Principles Art Project

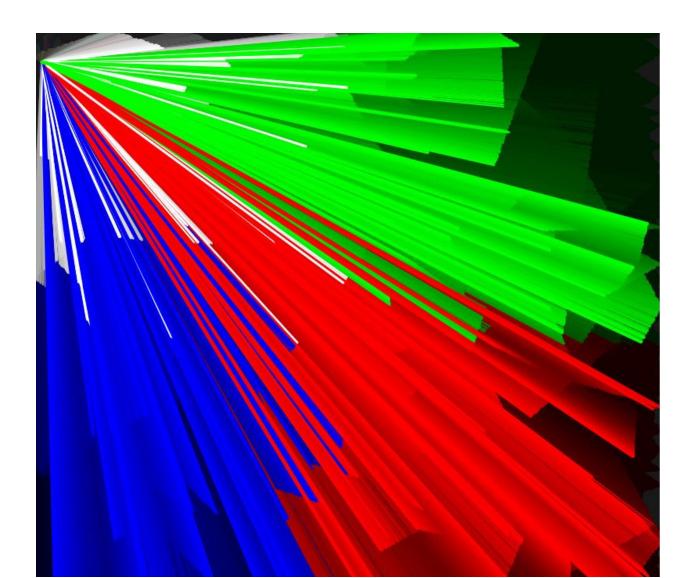
- Describe each of your three rules (30pts)
 - 1. In the render function I changed all of the balls to lines and added stroke weight and lowered the velocity.
 - 2. I added two classes of bars to the canvas with limits on a random ¼ of the canvas.
 - 3. I changed the stroke weight of the bars and took away one class of bars adding another group of lines with random velocity.
- Show code for each rule (30pts)

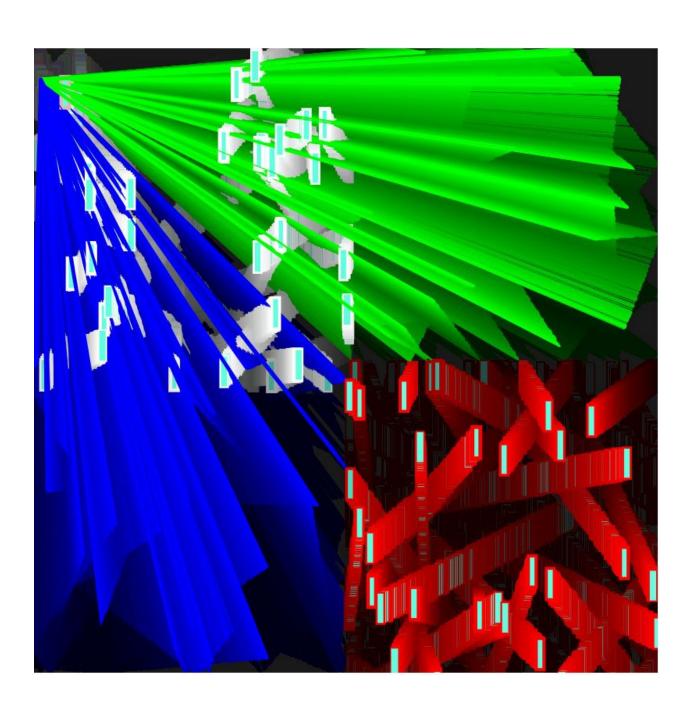
```
1. this.render = function(){
    fill(100,700,225);
    if(this.loc.x<400 && this.loc.y>400 ){
    stroke(0,0,random(100,200)+this.loc.dist(this.vel))
    strokeWeight(random(1,5));
    line(this.loc.x, this.loc.y, 10, 40);
   }
   if(this.loc.x>400 && this.loc.y>400 ){
   stroke(random(100,200)+this.loc.dist(this.vel),0,0)
   strokeWeight(random(1,5));
   line(this.loc.x, this.loc.y, 10, 40);
 }
   if(this.loc.x<400 && this.loc.y<400){
stroke(random(100,200)+this.loc.dist(this.vel),random(100,200)+this.loc.dist(this.vel),ran
dom(100,200)+this.loc.dist(this.vel))
    strokeWeight(random(1,5));
    line(this.loc.x, this.loc.y, 10, 40);
   }
   if(this.loc.x>400 && this.loc.y<400){
   stroke(0,random(100,200)+this.loc.dist(this.vel),0)
   strokeWeight(random(1,5));
   line(this.loc.x, this.loc.y, 10, 40);
 }
}
2. this.render = function(){
    fill(100,700,225);
    if(this.loc.x<400 && this.loc.y>400 ){
    stroke(0,0,random(100,200)+this.loc.dist(this.vel))
    strokeWeight(random(1,5));
```

