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ART101 - Programming for the Arts

2024 Spring Quarter

Lab 9: Libraries & jQuery

5/13/2024

Links to the lab assignment result

Home Page: <https://yhuan359.github.io/art101>

This Lab page: <https://yhuan359.github.io/art101/lab9/index.html>

Summary of Efforts

Learning about libraries and jquerys is a challenging experience in my perspective. Learning how to use libraries and jquerys specifically teaches me more about functions behind what seem to be simple buttons and functions. It's a challenge to experiment with jquerys because of understanding that jquery is a function that requires other functions in a website to work. Following my TA's example, I am able to understand better of how jquery works especially with the simple click of a button on a website.

Screenshots:

Task 1: Create an index.html for your lab

```
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <!-- This title is used for tabs and bookmarks -->
5      <title>Lab 9: Libraries & jQuery </title>
6
7      <!-- Use UTF character set, a good idea with any webpage -->
8      <meta charset="UTF-8" />
9      <!-- Set viewport so page remains consistently scaled w narrow devices -->
10     <meta name="viewport" content="width=device-width, initial-scale=1.0" />
11
12     <!-- Include a sitewide CSS file for consistent styling across the site -->
13     <link rel="stylesheet" type="text/css" href="../css/site.css">
14     <!-- Lab-specific CSS file for any special styling of this particular page -->
15     <link rel="stylesheet" type="text/css" href="css/lab.css">
16
17     <!-- load jQuery library to make javascript easier (must be above our lab js)-->
18     <script src="https://code.jquery.com/jquery-3.6.4.min.js"></script>
19     <!-- Link to javascript file - DEFER waits until all elements are rendered -->
20     <script type="text/javascript" src="../js/lab.js" DEFER></script>
21   </head>
22   <head>
23     <title>Lab 9: Libraries & jQuery </title>
24     <link rel="stylesheet" type="text/css" href="css/lab.css">
25     <script src="https://code.jquery.com/jquery-3.7.1.min.js"></script>
26     <script src="js/lab9.js"></script>
27   </head>
28
29   <body>
30     <main id="content"></main>
31     <section>
32       <h1> Lab 9: Libraries & jQuery </h1>
33       <div id="challenge" class="minor-section" id= "challenge">
34         <h2> Challenge </h2>
35         <p> Using the button to hide the header </p><br/>
36         <button id = "LaunchButton"> launch</button>
37       </div>
38
39       <div id="problems" class = "minor-section" id= "challenge">
40         <h2> Problems </h2>
41         <p> I had a hard time to get the button to work and I wasn't familiar with jquery</p><br/>
42       </div>
43
44       <div id = "reflections" class="minor-section" id= "challenge">
45         <h2> Reflection </h2><br/>
46         <p> The outcome of the button was very simple despite a very seemingly complicated setup<br/></p><br/>
47       </div>
48
49       <nav id="links">
50         <!-- Put links to other pages (including the homepage) here. -->
51         <ul>
52           <li><a href="https://yhuan359.github.io/art101/">Back to My Home Page</a></li>
53         </ul>
54
55         <script id="jsbin-javascript">
56           function hideHeader() {
57             console.log("function");
58             $("#h1").toggle();
59           }
60
61           $("#LaunchButton").click(hideHeader);
62         </script>
63       </body>
64     </html>
```

Task 2: Create a CSS file for your lab

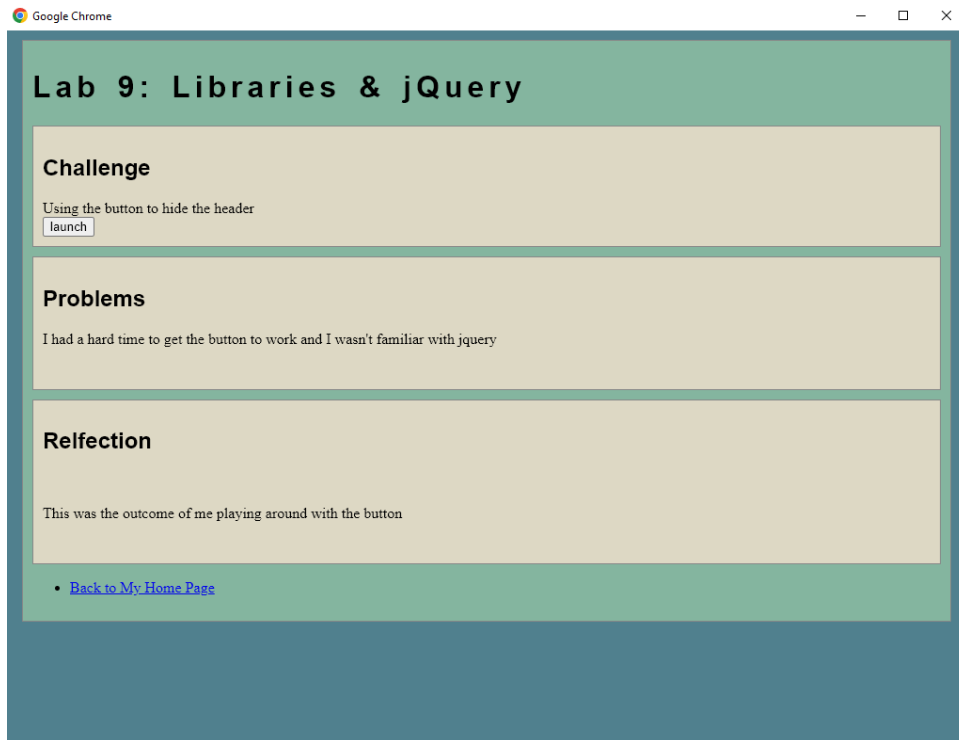
```
lab9 > css > # lab.css > .minor-section
1  /* Here we can set styles for this lab page that we don't want to effect others pages */
2
3  /* the period in a CSS selector selects an element by class, e.g., class="minor-section" */
4  .minor-section {
5      padding: 10px;
6      margin-bottom: 10px;
7      border: solid 1px #888;
8      background-color: #DDD8C4;
9  }
```

