

dfgfdg

```
import processing.video.*;
```

```
import peasy.PeasyCam;
```

```
//PImage ing;
```

```
Capture ing;
```

```
PeasyCam cam;
```

```
void setup(){
```

```
  size(1000,700,P3D);
```

```
  cam = new PeasyCam(this,600);
```

```
  ing = new Capture(this, 640, 480);
```

```
  ing.start();
```

```
  //ing = loadImage("africa-pygmy-hippo-holly-berry-1-jan-24-2018.jpg");
```

```
  //ing.resize(1000,700);
```

```
}
```

```
void draw(){
```

```
  background(0);
```

```
  if(ing.available()==true);
```

```
  ing.read();
```

```
  pushMatrix();
```

```
  translate(-ing.width/2.0,-ing.height/2.0);
```

```
  //image(ing,0,0);
```

```
  //box(1000);
```

```
  heightMap(10,mouseX);
```

```
  popMatrix();
```

```
}
```

```
void heightMap(int gridSize, float depth){
```

```
  strokeWeight(3);
```

```
  //noFill();
```

```
for(int y = 0 ; y < ing.height; y+=gridSize){

beginShape();

for(int x = 0 ; x < ing.width; x+=gridSize){

color c = ing.get(x,y);
float z = map(brightness(c),0,255,-depth, depth);

//noFill();
fill(random(z+168,316),random(c*260),random(z));
pushMatrix();
translate(x,y,z);
rotate(random(6));
//box(random(gridSize));
//fill(random(z+168),random(c*260),random(c+50));
//sphereDetail(mouseX,4);
//sphere(gridSize);
popMatrix();

stroke(c);
vertex(sin(x),y,z);
//strokeWeight(10);

//point(x,y,z);

}
endShape();
}
}
```