Materials and Tutorials inspirations from class

Module breakdown

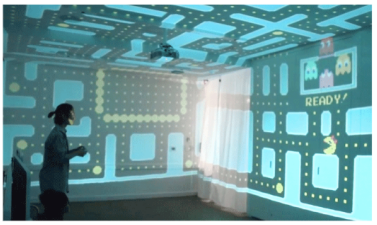
Weeks 1 - 3, Introduction to creative coding and the strategies of generative art

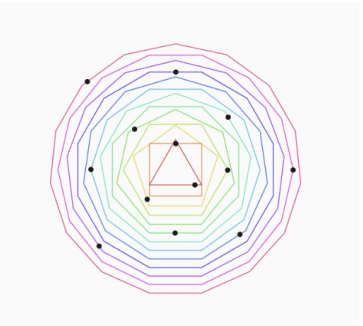
Week 4, Rendering creative coding for digital and physical presentation

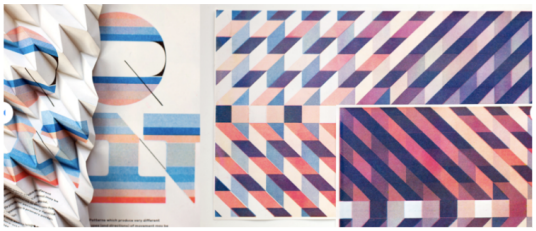
Week 5 - 7, Computational animations

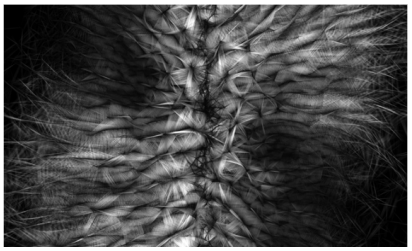
Weeks 8 - 10, Interactivity, rules, sensors and game logic

Weeks 11 -12, Developing final projects







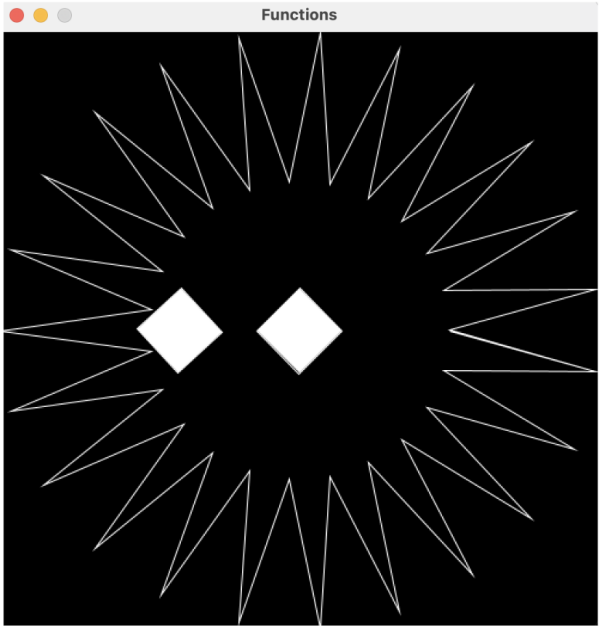


Building A1

So far we have looked at:

