CPSC1520 – JavaScript 3 Exercise: Events! Functions! JS Resources!
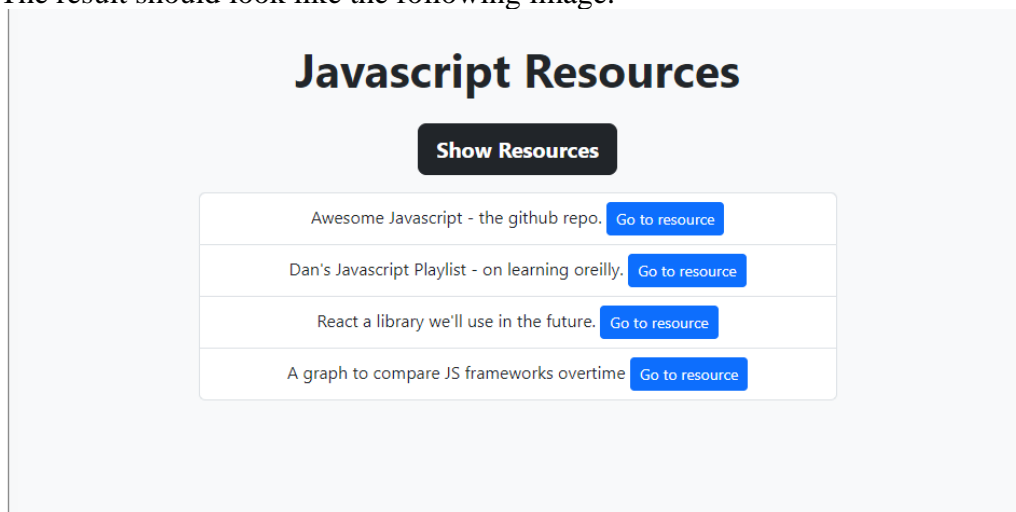
Introduction

Events in JavaScript are the backbone of getting input from the user and making pages reactive. In class, we've learned how to add event listeners (and handlers), use the event object, prevent default event actions from happening, and a whole bunch more.

In this exercise, we will use this knowledge to keep our "More JavaScript Resources" page open and make it more user-friendly by highlighting links as our users hover over them.

Task 1 – Show the JavaScript Resources

1. Link your JavaScript file.
2. Create a reference variable to the **div element** with the id of resources.
3. Create a reference variable to the button with the id of **show-resources**.
4. Add an event listener on the button that will listen to the **click** event.
5. Create an event handler function for the **button element** id that removes the class **d-none** from the **div element.**

The result should look like the following image.

Note: If you refresh the page the resources should be hidden again.

Task 2 Making the links bold.

1. Add an event listener on to the to the **div element** with the id of resources.
2. Make sure to pass the event object to the event handler function.
3. Using the console.log() method display the target property of the event object. See example below. What does it display?

```
// e is the event object.
function eventHandlerFunction(e) {
  console.log(e.target)
}
```

4. On the **event.target** use the method **classList.add** to add the class named **fw-bold.**

When you only hover over the links and button you should see something like the image below

Task 3 – Remove the bold font from the links

1. Add another event listener on to the to the **div element** with the id of resources.
2. Listen for the mouseout event.
3. Create an event handler function.
4. Make sure to pass the event object to the event handler function.
5. Inside your event handler remove the bold text.
6. Use the event objects target property, shown below and remove the **fw-bold** class

```javascript
// e is the event object.
function eventHandlerFunction(e) {
console.log(e.target)

}
```
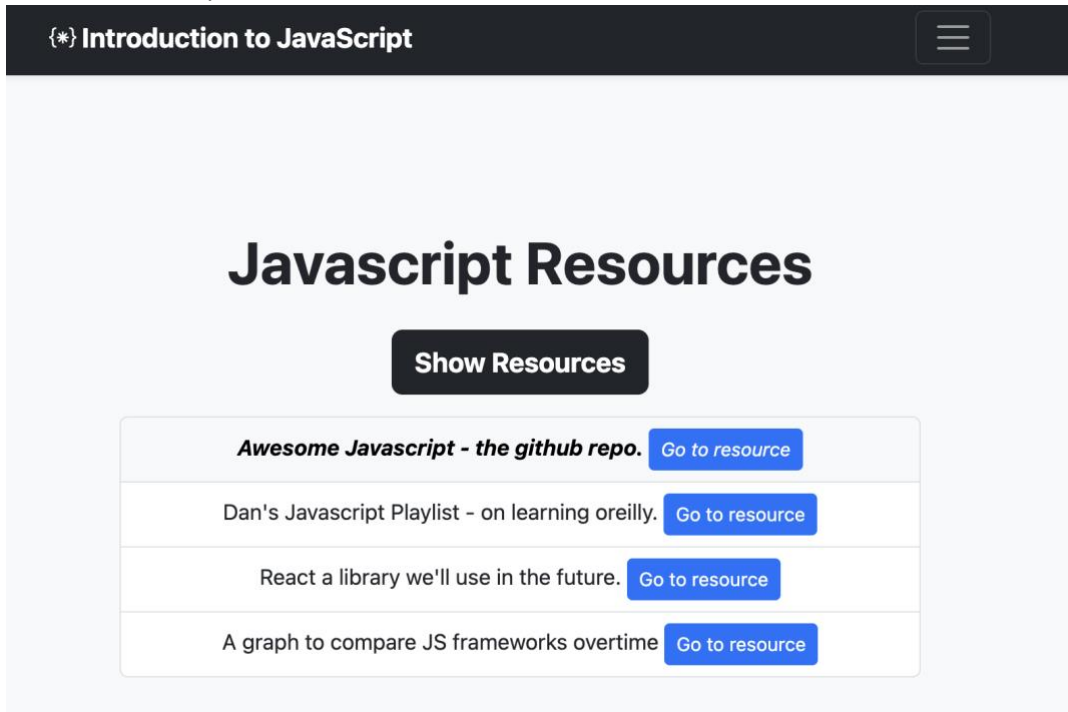
When you **test the third item** (after hovering over the other items) it should now look something like this.

