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## Selenium Cheat Sheet

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This part of the Selenium tutorial includes the Selenium Cheat Sheet. In this part, you will learn various aspects of Selenium that are possibly asked in interviews. Also, you will have a chance to understand the most important Selenium terminologies.

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#### Selenium Tutorial - A Comprehensive Guide

Selenium Tutorial - A Comprehensive Guide

What is Selenium? Introduction to Selenium Automation Testing

Installation - Selenium Tutorial

Selenium IDE - A Complete Guide

Recording of a Test

**Selenium Features** 

Selenium Cheat Sheet

TestNG in Selenium

#### Selenium User Handbook

Are you looking for a quick reference to turn to every time you need to look up the basic operations of selenium? Well if you are then this is just what you need.

We at Intellipaat understand that it could be a bit of a hassle to remember every aspect of technology and that is why we have come up with a Selenium cheat sheet to assist our learners whenever they need a handy reference containing all the basics of selenium.

We assume that you have a basic understanding of selenium if you are referring to this cheat sheet.

Download the printable PDF of Selenium cheat sheet

# **SELENIUM** CHEAT SHEET



 Firefox · Chrome

WebDriver driver = new FirefoxDriver(); WebDriver driver = new ChromeDriver():

Internet Explorer WebDriver driver = new SafariDriver(); Safari Driver

WebDriver driver = new InternetExplorerDriver();

### Windows

String handle=driver.getWindowHandle(); Set<String> handles = getWindowHandles(); driver.switchTo().window(handle);

How to switch to newly created window

String curWindow=driver.getWindowHandle();

· Get all window handles

Set<String> handles = getWindowHandles(); for(string handle: handles)

if (!handle.equals(curWindow))



#### What is selenium?

Selenium is an open-source framework to automate and perform software testing such as smoke tests, integration tests, etc. on web applications. It provides a playback/recording tool and domain-specific language.

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#### Get started with Selenium:

@After @AfterClass @Before @BeforeClass @Ignore @Test

#### Driver Initialization Basics:

- Firefox WebDriver driver = new FirefoxDriver();
- Chrome WebDriver driver = new ChromeDriver();
- Internet Explorer WebDriver driver = new SafariDriver();
- Safari Driver WebDriver driver = new InternetExplorerDriver();



#### Driver Initialization Advanced:

A. Load firefox from a different location:

System.setProperty("webdriver.firfox.bin","path/to/firfox/binary"); FirefoxProfilefp= new FirefoxProfile();









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```
B. Load firefox addons
```

```
File file=new File("path/to/extension.xpi");
fp.addextension(file)
```

#### Selenium Locators:

Selenium locators are used to find and match the webpage elements that selenium interacts with. Following are some locators in selenium:

• Locating by ID

```
driver.findElement(By.id("q")).sendKeys("Se lenium 3");
```

Locating by Name

```
driver.findElement(By.name("q")).sendKeys ("Selenium 3");
```

Locating by Xpath

```
driver.findElement(By.xpath("//input[@id='q'])).sendKeys("Selenium 3");
```

Locating Hyperlinksby Link Text

```
driver.FindElement(By.LinkText("edit this page")).Click();
```

Locating by DOM

```
dom =document.getElementById('signinForm')
```

Locating by CSS

```
driver.FindElement(By.CssSelector("#rightbar> .menu >li:nth-of-type(2) > h4"));
```

```
driver.findElement(By.className("profileheader"));
```

Locating by TagName

· Locating by ClassName

```
driver.findElement(By.tagName("select")).C lick();
```

Locating by LinkText

```
driver.findElement(By.linkText("NextP age")).click();
```

Locating by PartialLinkText

```
driver.findElement(By.partialLinkText(" NextP")).click();
```



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## Selenium Navigators:

The navigator interface in selenium helps in moving backward and forwards in the browser's history. Following are some navigator commands you can use:

Navigate to URL

```
driver.get("http://newexample.com")
driver.navigate().to("http://newexample.com")
```

· Refresh page

```
driver.navigate().refresh()
```

· Navigate forwards in browser history

```
driver.navigate().forward()
```

· Navigate backward in browser history

```
driver.navigate().back()
```

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#### TestNG:

<u>TestNG</u> is an open-source framework for automated testing. The NG in TestNG stands for Next Generation. It is similar to Junit but with more functionality to offer. Following are the TestNG annotations:

- @test: This annotation marks a class or method as a part of a test
- @BeforeSuite: This annotation makes sure that the method only run once before all the tests have run
- @AfterSuite: This annotation makes sure that the method runs once after the execution of all the tests
- @BeforeTest: This annotation will make sure that the method marked with this annotation runs before the first method annotated with @test
- @AfterTest: This annotation will make sure that the method marked with this annotation runs after all the methods annotated with @test execute all the classes inside <test> tag in the testng.xml file.
- @BeforeGroups : A method annotated with this annotation will run before all the first test methods run in that specific group
- @AfterGroups: A method annotated with this annotation will run after all the test methods run in that specific group
- @BeforeClass: A method annotated with this annotation will run only once per class and before all the first test
- @AfterClass: A method annotated with this annotation will run only once per class and after all the test methods run
- @BeforeMethod: A method annotated with this annotation will run before every @test annotated method
- @AfterMethod: A method annotated with this annotation will run after every @test annotated method

#### **JUNIT**

JUNIT (Java Unit Testing Tool) is a framework used to perform unit-level testing. Following are the JUNIT annotations:

- @Test: test method to run with public void return type
- @After: method to run after the test method
- @AfterClass: method to run before the test method
- @Before: method to run before the test method
- @BeforeClass: method to run once before any of the test methods in the class have been executed
- @Ignore: This annotation is used to ignore a method











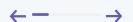
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#### Windows:

Sometimes the web applications may have multiple frames or windows. Selenium assigns each window a unique alphanumeric id which is called window handle. Selenium then uses the id to switch control among windows.

