

Lab 5: Data Types & Variables

ART-101-01

Manuel S Marshutz & Stephen Francoeur

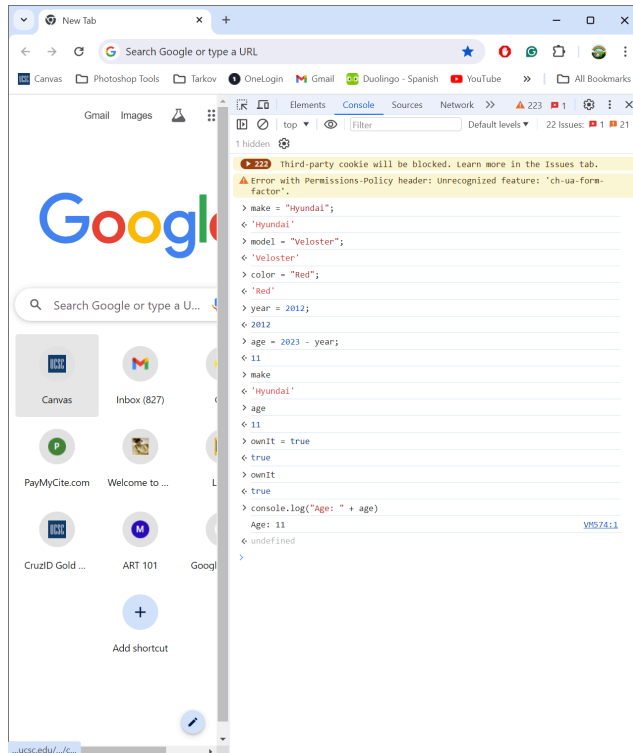
25 April 2024

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Summary: Lab 5: Data Types & Variables

Data Types & Variables instructed us to take a step further and go from pseudocoding to actually developing a list with JavaScript. Following Modes' example, we decided to add our "**Mode**" of transportation (don't fail us for the pun) by defining variables, adding calculations, and producing an output that combined the recently learned data types. The images (screenshots) below will highlight the process we underwent to develop a webpage that embodied the learning goals of this lab.

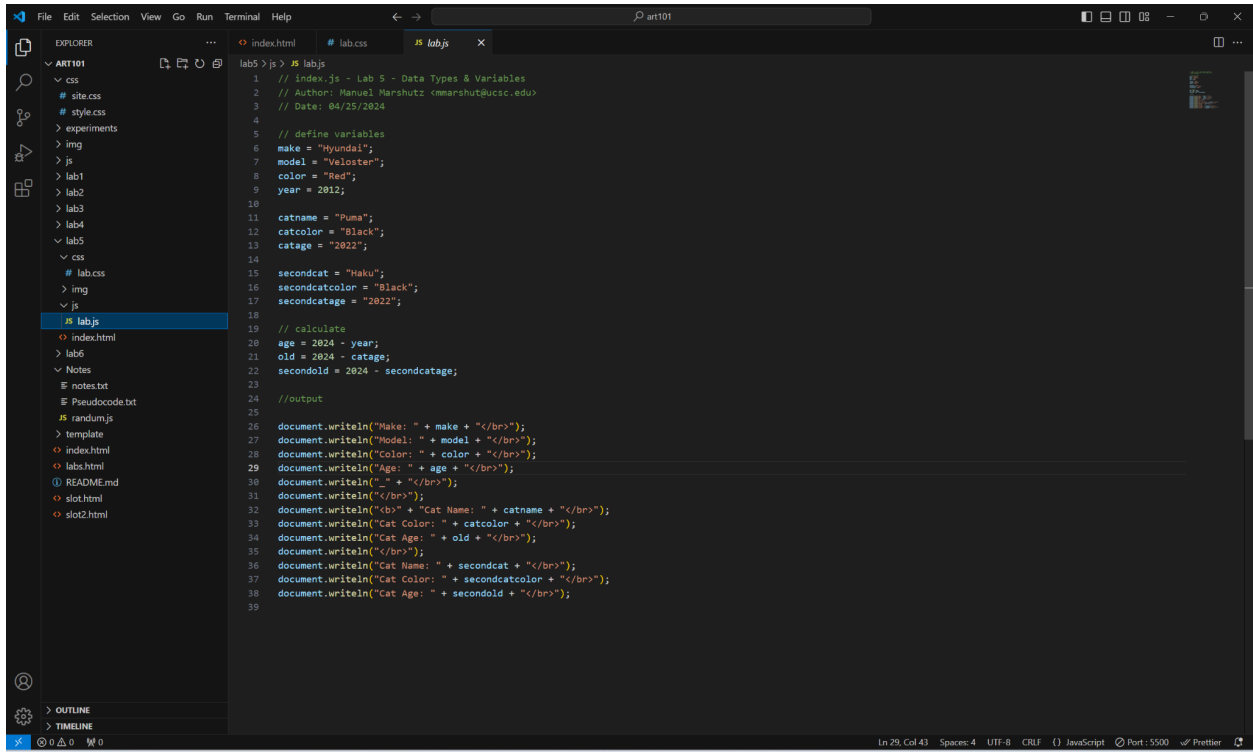
Task 1: JavaScript Variables (Manuel S Marshutz)



