ellipseAPP

```
PImage photo;
import processing.serial.*;


String myString = null;
Serial myPort;


int NUM_OF_VALUES = 2; /** YOU MUST CHANGE THIS ACCORDING TO YOUR PROJECT **/
int[] sensorValues; /** this array stores values from Arduino **/


void setup() {
 size(500, 500);
 background(0);
 photo = loadImage("111.gif");
 setupSerial();
}


void draw() {
 updateSerial();
 printArray(sensorValues);
 background(255);
 for(int i=0; i<500; i=i+40){
   for(int j =0 ;j<500; j=j+40){
     rotate(map(sensorValues[0],0,1023,0,1));
     image(photo, i, j);

   }

 }



 //
}



void setupSerial() {
 printArray(Serial.list());
 myPort = new Serial(this, Serial.list()[ 1 ], 9600);
 // WARNING!
 // You will definitely get an error here.
 // Change the PORT_INDEX to 0 and try running it again.
 // And then, check the list of the ports,
 // find the port "/dev/cu.usbmodem----" or "/dev/tty.usbmodem----"
 // and replace PORT_INDEX above with the index number of the port.
```

```
 myPort.clear();
 // Throw out the first reading,
 // in case we started reading in the middle of a string from the sender.
 myString = myPort.readStringUntil( 10 );  // 10 = &apos;\n&apos; Linefeed in ASCII
 myString = null;

 sensorValues = new int[NUM_OF_VALUES];
}



void updateSerial() {
 while (myPort.available() > 0) {
   myString = myPort.readStringUntil( 10 ); // 10 = &apos;\n&apos; Linefeed in ASCII
   if (myString != null) {
     String[] serialInArray = split(trim(myString), ",");
     if (serialInArray.length == NUM_OF_VALUES) {
       for (int i=0; i<serialInArray.length; i++) {
         sensorValues[i] = int(serialInArray[i]);
       }
     }
   }
 }
}
```