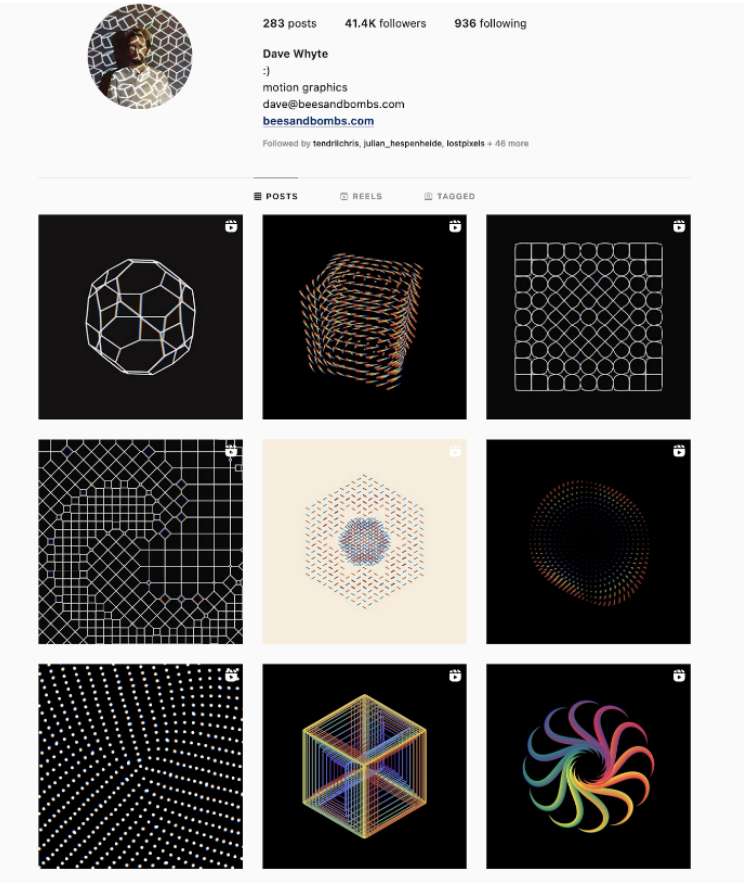
Creating functions

```
//rotate_rect function
void rotate_rect(int x, int y, float size, float rot) {
  fill(255);
  rectMode(CENTER);
  pushMatrix();
  translate(x, y);
  rotate(radians(rot));
  rect(0, 0, size, size);

  popMatrix();
}

//star function
void star(float x, float y, float radius1, float radius2, int npoints) {
  float angle = TWO_PI / npoints;
  float halfAngle = angle/2.0;
  noFill();
  stroke(255);
  beginShape();
  for (float a = 0; a < TWO_PI; a += angle) {
    float sx = x + cos(a) * radius2;
    float sy = y + sin(a) * radius2;
    vertex(sx, sy);
    sx = x + cos(a+halfAngle) * radius1;
    sy = y + sin(a+halfAngle) * radius1;
    vertex(sx, sy);
  }
  endShape(CLOSE);
}
```