Task 1: JavaScript Variables (Stephen Francoeur)

```
> const car = {  
  make: "Lexus",  
  model: "GS 350",  
  color: "Silver",  
  year: "2013",  
  ownIt: false  
};  
⏪ undefined  
> car  
⏪ {make: 'Lexus', model: 'GS 350', color: 'Silver', year: '2013', ownIt: false}  
> console.log("Age: " + (2024-car.year));  
Age: 11 VM683:1  
⏪ undefined  
> |
```

Task 2: A JavaScript Program (Manuel S Marshutz)

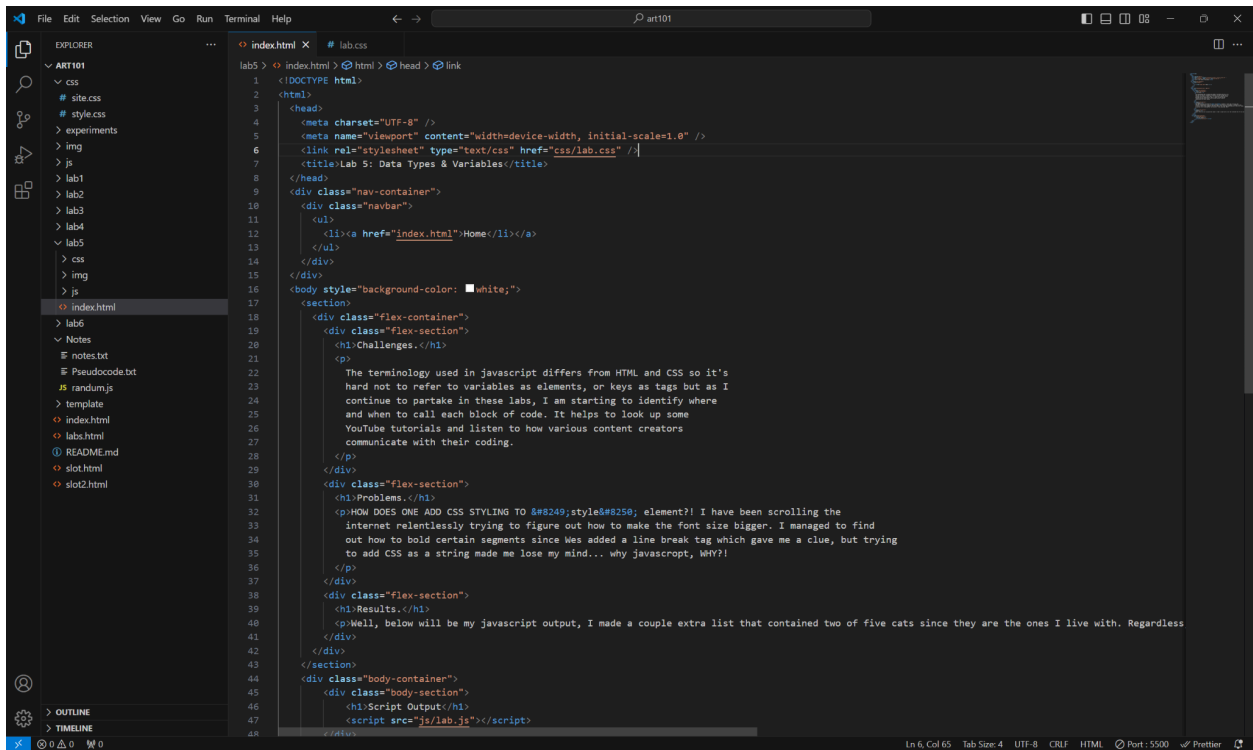


```
1 // index.js - Lab 5 - Data Types & Variables
2 // Author: Manuel Marshutz <mmarshut@ucsc.edu>
3 // Date: 04/25/2024
4
5 // define variables
6 make = "Hyundai";
7 model = "Veloster";
8 color = "Red";
9 year = 2012;
10
11 catname = "Puma";
12 catcolor = "Black";
13 catage = "2021";
14
15 secondcat = "Haku";
16 secondcatcolor = "Black";
17 secondcatage = "2022";
18
19 // calculate
20 age = 2024 - year;
21 old = 2024 - catage;
22 secondold = 2024 - secondcatage;
23
24 //output
25
26 document.writeln("Make: " + make + "<br>");
27 document.writeln("Model: " + model + "<br>");
28 document.writeln("Color: " + color + "<br>");
