

# Lab 6

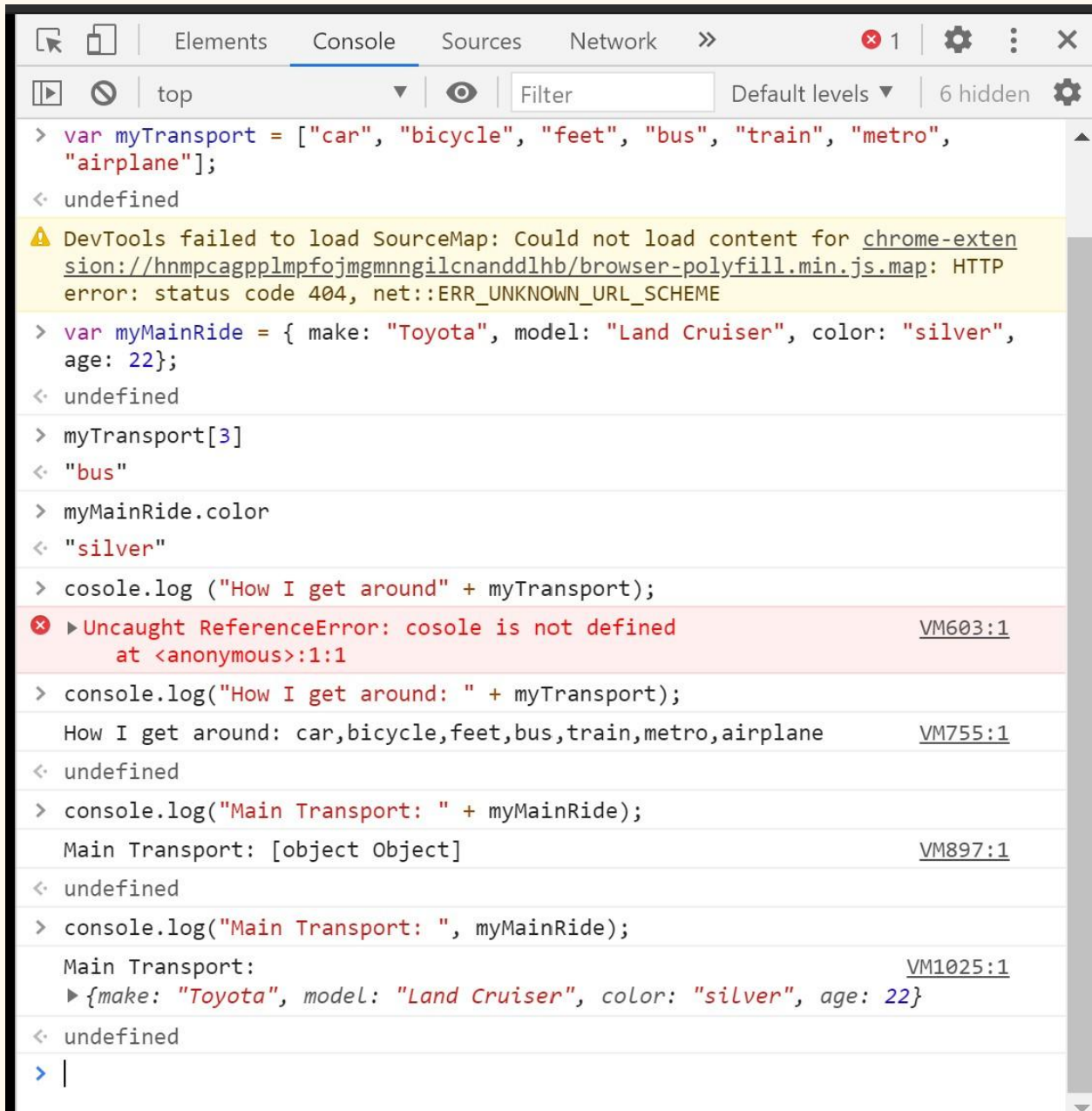
# Arrays and Objects

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The screenshot shows the Canvas LMS interface for a course titled "ART-101-01". The left sidebar contains navigation links: Account, Dashboard, Courses, Groups, Calendar, Inbox, History, Help, Google Drive, Chat, and Collaborations. The main content area is titled "Lab 6: Arrays and Objects" and includes a "Submit Assignment" button. Below the title, there is a table with columns: Due, Points, Submitting, File Types, and a file upload button. The table shows a due date of Tuesday by 8:50am, 10 points, and a file upload button. Below the table, there is a "Big Idea" section with the text "Working with your partner, experiment with JavaScript arrays and objects." followed by "Task 1: JavaScript Arrays and Objects". Task 1 includes a list of 6 steps: 1. Open the JavaScript console in your browser. 2. Declare an array **myTransport** that lists all of the forms of transportation you use to get around. 3. Declare an object **myMainRide** that collects all the data you specified for your primary vehicle in Lab 5. 4. Reference the elements of **myTransport** and see the results, example **myTransport[1]**. 5. Reference the elements of **myMainRide** and see the results, example **myMainRide.make**. 6. Use **console.log()** to neatly print the both **myTransport** and **myMainRide**, example, **console.log("My Wheels: " + myTransport);**. Below the list, there is a text input field with the placeholder "Take a screenshot of your console." and a button "insert image here". Task 2 is titled "Task 2: A JavaScript Program" and includes a list of 7 steps: 1. Put a **comment block** at the top of your program. 