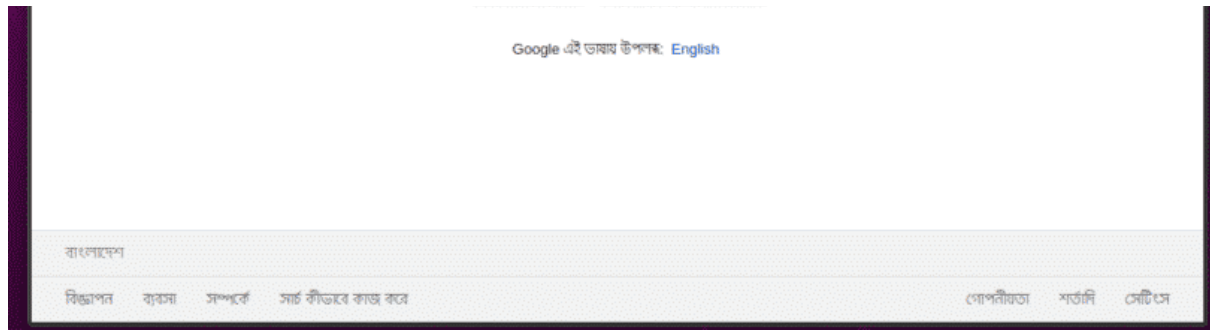
To test whether the Chrome Web Driver is working with Selenium, run the **ex02.py** Python script, as follows:

```
$ python3 ex01.py
```



The Google Chrome web browser should automatically visit Google.com and close itself after 5 seconds. If this occurs, then the Selenium Firefox Gecko Driver is working correctly.

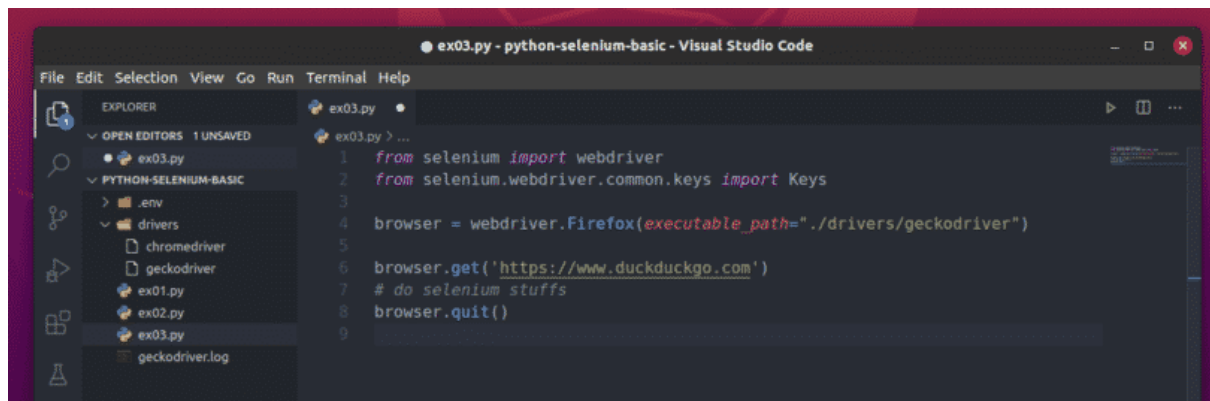




## Basics of Web Scraping with Selenium

I will be using the Firefox web browser from now on. You can also use Chrome, if you would like.

A basic Selenium Python script should look like the script shown in the screenshot below.



First, import the Selenium **webdriver** from the **selenium** module.

```
1 from selenium import webdriver
```

Next, import the **Keys** from **selenium.webdriver.common.keys**. This will help you send keyboard key presses to the browser you are automating from Selenium.

```
2 from selenium.webdriver.common.keys import Keys
```

The following line creates a **browser** object for the Firefox web browser using the Firefox Gecko Driver (Webdriver). You can control Firefox browser actions using



```
4 browser = webdriver.Firefox(executable_path="./drivers/geckodriver")
```

To load a website or URL (I will be loading the website <https://www.duckduckgo.com>), call the **get()** method of the **browser** object on your Firefox browser.

```
6 browser.get('https://www.duckduckgo.com')
```

Using Selenium, you can write your tests, perform web scrapping, and finally, close the browser using the **quit()** method of the **browser** object.

```
7 # do selenium stuffs
8 browser.quit()
9
```

Above is the basic layout of a Selenium Python script. You will be writing these lines in all of your Selenium Python scripts.

### Example 1: Printing the Title of a Webpage

This will be the easiest example discussed using Selenium. In this example, we will print the title of the webpage we will be visiting.