29 document.writeln("Age: " + age + "<br>");
30 document.writeln(" " + "<br>");
31 document.writeln("<br>");
32 document.writeln("Cat Name: " + catname + "<br>");
33 document.writeln("Cat Color: " + catcolor + "<br>");
34 document.writeln("Cat Age: " + old + "<br>");
35 document.writeln("<br>");
36 document.writeln("Cat Name: " + secondcat + "<br>");
37 document.writeln("Cat Color: " + secondcatcolor + "<br>");
38 document.writeln("Cat Age: " + secondold + "<br>");
39
```

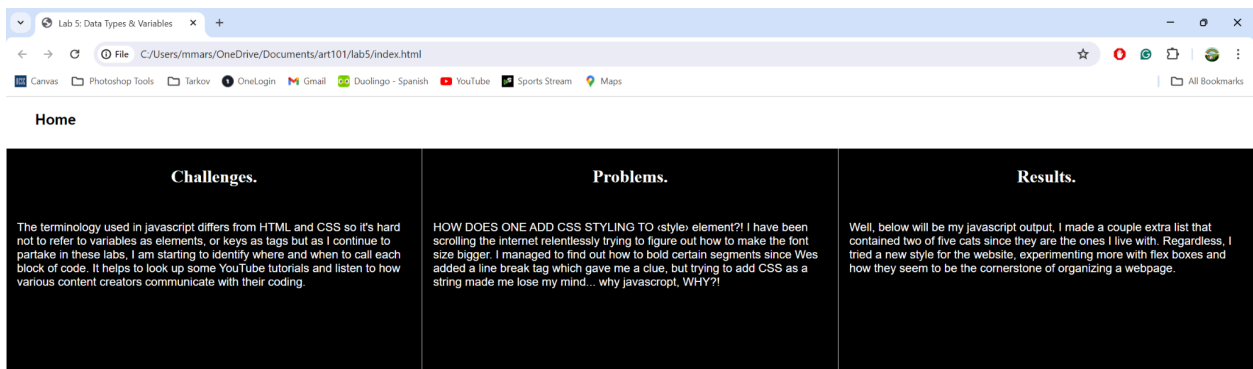
Task 2: A JavaScript Program (Stephen Francoeur)

```
1  // index.js - Lab 5:Data Types & Variables
2  // Author: Stephen Francoeur
3  // Date: 25 April
4
5  // Constants
6
7  // Functions
8
9  make = "Lexus";
10 model = "GS 350";
11 color = "Silver";
12 year = 2013;
13
14 age = 2024 - year;
15
16 document.writeln("Make: " + make + "<br>");
17 document.writeln("Model: " + model + "<br>");
18 document.writeln("Color:" + color + "<br>");
19 document.writeln("Year:" + year + "<br>");
20 document.writeln("Age: " + age + " years <br>");
21
22
23
24
```

