

Driver Initialization

Firefox (*Below v.47*)^{Refer}
Part2-Page58

```
System.setProperty("webdriver.gecko.driver", "PathTo\\geckodriver.exe");
```

Download from
<https://github.com/mozilla/geckodriver/releases>

```
WebDriver driver = new FirefoxDriver();
```

Chrome^{Refer} Part2-Page59

```
System.setProperty("WebDriver.chrome.driver",  
System.getProperty("user.dir")+"//BrowserDrivers\\chromedriver.exe");
```

Download from
<https://sites.google.com/a/chromium.org/chromedriver/download>

```
WebDriver driver = new  
ChromeDriver();
```

Internet Explorer^{Refer}
Part2-Page59

```
System.setProperty("WebDriver.ie.driver",  
"PathTo\\IEDriverServer.exe");
```

Download from The Internet
Explorer Driver Server at
<http://docs.seleniumhq.org/download/>

```
WebDriver driver = new  
InternetExplorerDriver();
```

Selenium Locators

Locating by ID^{Refer}
Part2-Page37

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

Locating by Name^{Refer}
Part2-Page37

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

Locating by Xpath^{Refer}
Part2-Page37/38

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

Locating Hyperlinks by Link Text ^{Refer}
Part2-Page38/39

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

Locating by DOM^{Refer}
Part2-Page39

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

Locating by CSS^{Refer}
Part2-Page40-43

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

Locating by ClassName^{Refer}
Part2-Page37

```
driver.findElement(By.className("profile-header"));
```

Locating by TagName^{Refer}
Part2-Page37

```
driver.findElement(By.tagName("select")).Click();
```

Selenium Locators (cont)

Locating by LinkText^{Refer}
Part2-Page37-40

```
driver.findElement(By.linkText("NextPage")).click();
```

Locating by PartialLinkText^{Refer}
Part2-Page37-40

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

Selenium Exceptions

'Server Exception : sessionId should not be null'^{Refer} Part2-Page160

Replace Chrome Driver with Latest Version

ERROR: No sessionId provided^{Refer}
Part2-Page160

Use Jenkins

UnreachableBrowserException^{Refer}
Part2-Page160

Registry Key Changes Recommended

Illegal state exception using Selenium 3^{Refer} Part2-Page161

Get latest Firefox Gecko Driver

Annotations

TestNG @BeforeSuite @AfterSuite @BeforeTest @AfterTest
@BeforeGroups @AfterGroups @BeforeClass @AfterClass
@BeforeMethod @AfterMethod

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

Practice Scripts

Launch
Webpage^{Refer}
Part2-Page60

```
driver.get("www.webdriverinselenium.com");
```

Click
Button^{Refer}
Part2-Page60

```
driver.findElement(By.id("submit")).click();
```

Store Text^{Refer}
Part2-Page60

```
String txtDropdown =  
driver.findElement(By.ID("select")).getText();
```

Enter Text^{Refer}
Part2-Page61

```
driver.findElement(By.xpath("//input[@name='FirstName034']")).sendKeys("NarayananPalani");
```

Handle
Alert^{Refer}
Part2-Page62

```
Alert Alertpopup = driver.switchTo().alert();
```

(Mouse)Click^{Refer} Part2-Page62

```
driver.findElement(By.xpath("//input[@value='OBJECTNAME']")).click();
```

Compare
Text^{Refer}
Part2-Page64

```
Assert.assertTrue(chkbox12.isSelected());
```



Practice Scripts (cont)

Disable a driver.getElementsByName('<ObjectID>')

Field^{Refer} [0].setAttribute('disabled', '');

Part2-Page64

Enable a driver.getElementsByName('<ObjectID>')

Field^{Refer} [0].removeAttribute('disabled');

Part2-Page64

Screenshot^{Ref} File snapshot =
er Part2-Page64 ((TakesScreenshot)driver).getScreenshotAs(OutputType
.FILE);

FileUtils.copyFile(snapshot, new
File("C:\\screenshot.jpg"));

Print the Title String pagetitle = driver.getTitle();

of the

Page^{Refer}

Part2-Page68

System.out.print(pagetitle);

Implicit driver.manage().timeouts().implicitlyWait(10,

Wait^{Refer} TimeUnit.SECONDS);

Part2-Page69

Explicit WebDriverWait wait = new WebDriverWait(driver, 20);

Wait^{Refer}

Part2-Page70

wait.until(ExpectedConditions.textToBePresentInElement
Located(By.xpath("//div[@id='<Object ID>']"), "Enter
Your Personal Details"));

Fluent Wait wait = new FluentWait(driver)

Wait^{Refer}

Part2-Page70

.withTimeout(20, SECONDS)

Sleep^{Refer} Thread.Sleep(10);

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