**Music Brush**

As two different art’s form, music and paint may have something in common. We want to implement a system that can convert a music to a paint via some interesting method. In this way, we can enjoy a music in an intuitive perspective. In other words, this project aims to “draw” a picture using the information of a music. So we call it “Music Brush”.

The basic flow of this system is as follows:

1. First open the application, play music, the application records the melody of the entire music;
2. After the music end. Read a sound file and extract the specific features such as amplitude,  frequent and so on.
3. Analysis the extracting feature. But define one to one function between music melody and color.
4. Because there is a lot of melody in a piece of music. So we will set up in the database for each melody corresponding color;
5. Paint the color and shape on the canvas and get the result picture.

We will use HTML to show input interface and output interface. We decide to use JAVA to help our implementation algorithm procedures.

In this project, we believe how to analyze a music melody and how to better quickly match the color of the melody way are our core problem.

In our expectation, different kinds of music will map to different kinds of pattern. Whereas the noise will correspond to a meaningless picture. If we have more time. We will add more different melody color matching template. To meet the different needs of users.