Task 3: Create an index.html for Lab 5 (Manuel S Marshutz)



```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="UTF-8" />
5     <meta name="viewport" content="width=device-width, initial-scale=1.0" />
6     <link rel="stylesheet" type="text/css" href="css/lab.css" />
7     <title>Lab 5: Data Types & Variables</title>
8   </head>
9   <div class="nav-container">
10    <div class="navbar">
11      <ul>
12        <li><a href="index.html">Home</li></a>
13      </ul>
14    </div>
15  </div>
16  <body style="background-color: #white;">
17    <section>
18      <div class="flex-container">
19        <div class="flex-section">
20          <h1>Challenges.</h1>
21          <p>
22            The terminology used in javascript differs from HTML and CSS so it's
23            hard not to refer to variables as elements, or keys as tags but as I
24            continue to partake in these labs, I am starting to identify where
25            and when to call each block of code. It helps to look up some
26            YouTube tutorials and listen to how various content creators
27            communicate with their coding.
28          </p>
29        </div>
30        <div class="flex-section">
31          <h1>Problems.</h1>
32          <p>HOW DOES ONE ADD CSS STYLING TO <style> element?! I have been scrolling the
33            internet relentlessly trying to figure out how to make the font size bigger. I managed to find
34            out how to bold certain segments since Wes added a line break tag which gave me a clue, but trying
35            to add CSS as a string made me lose my mind... why javascript, WHY?!
36          </p>
37        </div>
38        <div class="flex-section">
39          <h1>Results.</h1>
40          <p>Well, below will be my javascript output, I made a couple extra list that contained two of five cats since they are the ones I live with. Regardless
41          </p>
42        </div>
43      </section>
44      <div class="body-container">
45        <div class="body-section">
46          <h1>Script Output</h1>
47          <script src="js/lab.js"></script>
48        </div>
49      </div>
50    </body>
51  </html>
```



Script Output

Make: Hyundai
Model: Veloster
Color: Red
Age: 12

Cat Name: Puma
Cat Color: Black
Cat Age: 2

Cat Name: Haku
Cat Color: Black
Cat Age: 2

Task 3: Create an index.html for Lab 5 (Stephen Francoeur)

```
<h1>Lab 5 - Data Types and Variables</h1>
<div class="minor-section">
  <h2>Challenge</h2>
  <p>To create an object in javascript sharing the properties of our cars in real life.</p>
</div>

<div class="minor-section">
  <h2>Problems</h2>
  <p>I didn't have too many issues I had some confusion as to why my object wasn't working in the console at first but quickly found out it was because I'd left out the comas be
</div>

<div class="minor-section">
  <h2>Reflection</h2>
  <p>I enjoyed the assignment it went pretty smoothly I enjoy most object oriented programming. I put in a decent amount and experimented with the syntax a little bit. </p>
</div>

<div class="minor-section">
  <h2>Results</h2><br>
  
  <p>Below you'll see my javascript file's output.</p>
  <h2>Script Output</h2>
  <script src="js/lab.js"></script>
</div>
</section>
<nav id="links">
  <li><a href="...">Homepage</a></li>
  <li><a href="...">Lab 2: My First HTML</a></li>
  <li><a href="...">Lab 3: File Structures</a></li>
  <li><a href="...">Lab 4: File Transfer</a></li>
  <li><a href="...">Lab 5: Data Types & Variables</a></li>
  <li><a href="...">Lab 6: </a></li>
</nav>
</main>
</body>
</html>
```

Problems

I didn't have too many issues I had some confusion as to why my object wasn't working in the console at first but quickly found out it was because I'd left out the comas between the keys.