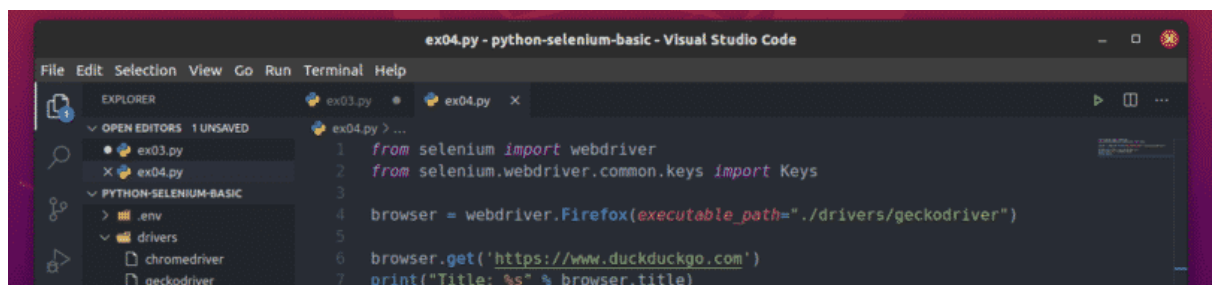
Create the new file **ex04.py** and type the following lines of codes in it.

```
from selenium import webdriver
from selenium.webdriver.common.keys import Keys

browser = webdriver.Firefox(executable_path="./drivers/geckodriver")

browser.get('https://www.duckduckgo.com')
print("Title: %s" % browser.title)
browser.quit()
```

Once you are done, save the file.





Here, the **browser.title** is used to access the title of the visited webpage and the **print()** function will be used to print the title in the console.

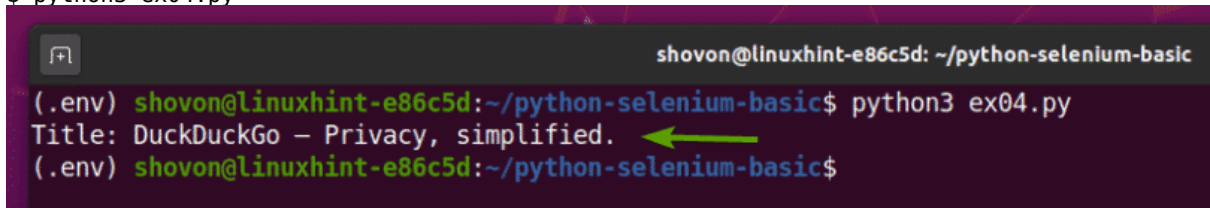
```
7 print("Title: %s" % browser.title)
```

After running the **ex04.py** script, it should:

- 1) Open up Firefox
- 2) Load your desired webpage
- 3) Fetch the title of the page
- 4) Print the title on the console
- 5) And finally, close the browser

As you can see, the **ex04.py** script has printed the title of the webpage nicely in the console.

```
$ python3 ex04.py
```



## Example 2: Printing the Titles of Multiple Webpages

As in the previous example, you can use the same method to print the title of multiple webpages using the Python loop.

To understand how this works, create the new Python script **ex05.py** and type the following lines of code in the script:

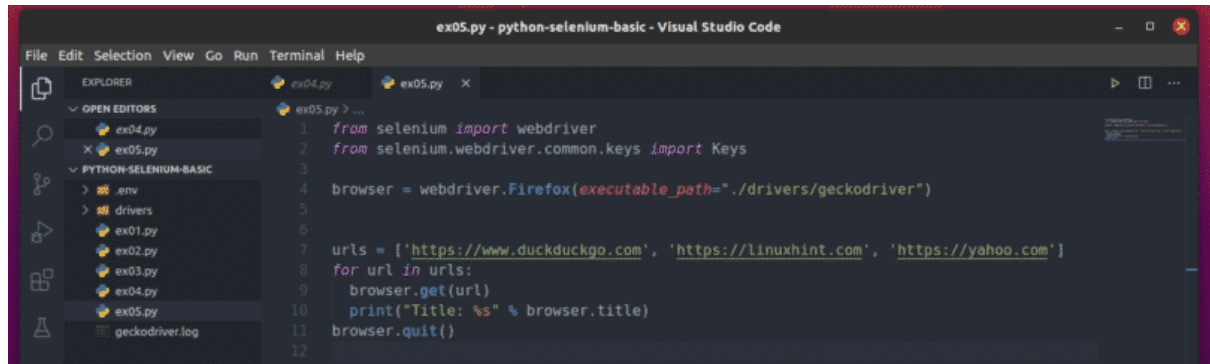
```
from selenium import webdriver
from selenium.webdriver.common.keys import Keys

browser = webdriver.Firefox(executable_path="./drivers/geckodriver")

urls = ['https://www.duckduckgo.com', 'https://linuxhint.com', 'https://yahoo.com']
for url in urls:
    browser.get(url)
    print("Title: %s" % browser.title)
```



Once you are done, save the Python script **ex05.py**.



Here, the **urls** list keeps the URL of each webpage.

```
7  urls = ['https://www.duckduckgo.com', 'https://linuxhint.com', 'https://yahoo.com']
```

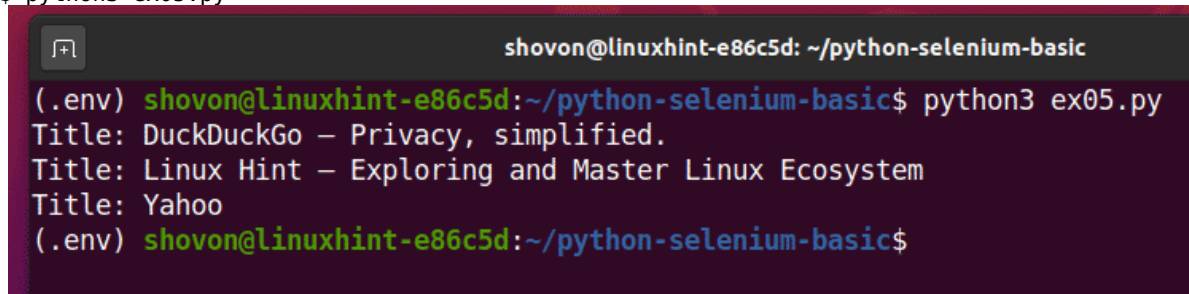
A **for** loop is used to iterate through the **urls** list items.

