

Lab 11:

Libraries & jQuery

By Julian Fee, Matilda Krulder, and Becky Phillips

Lab 11: Libraries & jQuery

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Due Thursday by 8:50am Points 10 Submitting a file upload File Types pdf

Big Idea

Working with your partner, experiment with jQuery

Task 1: Create an index.html for your lab

As always, create the proper folders and an index, css, and JavaScript files for this lab. And make sure you also put a link from your art101 homepage to this lab

1. Create an **index.html** with three organized sections: **Challenge, Problems, and Results**
2. Put each of these sections in their own div and give them the ids **challenge, problems, and results**, respectively.
3. Use heading, div, and paragraph tags to organize your page
4. As usual, link a JavaScript file from the `<head>` section of your HTML like this:

```
<head>
  <title>Lab 14</title>
  <script src="js/lab11.js" defer></script>
</head>
```

5. Link to the latest version of jQuery in the `<head>`:

```
<script src="https://code.jquery.com/jquery-3.4.1.min.js"></script>
```

6. Add a CSS stylesheet in your css folder and link from **index.html**
7. Create a `<div id="output">`

Task 1: Create an index.html for Lab 10

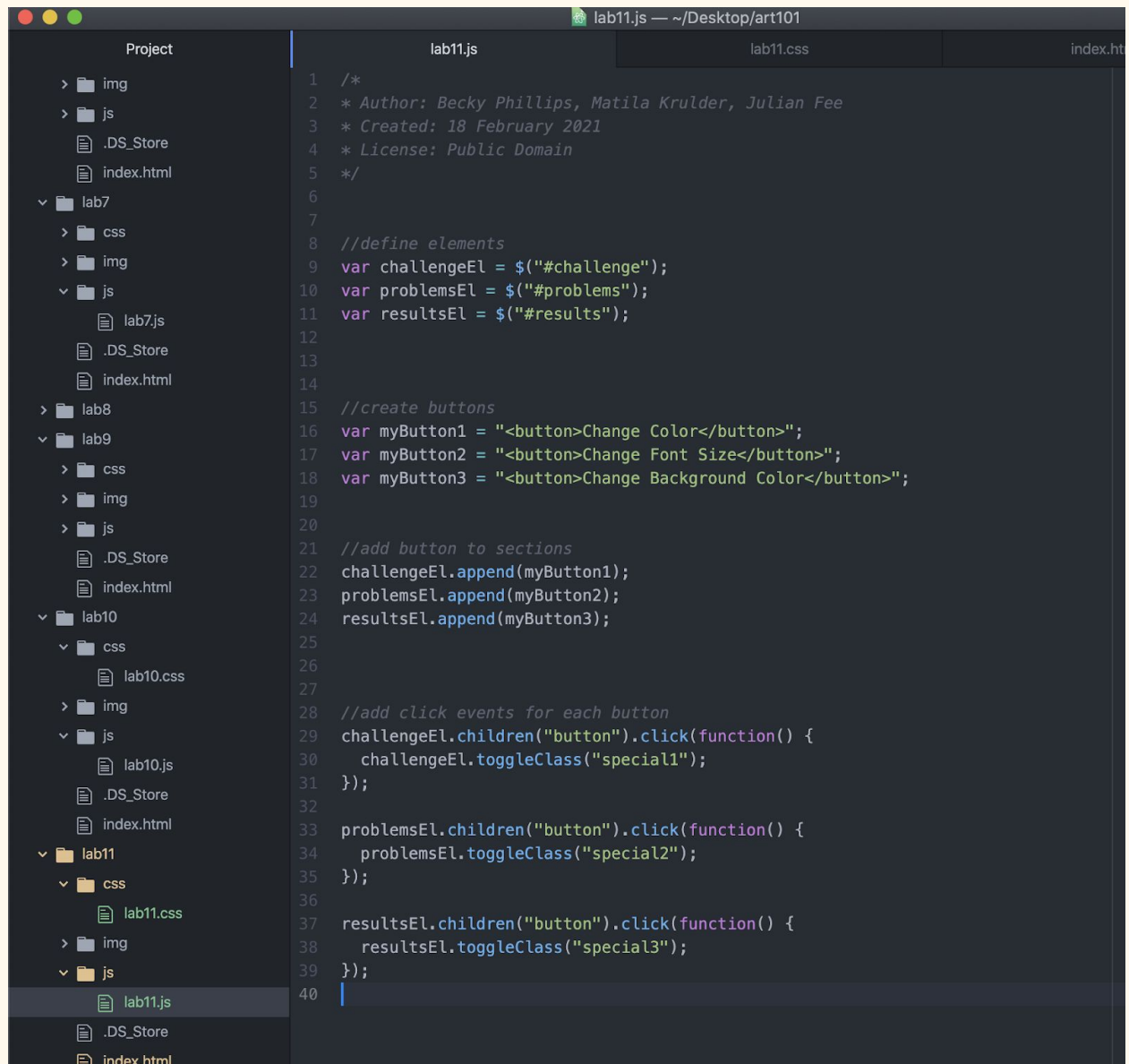
```

1 <!DOCTYPE html>
2 <html lang="en" dir="ltr">
3   <head>
4     <meta charset="utf-8">
5
6     <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
7     <link rel="stylesheet" type="text/css" href="css/lab11.css">
8     <title>Lab 11: Libraries and jQuery</title>
9     <script src="js/lab11.js" defer> </script>
10  </head>
11
12  <body>
13    <div id="grad">
14      <h1>Lab 10: JavaScript Events and Forms</h1>
15    </div>
16
17    <div id="dream">
18
19    <div id="challenge">
20      <h2>Challenge</h2>
21      <p>The idea of this lab was to practice and experiment with jQuery.
22      We are meant to create three buttons under each heading below with text
23      attached. Finally, the buttons must do something and toggle a CSS change.</p>
24    </div>
25
26    <div id="problems">
27      <h2>Problems</h2>
28      <p>We had a few problems with this lab, the first being not knowing really
29      where to start. We were able to link jQuery and use its syntax to find the
30      elements we needed; however we got stuck when trying to use the toggleClass
31      method. We found the lab instructions a little unclear, but once we got some
32      from the TAs, we were able to complete the lab.</p>
33    </div>
34
35    <div id="results">
36      <h2>Results</h2>
37      <p>Click on each button to see what it does. As a bonus, we designated a different
38      class toggle for each button!</p>
39    </div>
40
41    <div id="output"></div>
42  </div>
43 </body>
44 </html>
45
46
47

