1 Lab 3

Goals

The goals for this lab are:

1. More practice creating shapes in Processing (including custom shapes)
2. Understanding colors in Processing
3. Exploring warm and cool colors
4. Explore dark and light colors and spatial ordering
5. Make a picture of a scene with different color schemes

Modality

This is a pair-programming lab - please form teams of two people and trade off typing in commands and giving instructions to they-who-are-typing.

Details

Task: You must create various images using Processing of a scene that explores **warm and cool** color schemes. Your 'sketch' of the scene must:

- include two pairs of shapes (for a total of 4 shapes)
- each pair of shapes should include a larger and smaller version of the shape
- the pairs do not need to be exact copies, but should look similar to simulate depth perception
- one of the shapes in your scene must be a 'custom shape', created using the `vertex` command

- be of size 400 by 400 pixels
- be in color - in fact you must produce *six* total images with different coloring schemes
  - One color image will include all cool colors with darker cool colors in the back
  - One color image will include all cool colors with the lighter cool colors in the front
  - One color image will include all warm colors with darker warm colors in the back
  - One color image will include all warm colors with the lighter warm colors in the front
  - One color image be a mix of cool and warm with cool colors further away
  - One color image be a mix of warm and cool with warm colors further away

Be prepared to talk about which color schemes you like best and why. You are welcome to sketch your scene first to get an idea of layout.

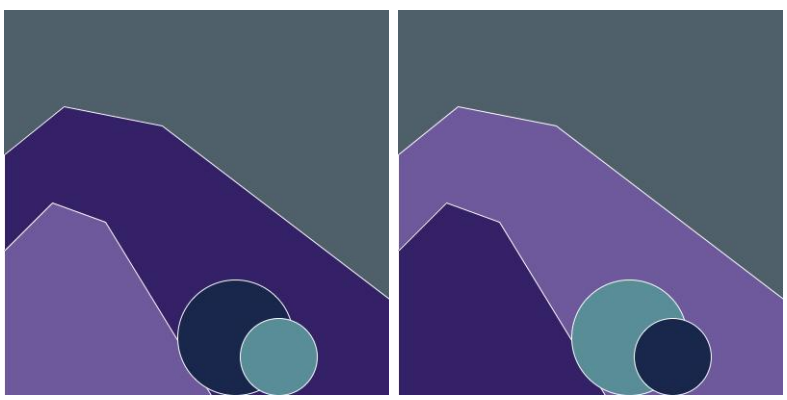

Figure 1: Image with cool colors with darker ones in back (on left. And the same image with cool colors with lighter ones in back (on the right).

Demo:

In order to receive credit for this lab, you and your partner must demo your sketch to your instructor along with handing in the image and sketch of your creature via handin. Ask your instructor for details.

2 Resources

Please use the 'Color Selector' in Processing that can be found under the **Tools** menu.

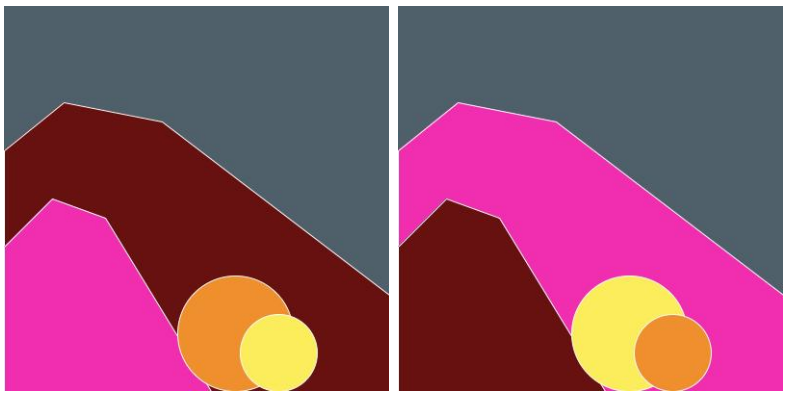

Figure 2: Image with warm colors with darker ones in back(on right). And the same image with warmcolors with darker ones in back.

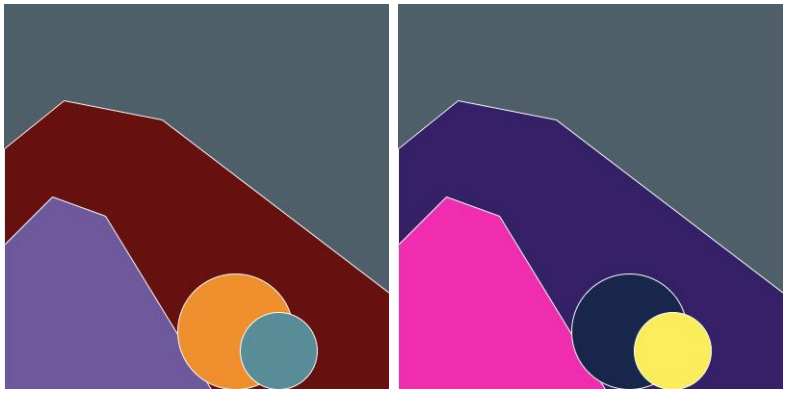

Figure 3: Image with warm and cool colors with cool ones in back. And the same imagewith warm and cool colors with cool ones in back.

To create a custom shape in Processing, you can use:

```
beginShape();
vertex(0, 400);
vertex(0, 15);
vertex(6, 10);
vertex(64, 120);
endShape(CLOSE);
```

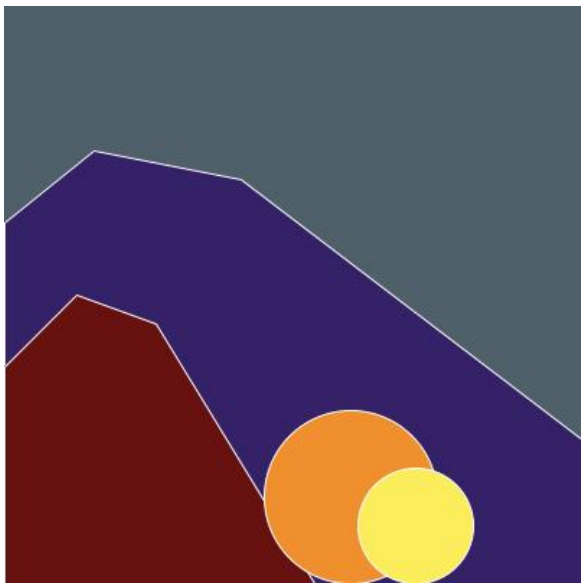

Figure 4: An image of the only combination of these warm and cool colors that I like (mostly all warm in the front with darker in the back).