On each iteration, Selenium tells the browser to visit the **url** and get the title of the webpage. Once Selenium has extracted the title of the webpage, it is printed in the console.

```
for url in urls:
    browser.get(url)
    print("Title: %s" % browser.title)
```

Run the Python script **ex05.py**, and you should see the title of each webpage in the **urls** list.

```
$ python3 ex05.py
```



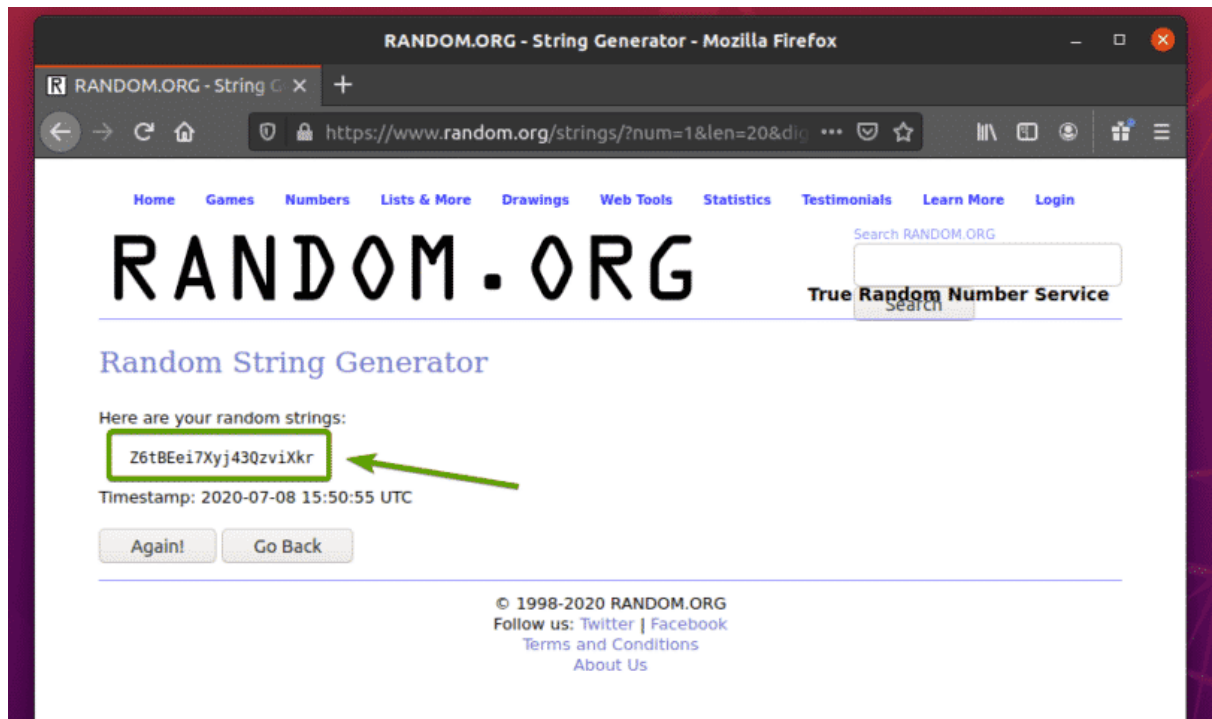
This is an example of how Selenium can perform the same task with multiple



### Example 3: Extracting Data from a Webpage

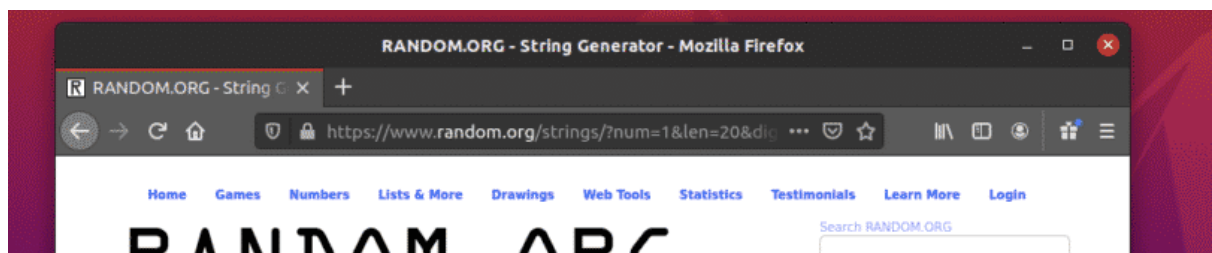
In this example, I will show you the basics of extracting data from webpages using Selenium. This is also known as web scraping.

