```
Il initializing a random seed to create a postern
 1 var seed = Math.random() * 15283;
 2 var t; // time
                                               variable
  3 var num, vNum;
  4 var radius, mySize, margin;
 5 var sizes = []; //empty array for sizes
 7 let colors = []; // color combos as arrays of HEX values
 8 let colors0 = "B7AB98-1ABC9C-B7AB98-1ABC9C".split("-").map((a) => "#" + a);
 9 let colors7 = "B7AB98-B7AB98-1ABC9C-1ABC9C-B7AB98".split("-").map((a) => "#" + a);
10 let colors8 = "B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98-1ABC9
    B7AB98".split("-").map((a) => "#" + a);
11 | let colors11 = "B7AB98-1ABC9C-B7AB98-1ABC9C-B7AB98".split("-").map((a) => "#" + a);
13 var color_setup1, color_setup2;
14 let color bg;
15 let v_planet = []; 4 array for vittor plant positions
17 function setup() {
18
            randomSeed(seed);
19
            // pixelDensity(5);
            mySize = min(windowWidth, windowHeight);
20
21
            margin = mySize / 100;
            createCanvas(windowWidth, windowHeight, WEBGL);
22
23
            color_setup1 = colors7;
24
            color_setup2 = random([ colors11]); { setup color combes
25
            color_bg = "#0D0D0D";
26
            background(color bg);
27
             // num = 50:
28
            num = int(random(20, 10));
29
            radius = mySize * 0.85;
                                                                                                         generate random sizes
30
             for (let a = 0; a < TAU; a += TAU / num) {</pre>
31
                    sizes.push(random(0.1, 0.5))
32
33
            t = 0;
34 }
35
            randomSeed(seed); // another random seed
36 function draw() {
37
            background(color_bg); // clear the background
38
39
40
            for (let i = 0; i < num; i++) {
41
                    let a = (TAU / num) * i;
42
                    let x = radius * sin(a + t) / random(5, 3) / 1.0;
43
                    let y = radius * cos(a + t) / random(3, 5) / 1.0;
44
                    v planet[i] = createVector(x, y);
45
            }
            push(); // 3/2 PARI
46
47
48
            for (let q = 0; q < 1 / 5; q += 2 * random(0.01, 0.02)) {
49
                    for (let j = 0; j < 1; j++) {
                           let n = noise(q*t, j*t,frameCount*0.01); // woise for rotation
50
51
                           rotateX(random(TAU)+sin(-t) / 5 + q);
52
                           rotateY(random(TAU)+cos(t) / 5 + q );
53
                           rotateZ(random(TAU)+sin(-t) / 5 + q);
54
                           noStroke();
55
                           fill(random(color_setup2));
56
                                     11 torus shapes
                           for (let i = 0; i < num; i += 8) {
57
                                   let d = random(radius / 2, radius / 4) / 1;
58
59
                                   push();
60
                                   rotateX( random(TAU)+sin(t));
```

```
61
                      rotateY(random(TAU)+cos(-t)+n/100 );
 62
                      rotateZ( random(TAU)+2 * sin(2*t) );
 63
 64
                      let x_plus = 1.25 * random(-d, d) / 1;
 65
                      let y_plus = 1.25 * random(-d, d) / 1;
66
                      let z_plus =1.25 * random(-d, d) / 1;
67
68
                      torus(z_plus,random(1),100,100);
69
                     pop();
70
                        11 spheres
                 }
71
                 for (let i = 0; i < num; i += 4) {
72
                      let d = (1.5 + sin(t)) * random(radius / 2, radius / 4);
73
                      let x_plus = 0.5 * random(-d, d) / 1;
74
                      let y_plus = 0.5 * random(-d, d) / 1;
75
                     let z_plus = 0.5 * random(-d, d) / 1;
76
                      stroke(random(color_setup2));
77
                     strokeWeight(random(0.5));
78
                     noFill();
79
                     push();
80
                     translate(v_planet[i].x + x plus, v planet[i].y + y_plus, z_plus);
81
                     rotateX(random(TAU)+t);
82
                     rotateY(random(-TAU)+t);
83
                     rotateZ(random(PI)+t);
84
                     sphere(random(2));
85
                     pop();
86
87
            }
        pop(); // updating the variables to create an animation to += random(2, 1) * random(0.001, 0.005) / 1;

// saves the carnos as an image when "s" is pressed
88
89
90
       t += random(2, 1) * random(0.001, 0.005) / 1;
91
92 }
93
94
95 function keyTyped() {
       if (key === "s" || key === "S") {
96
            saveCanvas("0712_Emotional lines_12_2022", "png");
97
98
       }
99 }
```