Python selenium commands cheat sheet

The Blog To Learn Selenium and Test Automation

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Frequently used python selenium commands - Cheat Sheet

To import webdriver module in python use below import statement

Python

1 from selenium import webdriver

Driver setup:

Firefox:

firefoxdriver = webdriver.Firefox(executable_path="Path to Firefox driver")

To download: Visit GitHub

Chrome:

chromedriver = webdriver.Chrome(executable_path="Path to Chrome driver")

To download: Visit Here

Internet Explorer:

iedriver = webdriver.IE(executable_path="Path To IEDriverServer.exe")

To download: Visit Here

Edge:

 $edgedriver = webdriver. Edge (executable_path = "Path To MicrosoftWebDriver.exe") \\$

To download: Visit <u>Here</u>

Opera:

operadriver = webdriver.Opera(executable_path="Path To operadriver")

To download: visit GitHub

Safari:

SafariDriver now requires manual installation of the extension prior to automation

Browser Arguments:

-headless

To open browser in headless mode. Works in both Chrome and Firefox browser

-start-maximized

To start browser maximized to screen. Requires only for Chrome browser. Firefox by default starts maximized

-incognito

To open private chrome browser

-disable-notifications

To disable notifications, works Only in Chrome browser

Example:

```
Python
  1 from selenium import webdriver
  2 from selenium.webdriver.chrome.options import Options
  4 options = Options()
  5 options.add_argument("--headless")
  6 options.add_argument("--start-maximized")
  7 options.add_argument("--disable-notifications")
  8 options.add_argument("--incognito")
 10 driver = webdriver.Chrome(chrome_options=options, executable_path="Path to driver")
or
                                         Python
  1 from selenium import webdriver
  2 from selenium.webdriver.chrome.options import Options
  4 options = Options()
  5 options.add_argument("--incognito","--start-maximized","--headless")
  6 driver = webdriver.Chrome(chrome_options=options, executable_path="Path to driver")
To Auto Download in Chrome:
                                         Python
  1 from selenium import webdriver
  2
  3 options = webdriver.ChromeOptions()
  4 options.add_argument("download.default_directory=")
  6 driver = webdriver.Chrome(chrome_options=options, executable_path="Path to chrome driver")
To Auto Download in Firefox:
                                         Python
  1 from selenium import webdriver
  2 from selenium.webdriver.firefox.options import Options
  4 firefoxOptions = Options()
  5 firefoxOptions.set_preference("browser.download.folderList",2)
  6 firefoxOptions.set_preference("browser.download.manager.showWhenStarting", False)
  7 firefoxOptions.set_preference("browser.download.dir","/data")
  8 firefoxOptions.set_preference("browser.helperApps.neverAsk.saveToDisk", "application/octet-stream,application/vnd.ms-excel")
 10 firefoxdriver = webdriver.Firefox(firefox_options=firefoxOptions, executable_path="Path to firefox driver")
```

We can add any MIME types in the list. MIME for few types of files are given below.

1. Text File (.txt) - text/plain

- 2. PDF File (.pdf) application/pdf
- . CSV File (.csv) text/csv or "application/csv"
- 4. MS Excel File (.xlsx) application/vnd.openxmlformats-officedocument.spreadsheetml.sheet or application/vnd.ms-excel
- 5. MS word File (.docx) application/vnd.openxmlformats-officedocument.wordprocessingml.document Zip file (.zip) application/zip

Python

Note:

The value of browser.download.folderList can be set to either 0, 1, or 2.