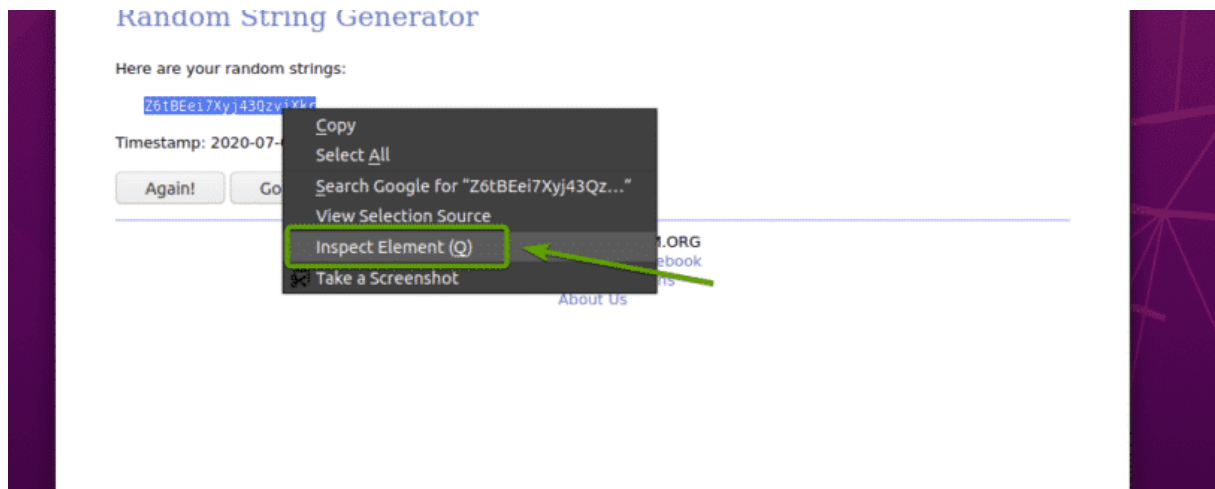
First, visit the [Random.org](https://www.random.org) link from Firefox. The page should generate a random string, as you can see in the screenshot below.



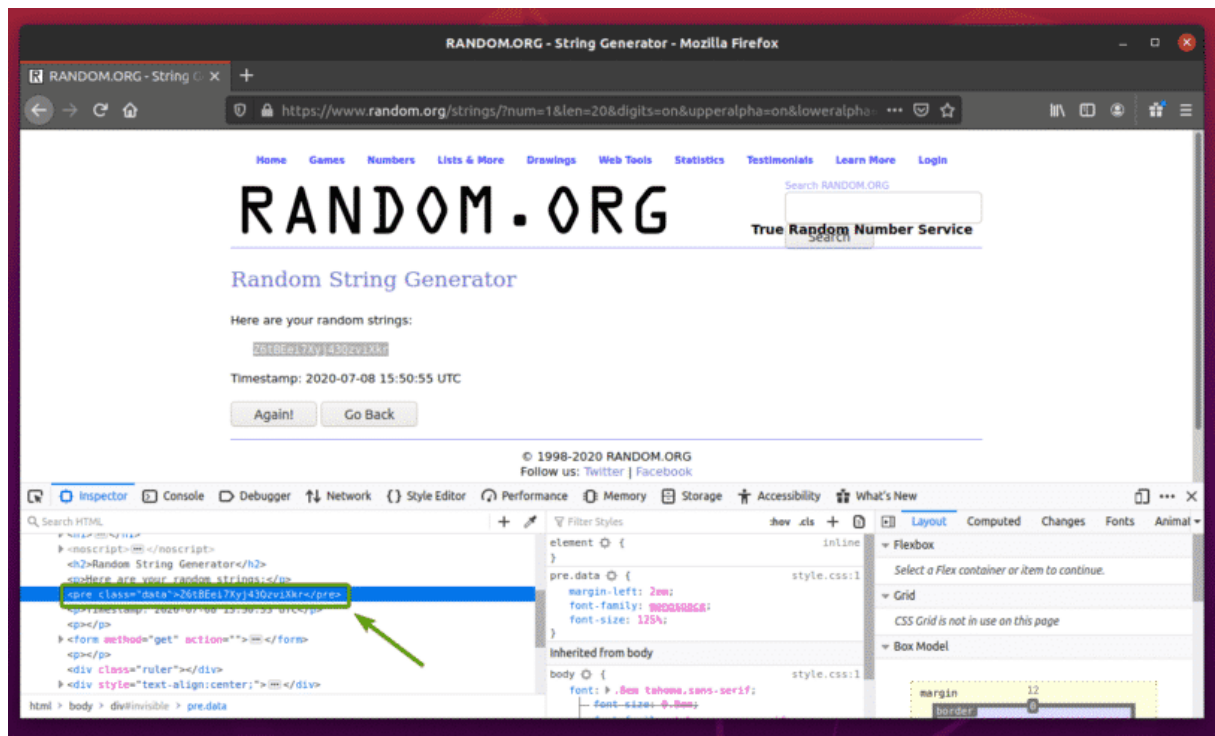
To extract the random string data using Selenium, you must also know the HTML representation of the data.

To see how the random string data is represented in HTML, select the random string data and press the right mouse button (RMB) and click on **Inspect Element (Q)**, as notated in the screenshot below.

