

chanks

```
import ddf.minim.*;
import ddf.minim.analysis.*;
```

```
Minim minim;
AudioPlayer song;
FFT fft;
BeatDetect beat;
```

```
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 = width/80;
```

```
int bpm = 101;
```

```
float r;
float theta;
float a = 22.3;
float b = 37;
float aDif = 0.1;
```

```
boolean playing;
```

```
void setup() {
```

```
//size( 800, 800);
size( 5953, 5953 );
```

```
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 = 45/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");
```

```
  }
```

```
}
```