

**CPE 123: Introduction to Computing – Computational Art –  
Fall 2011**

**Program 2 – Self-portrait of social interaction with parametric representation**

**Due date: Thursday October 13<sup>th</sup> by 2:50pm**

**Modality:**

- This is an individual assignment. You need to make your own processing sketch. You may talk to other students and your instructor to see what they are creating and how they did it. As always, you are not allowed to ‘cut and paste’ code from another student or a tutorial in order to complete this assignment, nor can any segment of your code (which generates a visual component) exactly match another student’s code for this assignment.

**Objectives:**

- Create a representational shape using a parametric equation
- Program using a for loop to create the representation
- Program a response to mouse click
- Use variables to control interaction response
- Learn about conditional interactions with the sketch (if/else)
- Practice expressing your aesthetic
- Make a pretty interactive sketch

**Requirements:**

For this assignment you must generate a 450x450 pixel sketch using Processing that is a representation of your personal response to social interaction.

This sketch must include a symbolic representation of your self or emotions that is formed by the use of a parametric equation, for example a circle, a flower, a butterfly, a stop sign, a hedgehog, a dandelion, etc – basically any shape you can create from a circular shape or more complex parametric equation. First create your parametric representation. You must use a ‘for loop’ for the drawing of your representational shape.

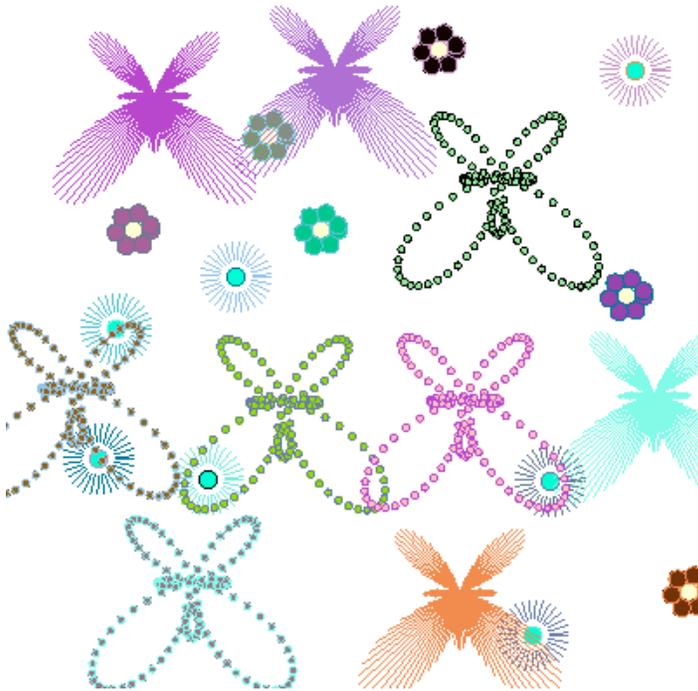
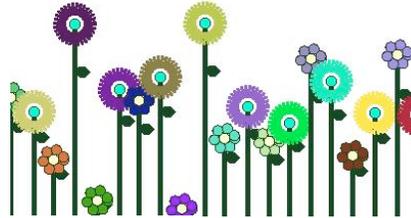
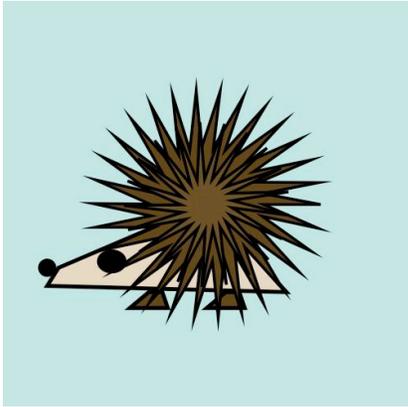
Your sketch must react to a mouse click. Specifically, some clear visual aspects of your sketch must change when the mouse is clicked, e.g. grow, shrink, move, dance, etc. This reaction should be a representation of your response to social interaction and you are invited to interpret it differently (eg more clicks = more interactions). Please see the posted examples:

<http://users.csc.calpoly.edu/~zwood/teaching/csc123/Flowers/>

<http://users.csc.calpoly.edu/~zwood/teaching/csc123/hedgehog/>

You are required to handin your final project and your final sketch code. Be sure that your sketch code has your name as a ‘comment’.

**Examples of shapes you can create using a parametric equation:**



**Useful commands:**

```
mousePressed  
if/else  
for  
random  
mouseX  
mouseY
```