

# Core Lab Interaction

## Homework 2

### Generative Color Palette

Use a while loop to create divs and style each with a random **background-color**.

### Requirements

- Every HTML element should be generated using Javascript.
- The div's background color should be **Hue/Saturation/Lightness** (see link for examples) the color parameters should be randomized using `Math.random()`.
- The number of color bars on the page should be random too.

### Helpful info

- Use flexbox rows or columns for easy div layout.
- When you build a long string containing multiple string appends, it's helpful to write out the entire string first: `"hsl(250, 100%, 50%)"` then go back and replace a number with:
  - 1. Quotes to close off the string
  - 2. Plus signs on either side of a variable name
  - Resulting in `"hsl("+hue+", 100%, 50%)"`
- `Math.random` generates floating point (decimal) numbers. HSL is expecting a whole number integer between 0-360 (first number) or between 0-100 (second and third numbers). To convert a decimal number between 0-1 to an integer between 0-100 or 0-360:
  - 1. Multiply it by the max (100 or 360)
  - 2. Wrap it in a `Math.floor`
  - Resulting in `Math.floor(Math.random()*100)`

