

ECA  
CHECK-IN



# Welcome to Hack Club!

**Lab Day:** Improve on past workshops

10/18/2021



BENEFITS

# Lab Day



# Objective

- Make something original!!!
- Improve on our previous workshops
  - Personal Website (Intro to HTML)
  - Splatter Paint
  - Cookie Clicker
  - Speak Colors
  - Painting App

# What have we learned so far?

- Basic HTML/CSS
- Basic JS
- How to draw on a canvas (p5.js)
- Voice Recognition (p5.js)

# Resources

- <https://dev.workshops.pages.dev/>
- <https://www.w3schools.com/tags/default.asp>
- <https://www.w3schools.com/cssref/default.asp>
- <https://p5js.org/reference/>
- <https://idmnyu.github.io/p5.js-speech/#reference>

# Hacking time



# Possible Ideas?

If you don't have a good idea right now, how about trying to improve an existing project?

<u>Personal Website</u>	<u>Splatter Paint</u>	<u>Cookie Clicker</u>	<u>Speak Color</u>	<u>Painting App</u>
CSS formatting for images	Circle distance/shape	Cookie Image	Shapes	Buttons that change the color
Add multiple Pages	Circle/Background color	Buy a grandma!	Two word colors	Slider to change stroke width
Create a Navbar	Add sound?	Selling cursors	On/Off	Clear Button + Save Button

# Possible Improvements (Personal Website)

## CSS Formatting for Images

Use various CSS properties to position images next to text, and where you want it!

## Add multiple Pages

Create other html files to add pages to your website such as about.html

## Create a Navbar

Use the href attribute on anchor tags and set it to the page you want to redirect to (Ex. href = `"/about.html"`)



# Possible Improvements (Splatter Paint)

## Circle distance/shape

Randomize the distance between circles or the circle color!

## Circle color/background color

Add some more randomness to color - maybe have a changing gradient to the background color?

## Add sound?

Try using the [Tone.js](#) library to play synth sounds!

# Possible Improvements (Cookie Clicker)

## Selling cursors

Add the feature to sell cursors for cookies in return.

## Buy a grandma!

Add grandmas to the shop, makes cookies faster than cursors.

## Cookie Image

Replace the “click” button with an image of a cookie/

# Possible Improvements (Speak Colors)

## Shapes

Add a feature that draws a shape when you say the shape name. <https://p5js.org/reference/> will help.

## Two word colors

The script only recognizes the last word. Make an improvement so that it can recognize multi-word colors (like "SteelBlue") and display them correctly

## On/Off

Make a switch that turns the recognition on or off. <https://idmnyu.github.io/p5.js-speech/#reference> will help.

# Possible Improvements (Painting App)

## Buttons that change the color

Add multiple buttons and inside of the JS change the `strokestyle` to "black"

## Slider to change stroke width

Create a slider using the input tag and have the js set `context.lineWidth` whenever it changes

## Clear Button + Save Button

Create buttons and inside of the js have it clear the canvas.