P5 - Unit One - Lesson 5 - Shape Layering With Color

Patti, Jerusha, Saranii

Vocabulary

Function
parameter
argument
canvas
JavaScript
Pixels
Hue
Saturation
Brightness
Transparency
Alpha
RGB

Warm Up: Think/Write/Pair/Share

 How does the program run in P5 in order for the sketch to print effectively.

Connection:

We have been working in the P5 editor with JavaScript learning different shapes and grayscale colors. We are now going to learn about the different methods of layering shapes and filling them in with color.

Mini Lesson: **How do we create shapes that can be layered in P5 and filled in with color the way we want them to be filled in?**

Remember, in the set up function, we are setting up the background and then in the draw function we are telling P5 what we want it to draw and it is technically constantly looping drawing in the background. With this in mind, how do you think this might affect what you are drawing?

Try This:

Open a P5 editor and try drawing an ellipse with the following arguments first ellipse(0, 0, 50, 50); and then draw an ellipse with the arguments(0, 0, 100, 100); and ask them to describe what happens with the two shapes. Then have them reverse the order in which they draw the shapes. What happens now? Why? Now draw a face with two eyes (round or square), a nose (triangle) and a mouth (a line or an arc) using the reference guide if needed. Use comments for each shape like the sample model to help with drawing, layering and filling in with color. Remember, color must come before the shape and each shape must have the color you want it to have or else it will take on the previous color. If you want stroke, you must write stroke() and if you don't want stroke then you write noStroke() & if you don't want color, you use noFill(). Be creative: Add ears, hair, neck, whatever you can. See Example:
https://editor.p5js.org/pelfers-truth/sketches/sw287N7Bf

Quick Check

What did you notice about where I placed the ears in the P5 program?

Work Period

Task: Using the sketch provided with directions, draw the face that you have directions for. If you think you can change some of the shapes, be sure to change the comments to reflect the changes you are making in the sketch. You must have at least 4 different shapes used and 4 different colors. You will turn your work in with your shared link from your P5 sketch and put it in Google Classroom under the appropriate heading for Lesson 5.

Share/Closing:

What did you create? Let's present a few examples. Any volunteers?

Exit Ticket

- Share one new thing that you learned.
- What was challenging? Why?
- What elements would you add to your drawing if you had more time?