2. Declare all the variables you created in Task 1 in this JavaScript file. 3. Make it neat using lots of whitespace. 4. Style in programming matters, so use indentations and spaces where necessary. 5. Remember to put a semicolon at the end of every line. 6. Use **document.writeln()** to neatly output **myTransport**, example, **document.writeln("Getting around: " + myTransport + "<br>");**. 7. Objects don't print as easily. Try the following to print out **myMainRide**:  

```
document.writeln("My Main Ride: <pre>",
    JSON.stringify(myMainRide, null, '\t'), "</pre>");
```

## Task 1: JavaScript Arrays and Objects (in the console)



The screenshot shows the Chrome DevTools Console with the following content:

```
> var myTransport = ["car", "bicycle", "feet", "bus", "train", "metro",  
  "airplane"];  
< undefined  
⚠ DevTools failed to load SourceMap: Could not load content for chrome-extension://hnmpcagppplmpfojmgmnngilcnanddlhb/browser-polyfill.min.js.map: HTTP  
  error: status code 404, net::ERR_UNKNOWN_URL_SCHEME  
> var myMainRide = { make: "Toyota", model: "Land Cruiser", color: "silver",  
  age: 22};  
< undefined  
> myTransport[3]  
< "bus"  
> myMainRide.color  
< "silver"  
> cosole.log ("How I get around" + myTransport);  
✖ ▶ Uncaught ReferenceError: cosole is not defined VM603:1  
  at <anonymous>:1:1  
> console.log("How I get around: " + myTransport);  
  How I get around: car,bicycle,feet,bus,train,metro,airplane VM755:1  
< undefined  
> console.log("Main Transport: " + myMainRide);  
  Main Transport: [object Object] VM897:1  
< undefined  
> console.log("Main Transport: ", myMainRide);  
  Main Transport: VM1025:1  
    ▶ {make: "Toyota", model: "Land Cruiser", color: "silver", age: 22}  
< undefined  
> |
```