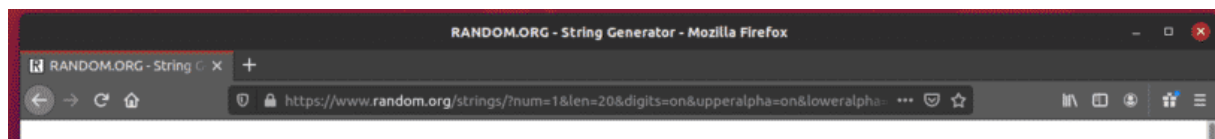




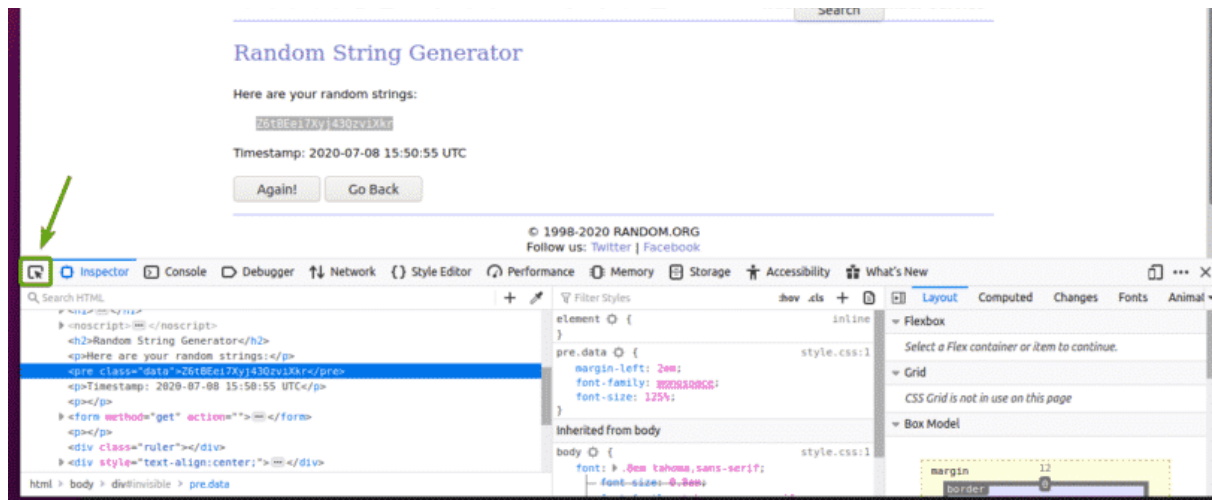
The HTML representation of the data should be displayed in the **Inspector** tab, as you can see in the screenshot below.



You can also click on the **Inspect icon ( )** to inspect the data from the page.

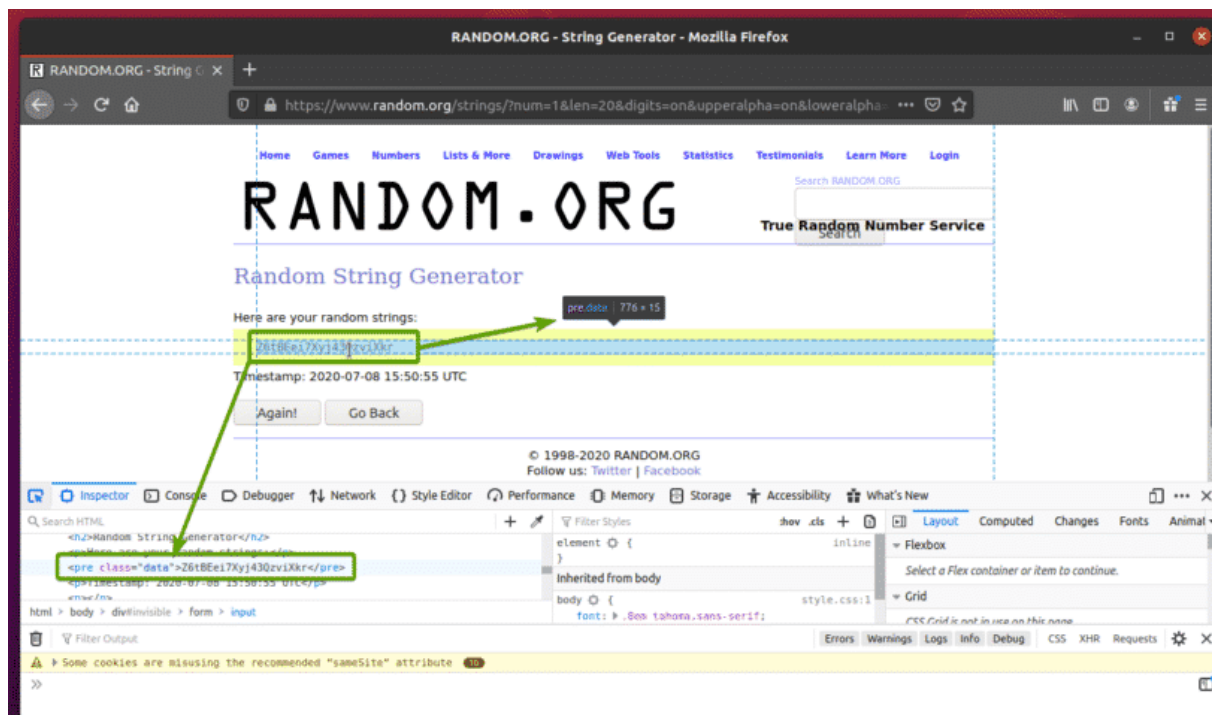






Click on the inspect icon ( ) and hover over the random string data that you want to extract. The HTML representation of the data should be displayed as before.

