

Handling Dropdowns in Playwright

Dropdowns in the DOM come in various forms. Some are wrapped in a `<select>` tag, while others may not be. Dropdowns may also be styled with frameworks like **Bootstrap**, and some may be **hidden** or **auto-suggested**.

Types of Dropdowns:

1. **Single Option Selection:**
 - o Multiple options are available, but only one option can be selected at a time.
 2. **Multiple Option Selection:**
 - o Multiple options are available, and the user can select more than one option.
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Operations You Can Perform on Dropdowns:

1. **Select a Value from the Dropdown:**
 - o You can select a specific value from the dropdown.
 2. **Assertions on Dropdowns:**
 - o You can verify or assert if the correct option is selected or check if certain options exist in the dropdown.
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Basic Dropdown (Under `<select>` Tag)

The most straightforward type of dropdown is the one wrapped inside a `<select>` tag, with `<option>` tags inside it. Playwright provides built-in functions to handle these.

Example DOM:

```
<select id="show" class="form-control">
  <option value="GilmoreGirls">Gilmore Girls</option>
  <option value="Outlander">Outlander</option>
  <option value="AnneWithAnE">Anne with an E</option>
</select>
```

Ways to Select Options from a Basic Dropdown:

1. Select by Label (Text):

You can use the `selectOption` function and pass the label (text) of the option you want to select.

```
await page.locator('#show').selectOption({ label: 'Gilmore Girls' });
// Or
await page.locator('#show').selectOption('Gilmore Girls'); // Both
are equivalent
```

2. Select by Value:

You can select the option by its value. For example, "Outlander" has the value Outlander, and "Anne with an E" has the value AnneWithAnE.

```
await page.locator('.form-control').selectOption({ value:  
  'AnneWithAnE' });
```

3. Select by Index:

You can select an option by its index (starting from 0).

```
await page.locator('#show').selectOption({ index: 1 });  
// This will select 'Outlander' as it's the second option (index 1)
```

Best Practice:

- It's recommended to **select by label or text**, as values and indices can change dynamically, leading to potential issues. Using labels or text ensures that your code remains more stable and easier to maintain.
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Summary of Playwright Functions for Dropdowns:

- **Select by Label/Text:**

```
await page.locator('#show').selectOption({ label: 'Gilmore Girls' });
```

- **Select by Value:**

```
await page.locator('#show').selectOption({ value: 'Outlander' });
```

- **Select by Index:**

```
await page.locator('#show').selectOption({ index: 1 });
```
