## Overview

jQuery is one of the most popular JavaScript libraries in use today. A JavaScript library is a set of JavaScript that generally simplifies or enhances the base JavaScript code. jQuery, in particular, is known for its legibility and ability to easily manipulate HTML and CSS.

In this activity, you will be adding and using jQuery to modify CSS and HTML using JavaScript.

## Tips

When using jQuery, you still have access to all the regular JavaScript code, syntax and functionality. Think of jQuery as a helper that makes some things a little bit easier.

You can read explore more jQuery functionality [here](https://jquery.com/).

## Instructions

**Step 1: Implementing jQuery**

1. Open index.html located in Activities / 03\_Using\_jQuery.
2. Note this file already has a <script> tag that links to index.js in the js folder.
3. Add a second <script> tag that links to 'https://code.jquery.com/jquery-3.4.1.min.js' **above** the existing <script> tag.
   * jQuery is widely hosted across the internet, so you can also find other hosted copies by simply searching for it!
   * Just like CSS, the order of your externally linked JavaScript files is important. If you are relying on the content of one file, that file must come first!
4. Save your changes. If you were to open index.html in your browser, you wouldn’t notice anything different due to adding jQuery (yet!).

**Step 2: Using jQuery**

1. Open index.js located Activities / 03\_Using\_jQuery / js.
   * You will be using jQuery to manipulate the HTML and CSS properties of the HTML in index.html.
2. Using jQuery, target the <h1> tag in index.html.
   * You can invoke jQuery with the $ symbol. This tells the code that the following code will be jQuery **instead** of regular JavaScript.
   * You can target HTML elements, classes and IDs with the following syntax, it should look familiar:

|  |
| --- |
| // Elements  $("elementName");  // Classes  $(".className");  // IDs  $("#idName"); |

1. Next, change the text color of the <h1> tag using jQuery.
   * Once you have selected an element, class or ID, you can further manipulate it. The jQuery css() function can be used to apply CSS styling using JavaScript. How neat is that?!

|  |
| --- |
| $("elementName").css("property", "value"); |

* + *Hint: The CSS property for text color is color. You can set the color with a hex value or the shorthand value red.*

1. Next, target the blue class and set its text color to blue.
   * No guides this time! Refer to the previous examples and your earlier code!
2. Lastly, target the addMe ID and change its HTML from Goodbye to Hello.
   * The jQuery html() function can be used to change HTML using JavaScript.

|  |
| --- |
| $("#targetID").html("New HTML here"); |

* + You could simply replace the text or insert complex HTML using the html() function.

1. Save your changes in index.js and refresh index.html in your browser to see your changes. What looks different?