CSC 108 Final Project

Choose a topic that we are not covering in class and give a brief (6-8 minute) presentation during our final period, **Wednesday, December 14, 1pm-4pm**. You will need to present Processing code and explain, in detail, how and why it works.

This project is worth 25 points and replaces your lowest quiz or programming assignment grade. If you are in a position where you would benefit more from replacing your lowest lab score, your grade on the final project will be scaled to match whatever your lowest lab was worth. (For example, if you earn a 20/25 [80%] on the final project and want that score to replace Lab 2, which was worth 14 points, your Lab 2 grade would end up being 80% * 14 = 11.2/14.)

You should select a topic that is appropriate for your experience level. You may ask clarifying questions about your topic, but I will not give you a step-by-step, detailed explanation. It is up to you to become well acquainted with it so that you can teach it to your fellow students.

Your presentation should include sample code that you can run and explain.

You must have your topic approved by **Wednesday, December 7**. This is an individual project, and each project must be on a different topic. Topics will be approved on a first-come, first-served basis.

Project Suggestions (you are more than welcome to come up with your own topic idea)

From our course textbook:

Examples 5-8 and 5-9, easing
Examples 6-1 and 6-2, translation
Examples 6-3 and 6-4, rotation
Example 8-6, tweening
Examples 8-12 and 8-13, sine wave values and movement

From *Learning Processing, 2nd Edition* by Daniel Shiffman (available through O'Reilly Learning)

Example 6-3, while loops
Examples 6-4 and 6-5, infinite loops
Example 15-3, my very first image processing filter
Exercises 17-1 and 17-2, printing strings
Example 17-1, simple displaying text

From *Coding Art* by Yu Zhang and Mathias Funk (available through O'Reilly Learning)

Figure 2-3 (3D canvas with directional light)
3.1.1 first two examples (randomly generate dots)

There are many more examples at https://processing.org/examples