Electrospective: A Collection of New Media Objects

by Christopher Yamane and Miranda Steele

Electrospective is the result of a collaborative independent study in fall 2011 under the guidance of Professor Paul Myoda. In pursuit of a "new media object," the two artists experimented with electronics, algorithmic processes and laser-cutting techniques for works that challenge these new methods of creating art.

This show is partially funded by a grant from the Brown University Creative Arts Council.

Miranda Steele

GALAXY
Lasercut Cardboard, Vellum Paper, LEDs, Arduino Uno
2012

Miranda Steele

PERSPECTIVE BOX
Lasercut Cardboard, Vellum Paper, LEDs, Switch
2011

Miranda Steele

STARGAZING BOXES
Lasercut Cardboard, Peepholes, Spray Paint
2011

The pattern of holes on this piece, as well as on “Galaxy” (installed to the right), was decided algorithmically by a computer program written in the Processing programming language. The viewer is meant to look at the hanging light through the peephole.

```
import processing.pdf.*;

PGraphicsPDF pdf;

/*******
 * Night sky sketch
 * by Miranda Steele for Electrospective
 *******/

 int[] sizes = {5, 7, 10}; // sizes for our 3 circles
 int[] populations = {120, 50, 15}; // number of each circle

 void setup() {
   size(800, 800);
   noLoop();
   beginRecord(PDF, "night_sky_out.pdf"); /* Makes the PDF */
 }

 void draw() {
   /* Stars shouldn't be uniformly random, but should gather into clumps */
   //first clump focus
   for(int i=0; i<sizes.length; i++) {
     for(int n=0; n<populations[i]/3; n++) {
       ellipse(random(500, width), random(500, height), sizes[i], sizes[i]);
     }
   }

   //second focus
     for(int i=0; i<sizes.length; i++) {
     for(int n=0; n<populations[i]/3; n++) {
       ellipse(random(0, 300), random(300, 700), sizes[i], sizes[i]);
     }
   }
    //third focus
     for(int i=0; i<sizes.length; i++) {
     for(int n=0; n<populations[i]/3; n++) {
       ellipse(random(150, 550), random(150, 550), sizes[i], sizes[i]);
     }
   }

    //everywhere
     for(int i=0; i<sizes.length; i++) {
     for(int n=0; n<populations[i]; n++) {
       ellipse(random(0, width), random(0, height), sizes[i], sizes[i]);
     }
   }

   endRecord();
 }
```