SELENIUM WEBDRIVER COMMANDS (PART 01)

Here is the complete list of Selenium commands:

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Here are the most important and frequently used Browser Commands in Selenium:

- get(String url) – Opens the specified URL in the browser.
- getTitle() – Fetches the title of the current webpage.
- getCurrentUrl() – Retrieves the URL of the current page.
- close() – Closes the current browser window.
- quit() – Closes all browser windows opened by WebDriver and ends the session.
- navigate().to(String url) – Navigates to a specific URL.
- navigate().back() – Moves back to the previous webpage in the browser history.
- navigate().forward() – Moves forward to the next webpage in the browser history.
- navigate().refresh() – Refreshes the current webpage.
- manage().window().maximize() – Maximizes the current browser window.
- manage().window().minimize() – Minimizes the current browser window.
- manage().window().fullscreen() – Puts the browser in fullscreen mode.
- manage().deleteAllCookies() – Deletes all cookies in the current session.
- manage().timeouts().implicitlyWait(long time, TimeUnit unit) – Sets the default wait time for finding elements.

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Here are the most important and frequently used Action Commands in Selenium:

- clickAndHold() – Clicks and holds the mouse button on a web element.
- moveToElement(WebElement target) – Moves the mouse to the center of the specified web element.
- release() – Releases the mouse button after a click and hold action.
- doubleClick() – Double-clicks on a web element.
- dragAndDrop(WebElement source, WebElement target) – Drags a web element from the source and drops it onto the target.

Here are the most important and frequently used Cookie Commands in Selenium:

- addCookie(Cookie cookie) – Adds a cookie to the current session.
- getCookieNamed(String name) – Retrieves a cookie by its name.
- getCookies() – Retrieves all cookies for the current session.
- deleteCookie(Cookie cookie) – Deletes the specified cookie.
- deleteCookieNamed(String name) – Deletes a cookie by its name.
- deleteAllCookies() – Deletes all cookies for the current session.

Here are the most important and frequently used Screenshot Commands in Selenium:

- getScreenshotAs(OutputType<T> target) – Takes a screenshot of the current window and returns it in the specified format.
- getScreenshotAs(FileOutputType file) – Saves the screenshot to a file in the specified format.

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Here are the most important and frequently used Dropdown Handling Commands in Selenium:

- selectByVisibleText(String text) – Selects an option from a dropdown based on the visible text.
- selectByValue(String value) – Selects an option from a dropdown based on the value attribute.
- selectByIndex(int index) – Selects an option from a dropdown based on its index.
- getFirstSelectedOption() – Retrieves the currently selected option in a dropdown.
- getAllSelectedOptions() – Retrieves all selected options in a multi-select dropdown.
- deselectByVisibleText(String text) – Deselects an option based on the visible text in a multi-select dropdown.

Here are the most important and frequently used Keyboard Events Commands in Selenium:

- sendKeys(CharSequence... keysToSend) – Sends specified keys to a web element.
- keyDown(Keys key) – Presses and holds the specified key.
- keyUp(Keys key) – Releases the specified key.

Here are the most important and frequently used Mouse Events Commands in Selenium:

- click() – Clicks on a web element.
- contextClick() – Performs a right-click on a web element.
- doubleClick() – Double-clicks on a web element.
- moveToElement(WebElement target) – Moves the mouse to the center of the specified web element.
- dragAndDrop(WebElement source, WebElement target) – Drags an element from the source and drops it onto the target.

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Here are the most important and frequently used Multiple Window Handling Commands in Selenium:

- getWindowHandles() – Retrieves a set of window handles for all open windows.
- switchTo().window(String windowHandle) – Switches the focus to the specified window using its handle.
- close() – Closes the current window.
- switchTo().defaultContent() – Switches the focus back to the main document from an iframe or frame.

Here are the most important and frequently used Logging Commands in Selenium:

- getLog(String logType) – Retrieves logs of the specified type.
- manage().logs() – Manages the logs for the current session.
- getAvailableLogTypes() – Retrieves the available log types for the current driver.

Here are the most important and frequently used Navigation Commands in Selenium:

- navigate().to(String url) – Navigates to a specific URL.
- navigate().back() – Moves back to the previous webpage in the browser history.
- navigate().forward() – Moves forward to the next webpage in the browser history.
- navigate().refresh() – Refreshes the current webpage.
- navigate().to(String url) – Navigates to the specified URL.
- manage().window().setPosition(Point p) – Sets the position of the current window.
- manage().window().setSize(Dimension d) – Sets the size of the current window.

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Here are the most important and frequently used Element Interaction Commands in Selenium:

- findElement(By locator) – Finds the first web element matching the given locator.
- findElements(By locator) – Finds all web elements matching the given locator.
- click() – Clicks on the web element.
- sendKeys(CharSequence... keysToSend) – Sends the specified keys to the web element.
- clear() – Clears the text from the web element.
- getText() – Retrieves the visible text of the web element.
- getAttribute(String name) – Retrieves the value of the specified attribute of the web element.
- isDisplayed() – Checks if the web element is visible on the page.
- isEnabled() – Checks if the web element is enabled.
- isSelected() – Checks if the web element is selected (useful for checkboxes and radio buttons).
- submit() – Submits the form associated with the web element.
- getCssValue(String propertyName) – Retrieves the value of the specified CSS property of the web element.

Here are the most important and frequently used Wait Commands in Selenium:

- implicitlyWait(long time, TimeUnit unit) – Sets the default wait time for finding elements.
- WebDriverWait(driver, Duration duration) – Creates an explicit wait instance for the specified duration.
- until(ExpectedCondition<T> condition) – Waits until the specified condition is met.
- setScriptTimeout(long time, TimeUnit unit) – Sets the maximum time to wait for an asynchronous script to finish executing.
- setPageLoadTimeout(long time, TimeUnit unit) – Sets the maximum time to wait for a page to load completely.
- fluentWait(By locator, long timeout, long pollingTime) – Waits for a specified condition while ignoring specific exceptions during the polling interval.

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Here are the most important and frequently used Alert Commands in Selenium:

- switchTo().alert() – Switches the focus to the currently active alert.
- accept() – Accepts the alert, similar to clicking the "OK" button.
- dismiss() – Dismisses the alert, similar to clicking the "Cancel" button.
- getText() – Retrieves the text displayed on the alert.
- sendKeys(String keysToSend) – Sends specified keys to the alert input field (if available).
- isDisplayed() – Checks if the alert is currently displayed.

Here are the most important and frequently used Window Handling Commands in Selenium:

- getWindowHandle() – Retrieves the window handle of the current window.
- getWindowHandles() – Retrieves a set of window handles for all open windows.
- switchTo().window(String windowHandle) – Switches the focus to the specified window using its handle.
- close() – Closes the current window.
- switchTo().defaultContent() – Switches the focus back to the main document from an iframe or frame.
- switchTo().parentFrame() – Switches the focus to the parent frame of the current frame.

Here are the most important and frequently used Frame Handling Commands in Selenium:

- switchTo().frame(int index) – Switches the focus to the frame at the specified index.
- switchTo().frame(String nameOrId) – Switches the focus to the frame using its name or ID.
- switchTo().frame(WebElement frameElement) – Switches the focus to the specified frame element.
- switchTo().defaultContent() – Switches the focus back to the main document from a frame.
- switchTo().parentFrame() – Switches the focus to the parent frame of the current frame.