

Code and Generativity

Generativity

- Rules
- Repetition, but with variation
- Emergence

Example:

<https://rawgit.com/RaggedyAnn/OldMinis/master/5th%20weekly%20mini%20exercise/treeGenerator/index.html>

Winnie's code

<https://auap.github.io/AP2017/class07/sketch07/index.html>

```
1 //credit: http://www.openprocessing.org/sketch/228000
2 //sketch07
3 var r = 0;
4 var status = "up";
5
6 function setup() {
7   createCanvas(windowWidth, windowHeight); //create a drawing canvas
8   noFill();
9   //frameRate(5);
10 }
11
12 function draw() {
13   background(255);
14   for (var xcor = 0; xcor < width-50; xcor += 50){
15     for (var ycor = 0; ycor < height-50; ycor += 50){
16       drawSomething(xcor, ycor);
17     }
18   }
19 }
```

```
20 //to keep increasing or decreasing the ellipses
21
22 if (status == "up") {
23     r+=0.01; //increase the size at a time
24 }else{
25     r-=0.01;
26 }
27
28 //if it reaches certain size, change the direction
29 if (r > 40){ //until r reaches a certain number, reset the status
30     status = "down";
31 }else if (r < 0) {
32     status = "up";
33 }
34 console.log(r);
35 }
36
37 function drawSomething(x, y) { // total horizontal ellipses (x axis = width/50); total vertical ellipses 19 (y axis = height/50) ) x2 ell
38     ellipse(x+50, y+25, 50*r, 50*r); //try to change with rect to see the effect
39     ellipse(x+25, y+50, 50*r, 50*r);
40 }
```

Sæt jer i Studiegrupper!

Kig på hinandens sidste miniExes

Præsenter, stil spørgsmål og giv feedback til hinanden

Tag noter!

45 minutter

3, 2, 1 –CODE!

Mini ex:

Generative program with at least 3 basic rules.

README:

Give a title to your piece and describe your program with a screenshot.

What are the rules that you have employed in your program?

What constitutes generativity?

What is the aesthetics of generativity?