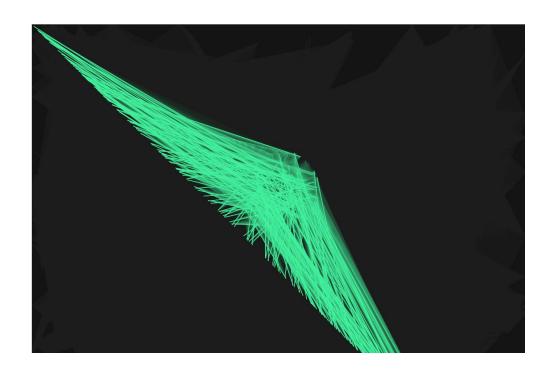
- 1. Describe each of your three rules (30pts)
 - 1) In this image, I used my attraction and repulsion code as a base and changed var rad in function loadBalls so that a random point on the (x, y) domain and range would create a line stemming from it, helping me form the triangle shape. I also changed the shape from ellipse to line in render.
 - 2) In this image, I used my attraction and repulsion code as a base and made var rad much smaller so that the lines and ellipses that I created in the render function had a low range for motion based on the random length of the lines the balls followed. In the set up function, I removed the random colors and created one color for the image. Lastly, I decreased the number of lines and circles so that each ball could be visible.
 - 3) In this image, I used my attraction and repulsion code as a base and changed function loadBalls so that lines from the render function could attract and repulse ball1 with a (400, 500) point. I also changed the velocity and color to make the lines move extremely fast and give a firework effect.

```
2. Show code for each rule (30pts)
   1)
   function loadBalls(numBalls){
      for(var i = 0; i < numBalls; i++){
        var loc = createVector(random(width), random(height));
        var vel = createVector(random(-3,3), random(-3,3));
        var rad = random(0,1000);
        var col = color(66, 244, 158);
        balls.push(new Ball(loc, vel, rad, col));
   this.render = function (){
     stroke(this.col);
    line(this.loc.x,this.loc.y, this.rad, this.rad);
      color(244, 66, 131));
    loadBalls(3);
   2)
   function loadBalls(numBalls){
      for(var i = 0; i < numBalls; i++){
        var loc = createVector(random(width), random(height));
        var vel = createVector(random(-3,3), random(-3,3));
```

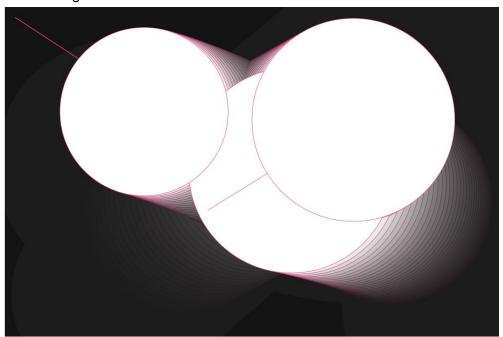
```
var rad = random(400, 500);
     var col = color(244, 66, 131);
     balls.push(new Ball(loc, vel, rad, col));
this.render = function (){
 stroke(this.col);
 line(this.loc.x,this.loc.y, this.rad, this.rad);
 ellipse(this.loc.x,this.loc.y, this.rad, this.rad);
3)
var rad = random(400, 500);
     var col = color(255, 246, 0);
this.render = function (){
 stroke(this.col);
 triangle(this.loc.x,this.loc.y, this.rad, this.rad);
 line(this.loc.x,this.loc.y, this.rad, this.rad);
this.vel.limit(15);
 color(255, 246, 0));
 loadBalls(200);
```

3. Show screen shot for each rule (30pts)

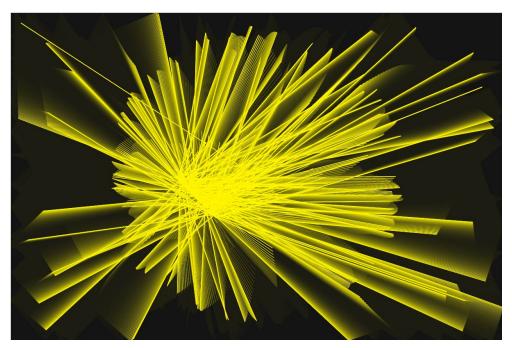
Rule 1 image



Rule 2 image



Rule 3 image



4. Save as PDF and upload to canvas (For credit)