Task 3: Create a JavaScript file using jQuery

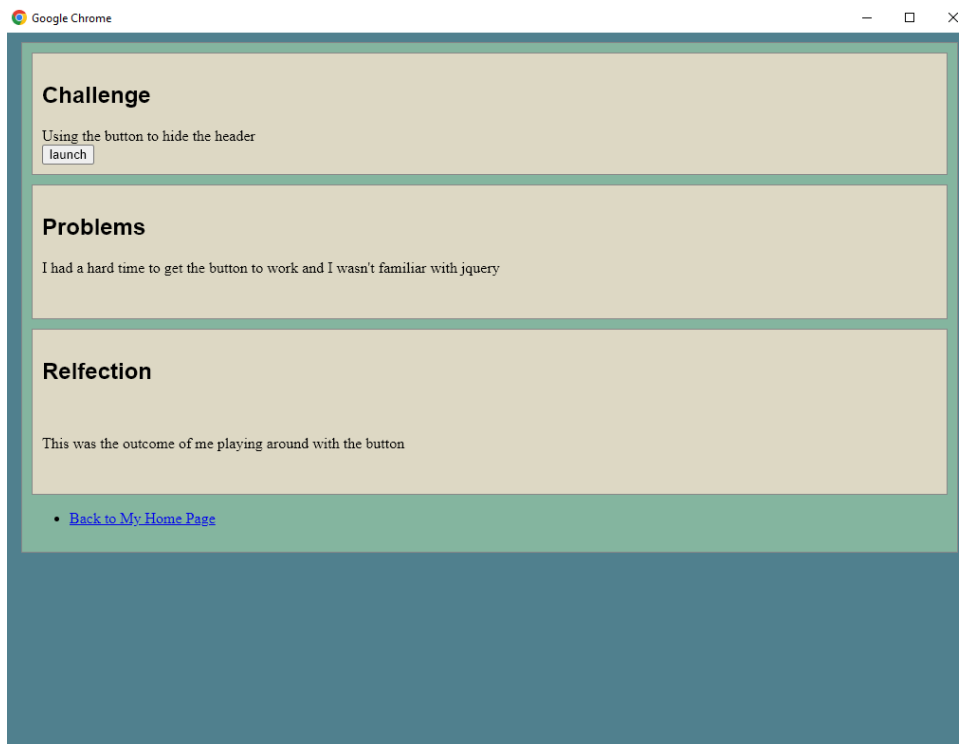
```
1  function hideHeader() {
2      console.log("function");
3      $("h1").toggle();
4
5  }
6
7  $("#LaunchButton").click(hideHeader);
```

Task 4: Test, Debug and upload

Before clicking the button that hides the header:



After clicking the button that hides the header:



Self-Evaluation Rubric

| Self-Evaluation Rubric | | | | | | |
|--|-------------------------------------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|---|
| Did you complete the assignment and did you complete it on time? | Submitted on time | Up to 1 day late | Up to 2 days late | Up to 3 days late | Up to 4 days late | Do you need to clarify? |
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Did you collaborate with a partner? | A lot of effort | | Some effort | | Not this time | Do you need to clarify? |
| | <input type="checkbox"/> | | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| Did you put in earnest effort and provide an articulate summary of your experience? | Excellent | Pretty good | About average | Could be improved | Not this time | What supports this? I followed the instructions and made this very simple. |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Was the assignment complete, with minimal errors, correct output, and good style? | Excellent | Pretty good | About average | Could be improved | Not this time | What supports this? I reviewed the script multiple times to make sure nothing was wrong before debugging it correctly |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| How much EXTRA effort did you put into the assignment? | A lot of extra effort | | Some extra effort | | Not this time | What supports this? |
| | <input type="checkbox"/> | | <input type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| Summary of your evaluation/efforts: Working with jQuery seemed really scary at first, but with the guidance of examples presented to me and carefully evaluating it step by step, I felt that I have a better understanding of how jQuery works. | | | | | | |