As you can see, the random string data is wrapped in an HTML **pre** tag and contains the class **data**.



Now that we know the HTML representation of the data we want to extract, we will create a Python script to extract the data using Selenium.



Create the new Python script **ex06.py** and type the following lines of codes in the script

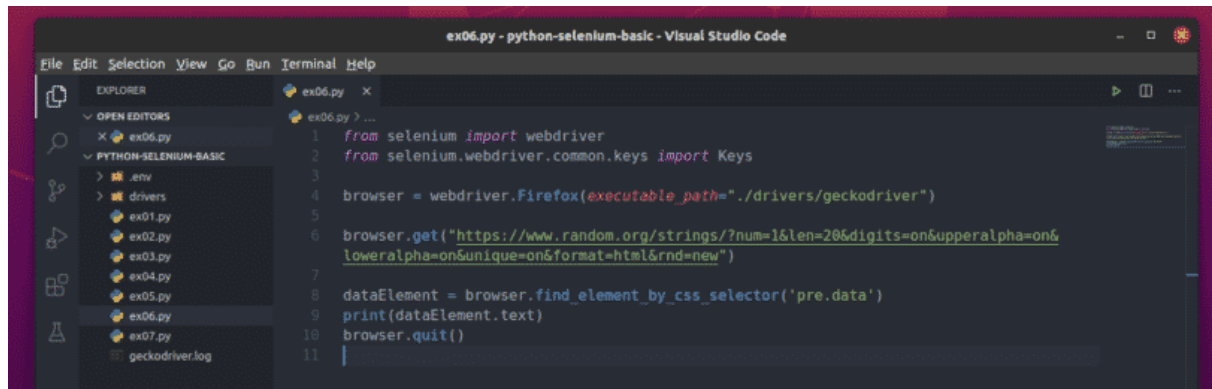
```
from selenium import webdriver
from selenium.webdriver.common.keys import Keys

browser = webdriver.Firefox(executable_path="./drivers/geckodriver")

browser.get("https://www.random.org/strings/?num=1&len=20&digits=on&upperalpha=on&loweralpha=on&unique=on&format=html&rnd=new")

dataElement = browser.find_element_by_css_selector('pre.data')
print(dataElement.text)
browser.quit()
```

Once you are done, save the **ex06.py** Python script.



Here, the **browser.get()** method loads the webpage in the Firefox browser.

```
6 browser.get("https://www.random.org/strings/?num=1&len=20&digits=on&upperalpha=on&loweralpha=on&unique=on&format=html&rnd=new")
```

The **browser.find\_element\_by\_css\_selector()** method searches the HTML code of the page for specific a element and returns it.

In this case, the element would be **pre.data**, the **pre** tag that has the class name **data**.

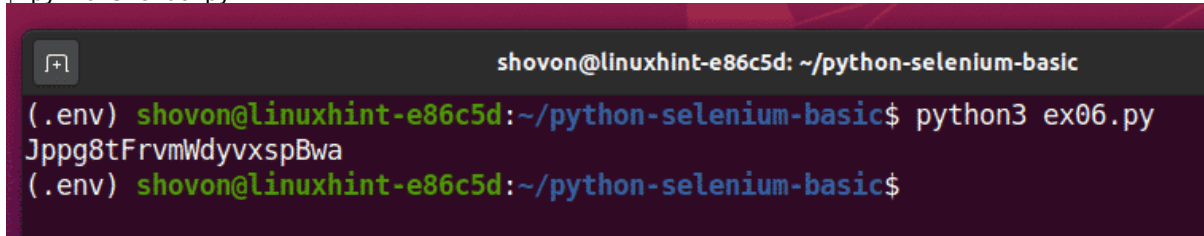
Below, the **pre.data** element has been stored in the **dataElement** variable.

The script then prints the text content of the selected **pre.data** element.



