

# Selenium Webdriver API Commands

Basic and most commonly used functions of WebDriver with Java.

## Handle Form Elements:

Element	Command	Description	Example Code
Input Box	<code>sendKeys();</code>	To enter values onto text boxes	<code>driver.findElement(By.id("xyz")).sendKeys("admin")</code>
	<code>clear();</code>	To clear text boxes of its current value	<code>driver.findElement(By.id("xyz")).clear();</code>
Button, Radio Button, Check Box	<code>Click();</code>	To toggle the element on/off	<code>driver.findElement(By.id("xyz")).click();</code>
Link	<code>Click();</code>	To click on link	<code>driver.findElement(By.linkText("linkname")).click();</code>
Submit Button	<code>Submit();</code>	To click on submit button	<code>driver.findElement(By.id("xyz")).submit();</code>
Drop-Down Box	<code>selectByVisibleText();</code> <code>deselectByVisibleText();</code>	To selects or deselects an option by its displayed text	Select fruits = new Select(driver.findElement(By.id("fruits"))); fruits.selectByVisibleText("Apple");
	<code>selectByValue();</code> <code>deselectByValue();</code>	To selects or deselects an option by the value of its "value" attribute	Select fruits = new Select(driver.findElement(By.id("fruits"))); fruits.selectByValue("2");
	<code>selectByIndex();</code> <code>deselectByIndex();</code>	To selects or deselects an option by its index	Select fruits = new Select(driver.findElement(By.id("fruits"))); fruits.selectByIndex(1);
	<code>isMultiple();</code>	returns TRUE if the drop-down element allows multiple selection at a time; FALSE if otherwise	Select fruits = new Select(driver.findElement(By.id("fruits"))); boolean b1 = fruits.isMultiple();
	<code>deselectAll();</code>	deselects all previously selected options	Select fruits = new Select(driver.findElement(By.id("fruits"))); fruits.deselectAll();
Web Element	<code>findElement();</code>	To find single web element in UI	<code>driver.findElement(By.id("fruits"));</code>
	<code>findElements();</code>	To find no. of web element in UI at once	List<WebElement> linkElements= driver.findElements(By.tagName("a"));

Alert Box	switchTo();	To switch to Alert Box	Alert alt = driver.switchTo().alert();
	accept();	To click on Yes/OK button on Alert	alt.accept();
	dismiss();	To click on No/Cancel button on alert	alt.dismiss();
Browser	Close();	To closes only a single window that is being accessed by the WebDriver instance currently	Driver.close();
	Quit();	To closes all the windows that were opened by the WebDriver instance	Driver.quit();

#### Get Methods:

Command	Description	Example code
get();	To navigate to an application in open browser.	driver.get("https://google.com");
getClass();	To retrieve the Class object	driver.getClass();
getCurrentUrl();	To retrieve the URL of the webpage	driver.getCurrentUrl();
getPageSource();	to retrieve the page source of the webpage	driver.getPageSource(); OR boolean result = driver.getPageSource().contains("String to find");
getTitle();	To retrieve the title of the webpage	String title = driver.getTitle();
getText();	To retrieve the inner text of the specified web element	String Text = driver.findElement(By.id("Text")).getText();
getAttribute()	to retrieve the value of the specified attribute of an web element	driver.findElement(By.id("findID")).getAttribute("value");
getWindowHandle()	to handle windows	driver.getWindowHandle();
getWindowHandles()	To handle the situation when we have more than one window to deal with.	Set<String> s1= driver.getWindowHandles();

### Navigate Commands:

Command	Description	Example Code
navigate()	To navigate to an application URL	<code>driver.navigate().to("http://www.google.com");</code>
back();	To navigate backward in browser	<code>driver.navigate().back();</code>
forward();	To navigate forward in browser	<code>driver.navigate().forward();</code>
refresh();	To refresh the current page	<code>driver.navigate().refresh();</code>

### Wait Commands:

Command	Example Code
Implicit Wait	<code>driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);</code>
Explicit Wait	<code>WebDriverWait wait = new WebDriverWait(driver,10); wait.until(ExpectedConditions.alertIsPresent());</code>
PageLoadTimeout	<code>driver.manage().timeouts().pageLoadTimeout(100, SECONDS);</code>
Sleep	<code>Thread.sleep(1000);</code>