

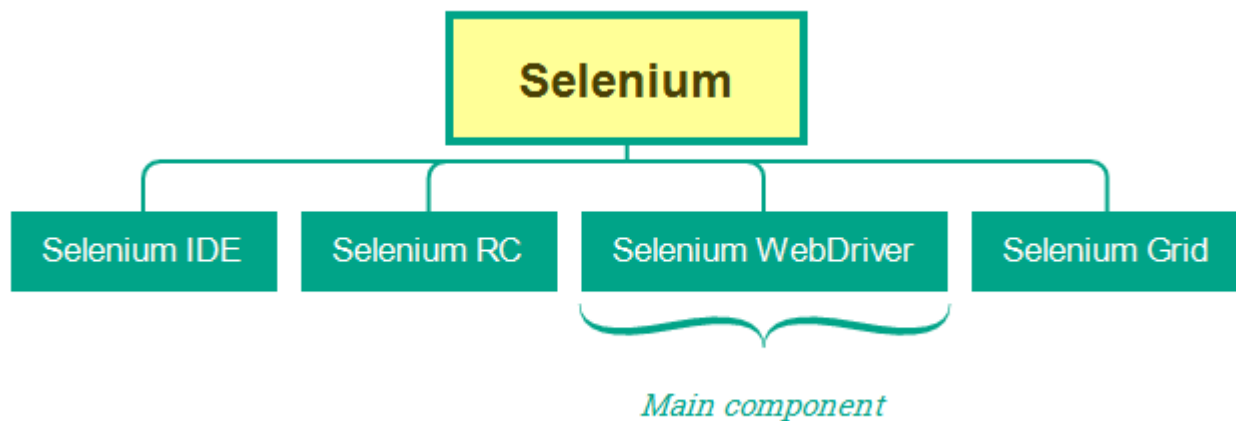
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Selenium Java Training - Session 12 - WebDriver (Introduction, Downloading, Configuration and WebDriver API Commands - Part 1)

[WebDriver \(Introduction, Downloading, Configuring and WebDriver API Commands - Part 1\)](#)

What is Selenium WebDriver?

Selenium WebDriver is the main component of Selenium and requires Core Java knowledge for using it.



Downloading and configuring Selenium WebDriver in Java Projects

Follow the below steps for downloading and configuring the Selenium WebDriver in a Java Project:

1. Create a new Java Project
2. Create a new Class say Demo having main() method
3. Create an object for ChromeDriver and assign to the variable of WebDriver interface
4. Create a new folder say 'library' inside the Project workspace
5. Go to mvnrepository and find the latest stable version of Selenium
6. Download latest stable version of Selenium from Selenium.dev > Previous releases
7. Extract the folder and Paste the available jar files into the library folder and configure the Project
8. Create a new folder 'drivers' and copy the compatible chrome driver
9. Setting the Chrome Driver -
`System.setProperty("webdriver.chrome.driver", "D:\\SeleniumTrainingWorkspace\\Demo\\drivers\\chromedriver.exe");`
10. Run the code to see the Chrome Browser launching.
11. How to run the code on other browsers will be explained in the upcoming sessions

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Selenium WebDriver is an API, which contains a set of predefined library of commands / methods.

- Google Search "Selenium Java WebDriver API" and find the predefined methods of WebDriver interface

Lets start using the Predefined methods of Selenium WebDriver.

- **get()** - Used to open the specified URL's web page - Demonstrate [here](#)
 - **http://** needs to be provided, otherwise the specified URL wont get opened
- **manage().window().maximize()** - Used to maximize the current web page - Demonstrate [here](#)
- **findElement(), By class and its predefined methods, WebElement interface and its predefined methods**
 - **findElement()** is a predefined method of WebDriver and it needs to be used with By Class and its predefined methods for locating and performing the operations on UI elements
 - View the 'By' Class and its predefined methods in Selenium API Pages - The purpose of the By class and its predefined methods is to locate the UI elements with the help of the locators
 - **id()** - **By.id("confirm")**
 - **name()** - **By.name("q")**
 - **className()** - **By.className("classone")**
 - **linkText()** - **By.linkText("compendiumdev")**
 - **partialLinkText()** - **By.partialLinkText("compendium")**
 - **cssSelector()** - **By.cssSelector("#confirm")**
 - **xpath()** - **By.xpath("//input[@id='confirm']")**
 - Store the UI element located by the findElement() to reference variable of **WebElement** interface
- **click()** - Used to perform click operation on different UI elements like Button, link, checkbox option and radio option etc
- **sendKeys()** - Used to enter text into the text fields like text box, text area, password fields etc. - [Demonstrate here](#)
- **clear()** - Used to clear the text available in the text box or text area fields - [Demonstrate here](#)
- **getText()** - Used to retrieve the elements text (i.e. The text between the starting and ending tags of HTML elements) - [Demonstrate here](#)

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