

CODE EXERCISE

JAVASCRIPT EVENTS

LAB 1

1) Create an HTML file called "events.html" and add the following code:

```
<!DOCTYPE html>
<html>
<head>
  <title>JavaScript Events</title>
</head>
<body>
  <button id="my-button">Click me!</button>
  <script src="events.js"></script>
</body>
</html>
```

This creates a simple HTML page with a button that says "Click me!". We also include a link to a JavaScript file called "events.js" which will contain our JavaScript code.

2) Create a file called "events.js" in the same directory as "events.html" and add the following code:

```
var button = document.getElementById("my-button");

button.addEventListener("click", function() {
  alert("Button was clicked!");
});
```

This code uses the `getElementById()` method to select the button element, and the `addEventListener()` method to attach a "click" event listener to the button. When the button is clicked, the anonymous function passed to `addEventListener()` is executed, which will display an alert box that says "Button was clicked!".

3) Open "events.html" in a web browser.

4) Click the button, you should see an alert box that says "Button was clicked!"

5) Try adding an event for mouseover, mouseout, keyup etc.

This is a simple demonstration of how you can use JavaScript to respond to events on a web page. You can also attach event listeners to other elements and respond to different types of events, such as mouse

SUBMITTING EXERCISES

To earn certification all exercises must be submitted and accepted.

1) When you've completed all of the HTML exercises, please zip them into a single file and submit to our Dropbox at <http://bit.ly/CWDP2324>.

2) Next, fill out the certification completion form at <https://forms.gle/5EiUGCM6dGdIF2Py6>.

Remember, that all of your exercises for each module should be included in a separate zip file.

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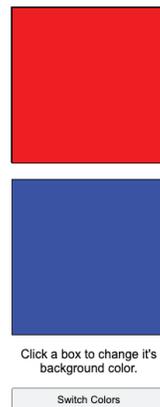
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events, keyboard events, and form events.

LAB 2

- 1) Download the code file entitled "index.html" located at https://drive.google.com/drive/folders/1lr3LJtLb5MJlPriGoWXYxl_NU2KgkOYq?usp=sharing.
- 2) Load the file into you browser. It should look something like this:



- 3) Write the necessary code to change the background color of each box when it is clicked. You can use the following code to create a random number between 0 and 255:

```
const randomNum = Math.round(Math.random() * 255);
```

There are several ways to change a CSS background-color using JavaScript, but one of the most common ways is to use the style property of the element, which allows you to access and modify the inline styles of an element.

Here's an example that demonstrates how to change the background-color of an element with the id "my-element":

```
<div id="my-element">This element's background color will change</div>
<script>
  var element = document.getElementById("my-element");
  element.style.backgroundColor = "red";
```

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```
</script>
```

In this example, we first use the `getElementById()` method to select the element with the id "my-element" and store it in a variable called `element`. Then we use the `style` property of the element to access its inline styles, and we change the `backgroundColor` property to "red".

Alternatively, You can also use `classList` to add, remove and toggle class list.

```
<div id="my-element">This element's background color will change</div>
<script>
  var element = document.getElementById("my-element");
  element.classList.add('red-background');
</script>
```

```
#my-element.red-background{
  background-color : red;
}
```

It is common to use these two method in combination with each other in large projects to add dynamic classes and styles.

4) Implement the button so that when a click event occurs, the background colors of the two divs switch.

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