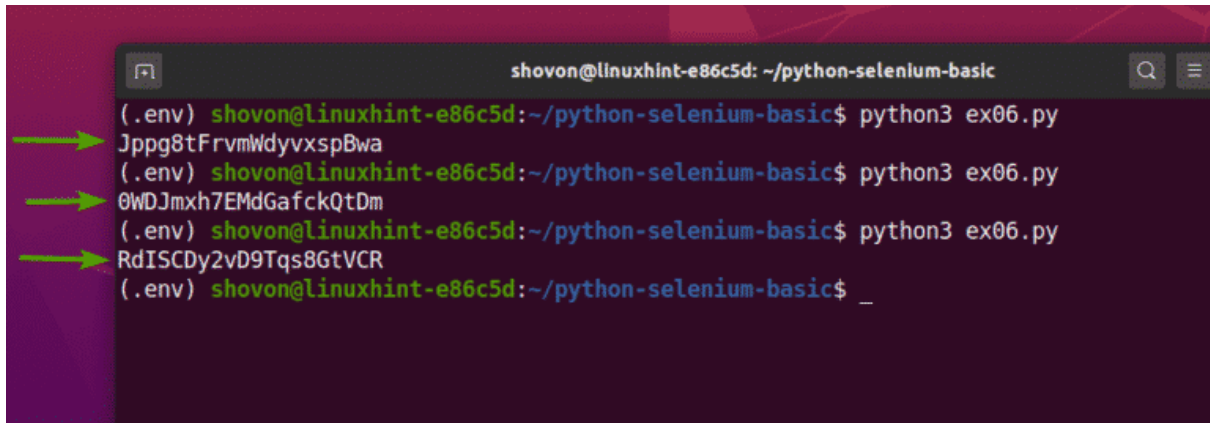
If you run the **ex06.py** Python script, it should extract the random string data from the webpage, as you can see in the screenshot below.

```
$ python3 ex06.py
```



```
shovon@linuxhint-e86c5d: ~/python-selenium-basic  
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ python3 ex06.py  
Jppg8tFrvMwDyvxspBwa  
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$
```

As you can see, each time I run the **ex06.py** Python script, it extracts a different random string data from the webpage.

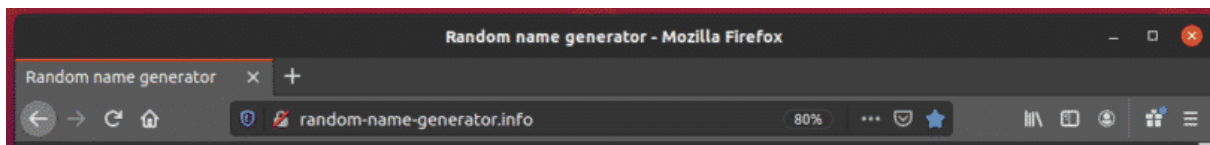


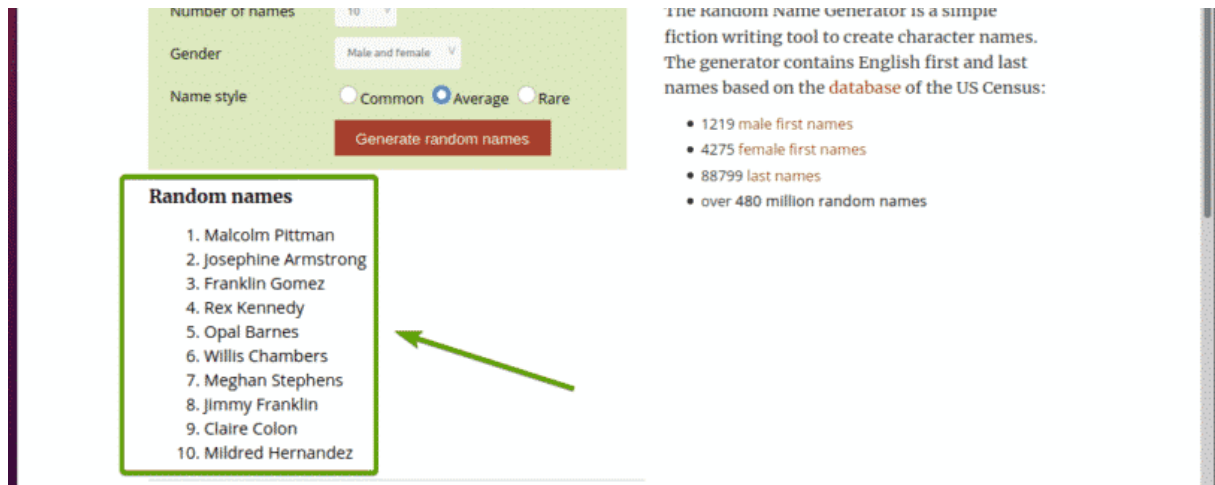
```
shovon@linuxhint-e86c5d: ~/python-selenium-basic  
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ python3 ex06.py  
Jppg8tFrvMwDyvxspBwa  
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ python3 ex06.py  
0WdJmxh7EMdGafckQtDm  
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ python3 ex06.py  
RdISCdy2vD9Tqs8GtVCR  
(.env) shovon@linuxhint-e86c5d:~/python-selenium-basic$ _
```

#### Example 4: Extracting List of Data from Webpage

The previous example showed you how to extract a single data element from a webpage using Selenium. In this example, I will show you how to use Selenium to extract a list of data from a webpage.

First, visit the [random-name-generator.info](https://random-name-generator.info) from your Firefox web browser. This website will generate ten random names each time you reload the page, as you can see in the screenshot below. Our goal is to extract these random names using Selenium.





If you inspect the name list more closely, you can see that it is an ordered list (**ol** tag). The **ol** tag also includes the class name **nameList**. Each of the random names are represented as a list item (**li** tag) inside the **ol** tag.

To extract these random names, create the new Python script **ex07.py** and type the following lines of codes in the script



```
from selenium import webdriver
from selenium.webdriver.common.keys import Keys

browser = webdriver.Firefox(executable_path='./drivers/geckodriver')
browser.get("http://random-name-generator.info/")
nameList = browser.find_elements_by_css_selector('ol.nameList li')
for name in nameList:
    print(name.text)
browser.quit()
```

Once you are done, save the **ex07.py** Python script.

