```
Miguel s Present
import ddf.minim.*;
import ddf.minim.analysis.*;
Minim minim;
AudioPlayer song;
FFT fft;
BeatDetect beat;
int eX = 10;
int eY = 10;
boolean mute = false;
color color 1 = #ECD078; //#013f2f; //#e65a90; //#78d8a9;
color color 2 = \#C02942; //\#cb07e7; //\#62519b; //\#d698fd;
color color 3 = #542437;
color color 4 = #53777A;
int eRadius = 10;
int bpm = 101;
float r;
float theta;
float a = 3;
float b = 5;
float aDif = 0.1;
boolean playing;
void setup() {
//size( 800, 800);
size(23811, 23811);
```

```
minim = new Minim(this);
//buffer size 1024
song = minim.loadFile("Soda Stereo - Persiana Americana.mp3");
song.play();
song.loop(1);
playing = true;
fft = new FFT( song.bufferSize(), song.sampleRate() );
beat = new BeatDetect( song.bufferSize(), song.sampleRate() );
beat.setSensitivity(300);
beat.detectMode(BeatDetect.FREQ ENERGY);
colorMode(HSB);
r=0;
theta= 0;
background(5);
void draw(){
if(playing){
 if(song.loopCount() == 0 ){
  song.pause();
  saveFrame("###.png");
  playing = false;
 float avg = 0;
 eRadius = width/80;
 fft.forward(song.mix);
 beat.detect(song.mix);
```

```
stroke(255, 0, 0, 128);
 for(int i = 0; i < fft.specSize(); i++){
   avg += fft.getBand(i);
  }
 color c = lerpColor(color 1, color 3, avg/2500);
 if(beat.isKick()) eRadius = width/40;
 if(beat.isSnare()) eRadius = 3*width/160;
 noStroke();
 fill(c);
 drawInEspiral();
void drawInEspiral(){
translate(width/2, height/2);
theta += aDif;
r = a + b*theta;
aDif = 1/r;
float x = r*\cos(theta);
float y = r*sin(theta);
ellipse(x, y, eRadius, eRadius);
}
void keyPressed(){
if(!mute){
 song.mute();
```

```
mute = true;
}else {
  song.unmute();
  mute = false;
}
if(key=='s'){
  saveFrame("###.png");
}
}
```