

# Processing Community Day 2019

## Brisbane



# Today's schedule

10.00 - 10.30am

Welcome

Introductions and code jam briefing

10.30 - 11.00am

Beginner workshop/Experienced meetup

Choose the group you feel most comfortable in

11.00 - 11.30am

Live stream showcase

Brisbane, Melbourne, and Wellington

11.30 - 1.30pm

Open session

Code jam, beginner assistance, advanced dev planning, share demos, something else?

1.30 - 2.00pm

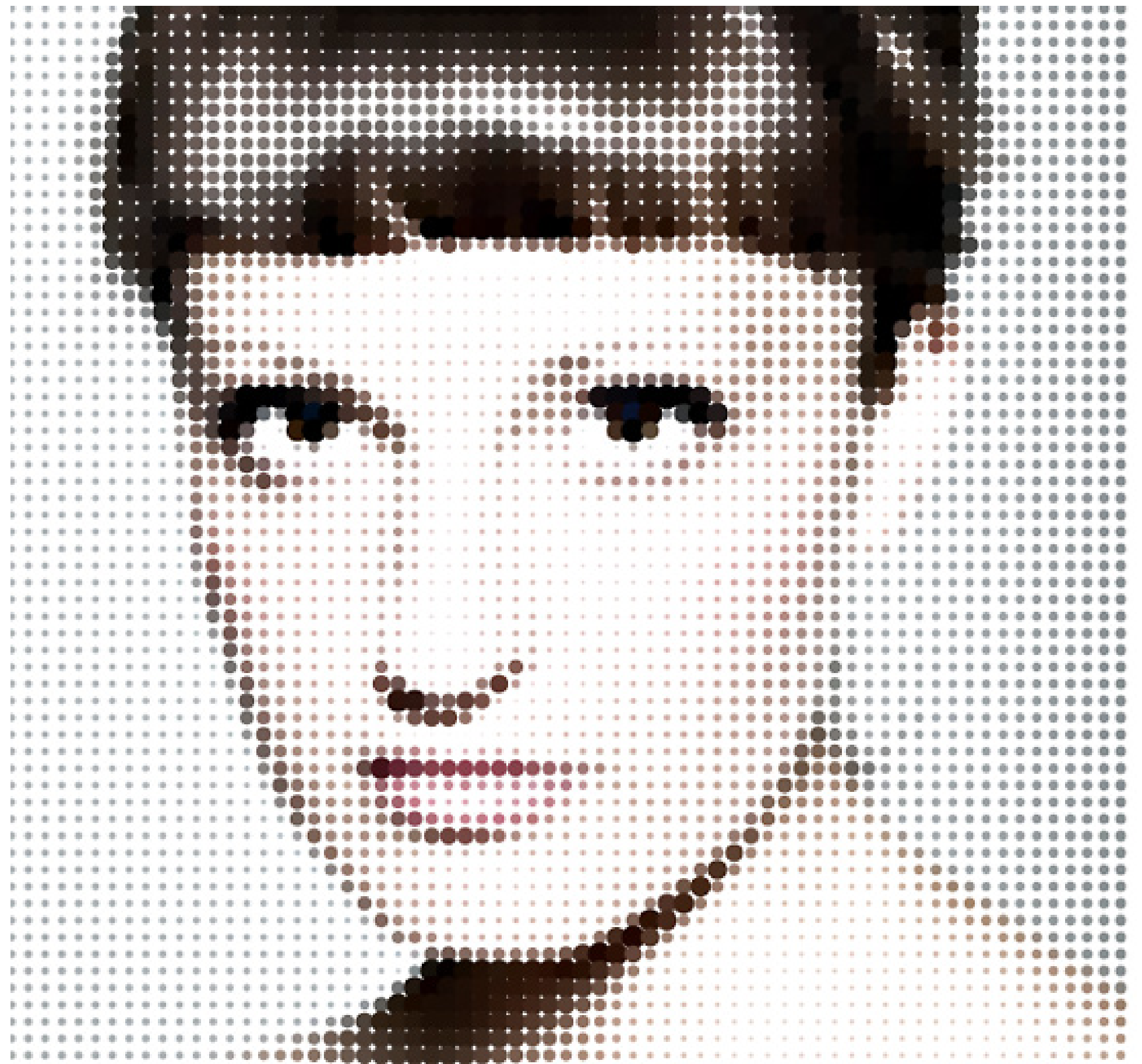
Open mic

The stage is yours to show something you've made

```

49   if (savePDF) beginRecord(PDF, timestamp()+".pdf");
50   background(255);
51
52   float mouseXFactor = map(mouseX, 0,width, 0.05,1);
53   float mouseYFactor = map(mouseY, 0,height, 0.05,1);
54
55   for (int gridX = 0; gridX < img.width; gridX++) {
56     for (int gridY = 0; gridY < img.height; gridY++) {
57       // grid position + tile size
58       float tileWidth = width / (float)img.width;
59       float tileHeight = height / (float)img.height;
60       float posX = tileWidth*gridX;
61       float posY = tileHeight*gridY;
62
63       // get current color
64       color c = img.pixels[gridY*img.width+gridX];
65       // greyscale conversion
66       int greyscale =round(red(c)*0.222+green(c)*0.707+blue(c)*0.071);
67
68       switch(drawMode) {
69         case 1:
70           // greyscale to stroke weight
71           float w1 = map(greyscale, 0,255, 15,0.1);
72           stroke(0);
73           strokeWeight(w1 * mouseXFactor);
74           line(posX, posY, posX+5, posY+5);
75           break;
76         case 2:
77           // greyscale to ellipse area
78           fill(0);
