

# COLOR INTERACTIVITY INSTRUCTIONS

### 1: Preparatory Remarks:

- Make a new directory in your class projects directory for this homework assignment.
- Download the starting template code (Color Interactivity) from the session resources. This template picks up where the last homework assignment left off or continue to build on your assignment from last session.

### 2: Assignment

1. If you are starting from your last assignment, remove the pictures from the aside panel. Otherwise, if you are using the starter code, it's already been removed!
2. Define a function in your main.jsfile, and name it "hslString". Define it to take 3 arguments, and use the arguments in the function to construct the hsl string we use to style colors. Have your function return the string you create. (Test the function by calling it and printing the string that the function returns out to the console).
3. Add 3 sliders to the "aside" panel, one for each of hue, saturation, and lightness (setting their minimum and maximum to cover the whole range of possible h,s, and l values appropriately). To do this, create variables for them and get them from the DOM using the id's you gave them in the html document.
4. Update the background color of the article element when any of the sliders change with the hsl string you get from your function. Note: you can access all of the slider values from inside each one of their callback functions.
5. Add one more slider for opacity. Make sure the opacity changes smoothly as you move the slider.
6. Using the code for this week's video lectures, listen for mouse events (mousedown, mouseup) on the 'article' panel. Make the article completely opaque while the mouse is down, and set it back to the opacity slider setting when the mouse is up.
7. Label each of the sliders using text elements on the html page. Give these text element a class so you can set their font parameters in CSS to a size that looks nice on the webpage.
8. Use line breaks between each of your sliders.

### 3: Submission Instructions

Submit a zipped folder containing the following items:

- 1 .html file (index.html)
- 1 .css file (appstyle.css in a subdirectory called 'css')
- 2 JavaScript files in separate subdirectories
  - 1 File Called 'main.js in a subdirectory called 'appscripts'
  - 1 library file 'require.js' in a subdirectory called 'jslibs'