```
String handle=driver.getWindowHandle();
Set<String> handles = getWindowHandles();
driver.switchTo().window(handle);
```

· How to switch to a newly created window

```
String curWindow=driver.getWindowHandle();
```

• Get all window handles

```
Set<String> handles = getWindowHandles();
For(string handle: handles){
If (!handle.equals(curWindow))
{driver.switchTo().window(handle);
}
}
```









#### **Frames**

Using Frame Index:

```
driver.switchTO().frame(1);
```

• Using Name of Frame:

```
driver.switchTo().frame("name")
```

• Using web Element Object:

```
driver.switchTO().frame(element);
```

• Get back to main document:

```
driver.switchTO().defaultContent();
```

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## Operations:

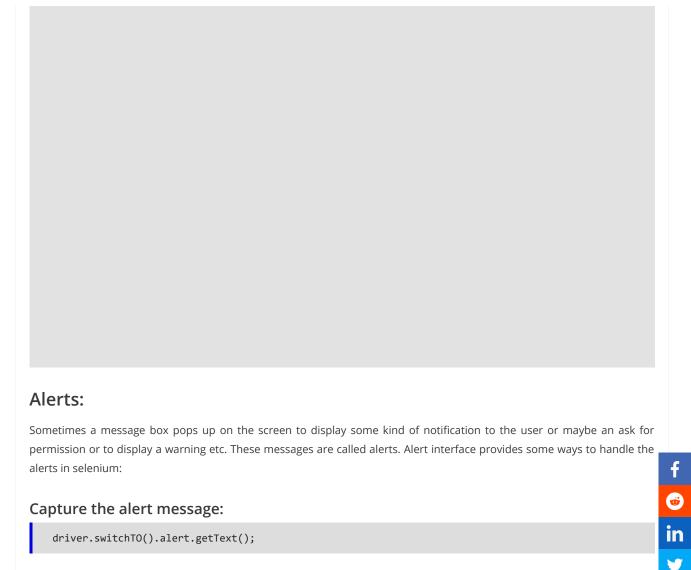
In selenium there are certain operations that can be performed on the web elements. Following is the list of those operations along with their respective syntax:

• Launch Webpage: get("www.webdriverinselenium.com"); • Click Button: findElement(By.id("submit")).click(); • Handle Alert: AlertAlertpopup = driver.switchTo().alert(); • Disable a Field: getElementsByName('') [0].setAttribute('disabled', '') • Enable a Field : getElementsByName('') [0].removeAttribute('disabled'); • Screenshot: File snapshot = ((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE); FileUtils.copyFile(snapshot, new File("C:\\screenshot.jpg")); • Print the Title of the Page: String pagetitle = driver.getTitle(); System.out.print(pagetitle); • Implicit Wait: manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS); • Explicit Wait: WebDriverWait wait = new WebDriverWait(driver, 20); • Sleep:

Thread.Sleep(10);

Want to learn about Selenium with Python! Check out our blog on <u>Selenium Python Tutorial for beginners</u>.

Watch this Selenium Projects For Beginners Tutorial



## Click on the 'OK' button of the alert:

driver.switchTO().alert.accept();

#### Click on the 'Cancel' button of the alert:

driver.switchTO().alert.dismiss();

#### Send some data to the alert box:

driver.switchTO().alert.sendKeys("Text");

#### Selenium Grid:

Selenium Grid helps selenium run multiple tests across different operating systems, browsers, and machines in parallel.

• Start hub:

java-jar selenium-server- standalone-x.xx.x.jar-role hub



• Start node:

java-jar selenium-server- standalone-x.xx.x.jar-role node-hub http://localhost:4444/grid/register

• Server:

#### http://localhost:4444/grid/console



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This would be all for the Selenium cheat sheet. In case you are looking to learn Selenium in-depth then you should definitely check out the <u>Selenium training</u> provided by Intellipaat. In this online training, you will get to learn the <u>automation testing</u> framework for web applications, TDD, <u>selenium architecture</u>, JaCoCo, TestNG, Sikuli. You will work on real-life projects and assignments and prepare yourself for Certified Selenium Professional certification in this Selenium training. On top of that, you will have 24\*7 technical support from our experts here at Intellipaat. Now you will learn more about the <u>Features of Selenium</u> in the next blog.

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Superb information. Thank you

JUNE 29, 2022 AT 9:09 AM

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