



# Selenium CheatSheet (Python)

By kalamtech Solutions LLP



## Basic Setup

### Install Selenium using pip

```
pip install selenium
```

### import Webdriver from Selenium

```
from selenium import webdriver
```

### Setup WebDriver for Chrome

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

### Open a webpage

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

## Finding Elements

### Find Element by ID

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

### Find Element by Name

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

### Find Element by XPath

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

### Find Element by Class Name

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

## Interacting with Elements

### Click on an Element

```
element.click()
```

### Send Keys to Element

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

### Clear input Field

```
element.clear()
```

### Get Element Text

```
text = element.text
```

## Managing Windows and Tabs

### Switch to Window

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

### Open a New Window

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

### Close Current Window

```
driver.close()
```

### Move to a New Tab

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

## Waits in Selenium

### Implicit Wait

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

### 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'))
```

### 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'))
```

### Sleep

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

## Handling Alerts & Popups

### To Accept or dismiss alerts

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

### Input in Alert

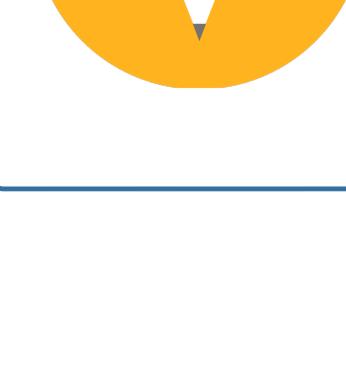
```
alert = driver.switch_to.alert  
alert.send_keys('input text')  
alert.accept()
```

### Get Alert text

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

### Handle Basic Authentication Popup

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



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