

CMPS 5J – Winter 2018
Programming Assignment 1
Due: Monday January 15, 2018

Objective

The objective of the assignment is for you to become familiar with creating programs that are sequences of statements. For this assignment you only need to use function-call statements (e.g. `rect(10,20,100,50);`). You should become familiar with the syntax of function-call statements, and the use of parameters to control what the statement does (e.g. how big should the rectangle be?).

You should also become familiar with using the Processing programming environment to create, save, and run your programs.

Program Specifications

Write a program using Processing that draws a house with lines, rectangles, and ellipses. Resize the sketch to be at least 200x200. Try and be creative, but it need not be overly complex. It should include somewhere between 20 and 50 individual drawing commands (that includes drawing shapes like `rect`, `line`, `ellipse`, and changing colors with `stroke` and `fill`). 20 really is enough if you do something interesting and include clear comments.

Be sure your program contains an opening block comment that includes a description of your program so that a person should be able to know what the program does without running it. Please include your name in the opening comment.

Repeated from course info page:

The programs you submit this quarter should be original programs created just for this class. It is NOT acceptable to submit programs that you (or someone else) has written previously. As indicated above, if you incorporate any portions of programs written by someone else, or by you for a prior course or assignment, then that should be clearly noted in the program via comments.

(<https://users.soe.ucsc.edu/~dustinadams/CMPS5J/ecommons/credit.htm>.)

Getting Started

To run processing on the lab computers, visit this link
<https://users.soe.ucsc.edu/~dustinadams/CMPS5J/ecommons/processing.html>.

What to Turn in

You will be submitting your program source file (.pde) directly in Canvas.

When you have completed your sketch (program):
submit the .pde file as your Canvas submission (here). Submit ONLY the .pde file (e.g. `MySketch.pde`). On your personal computer that file is probably in

Documents/Processing/MySketch. In BE109 it should be in x:Processing/MySketch (follow userName's home directory on the Desktop then Processing).

Grading Rubric

2.0 Did you submit a .pde file?

1.0 Does the program include an opening block comment that includes a description of the program?

1.0 Is the sketch resized to at least 200x200?

2.0 Are there at least 20 lines of code (not including comments) in this program?

1.0 Is the code tidy and well organized?

2.0 Does the sketch run without errors when you click play?

1.0 Is there some form or variation of a house being drawn?