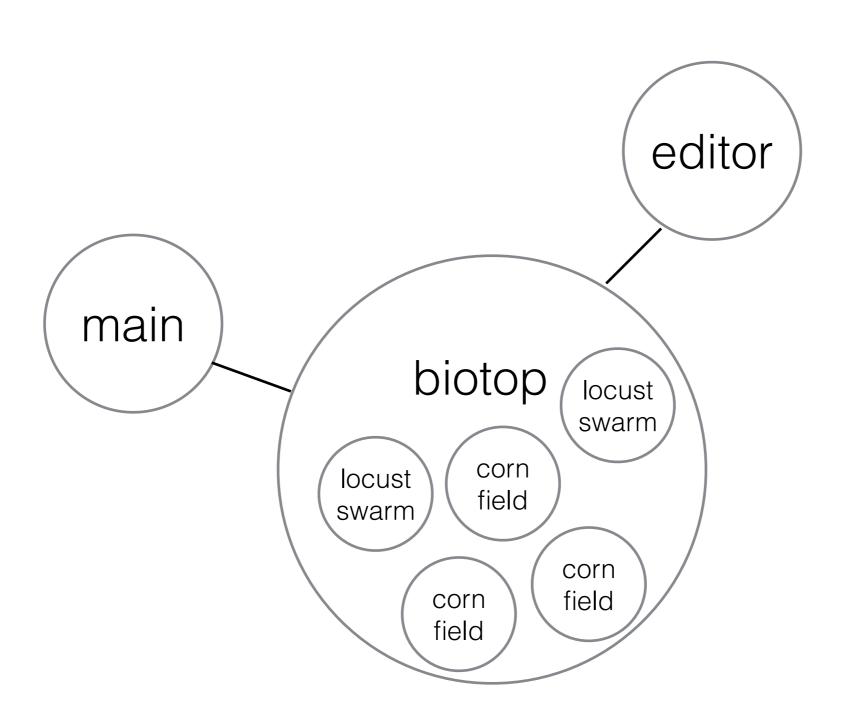
# useful patterns for simulation

# object orientation



ArrayList<PVector> history;

```
ArrayList<PVector> history;
int history_length;
```

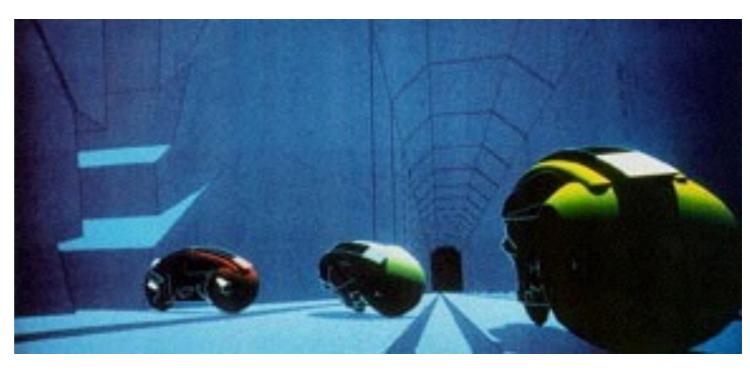
```
ArrayList<PVector> history;
int history_length;
setup() {
    history = new ArrayList<PVector>();
    history_length = 100;
}
```