Here, the **browser.get()** method loads the random name generator webpage in the Firefox browser.

The **browser.find\_elements\_by\_css\_selector()** method uses the CSS selector **ol.nameList li** to find all **li** elements inside the **ol** tag having the class name **nameList**. I have stored all the selected **li** elements in the **nameList** variable.

A **for** loop is used to iterate through the **nameList** list of **li** elements. In each iteration, the content of the **li** element is printed on the console.

If you run the **ex07.py** Python script, it will fetch all the random names from the



```
$ python3 ex07.py
```

If you run the script a second time, it should return a new list of random user names, as you can see in the screenshot below.

### Example 5: Submitting Form – Searching on DuckDuckGo

This example is just as simple as the first example. In this example, I will visit the DuckDuckGo search engine and search the term **selenium hq** using Selenium.

First, visit [DuckDuckGo Search Engine](#) from the Firefox web browser.



If you inspect the search input field, it should have the id **search\_form\_input\_homepage**, as you can see in the screenshot below.

Now create the new Python script **ex02.py** and type the following lines of codes



```
from selenium import webdriver
from selenium.webdriver.common.keys import Keys
browser = webdriver.Firefox(executable_path='./drivers/geckodriver')
browser.get("https://duckduckgo.com/")
searchInput = browser.find_element_by_id('search_form_input_homepage')
searchInput.send_keys('selenium hq' + Keys.ENTER)
```

Once you are done, save the **ex08.py** Python script.

Here, the **browser.get()** method loads the homepage of the DuckDuckGo search engine in the Firefox web browser.

The **browser.find\_element\_by\_id()** method selects the input element with the id **search\_form\_input\_homepage** and stores it in the **searchInput** variable.

The **searchInput.send\_keys()** method is used to send key press data to the input field. In this example, it sends the string **selenium hq**, and the Enter key is pressed using the **Keys.ENTER** constant.

As soon as the DuckDuckGo search engine receives the Enter key press (**Keys.ENTER**), it searches and displays the result.



Run the **ex08.py** Python script, as follows:

```
$ python3 ex08.py
```

As you can see, the Firefox web browser visited the DuckDuckGo search engine.

It automatically typed **seleniumhq** in the search text box.





As soon as the browser received the Enter key press (**Keys.ENTER**), it displayed the search result.

### Example 6: Submitting a Form on W3Schools.com

In example 5, DuckDuckGo search engine form submission was easy. All you had to do was press the Enter key. But this will not be the case for all form submissions. In this example, I will show you more complex form handling.

First, visit the [HTML Forms page of W3Schools.com](#) from Firefox web browser. Once the page loads, you should see an example form. This is the form we will



If you inspect the form, the **First name** input field should have the id **fname**, the **Last name** input field should have the id **lname**, and the **Submit button** should have the **type submit**, as you can see in the screenshot below.



To submit this form using Selenium, create the new Python script **ex09.py** and type the following lines of codes in the script.

```
from selenium import webdriver
from selenium.webdriver.common.keys import Keys
browser = webdriver.Firefox(executable_path='./drivers/geckodriver')
browser.get("https://www.w3schools.com/html/html_forms.asp")
fname = browser.find_element_by_id('fname')
fname.clear()
fname.send_keys('Shahriar')
lname = browser.find_element_by_id('lname')
lname.clear()
lname.send_keys('Shovon')
submitButton = browser.find_element_by_css_selector('input[type="submit"]')
submitButton.send_keys(Keys.ENTER)
```

Once you are done, save the **ex09.py** Python script.

Here, the **browser.get()** method opens up the W3schools HTML forms page in the Firefox web browser.

The **browser.find\_element\_by\_id()** method finds the input fields by the id **fname** and **lname** and it stores them in the **fname** and **lname** variables, respectively.



The **fname.clear()** and **lname.clear()** methods clear the default first name (John) **fname** value and last name (Doe) **lname** value from the input fields.

The **fname.send\_keys()** and **lname.send\_keys()** methods type **Shahriar** and **Shovon** in the **First name** and **Last name** input fields, respectively.

The **browser.find\_element\_by\_css\_selector()** method selects the **Submit button** of the form and stores it in the **submitButton** variable.

The **submitButton.send\_keys()** method sends the Enter key press (**Keys.ENTER**) to the **Submit button** of the form. This action submits the form.

Run the **ex09.py** Python script, as follows:

```
$ python3 ex09.py
```

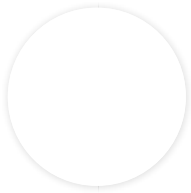
As you can see, the form has been automatically submitted with the correct inputs.



## Conclusion

This article should help you get started with Selenium browser testing, web automation, and web scrapping libraries in Python 3. For more information, check out the [official Selenium Python Documentation](#).

## ABOUT THE AUTHOR



### Shahriar Shovon

Freelancer & Linux System Administrator. Also loves Web API development with Node.js and JavaScript. I was born in Bangladesh. I am currently studying Electronics and Communication Engineering at Khulna University of Engineering & Technology (KUET), one of the demanding public engineering universities of Bangladesh.

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