About

This experiment-oriented blog attempts to bring forth music visualization in both individual and combinational forms of lines, shapes, and colors. German musician Kontra K’s latest album “Gute Nacht” is set as the experimental subject for potential visual performances. Animated representations along with short text explanations are expected to convey the musical messages to a potential audience in a compelling and clear manner, which also seek to serve as promising digital prototypes for concert lighting/stage design. Ideation and working process are detailed for others’ reference. This project is mainly credited to Kontra K, Zachary Lieberman (visual artist), and Ian Reah (software developer).

Bio

Yuqi Wang, born in 1994 in Zhejiang, China. He studied Economics/Management Science at Sun Yat-sen University. Currently majors in Communication Design at Parsons School of Design, focusing on Interaction Design. With enthusiasm for music performance and German culture, he is pursuing future study experience in Lighting/Stage Design in Germany. Lives in New York City, United States.

Post 1

Why I want to do

People take music for granted, focus on lyrics and vocal, but neglect instrumental, which actually takes the major responsibility for listeners’ visceral reaction.

Interaction design is about interact, same as music is. Visual presentation also can vivify music and thus convey clearer messages. Also, this enables

Post 1

Why I want to do music visualization & What I can do

Problem: Pop music – Center Vocal

Solution: Other senses (Visual/Touch) – Enhance auditory presentation

My approach as an interaction designer: Audio API Visualize Audio

Post 2

Tools Introduction

Audio Context

Analyzer

Post 3

Principle (Ian)

Data – Analyzer -

Post 4

Ideation

Data: Data.Original – Data.Instrumental = Data.Vocal

Data.Vocal w/ Data.Instrumental

Visualization:

Variables

Shape: Line, Circle, Square (Width, Height, Fill, Stroke, Border-Radius, Rotate)

Animation: Box-Shadow, Background-Color, Opacity, Top, Height

Post 5

Code – Get Data of Vocal and Instrumental

Get Instrumental

Get Vocal

Post 6

Code – Simultaneous Play & On Repeat

Audio Event (canplay, canplaythrough, ended)

Post 7

Code – Background Pattern

Dataset on Tabitem

Post 8

Code – Visualization Based on the Chosen Pattern

Update();