*(Our JavaScript in the console.)*

## Task 2: A JavaScript Program

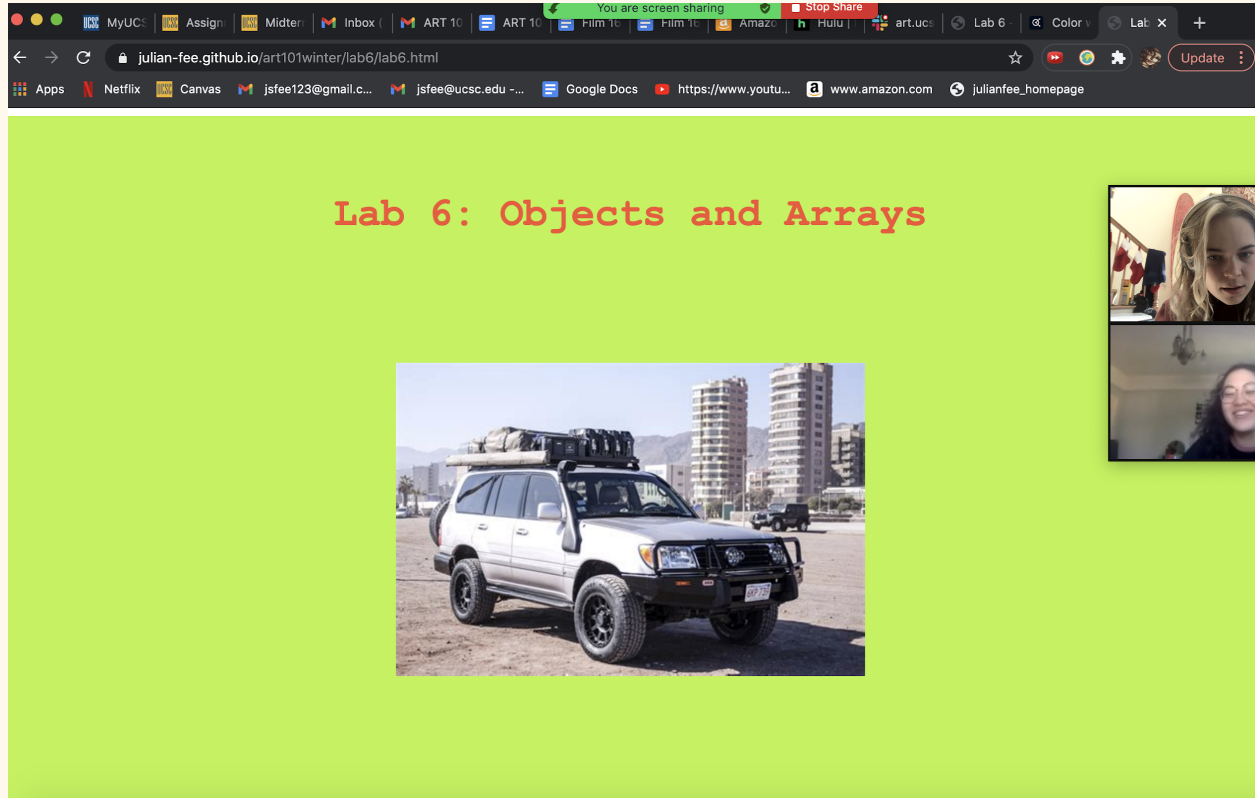
```
1  /*
2   * Author: Becky Phillips, Matila Krulder, Julian Fee
3   * Created: 2 February 2021
4   * License: Public Domain
5   */
6
7
8  //Define Array//
9  var myTransport = ["car", "bicycle", "feet", "bus", "train", "metro", "airplane"];
10
11 //Define Object//
12 var myMainRide = {
13   make: "Toyota",
14   model: "Land Cruiser",
15   color: "silver",
16   age: function() {
17     return 1999 - age;
18   }
19 };
20
21
22 //output
23 document.writeln("How I Get Around: " + myTransport + "<br>");
24
25 document.writeln("Main Transport: <pre>",
26   JSON.stringify(myMainRide, null, '\t'), "</pre>");
```

*(Our JavaScript in Atom.)*

## Task 3: Create an index.html for Lab 6

*Link to published Lab 6 webpage:*

<https://julian-fee.github.io/art101winter/lab6/lab6.html>



*(Published Lab 6 webpage.)*

## Summary of Efforts:

We met two different times to work on this lab, first doing the coding in JavaScript and writing in HTML, and then again to finish up the CSS design. We ran into a few problems in the console using “console.log,” but were able to figure out that it was due to spacing and “+” versus a comma. We thought that this lab was fairly simple and easy to accomplish, and it was good practice in learning to code arrays and objects. As a group of three, we worked together well to get the lab done.