

Yifeng Huang

ART101 - Programming for the Arts

2024 Spring Quarter

Lab 5: Data Types and Variables

4/26/2024

Links to the lab assignment result

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

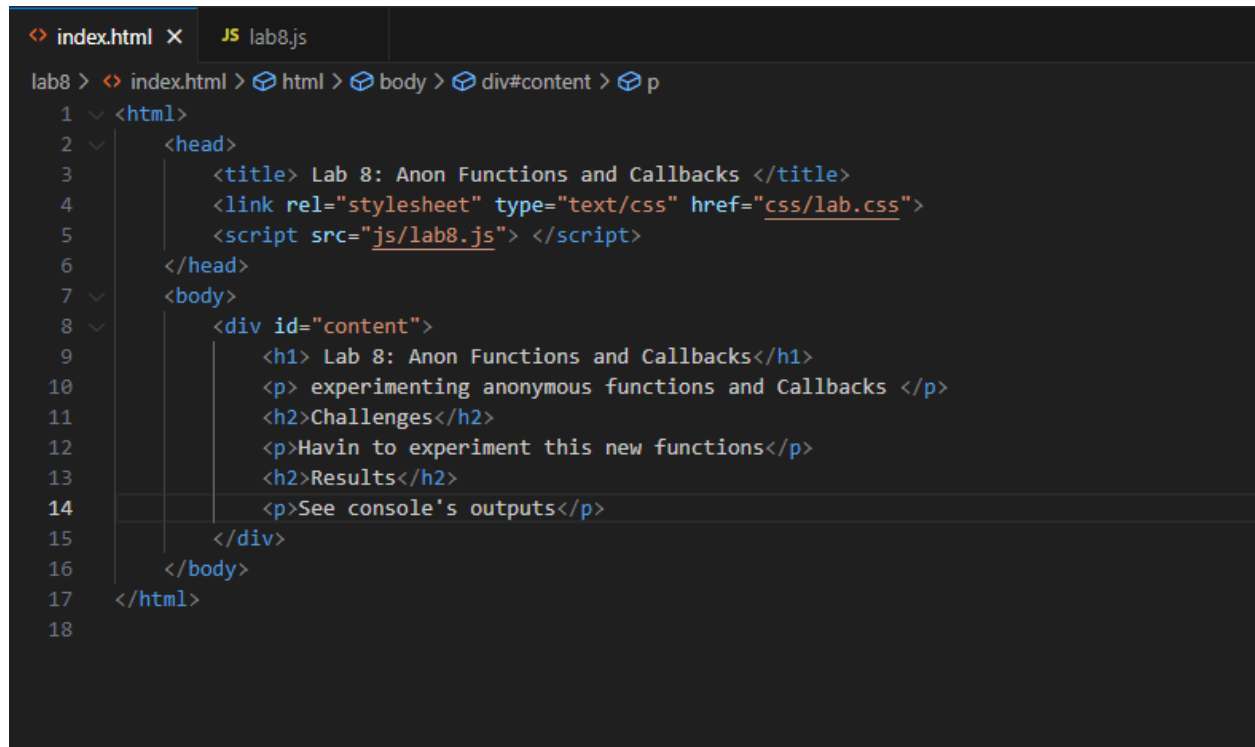
This Lab page: <https://yhuan359.github.io/art101/lab8/index.html>

Summary of Efforts

Learning about anon functions and callbacks is fun because of how “anonymous” these functions feel running in the background without you acknowledging their presence. Anon functions and callbacks. It’s the equivalent of walking into an empty museum display and seeing a blank piece of art before looking closer to see what the art piece is really trying to say.

Screenshots:

Task 1: HTML File



```
lab8 > index.html > html > body > div#content > p
1 <html>
2 <head>
3   <title> Lab 8: Anon Functions and Callbacks </title>
4   <link rel="stylesheet" type="text/css" href="css/lab.css">
5   <script src="js/lab8.js"> </script>
6 </head>
7 <body>
8   <div id="content">
9     <h1> Lab 8: Anon Functions and Callbacks</h1>
10    <p> experimenting anonymous functions and Callbacks </p>
11    <h2>Challenges</h2>
12    <p>Havin to experiment this new functions</p>
13    <h2>Results</h2>
14    <p>See console's outputs</p>
15  </div>
16 </body>
17 </html>
18
```

Task 2: A JavaScript Program

```
No Issues 1 2 
```

```
Is 1 even? false                                lab8.js:12
Is 2 even? true                                  lab8.js:13
My array: ▼ (7) [100, 81, 4, 16, 42, 144, 10000] ⓘ lab8.js:16
    0: 100
    1: 81
    2: 4
    3: 16
    4: 42
    5: 144
    6: 10000
    length: 7
    ► [[Prototype]]: Array(0)
test of evenness of array:                      lab8.js:20
▼ (7) [true, false, true, true, true, true, true] ⓘ
    0: true
    1: false
    2: true
    3: true
    4: true
    5: true
    6: true
    length: 7
    ► [[Prototype]]: Array(0)
Square root of array:                          lab8.js:27
▼ (7) [10, 9, 2, 4, 6.48074069840786, 12, 100] ⓘ
    0: 10
    1: 9
    2: 2
    3: 4
    4: 6.48074069840786
    5: 12
    6: 100
    length: 7
    ► [[Prototype]]: Array(0)
```

Task 3: Create a JavaScript file

```
index.html x JS lab8.js x
lab8 > js > JS lab8.js > ...

1  /*
2  * Author: Yifeng Huang
3  * Created: 5/3/24
4  * License: Public Domain
5  */
6
7  function isEven (x){
8  |   return (x % 2 == 0)
9  | }
10
11 //test function
12 console.log ("Is 1 even?", isEven(1));
13 console.log ("Is 2 even?", isEven(2));
14
15 var array = [100, 81, 4, 16, 42, 144, 10000]
16 console.log("My array:", array);
17
18 var result=array.map(isEven);
19 // should return [true, false, true, true,true ,true,true]
20 console.log("test of evenness of array:", result);
21
22 var result = array.map(function(x){
23 |   return x ** .5;
24 | });
25
26 //should return [10 ,9 ,2 ,4]
27 console.log("Squareroot of array:", result);
```

Task 4: Debug, Upload, and Test

Lab 8: Anon Functions and Callbacks

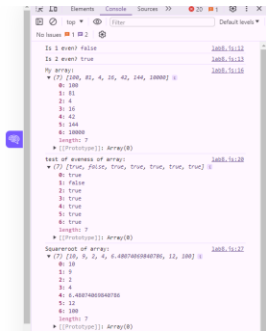
experimenting anonymous functions and Callbacks

Challenges

Hevin to experiment this new functions

Results

See console's outputs



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 anon functions and callbacks allows me to play around more with my console area in this assignment. I almost got lost only because I have to evaluate both scripts to make sure they were both free of errors.						