

Selenium WebDriver (Java) Cheat Sheet

Part 2

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Select Class

Select elements can require quite a bit of boilerplate code to automate. To reduce this, and make your tests cleaner, there is a Select class in the Selenium support package.



```
//Import Select Class
import org.openqa.selenium.support.ui.Select;

//You are then able to create a Select object using a
//WebElement that references a <select> element.
WebElement element = driver.findElement(By.id("id"));
Select select = new Select(element);
// Select an <option> based upon the <select> element's
// internal index
select.selectByIndex(1);
// Select an <option> based upon its text
select.selectByVisibleText("Ford");
// Select an <option> based upon its value attribute
select.selectByValue("ford");
```

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```
//// Deselect all selected <option> elements
select.deselectAll();

// Deselect an <option> based upon the <select> element's
internal index
select.deselectByIndex(1);

// Deselect an <option> based upon its text
select.deselectByVisibleText("Ford");

// Deselect an <option> based upon its value attribute
select.deselectByValue("ford");

// Return a List<WebElement> of options that have been
selected
List<WebElement> allSelected = select.getAllSelectedOptions();
boolean isMultipleSelect = select.isMultiple();
```

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Actions API

A low-level interface for providing virtualized device input actions to the web browser.



```
WebElement clickable = driver.findElement(By.id("clickable"));
new Actions(driver)
    .moveToElement(clickable)
    .pause(Duration.ofSeconds(1))
    .clickAndHold()
    .pause(Duration.ofSeconds(1))
    .sendKeys("abc")
    .perform();
```

Advanced Elements Operations



```
// Drag and Drop
WebElement element = driver.FindElement(
By.xpath("//*[@id='fundootesters']"));
Actions move = new Actions(driver);
move.dragAndDropBy(element, 30, 0).build().perform();

// How to check if an element is visible
Assert.assertTrue(driver.findElement(
By.xpath("//*[@id='fundootesters']")).isDisplayed());

// Upload a file
WebElement element =
driver.findElement(By.id("fundootesters"));
String filePath = "D:\\ WebDriver\\Series\\TestsWebDriver.xml";
element.sendKeys(filePath);
```

Scroll focus to control



```
// Scroll focus to control
WebElement link =
driver.findElement(By.partialLinkText("Previous post"));
String js = String.format("window.scroll(0, %d);",
link.getLocation().getY());
((JavascriptExecutor)driver).executeScript(js);
link.click();
```

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Do you know?

You can automate web applications
without writing a single line of code as
well.

Checkout below:

<https://github.com/testsigmahq/testsigma>

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