CREATIVE CODING FALL 2022 SECTION E

MENU

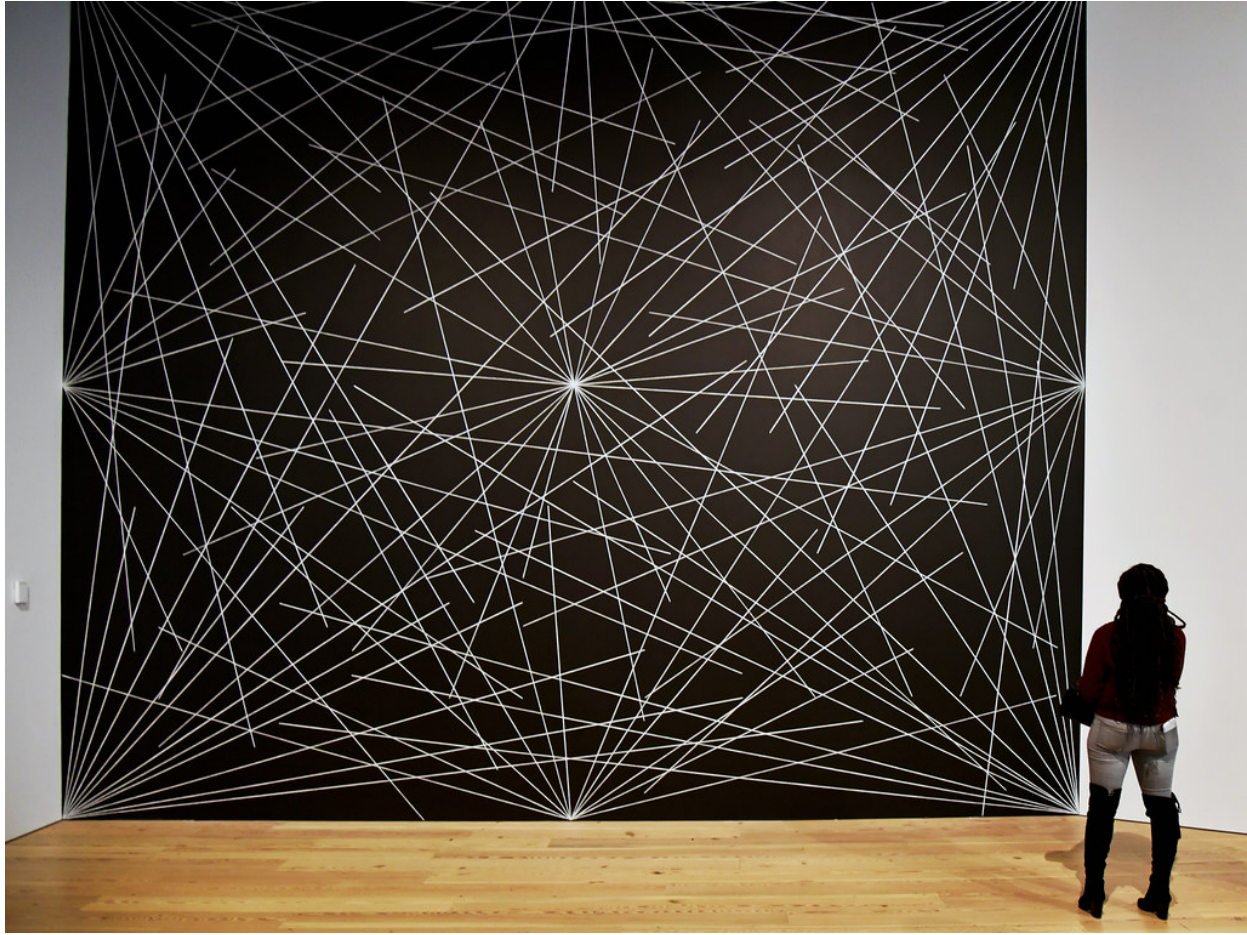# PROJECT 4: REVIEW EXERCISES (10%)

Brief:

From drawing primitives, variables, functions, conditionals, loops, arrays, classes, HTML/CSS/DOM, Data/API to Machine Learning, we've covered a lot in our class so far!

For the next few weeks, you will be implementing a series of exercises to review these concepts in preparation for your final project of the semester!

(30%) Sol LeWitt Wall Drawing : Functions, Loops, Random
– Recreate Sol LeWitt's Wall Drawing 289. 24 lines from the center, 12 lines from the

midpoint of each of the sides, and 12 lines from each corner.

- Create three functions, that uses the count parameter to draw random lines of that given count. (hint: Use loops and random() in these functions)
    – drawCenterLines(count)
    – drawCornerLines(count)
    – drawSideLines(count)
- In your setup(), call these three functions, but set count to be 24 for the centerLines, and 12 for the cornerLines and sideLines.

(30%) 10 Second Timer : Variables, conditional, DOM
– Use variables, round(), millis(), text() to display the remaining time in seconds rounded to two decimal points.
– Use an if statement to determine when the time is up, and display a different text (ex. "time's up!")
– Use a DOM button for resetting the timer

(40%) 100 Interactive Green Faces : Object Oriented Programming + Interactivity

For this exercise, we will add some interactivity to the grid of 100 green faces we made for the second quiz: https://openprocessing.org/sketch/1726521

1) Update the Face class so that when a mouse hovers over it,

   (hint: use dist() to find the distance between the mouse position and the face position)

   a) it wiggles / update the x and y value by some small random value between -1 and 1

   b) the face with the mouse over it changes its faceColor to yellow (when the mouse is not over the face, the face should return to its original color)

2) Update the mouseReleased function so that when a mouse clicks on it,

   a) it plays a sound

   b) it is removed from the list of faces / should not be drawn anymore (hint: use splice())

Due Date: Wednesday, November 23 (11:59pm)

Submission Form: https://forms.gle/ro8jWXyUrbvhjC4c7