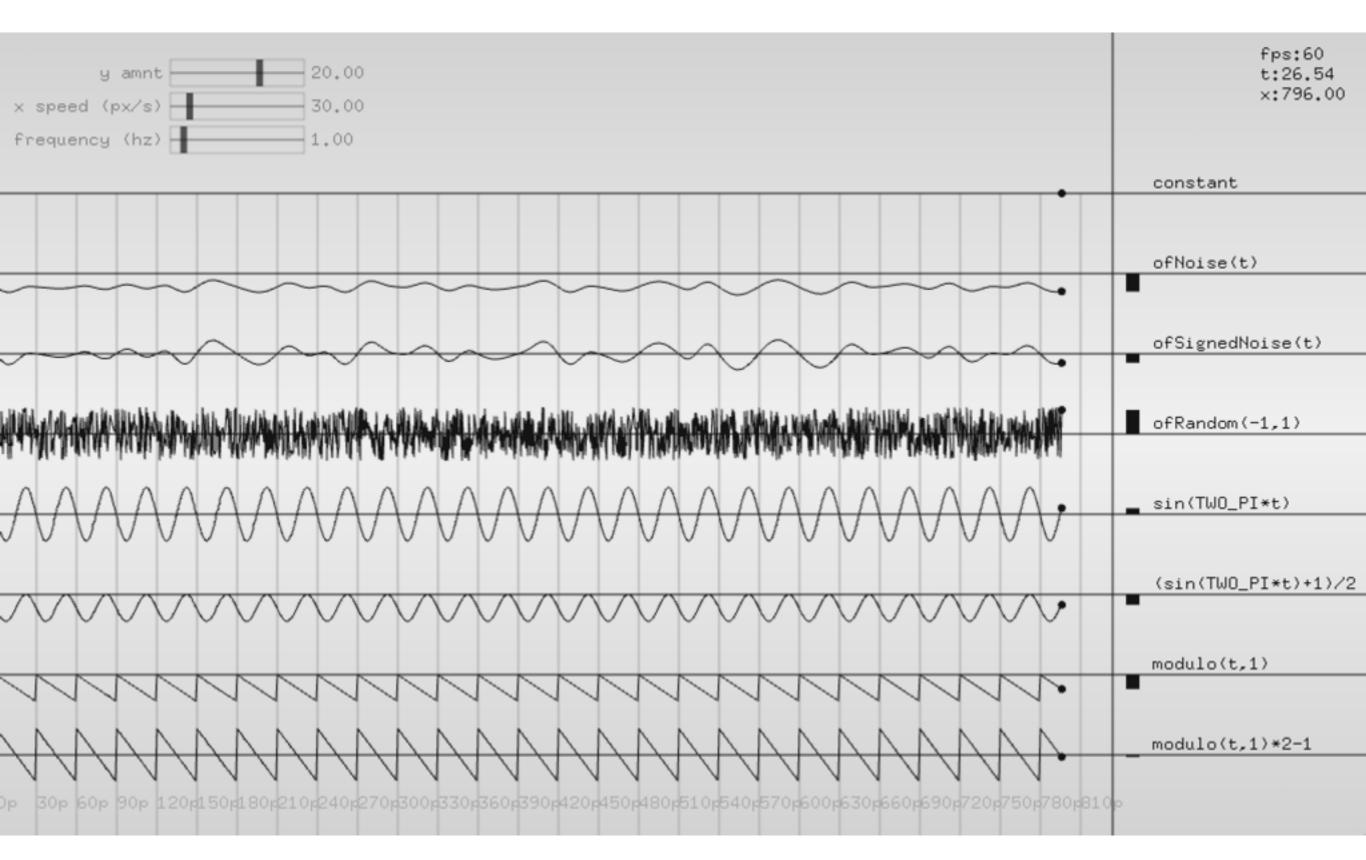
```
ArrayList<PVector> history;
int history_length;
setup() {
     history = new ArrayList<PVector>();
     history length = 100;
  }
draw() {
     history.add(new PVector(p.x, p.y));
     if(history.size()>history length)
history.remove(0);
```