- 0 Files will be downloaded on the user's desktop.
- 1 Files will be downloaded in the Downloads folder.
- 2 Files will be stored on the location specified for the most recent download

Disable notifications in Firefox

firefoxOptions.set_preference("dom.webnotifications.serviceworker.enabled", false); firefoxOptions.set_preference("dom.webnotifications.enabled", false);

Open specific Firefox browser using Binary:

```
1 from selenium import webdriver
2 from selenium.webdriver.firefox.firefox_binary import FirefoxBinary
3
4 binary = FirefoxBinary('path/to/binary')
5 driver = webdriver.Firefox(firefox_binary=binary)
```

Open specific Chrome browser using Binary:

from selenium import webdriver from selenium.webdriver.chrome.options import Options

```
options = Options()
options.binary_location = ""
driver = webdriver.Chrome(chrome_options=options, executable_path="")
driver.get('http://google.com/')
```

Read Browser Details:

driver.title driver.window_handles driver.current_window_handles driver.current_url driver.page_source

Go to a specified URL:

driver.get("http://google.com")
driver.back()
driver.forward()
driver.refresh()

Locating Elements:

driver.find_element_by_ - To find the first element matching the given locator argument. Returns a WebElement driver.find_elements_by_ - To find all elements matching the given locator argument. Returns a list of WebElement

By ID

```
<input id="q" type="text" />
element = driver.find_element_by_id("q")
```

By Name

<input id="q" name="search" type="text" />

```
element = driver.find_element_by_name("search")
By Class Name
<div class="username" style="display: block;">...</div>
element = driver.find_element_by_class_name("username")
By Tag Name
<div class="username" style="display: block;">...</div>
element = driver.find_element_by_tag_name("div")
By Link Text
<a href="#">Refresh</a>
element = driver.find_element_by_link_text("Refresh")
By Partial Link Text
<a href="#">Refresh Here</a>
element = driver.find_element_by_partial_link_text("Refresh")
By XPath
<form id="testform" action="submit" method="get">
Username: <input type="text" />
Password: <input type="password" />
</form>
element = driver.find_element_by_xpath("//form[@id='testform']/input[1]")
By CSS Selector
<form id="testform" action="submit" method="get">
<input class="username" type="text" />
<input class="password" type="password" />
</form>
element = driver.find_element_by_css_selector("form#testform>input.username")
Important Modules to Import:
from selenium import webdriver
from selenium.webdriver.support.wait import WebDriverWait
from selenium.webdriver.support import expected_conditions
from selenium.webdriver.support.ui import Select
from selenium.webdriver.common.by import By
from selenium.webdriver.common.action chains import ActionChains
from selenium.common.exceptions import NoSuchElementException
from selenium.webdriver.firefox.firefox_binary import FirefoxBinary
from selenium.webdriver.chrome.options import Options
from selenium.webdriver.firefox.options import Options
Python Selenium commands for operation on elements:
```

button/link/image:

click()

get_attribute()

_enabled()	
Text field:	
send_keys() clear()	
Checkbox/Radio:	
is_selected() click()	
Select:	
Find out the select element using any element locating strategies and	then select options from list using index, visible text or option value.
Python	
<pre>1 select = Select(driver.find_element_by_id("")) 2 3 select.select_by_index(1) 4 select.select_by_value("") # pass value 5 select.select_by_visible_text("") # pass visible text</pre>	
Element properties:	
is_displayed() is_selected() is_enabled()	
These methods return either true or false.	
Read Attribute:	
get_attribute("")	
Get attribute from a disabled text box	
driver.find_element_by_id("id").get_attribute("value");	
Screenshot:	
Python	
<pre>1 from selenium import webdriver 2 3 driver = webdriver.Firefox(executable_path='[Browser D 4 driver.get('[URL to Open]') 5 6 driver.get_screenshot_as_file('sample_screenshot_2.png 7 driver.save_screenshot('sample_screenshot_1.png')</pre>	
Note: An important note to store screenshots is that save_screensho is '.png'. Otherwise content of the screenshot can't be viewed	t('filename') and get_screenshot_as_file('filename') will work only when extension of file
Read articles for more details about <u>taking screenshot</u> and <u>element s</u>	<u>creenshot</u>
The list here contains mostly used python selenium commands but n should be here.	ot exhaustive. Please feel free to add in comments if you feel something is missing and
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is_displayed()