Task 4 – Italicize a clicked item.

1. Add an event listener to the **div element** that listens for the click event.
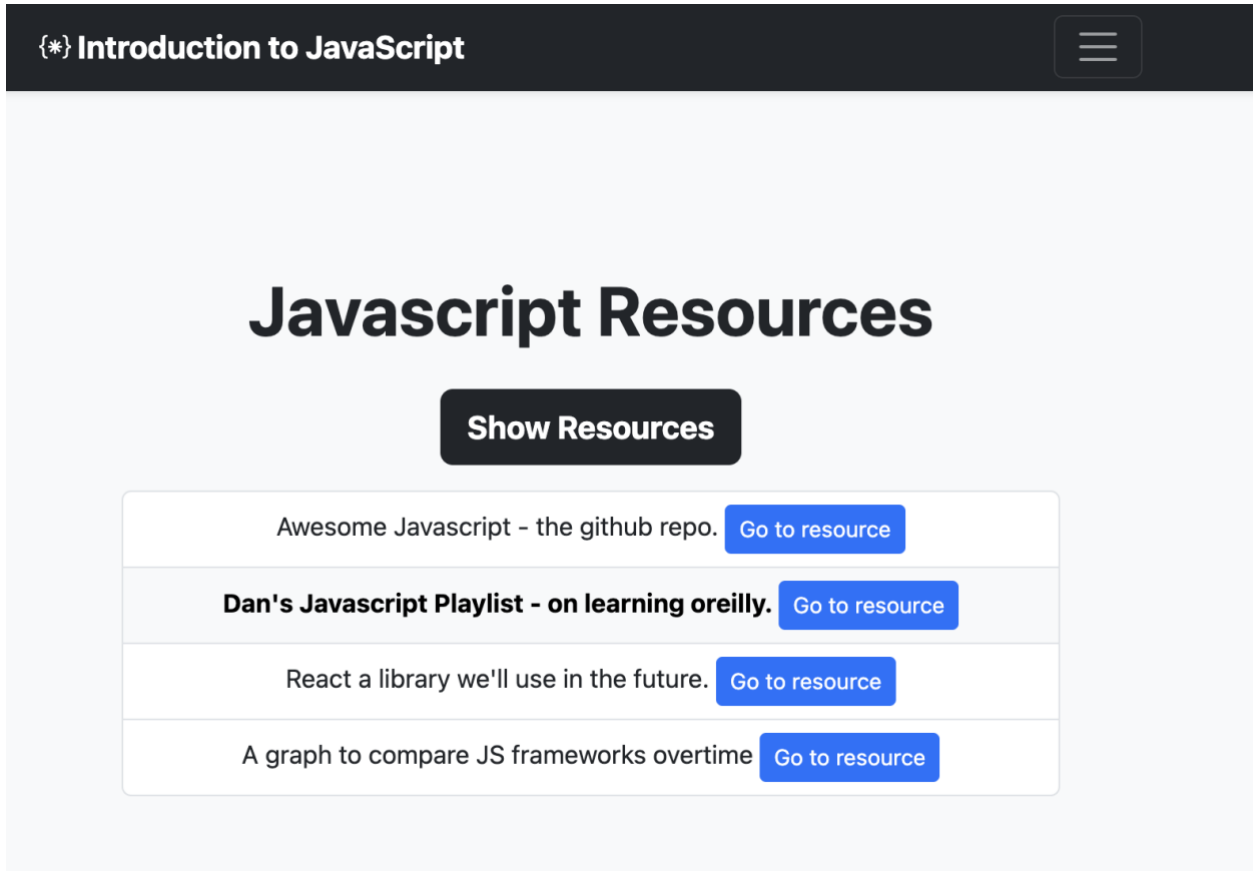2. In that event handler for this event add the class *fst-italic* on **e.target**

The result when you click the first and third items is as shown below.

Task 5 – Remove Italic

1. On the mouseout event handler function for the **div element** remove the class *fst-italic* on **e.target**

The example below shows the mouse in the second list item and the first list item is reset to its original view.

Submission

Deploy your completed lab to Netlify. The easiest way is to drag and drop the lab folder.
Create a GitHub repository for your lab.
You can also deploy your lab using the import from Git option. This option is found in the sites tab in the Netlify dashboard. [Deploy from Git Video](#)

Submit the Netlify URL to your lab to Moodle.
Submit the GitHub repository URL for your lab to Moodle.