

LA478k/578k
Landscape Parametrics & Design Computing
Department of Landscape Architecture
Iowa State University
Instructor: Caroline Westort
Fall, 2015

The URL of the course website, where video results of this assignment may be found:
<http://la478k.weebly.com/fall-2014.html>

Final Project Assignment

Due Monday October XXth before class. Upload your file
YOURLASTNAME_FINALPROJECTDESCRIPTION_1 to Blackboard.

The Final Project will be an individual computer programming project of your choosing that will ask you to apply the concepts you've learned so far in the semester, combining:

- Fundamental computer programming logic
- Basics of computer graphics
- Landscape parametrics

It will be the work asked of you for the remainder of the semester and you will demonstrate the results of your efforts publicly, in an online video demo, and juried review of your work.

The objective of the project is to implement a software programming project in *Processing* that fulfills the following:

1. Defines the geometric parameters of one of the following landscape elements: LANDFORM, WATER, VEGETATION, or WEATHER/ATMOSPHERIC/LIGHTING EFFECTS
2. Performs a set of geometric operations upon your selection.
3. Is interesting, useful, beautiful, and solves a unique problem.
4. Uses and applies the computer programming concepts covered so far in the course (e.g. variables, loops, functions, arrays)

For next Monday, October XXth, express in writing your intentions and submit **a one-page description** of your project, that includes the following:

- Graphics: What do you intend to see on the screen?
- Interactivity: How will you interact with what is on the screen?

- What problem are you solving? Why is this useful, and to whom?

Expect that this first description will evolve, and please keep it current with updates as you get into your project over the coming weeks. The instructor will prompt you for revised draft submissions to Blackboard.

Come to the remaining class times prepared to work on your project during class, with progress to show and problems to discuss in consultation with your instructor and classmates. We will be reviewing your project progress in class intermittently between now and the final review. A test run Interim Review will occur during the week before Thanksgiving. Final review will occur during finals week; location and time to be announced. Twice prior to the final review date you will be asked to upload your video-recorded *Processing* project demo to both YouTube and Blackboard. You may still work on your project after these submission dates, but a draft should be submitted in advance for testing.

Please see the following link for recommended screen recording softwares for Windows:

<http://www.hongkiat.com/blog/win-screen-recording-softwares/>

For Mac users, QuickTime would be the choice for video recording.

Your video should be no more than 3 minutes long, and include the following elements:

- 1) A title page with you name, year, title of project, class number, class title, semester, instructor name
- 2) A demonstration of all elements of what your code can do.
- 3) A brief explanation of your algorithm, and how the code was implemented. You may show snippets of code here.

BE SURE TO ASK ANY and ALL Q's.