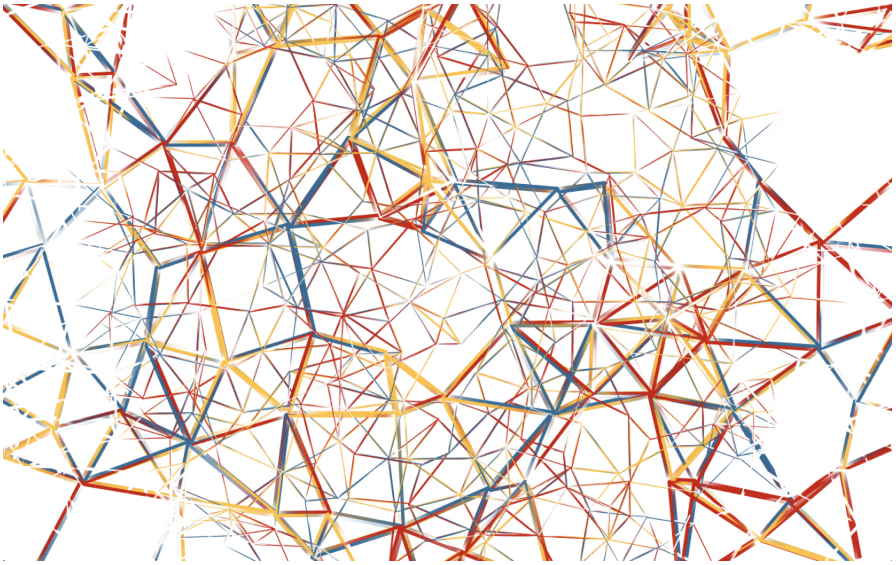


More down

Some aesthetic examples



A previous artwork from a coding artist named Casey Reas that inspired me



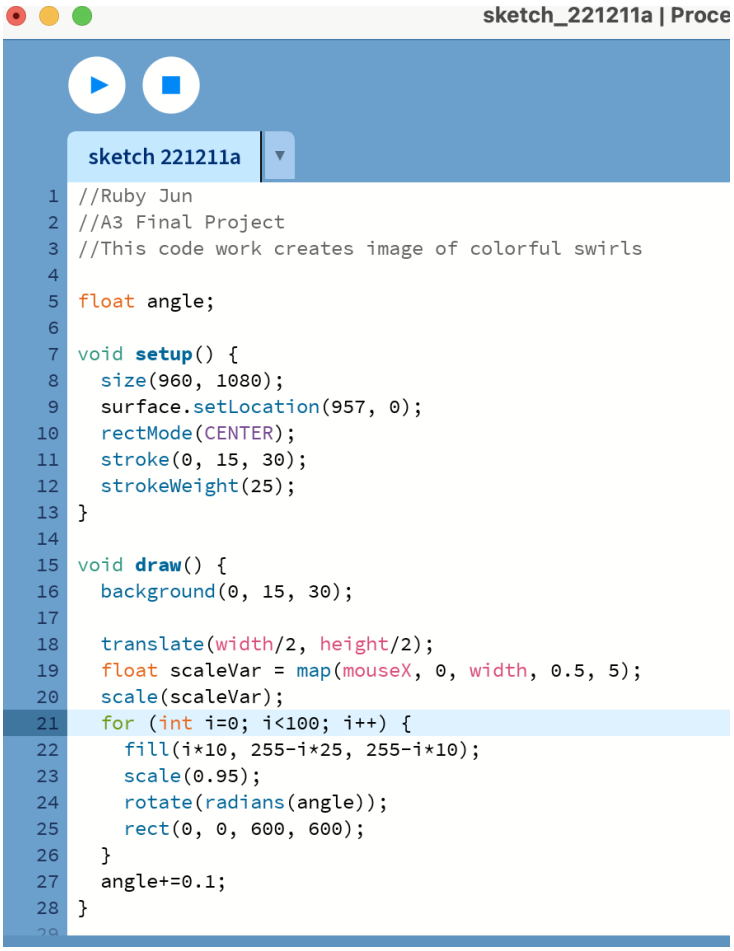
My Processing Codes

sketch 221211a

```
//Ruby Jun
//A3 Final Project
//This code work creates image of colorful swirls


void setup() {
  size(960, 1080);
  surface.setlocation(957, 0);
  rectMode(CENTER);
}

void draw() {

  translate(width/2,height/2)
  rect(width/2, height/2, 600, 600);
}
```

sketch 221211a

```
//Ruby Jun
//A3 Final Project
//This code work creates image of colorful swirls

float angle;

void setup() {
  size(960, 1080);
  surface.setlocation(957, 0);
  rectMode(CENTER);
  stroke(0, 15, 30);
}

void draw() {
  background(255);
  translate(width/2, height/2)
  for (int i=0; i<100; i++) {
    scale(0.95);
    rotate(radians(angle));
    rect(0, 0, 600, 600);
  }
  angle+=0.1;
}
```



Short Piece Writing

I wasn't sure what kind of art I should create for this assignment at first, but it suddenly occurred to me to use my favourite medium—colorful shapes—to make a swirling loop that resembled a flower. I mainly relied from artists, social media, and my courses to see how I might construct this. Even though it was challenging to work around it and produce this beautiful work of art, I did like creating it. Finding the ideal spot, angle, and position was definitely the most challenging aspect of this, while colouring was the most enjoyable.