79           noStroke();
80           float r2 = 1.1284 * sqrt(tileWidth*tileWidth*(1-greyscale/255.0));
81           r2 = r2 * mouseXFactor * 3;
82           ellipse(posX, posY, r2, r2);
83           break;
84         case 3:
85           // greyscale to line length
86           float l3 = map(greyscale, 0,255, 30,0.1);
87           l3 = l3 * mouseXFactor;
88           stroke(0);
89           strokeWeight(10 * mouseYFactor);
90           line(posX, posY, posX+l3, posY+l3);
91           break;
92         case 4:
93           // greyscale to rotation, line length and stroke weight
94           stroke(0);

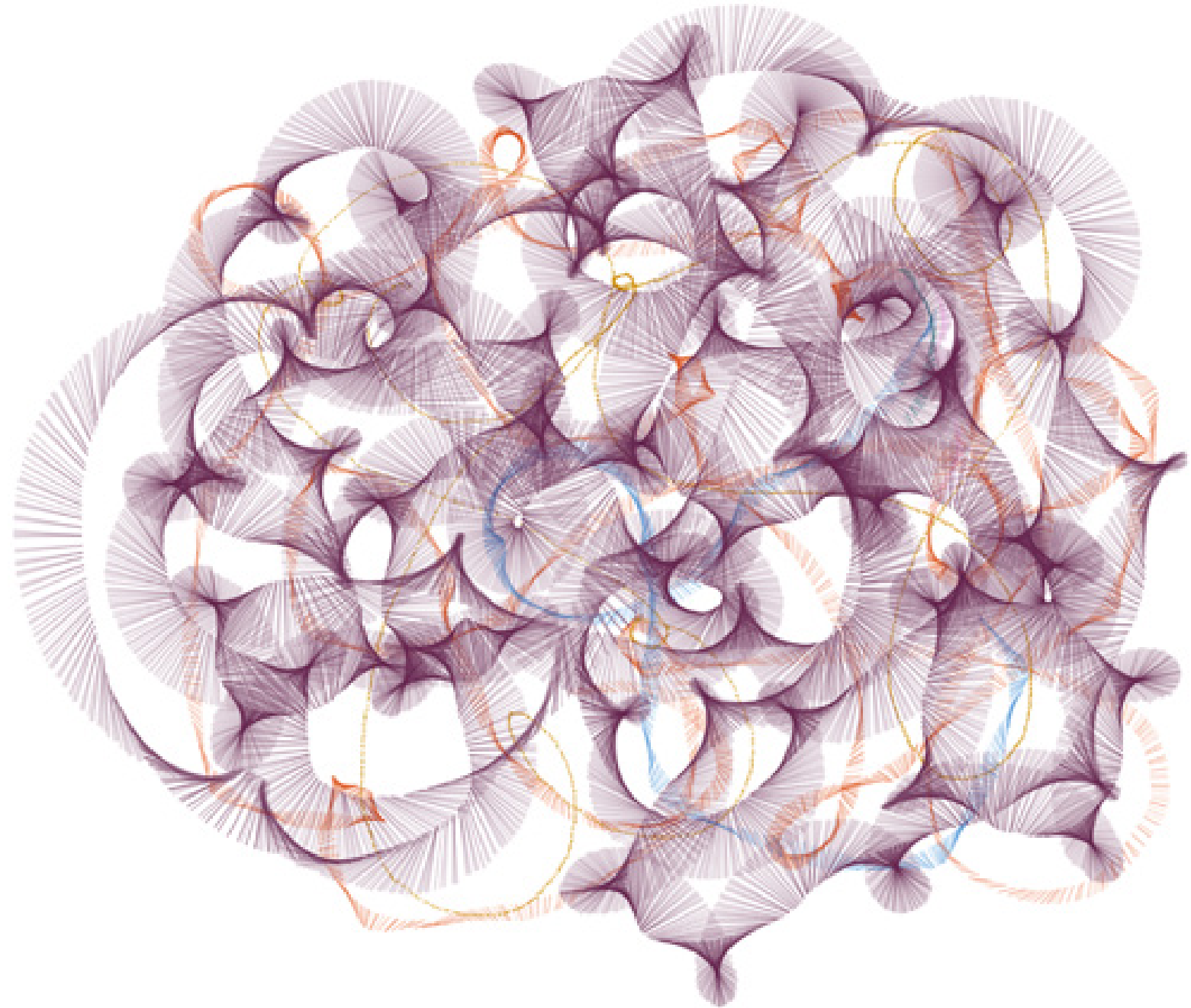
```



```

46 color col = color(181,157,0,100);
47 float lineModuleSize = 0;
48 float angle = 0;
49 float angleSpeed = 1.0;
50 PShape lineModule = null;
51
52 int clickPosX = 0;
53 int clickPosY = 0;
54
55
56 void setup() {
57   // use full screen size
58   size(displayWidth, displayHeight);
59   background(255);
60   smooth();
61   cursor(CROSS);
62 }
63
64 void draw() {
65   if (mousePressed) {
66     int x = mouseX;
67     int y = mouseY;
68     if (keyPressed && keyCode == SHIFT) {
69       if (abs(clickPosX-x) > abs(clickPosY-y)) y = clickPosY;
70       else x = clickPosX;
71     }
72
73     strokeWeight(0.75);
74     noFill();
75     stroke(col);
76     pushMatrix();
77     translate(x, y);
78     rotate(radians(angle));
79     if (lineModule != null) {
80       shape(lineModule, 0, 0, lineModuleSize, lineModuleSize);
81     }
82     else {
83       line(0, 0, lineModuleSize, lineModuleSize);
84     }
85     angle = angle + angleSpeed;
86     popMatrix();
87   }