```

(Our HTML in Atom.)

Task 2: Create a JavaScript file



```
1  /*
2  * Author: Becky Phillips, Matila Krulder, Julian Fee
3  * Created: 18 February 2021
4  * License: Public Domain
5  */
6
7
8  //define elements
9  var challengeEl = $("#challenge");
10 var problemsEl = $("#problems");
11 var resultsEl = $("#results");
12
13
14
15 //create buttons
16 var myButton1 = "<button>Change Color</button>";
17 var myButton2 = "<button>Change Font Size</button>";
18 var myButton3 = "<button>Change Background Color</button>";
19
20
21 //add button to sections
22 challengeEl.append(myButton1);
23 problemsEl.append(myButton2);
24 resultsEl.append(myButton3);
25
26
27
28 //add click events for each button
29 challengeEl.children("button").click(function() {
30     challengeEl.toggleClass("special1");
31 });
32
33 problemsEl.children("button").click(function() {
34     problemsEl.toggleClass("special2");
35 });
36
37 resultsEl.children("button").click(function() {
38     resultsEl.toggleClass("special3");
39 });
40
```

(Our JavaScript in Atom.)

```
51
52 .special1 {
53   color: #26d2e8;
54 }
55
56 .special2 {
57   font-size: 230%;
58 }
59
60 .special3 {
61   background-color: #ffeb3b;
62 }
63
```

(Our CSS class additions in Atom.)

Task 3: Test, Debug, and Upload



(Our local file opened on a webpage.)

Link to published Lab 11 webpage:

<https://becphi14.github.io/art101/lab11/index.html>



(Published Lab 11 webpage.)

Summary of Efforts:

We met as a group on Zoom to go over the lab together. We had an easy time formatting the HTML and creating divs around each section and found it fairly simple to link jQuery as we had covered that in lecture. After a bit of searching and looking through notes, we were able to create the buttons. We were stumped when it came to the step “Toggle a class special within the `<div>` of the section” and could not find information in our notes or online but we were able to regroup after a class section and figure it out. Overall we have been struggling on these last couple of labs and would enjoy having a bit more instruction or examples. We feel lucky that we have each other to work through problems and find solutions! The results are some pretty cool effects!