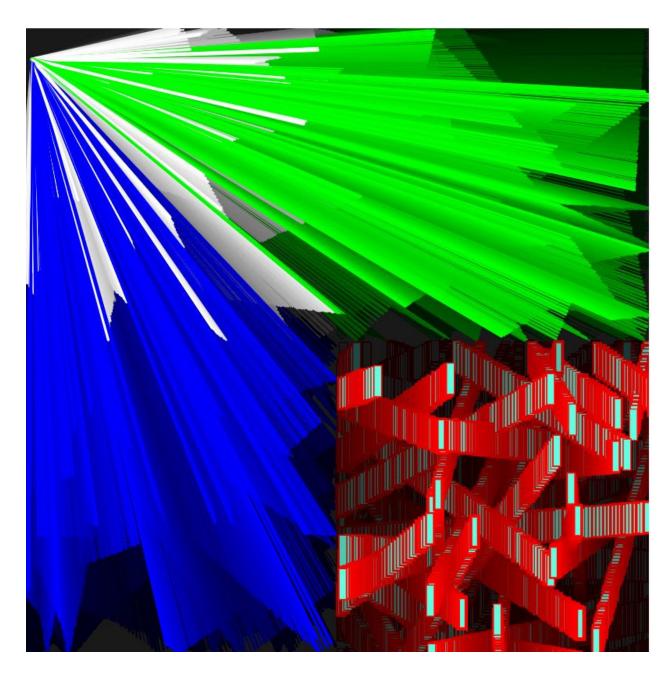
```
line(this.loc.x, this.loc.y, 10, 40);
   }
   if(this.loc.x>400 && this.loc.y>400 ){
   stroke(random(100,200)+this.loc.dist(this.vel),0,0)
   strokeWeight(random(1,5));
   rect(this.loc.x, this.loc.y, 10, 40);
   if(this.loc.x<800 && this.loc.y<800){
stroke(random(100,200)+this.loc.dist(this.vel),random(100,200)+this.loc.dist(this.vel),ran
dom(100,200)+this.loc.dist(this.vel))
    strokeWeight(random(1,5));
    rect(this.loc.x, this.loc.y, 10, 40);
   if(this.loc.x>800 && this.loc.y<4800){
   stroke(0,random(100,200)+this.loc.dist(this.vel),0)
   strokeWeight(random(1,5));
   line(this.loc.x, this.loc.y, 10, 40);
 }
3. Velocity was changed to make the bars and line shake around more violently.
 for(var i = 0; i < numBalls; i++){
     var loc = createVector(random(width), random(height));
     var vel = createVector(random(-5,5), random(-5,5));
     var col = color(0, 0, random(0,255));
this.render = function(){
    fill(100,700,225);
    if(this.loc.x<400 && this.loc.y>400 ){
    stroke(0,0,random(100,200)+this.loc.dist(this.vel))
    strokeWeight(random(1,5));
    line(this.loc.x, this.loc.y, 10, 40);
   }
   if(this.loc.x>400 && this.loc.y>400 ){
   stroke(random(100,200)+this.loc.dist(this.vel),0,0)
   strokeWeight(random(1,5));
   line(this.loc.x, this.loc.y, 10, 40);
 }
   if(this.loc.x<800 && this.loc.y<800){
stroke(random(100,200)+this.loc.dist(this.vel),random(100,200)+this.loc.dist(this.vel),ran
dom(100,200)+this.loc.dist(this.vel))
    strokeWeight(random(1,5));
```

```
rect(this.loc.x, this.loc.y, 10, 40);
}
if(this.loc.x>800 && this.loc.y<4800){
  stroke(0,random(100,200)+this.loc.dist(this.vel),0)
  strokeWeight(random(1,5));
  line(this.loc.x, this.loc.y, 10, 40);
}</pre>
```

Show screen shot for each rule (30pts)







Save as PDF and upload to canvas (For credit)