```







<http://www.sanchtv.com/?p=81>





<http://studioanf.com/v0id-6/>



11:00



12:00



13:00



14:00



15:00



16:00



17:00



18:00



19:00



20:00



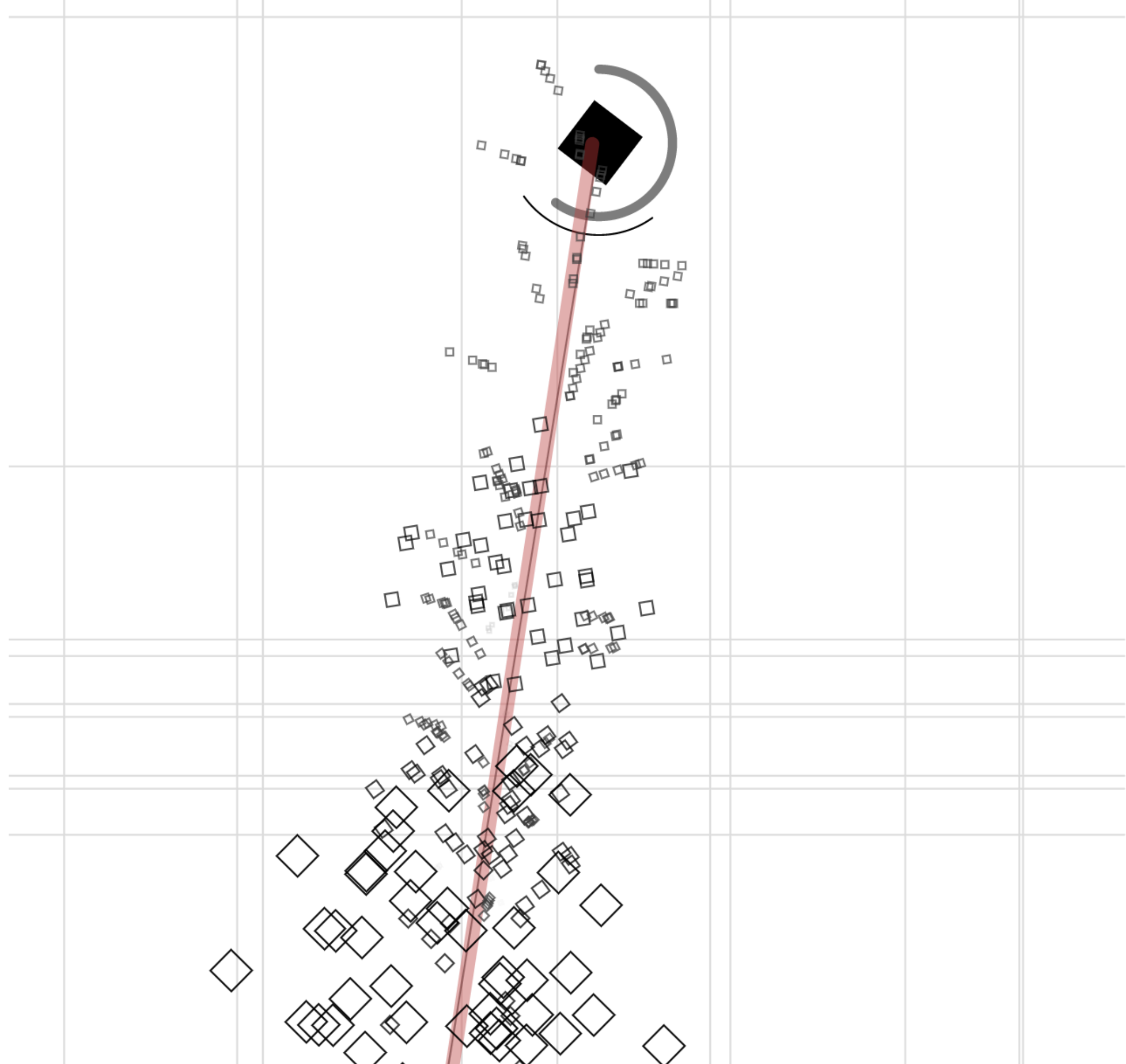
21:00



22:00



<http://truth-and-beauty.net/projects/peakspotting>



<https://www.openprocessing.org/sketch/453716>



# Who are we all?

In only 1-3 words for each of these, tell us:

