

## Using jQuery to Change Web Page Appearance

### Manipulating CSS Using jQuery

#### Objectives:

*At the end of the exercise, the students should be able to:*

- Create simple jQuery-enabled web pages that can manipulate CSS elements.

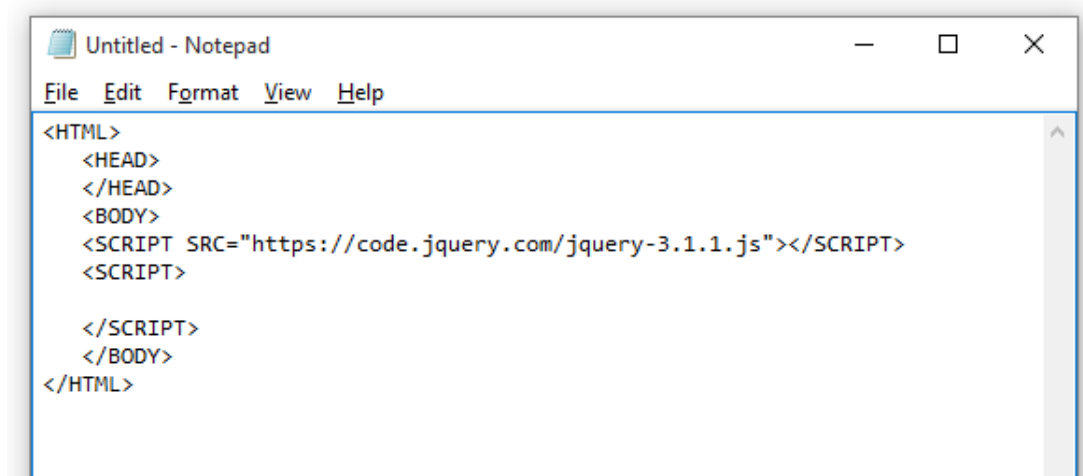
#### Materials:

- Flash drive
- Desktop computer
- Basic text editor application (Notepad, Notepad++, or equivalent)
- Web browser (Chrome, Firefox, or equivalent)
- Internet connection (required for loading jQuery library via CDN method)

#### Procedures:

##### Activity 1 Creating an Internal JS/jQuery Script

1. Open your basic text editing program and write a simple HTML document containing **two (2) <SCRIPT> tag pairs**. The first tag pair will contain the URL that will load the jQuery library via the CDN method, while the second tag pair will serve as the code body for internal jQuery script.



```
<HTML>
  <HEAD>
  </HEAD>
  <BODY>
    <SCRIPT SRC="https://code.jquery.com/jquery-3.1.1.js"></SCRIPT>
    <SCRIPT>

    </SCRIPT>
  </BODY>
</HTML>
```

2. Save your program as **LabExer11-XXX.html** (replace **XXX** with your initials, for example **LabExer11-ABC**) in order for the file to be recognized as an HTML document. Give special attention to the file extension (**.html**).
3. Create a copy of this file for use on the succeeding activities. When you're finished, have your instructor check your copies before you proceed to the next activity.

## Activity 2 Defining a Simple HTML Web Page

1. Using a copy of **LabExer11-XXX.html**, write a simple within the **<BODY>** code block of the HTML webpage **three (3) <DIV> tag pairs containing one (1) paragraph each.**

For example:

```
<BODY>
  <DIV id="sampleDiv1">
    <P>This is the first paragraph.</P>
  </DIV>
  <DIV>
    <P>This is the second paragraph.</P>
  </DIV>
  <DIV >
    <P>This is the third paragraph.</P>
  </DIV>
</BODY>
```

This will serve as the HTML code block that will be manipulated for the preceding activities.

2. Have your instructor check your work for this activity. You may save a copy of this activity for your own reference and study. The output for this activity is also important for the next activity, so **DO NOT** proceed with the next activity without having this activity checked. Skipping this activity may result in getting less points for the exercise.

## Activity 3 Using the css() Method For Single and Multiple Manipulations

1. Using the HTML file from the previous activity, write the following **jQuery script** within the second **<SCRIPT>** tag pair:

```
<SCRIPT>
  $("#sampleDiv1").css("background-color","yellow");
  $("p").css({"background-color": "red","width":
    "400px"});
</SCRIPT>
```

The first statement of the jQuery script code block uses the **ID value** of the first **<DIV>** element (**sampleDiv1**) and the **css() method** to change the background color of that particular paragraph. Notice that actual color names and not hexadecimal values are used due to CSS flexibility for color values.

The second statement changes the appearance of **ALL** paragraph elements on the web page using the **css() method**; however it uses a single **css()** method for **multiple CSS property changes** for the paragraph element class by using the **JSON property:value pair syntax**.

2. Open the HTML file for this activity from any browser application and have your instructor check your work. You may save a copy of this activity for your own reference and study. The output for this activity is also important for the next activity.

**Bonus Activity Personalizing Your Work**

1. Using a copy of the HTML file from the previous activity, personalize your exercise output by editing the code to **personalize the paragraph contents, as well as editing the CSS properties of each <DIV> element.**
2. Show your updated version of the laboratory exercise to your instructor. This will allow for additional points for the entire laboratory exercise.