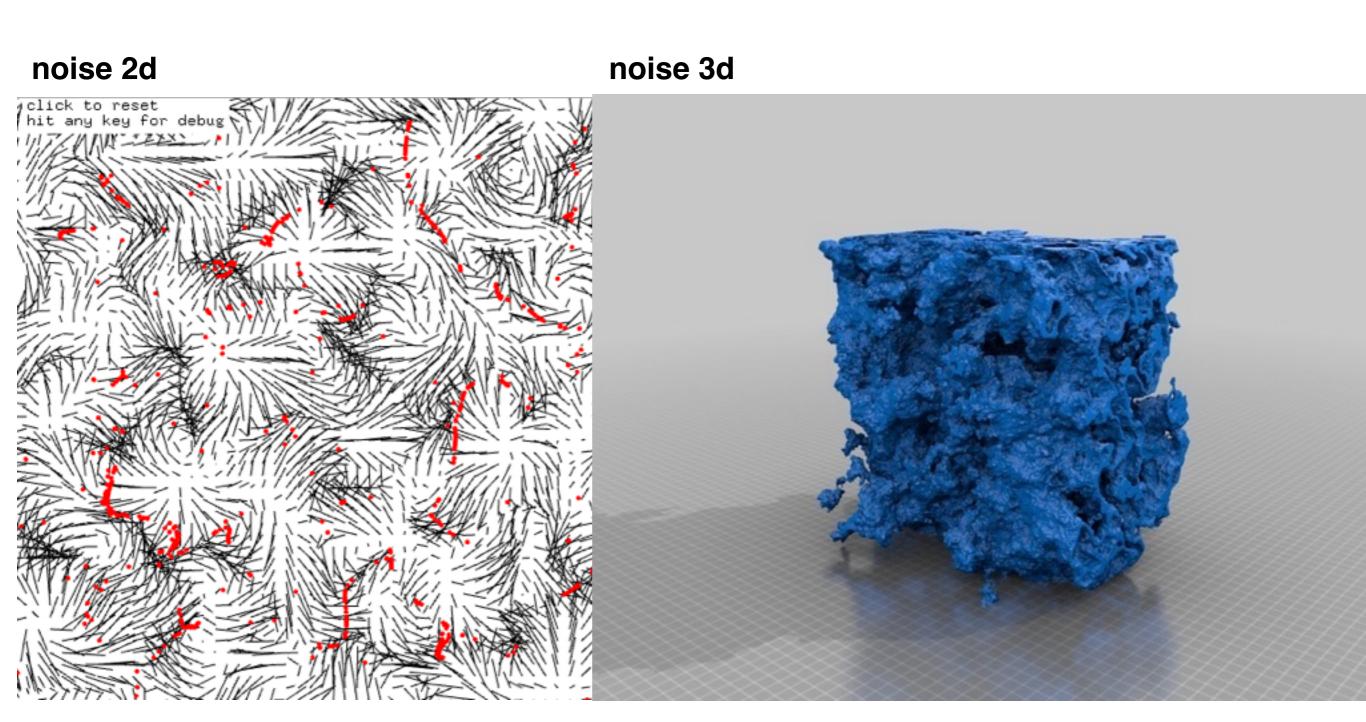


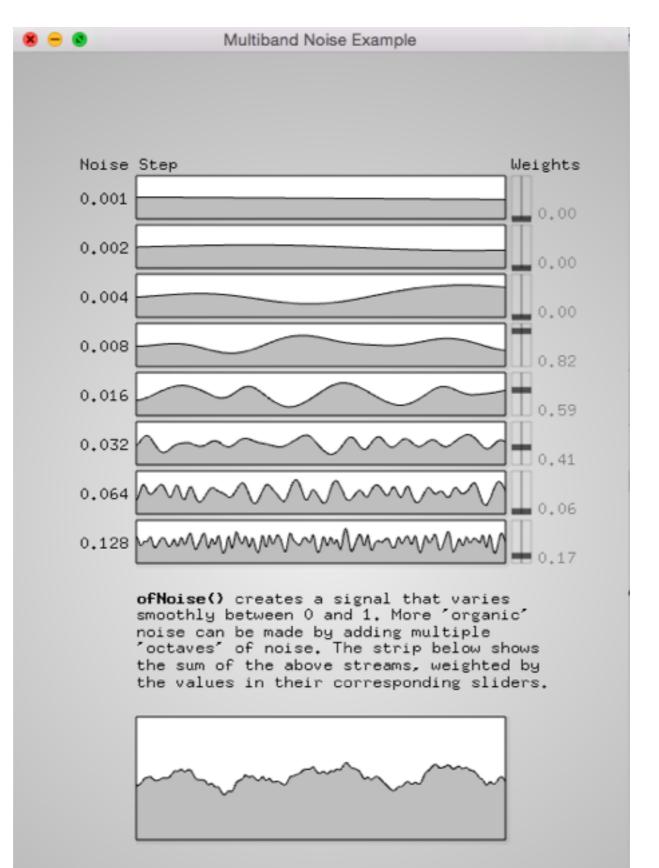
Ken Perlin
Professor of Computer Science
NYU Media Research Lab
Director, Games for Learning Institute
Member of MAGNET
719 Bwy, Rm 1202,
NY, NY 10003

