

# Get Values From A Drop Down

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## Getting Values From A Drop Down

In this session, we are going to get values from a drop-down. Let's use values from this Tools QA Continents and Continents – Multiple Select drop-down boxes. There are 3 Selenium methods for getting values from a drop-down. The 3 methods are `getFirstSelectedOption`, `getOptions`, and `getAllSelectedOptions`.

### `getFirstSelectedOption`

Let's start with `getFirstSelectedOption`. Imagine we have a Test requirement for making sure Asia is the default continent out of these 7 continents. First step is to find the element and it has a select tag. The id is continents. Copy and go to Eclipse.

Next step is to import the Select class after writing `Select select = new Select ()`. Locate the element after importing the Select class. `driver.findElement(By.id("continents"))`; Now, let's get the default option. `select.getFirstSelectedOption`. Also, print the option.

```
sysout("\n1st Default Continent: " + select.getFirstSelectedOption().getText());
Get the text of all continents.
```

This method can also be used to get the most recent option we select. If we hover over the method, it returns "The first selected option in this select tag (or the currently selected option in a normal select)". Write `select.selectByVisibleText("North America")`. We have the option of asserting the value to verify if it is correct using TestNG but let's print `sysout ("What's Your Continent? " + select.getFirstSelectedOption().getText());`

Let's Run. The drop-down shows North America and the Console shows: 1<sup>st</sup> Default Continent is Asia. What's Your Continent? North America. PASS

### `getOptions`

For the next 2 methods, let's use the Continents - Multiple Select drop-down. Inspect and start by getting the id which is continentsmultiple. Do you see this multiple attribute? The multiple attribute shows we can select multiple values from this drop-down. Go to Eclipse. This Test Script will get all of the options in the drop-down. Say for example, we have a requirement that wants us to validate each continent. We write,

```
Select select = new Select (driver.findElement(By.id("continentsmultiple")));
select.getOptions; This method returns "All options belonging to this select tag". The data type is List
<WebElement>. Therefore, we assign all of the continents to List <WebElement> with listContinents as
the object. Import.
```

Let's write a print statement that says "Get All Continents". `sysout("Get All Continents")`. We must loop through all of the continents then get the text of each continent. Use the for each loop.

Write for CTRL + SPACE then select foreach, change webElement to continent. Now, print the continent. `sysout System.out.println("\t" + continent.getText());`

Let's Run. We see all 7 continents.

### `getAllSelectedOptions`

The last method is `getAllSelectedOptions`. We are going to use the same multiple select drop down box. Therefore, let's copy the Select statement from get options and paste it. Now, we are going to select some options from the drop down. Let's select the first 3 Asia, Europe, and Africa. Select by index 0, Europe by value EU, and Africa by visible text. Go back Eclipse.

```
select.selectByIndex(0); //Asia
select.selectByValue("EU"); //Europe
select.selectByVisibleText("Africa");
```

Now, get all of the selected options by writing `select.getAllSelectedOptions` which returns "All selected options belonging to this select tag". It also has `List <WebElement>` so we assign the selected options to `List <WebElement>` and name the object `selectedContinents`. Let's loop through the list

```
for (WebElement continent : selectedContinents)
{
    System.out.println("\t" + continent.getText());
}
```

Let's write another print statement before the loop: `sysout("What Continents Did You Select?")` and Run. We see Asia, Europe, and Africa are selected. On the Console, What Continents Did You Select? Asia, Europe, and Africa. That's it for getting values from a drop-down using Selenium's Select Class.

Next, we are going to deselect values using Selenium's Select Class.