Selenium Dropdowns Select Class

In **Selenium WebDriver**, interacting with dropdowns is commonly done using the **Select** class, which provides methods to select or deselect options in **<select>** HTML tags.



What is a Dropdown?

In HTML:

Selenium provides the **Select** class to handle such dropdowns.

Importing Select Class in Java

```
java
import org.openqa.selenium.support.ui.Select;
```

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Example Code: Handling Dropdowns

▼ Full Example with Explanation

```
java
import org.openqa.selenium.By;
import org.openga.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.Select;
public class DropdownExample {
    public static void main(String[] args) {
    // Set path to ChromeDriver
        System.setProperty("webdriver.chrome.driver", "path_to_chromedriver");
        // Launch browser
        WebDriver driver = new ChromeDriver();
        // Navigate to webpage with dropdown
        driver.get("https://example.com/dropdown");
        // Locate the dropdown element
        WebElement dropdownElement = driver.findElement(By.id("dropdown"));
        // Create Select object
        Select dropdown = new Select(dropdownElement);
        // Select by visible text
```

```
dropdown.selectByVisibleText("Option 1");

// Select by index (starting from 0)
dropdown.selectByIndex(1);

// Select by value (matches value="2" from option tag)
dropdown.selectByValue("2");

// Get selected option
WebElement selectedOption = dropdown.getFirstSelectedOption();
System.out.println("Selected option: " + selectedOption.getText());

// Get all options
for (WebElement option : dropdown.getOptions()) {
    System.out.println("Available option: " + option.getText());
}

// Close browser
driver.quit();
}
```

Common Methods in Select Class

Method	Description
<pre>selectByVisibleText(String text)</pre>	Selects dropdown option by the text visible to the user
<pre>selectByIndex(int index)</pre>	Selects dropdown option by index (starting from 0)
selectByValue(String value)	Selects option by matching the value attribute
<pre>getFirstSelectedOption()</pre>	Returns the currently selected option
getOptions()	Returns a list of all options in the dropdown
deselectAll()	Deselects all selected options (only for multi-select dropdowns)
isMultiple()	Checks if dropdown supports multiple selections

Handling Multi-Select Dropdowns

If the dropdown allows selecting multiple options (using multiple attribute), use:

```
if (dropdown.isMultiple()) {
    dropdown.selectByIndex(0);
    dropdown.selectByIndex(2);
    dropdown.deselectByIndex(0);
    dropdown.deselectAll();
}
```

Notes

- **Select** class only works with **<select>** tags. For custom dropdowns (div-based), you need to use standard click and XPath logic.
- Always use getFirstSelectedOption() to verify the selected value.
- Always check with isMultiple() before calling deselect methods.

Would you like an example for **custom dropdowns (not using <select>)** as well?