#### **TRON 1983**









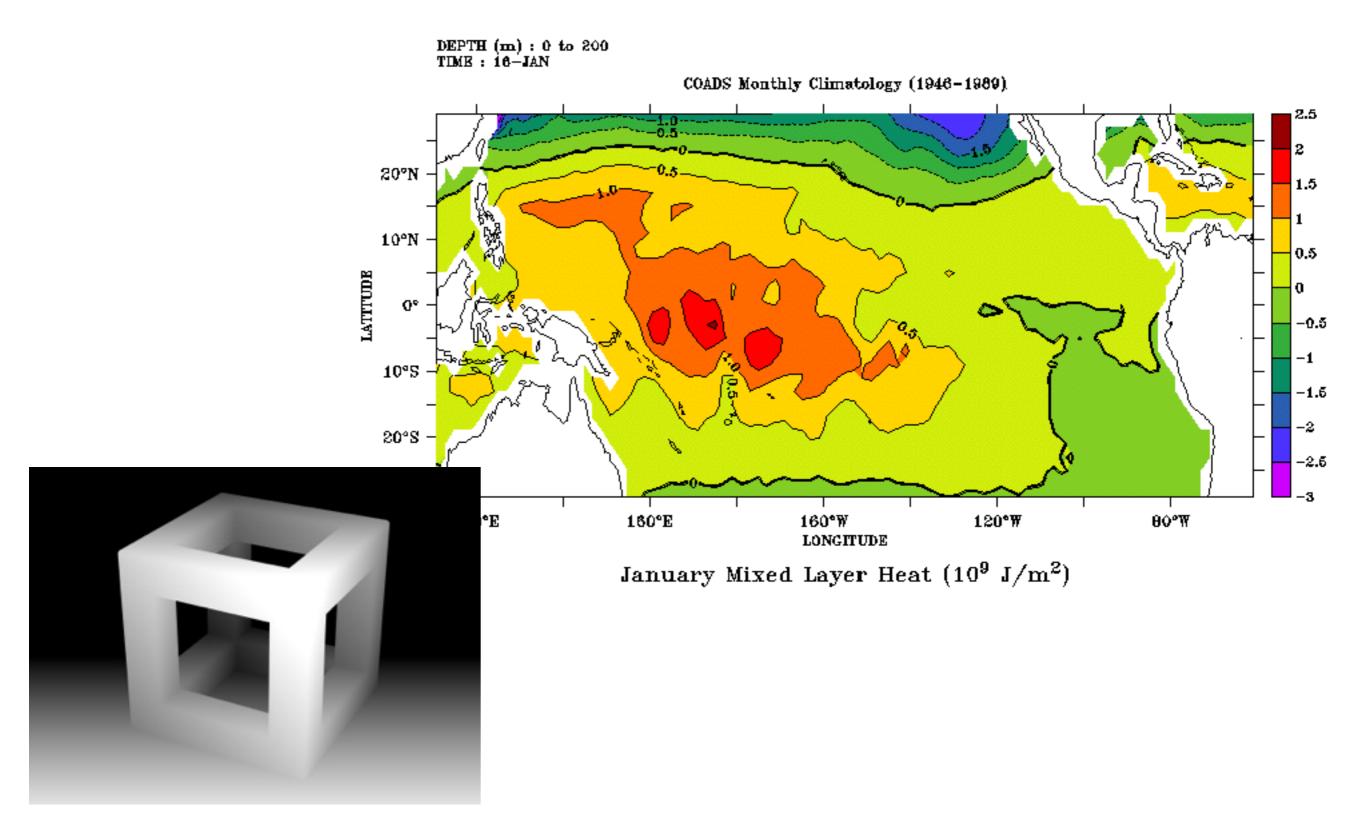
in processing:

