

# Selenium Python Commands Cheatsheet



Sreenidhi Rajakrishnan  
Automation Architect  
@sreenidhirajakrishnan

## Core Commands

- ◆ Open URL → `driver.get("https://example.com")`
- ◆ Navigate to URL → `driver.get("https://google.com")`
- ◆ Go Back → `driver.back()`
- ◆ Go Forward → `driver.forward()`
- ◆ Refresh Page → `driver.refresh()`
- ◆ Find Element → `driver.find_element(By.XPATH, "//xpath")`
- ◆ Find List of Elements →  
`driver.find_elements(By.CLASS_NAME, "class")`
- ◆ Assign element to variable → `element = driver.find_element(By.ID, "id")`
- ◆ Click Element → `element.click()`
- ◆ Type in Element → `element.send_keys("Hello")`
- ◆ Clear Text → `element.clear()`
- ◆ Get Text → `element.text`
- ◆ Get Attribute Value → `element.get_attribute("attr")`
- ◆ Get Current URL → `driver.current_url`
- ◆ Get Page Title → `driver.title`
- ◆ Close Current Tab → `driver.close()`
- ◆ Close Entire Browser → `driver.quit()`
- ◆ Maximize Window → `driver.maximize_window()`

## Frames

- ◆ Switch to Frame by Index → `driver.switch_to.frame(0)`
- ◆ Switch to Frame by Name or ID →  
`driver.switch_to.frame("frameName")`
- ◆ Switch to Frame by Element →  
`driver.switch_to.frame(element)`
- ◆ Switch to Parent Frame →  
`driver.switch_to.parent_frame()`
- ◆ Switch Out of Frame →  
`driver.switch_to.default_content()`

## Alerts

- ◆ Switch to Alert → `alert = driver.switch_to.alert`
- ◆ Accept Alert → `alert.accept()`
- ◆ Dismiss Alert → `alert.dismiss()`
- ◆ Get Alert Text → `alert.text`
- ◆ Send Text to Alert → `alert.send_keys("text")`  
`alert` must be present or it throws `NoAlertPresentException`.

## Multiple Windows

- ◆ Get Current Window Handle →  
`driver.current_window_handle`
- ◆ Get All Window Handles → `driver.window_handles`
- ◆ Switch to Window →  
`driver.switch_to.window(window_handle)`

## Actions Class

- ◆ Initialize Actions → `actions = ActionChains(driver)`
- ◆ Mouse Hover → `actions.move_to_element(element).perform()`
- ◆ Click & Hold → `actions.click_and_hold(element).perform()`
- ◆ Right Click → `actions.context_click(element).perform()`
- ◆ Double Click → `actions.double_click(element).perform()`
- ◆ Drag and Drop → `actions.drag_and_drop(source, target).perform()`
- ◆ Keyboard Action →  
`actions.key_down(Keys.CONTROL).send_keys("a").key_up(Keys.CONTROL).perform()`

## Javascript Executor

- ◆ Initialize JS Executor → `driver.execute_script("return document.title;")`
- ◆ Scroll to Element →  
`driver.execute_script("arguments[0].scrollIntoView(true);", element)`
- ◆ Click using JS →  
`driver.execute_script("arguments[0].click();", element)`
- ◆ Enter Value using JS →  
`driver.execute_script("arguments[0].value='text';", element)`
- ◆ Get Page Title via JS → `driver.execute_script("return document.title;")`
- ◆ Scroll Page →  
`driver.execute_script("window.scrollTo(0,500);")`
- ◆ Scroll to Bottom → `driver.execute_script("window.scrollTo(0, document.body.scrollHeight);")`

## Dropdown Select Class

- ◆ Select by Visible Text →  
`Select(element).select_by_visible_text("India")`
- ◆ Select by Value → `Select(element).select_by_value("IN")`
- ◆ Select by Index → `Select(element).select_by_index(2)`
- ◆ Get Selected Option →  
`Select(element).first_selected_option.text`
- ◆ Get All Options → `Select(element).options`
- ◆ Check if Multiple Select → `Select(element).is_multiple`

## Selenium Waits

- ◆ **Implicit Wait**
- ◆ Implicit Wait → `driver.implicitly_wait(10)`
- ◆ **Explicit Wait**
- ◆ Initialize Explicit Wait → `wait = WebDriverWait(driver, 20)`
- ◆ Wait Until Element is Visible →  
`wait.until(EC.visibility_of_element_located((By.ID, "id")))`
- ◆ Wait Until Element is Clickable →  
`wait.until(EC.element_to_be_clickable((By.XPATH, "//xpath")))`
- ◆ Wait Until Alert is Present →  
`wait.until(EC.alert_is_present())`
- ◆ **Fluent Wait** - Explicit Wait in Python supports fluent behavior. There is no separate `FluentWait` class like Java
- ◆ Fluent Wait → `WebDriverWait(driver, 30, poll_frequency=5, ignored_exceptions=[NoSuchElementException])`
- ◆ Hard Wait (Not Recommended) → `time.sleep(5)`

## Cookies

- ◆ Add Cookie →  
`driver.add_cookie({"name":"key","value":"value"})`
- ◆ Get All Cookies → `driver.get_cookies()`
- ◆ Get Cookie by Name → `driver.get_cookie("key")`
- ◆ Delete Cookie by Name →  
`driver.delete_cookie("key")`
- ◆ Delete All Cookies → `driver.delete_all_cookies()`

