



Basic Setup

Install Selenium using pip

```
pip install selenium .cmd
```

import Webdriver from Selenium

```
from selenium import webdriver .py
```

Setup WebDriver for Chrome

```
driver =  
webdriver.Chrome(executable_path =  
'path/to/chromedriver') .py
```

Open a webpage

```
driver.get('https://www.example.com') .py
```

Finding Elements

Find Element by ID

```
element =  
driver.find_element_by_id('unique-id') .py
```

Find Element by Name

```
element =  
driver.find_element_by_name('name') .py
```

Find Element by XPath

```
element =  
driver.find_element_by_xpath(  
'//tag[@attribute="value"]'  
) .py
```

Find Element by Class Name

```
element =  
driver.find_element_by_class_name(  
'class_name'  
) .py
```

Interacting with Elements

Click on an Element

```
element.click() .py
```

Send Keys to Element

```
element.send_keys('text to type') .py
```

Clear input Field

```
element.clear() .py
```

get Element Text

```
text = element.text .py
```

Managing Windows and Tabs

Switch to Window

```
driver.switch_to  
.window(driver.window_handles[1]) .py
```

Open a New Window

```
driver.execute_script(  
"window.open('');"  
) .py
```

Close Current Window

```
driver.close() .py
```

Move to a New Tab

```
driver.switch_to  
.window(driver.window_handles[-1]) .py
```

Waits in Selenium

Implicit Wait

```
driver.implicitly_wait(10)  
# Waits for 10 seconds .py
```

Explicit Wait

```
from selenium.webdriver.common.by  
import By  
from selenium.webdriver.support.ui  
import WebDriverWait  
from selenium.webdriver.support  
import expected_conditions as EC  
  
wait = WebDriverWait(driver, 10)  
wait.until(  
EC.visibility_of_element_located  
(By.ID, 'unique-id')  
) .py
```

Fluent Wait

```
from selenium.webdriver.support.ui  
import WebDriverWait  
  
from selenium.webdriver.support  
.expected_conditions import  
presence_of_element_located  
  
from selenium.webdriver.common.by  
import By  
  
wait = WebDriverWait(driver, 10,  
poll_frequency=1)  
wait.until(presence_of_element_located  
((By.ID, 'unique-id')) .py
```

Sleep

```
import time  
time.sleep(5)  
#Pause for 5 seconds .py
```

Handling Alerts & Popups

To Accept or dismiss alerts

```
alert = driver.switch_to.alert  
alert.accept()  
# or alert.dismiss() .py
```

Input in Alert

```
alert = driver.switch_to.alert  
alert.send_keys('input text')  
alert.accept() .py
```

Get Alert text

```
alert = driver.switch_to.alert  
alert_text = alert.text .py
```

Handle Basic Authentication Popup

```
driver.get(  
'https://username:password@example.com'  
) .py
```



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