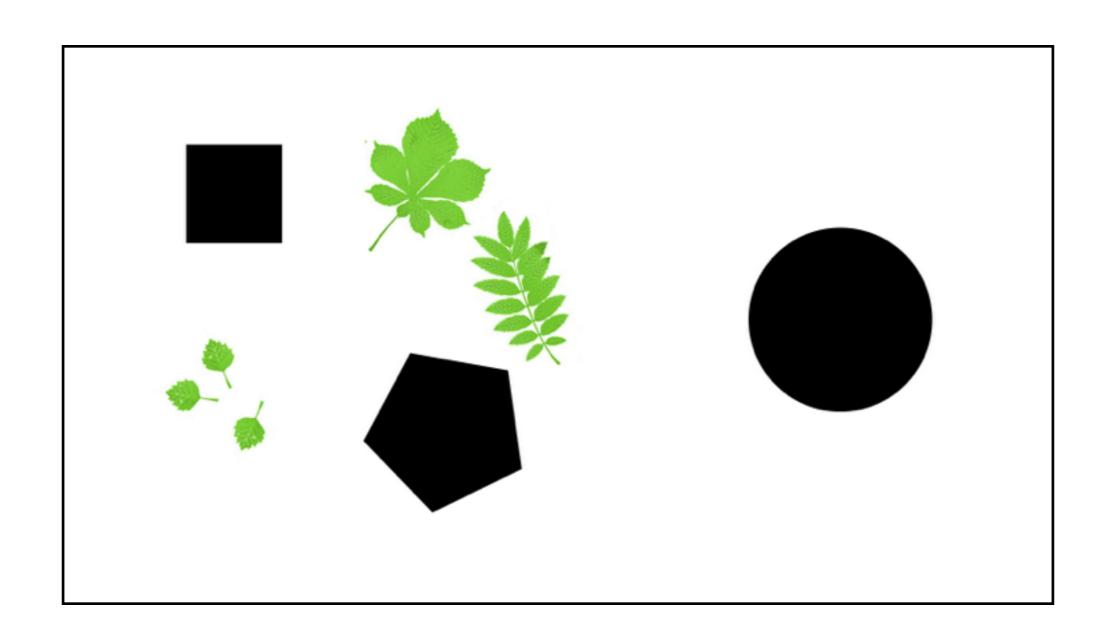
noise(arg)

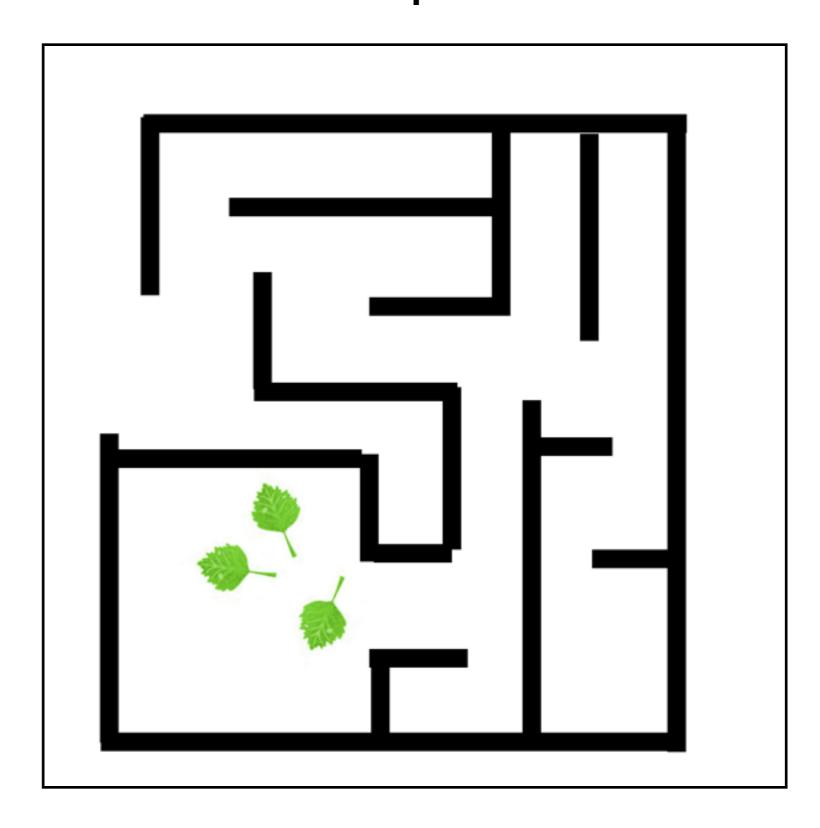
```
in processing:

// update position

val += 0.02;
    direction.rotate((noise(val)-0.5)*0.05);
```







```
PImage map;
setup() {
     map = loadImage("test2.png");
draw() {
     color test = map.get(x,y);
    if(good) map.set(x, y, color(255));
```