Team Amalthea
June 27, 2017
Ambient 1
FIRST Team Assignment

Questions:

- What does it mean when the program must “respond to a message”? This part was a bit unclear.
- How is our program? Does it satisfy the requirements?
- Do our tests satisfy the requirements?
- Are our preamble counts correct?

Preamble:

- LOC to-date: 59
- Estimated LOC at completion
  - setup() – 17
  - draw() – 3
  - Brightness_Level() – 2
  - Color_Level() – 2
  - updateImage() – 12
- Total effort to-date – 45 minutes
  - Christie Reindle: 2, 15 minutes
  - Daniel Tan: 1, 15 minutes

Tests:

1. We started the program and adjusted the slider next to the word BRIGHTNESS_LEVEL to the highest number by moving the slider to right which should change photo to a “bright” setting to stop at the number “127.00”. The photo should be highly visible at this point. The visibility of the photo in the top half should be changing to a more visible and lighter background during this adjustment.
   This test had the predicted response to user input.

2. We started the program and adjusted the slider next to the word BRIGHTNESS_LEVEL to lowest number by moving the slider to left which should change photo to a “dark” setting and stop at the number “-128.00”. The photo should not be very visible at this point. The visibility of the photo in the top half should be changing to a less visible and darker background during this adjustment.
   This test had the predicted response to user input.

3. We started the program and adjusted the slider next to the word COLOR_LEVEL to the lowest number by moving slider to left which should change the color in the lower half of the window to Red and stop at the number “0”. This is the original color and value the program began with.
   This test had the predicted response to user input.

4. We started the program and adjusted the slider next to the word COLOR_LEVEL to stop between 17 and 20. The color in the lower half of the window should be a shade of Orange.
   This test had the predicted response to user input.

5. We started the program and adjusted the slider next to the word COLOR_LEVEL to stop between 30 and 40. The color in the lower half of the window should be a shade of Yellow.
   This test had the predicted response to user input.

6. We started the program and adjusted the slider next to the word COLOR_LEVEL to stop between 50 and 90. The color in the lower half of the window should be a shade of Green.
   This test had the predicted response to user input.

7. We started the program and adjusted the slider next to the word COLOR_LEVEL to stop between 120 and 180. The color in the lower half of the window should be a shade of Blue.
   This test had the predicted response to user input.

8. We started the program and adjusted the slider next to the word COLOR_LEVEL to stop between 190 and 200. The color in the lower half of the window should be a shade of Purple.
   This test had the predicted response to user input.

9. We started the program and adjusted the slider next to the word COLOR_LEVEL on slider to highest number by moving slider to right which should change the color in the lower half of the window to Red and stop at the number “255”. While adjusting the slider for the COLOR_LEVEL, the color in the lower half of the window should be changing.
   This test had the predicted response to user input.