# CYDEO

Dropdowns



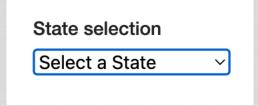
#### What we will learn:

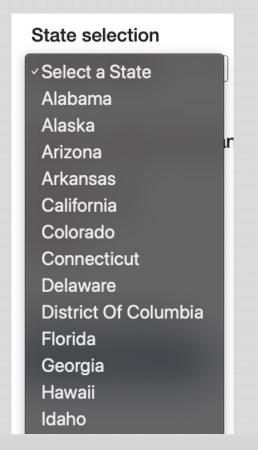
- What is a dropdown?
- How many types of dropdowns are there?
- How do we handle dropdowns using Selenium WebDriver?
- Learn some methods to handle dropdowns



# What is a dropdown?

- Dropdowns are one of the important web elements in the HTML
- They are used to create an organized way to display different <options> to user







# There are 2 types of dropdowns

- 1. HTML DROPDOWNS (non-select)
- 2. SELECT DROPDOWNS



# 1- HTML DROPDOWNS (non-select)

- If a dropdown is created using anything other than <select> tag, it is called HTML dropdown.
- We handle just as any other web element.
- We locate. We click.



#### 2- SELECT DROPDOWNS

- Select dropdowns are created using <select> tags,
- And the options are created using <option> tag



# How to handle Select dropdowns?

- We can NOT just directly locate and click or operate.
- We must use the "Select" class and methods that comes with Selenium Library.



#### Syntax and order

We locate the select dropdown

```
WebElement dropdown = driver.findElement(By.id("dropdown"));
```

- We create an object of "Select" (from Selenium library)
- We pass the already located web element into the constructor of Select object.

```
Select select = new Select(dropdown);
```

 Using the object, we will be able to reach the methods coming from this.

```
select.selectByIndex(1);
```



#### Preferred way:

- Give the name of the dropdown to Select object
- Pass the WebElement into the Select constructor
- Instead of creating everything in 2 lines, you create in one line.
- More organized and easier to keep track of things when it comes to dropdowns.

```
Select dateDropdown = new Select(driver.findElement(By.id("dropdown")));
```



## What would you want to verify on a dropdown?

- What is selected by default?
- How many options are there?
- When you select something, is it actually selected?
- Select multiple options at once, and verify? (only some dropdowns)



# How do you get default selected value?

- .getFirstSelectedOption();
- This method allows us to get default selected option
- We can also verify currently selected option after selecting something else.
- Return type: WebElement
- Syntax: dateDropdown.getFirstSelectedOption();



### How do you get all the options from a dropdown?

- .getOptions(); method
- Returns all of the options in the dropdown.
- Return type : List<WebElement>
- Syntax:

List<WebElement> allOptions = dateDropdown.getOptions();



# How do you select one option using select object?

- There are 3 methods provided from Select class.
- Therefore we have 3 different way of selecting options.
- l. By text:
- 2. By value:
- 3. By Index:



# #1- By Text

- We use .selectByVisibleText() method
- Whatever text the <option> has can be used to select the option
- This method accepts a String argument as the text of the goal option
- Syntax:

dateDropdown.selectByVisibleText("2020");

```
2022
2021
2020
2019
2018
2017
2016
2015
2014
2013
2012
```

<option value="2020">2020</option>



# #2- By value

- We use .selectByValue() method
- Whatever value of attribute "value" the <option> has can be used to select the option
- This method accepts a String argument as the text of the goal option
- Syntax: dateDropdown.selectByValue("2020");

```
2022
2021
2020
2019
2018
2017
2016
2015
2014
2013
2012
```

<option value="2020">2020</option>



# #3- By index

- We use .selectByIndex() method
- Whatever index number the <option> has can be used to select the option
- This method accepts a int argument as the text of the goal option
- Syntax: dateDropdown.selectByIndex(2);

```
2022 0
2021 1
2020 2
2019 3
2018 4
2017
2016
2015
2014
2013
2012
```