

Difference between selenium 4 and previous versions

New features added in Selenium 4:

- In Selenium 4, no opera and no phantom JS support anymore. Instead, user use chrome and Firefox.
- With Selenium 4 we can take the screen shot of a specific element on the web page.

Example:

WebElement

```
logo=driver.FindElement(By.xpath("//div[@id='divLogo']/img"));
File file=logo.getScreenshotAs(OutputType.FILE);
File destFile =new File("logo.png");
FileUtils.copyFile(file,destfile);
```

- In Selenium 4 we can open new two tabs with two different url concurrently.

Example:

```
driver.get(https://www.google.com/);
driver.switchTo().newWindow(WindowType.TAB);
driver.navigate().to(https://www.crmpro.com/);
```

- In Selenium 4, we can open two applications in one browser

Example:

```
driver.get(https://www.google.com/);
driver.switchTo().newWindow(WindowType.WINDOW);
driver.navigate().to(https://www.crmpro.com/);
```

- In Selenium 4, we can get the dimension, height, width, etc as the location of the object on the web application.

Example:

WebElement

```
logo1=driver.FindElement(By.xpath("//div[@id='divLogo']/img"));
System.out.println("Height:"
+logo1.getRect().getDimension().getHeight());
```

```
System.out.println("Height:"  
+logo.getRect().getDimension().getWidth());  
System.out.println("X Location: " +Logo.getRect().getX());  
System.out.println("Y Location: " +Logo.getRect().getY());
```

- In Selenium 4, new locators are added. New locators help find the element present nearby to other we element.
 - **below()**: Web element located below for the specified element.
 - **toLeftOf()** : Web element present to the left side of specified element.
 - **toRightOf()**: Web element present to the right side of specified element.
 - **above()**: Web element present above the specified element.
 - **near()**: Web element away (50 pixels) from the specified element.

Example toLeftOf():

```
WebElement book;  
book=driver.FindElement(RelativeLocators.withTagName("li")  
.toLeftOf(By.id("pid1"))  
.below(By.id("pid2")));  
String id1=book.getAttribute ("id1");
```

Example toRightOf():

```
WebElement book1;  
book1=driver.FindElement(RelativeLocators.withTagName("li")  
.toRightOf(By.id("pid1"))  
.above(By.id("pid2")));  
String id2=book1.getAttribute ("id2");
```