Your name

Beginner/intermediate/advanced

What job you'd have on  
a pirate ship

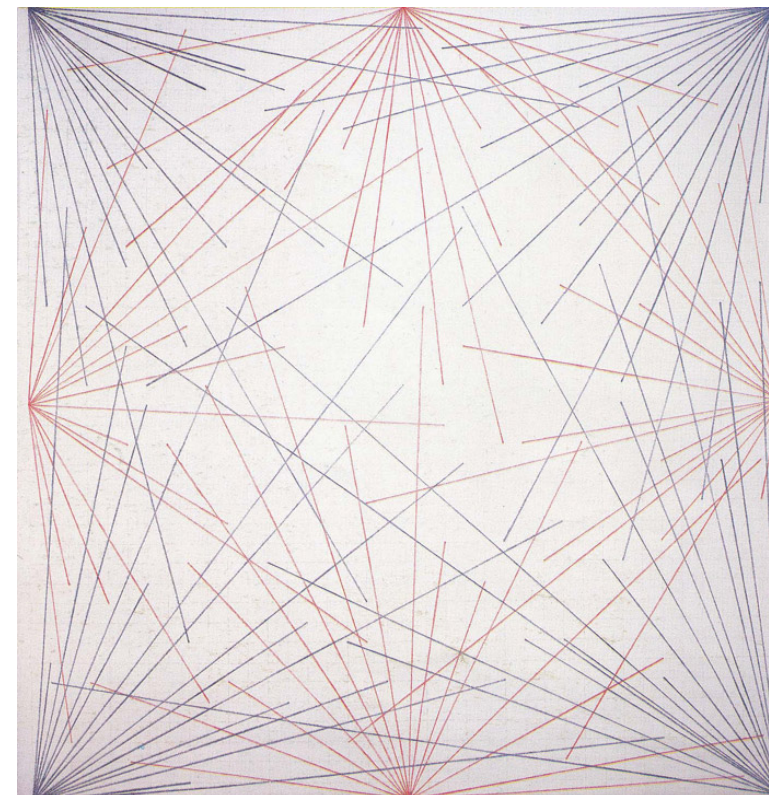
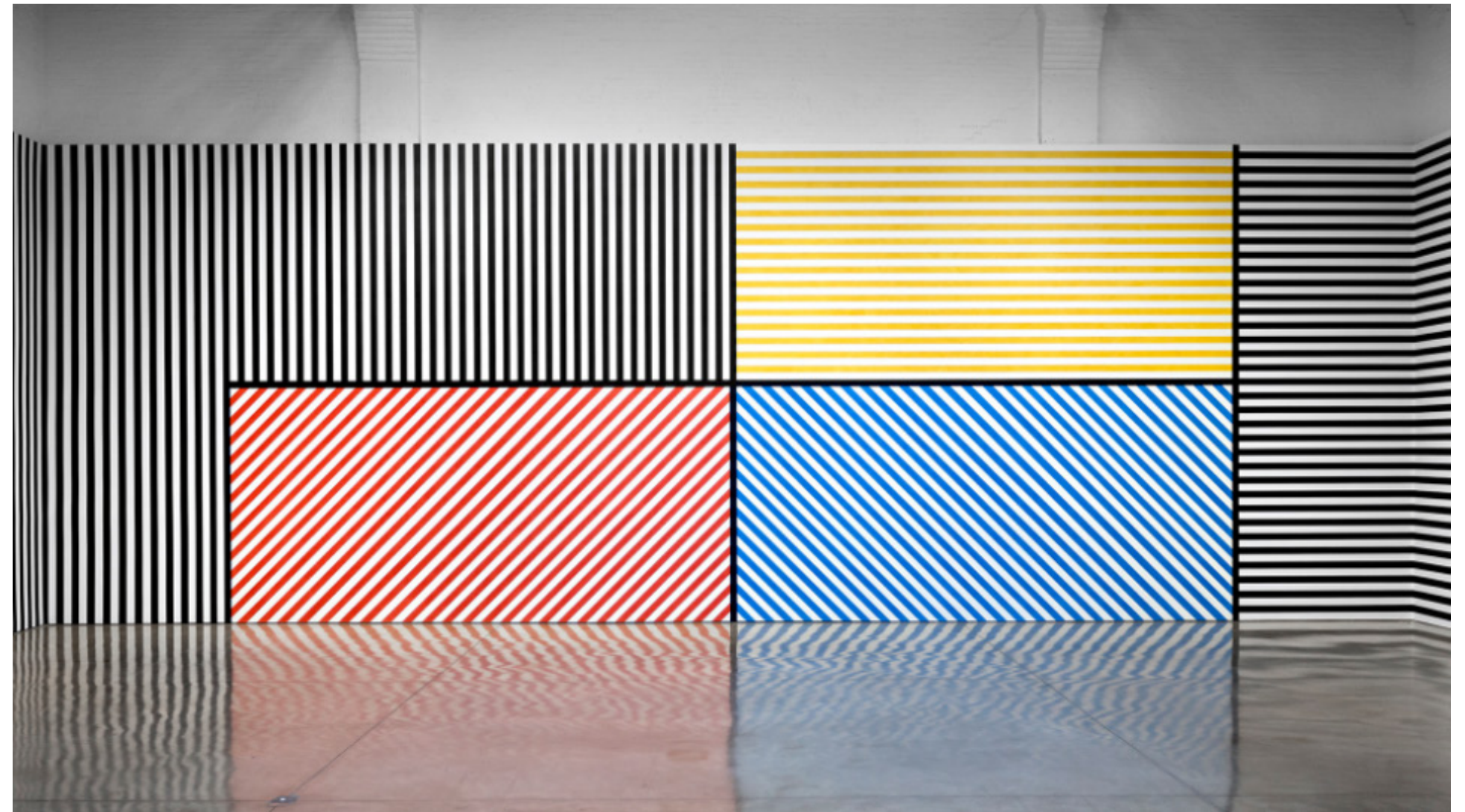


# Processing Sol

Sol LeWitt was an American conceptual and minimalist artist. His best known works are his “Wall Drawing” series of nearly 1300 works created between 1968 and his death in 2007.

Each “work” is a set of instructions for a professional draftsman to execute on a wall, sometimes with latitude for interpretation.

Our challenge today is to execute his wall drawings on the canvas of a screen.





# Wall Drawing #46 (1970)

Vertical lines,  
not straight, not  
touching, uniformly  
dispersed with  
maximum density,  
covering the entire  
surface of the wall.





# Wall Drawing #86 (1971)

Ten thousand lines about 10 inches (25 cm) long, covering the wall evenly.



# PCD Code Challenge

Write Processing or p5.js code to execute the instructions of a Sol LeWitt wall drawing, interpreted for screen.

Output the final image the code creates or take a screenshot. The solutions will be collected and printed in a zine.



Submit your image along with your name, wall drawing number, and a link to your code (optional) through the form here:

<http://processingday2019.cmp.ac.nz/>



# PCD Advanced Code Challenge



Write Processing or p5.js code to write sets of instructions in the style of Sol LeWitt and then execute those instructions. (Interpret this challenge as you see fit.)

*This project is inspired by Solving Sol: <http://solvingsol.com/>*