Reflection

I enjoyed the assignment it went pretty smoothly I enjoy most object oriented programming. I put in a decent amount and experimented with the syntax a little bit.

Results

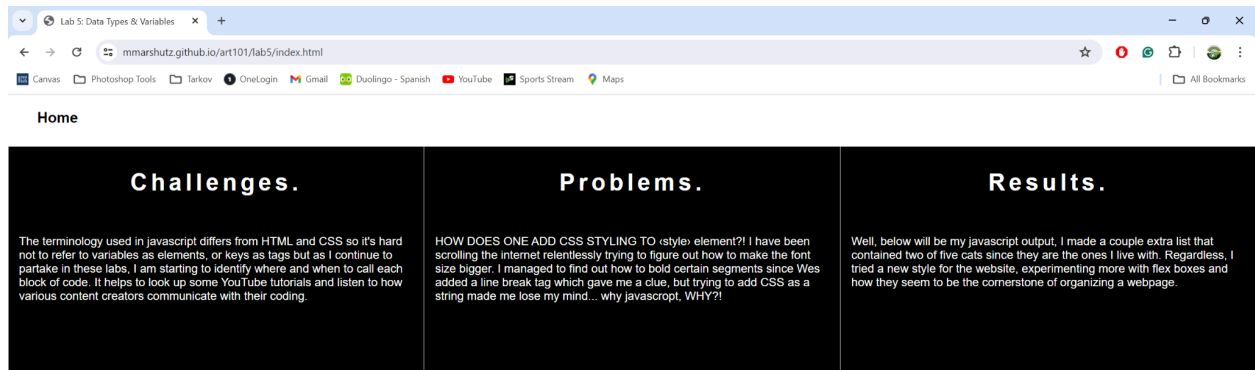


Below you'll see my javascript file's output.

Script Output

Make: Lexus
Model: GS 350
Color: Silver
Year: 2013
Age: 11 years

Task 4: Debug, Upload, Test (Manuel S Marshutz, <https://mmarshutz.github.io/art101/lab5/index.html>)



Script Output

```
Make: Hyundai  
Model: Veloster  
Color: Red  
Age: 12  
-  
Cat Name: Puma  
Cat Color: Black  
Cat Age: 2  
  
Cat Name: Haku  
Cat Color: Black  
Cat Age: 2
```

Task 4: Debug, Upload, Test (Stephen Francoeur)

Problems

I didn't have too many issues I had some confusion as to why my object wasn't working in the console at first but quickly found out it was because I'd left out the commas between the keys.

Reflection

I enjoyed the assignment it went pretty smoothly I enjoy most object oriented programming. I put in a decent amount and experimented with the syntax a little bit.

Results



Below you'll see my javascript file's output.

Script Output

Make: Lexus
Model: GS 350
Color: Silver
Year: 2013
Age: 11 years

[Lab 5 - Data Types & Variables \(xenocerin.github.io\)](https://xenocerin.github.io)

Self Evaluation (Manuel S Marshutz & Stephen Francoeur)

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	4 days late or more	Do you need to clarify? Submitted 04/25/2024
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Did you collaborate with a partner?	Worked with partner			Worked alone		Do you need to clarify? Completed.
	<input checked="" type="checkbox"/>			<input 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? Yes, we made sure to highlight our goals and completion of the assignment
	<input checked="" type="checkbox"/>	<input 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? Complete with style & accuracy!
	<input checked="" type="checkbox"/>	<input 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? Solid webpage and experimenting with learning material!
	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Summary of your evaluation/efforts: We wanted a simple, straightforward design that didn't take away from the primary aspect of this assignment which meant we wanted to present our JavaScript with pride! While the terminology can be confusing at times, we managed to capture the essence of this assignment with accuracy & a sense of exploration. Once again, no task X bonus. However, we consulted with Wes Bot which declared that if we made Wes laugh, we get a point. See proof below...						

Wes Bot Proof:

