

Project Definition

This project aims to create an alternative and generative sound device, like Diskograf, which is in between analog and digital technologies. In conceptual meanings, project seeks to reveal suggestions about the mood or character of the doodler by sounds.

Goals

- creating an alternative and generative sound device
- generating random sound sequences
- creating a harmony between overlapping sounds

Objectives

- making of the device
- programming
- processing the sounds
- preparation of the paper disks

This project will reveal moods or character of the doodler by sounds through his/her analog doodles on the paper.

Target Audience and User

People who doodle.

Background Information

I am interested both in digital and analog photography and this interest always made me curious about the collaboration of the digital and analog technologies. Since tools of sound storage and distribution which are vinyl, cd, dvd works in a common sense of technology whereas there is a disk which processed with information and turning fast and has been read by laser or a needle to reinterpret the implemented information. Me, as a visual communication designer, want to create a device which is not totally digital nor analog by using pen and paper as a method like in the Diskograf installation.

The creation of a sound device that remains in between digital and analog technologies and transforms visuals to sounds is not new. I researched for many projects. As an earlier example, I researched on Oramics Machine that created by Daphne Oram in 1960s. Her machine enabled to transform drawings on a magnetic tape to sounds. The transform of the drawing mainly consist of image processing. The camera reads the drawing and turns it into data that can be processed. In my project, the camera will read the black spots on a page and generate sounds according to the placement of the spots.

By means of black spots, as design students, in our lectures we learned that arrangement of the elements such as texts, photographs etc. namely black spots on a page suggest meanings. When I researched further I found out that page placement of these spots reveals moods and character of the designer.

According to Freud and Jung, the doodles are unconscious act of the absent mind. We doodle and as well, arrange them on a page unconsciously. My interest is in the latter. In reference to researches starting to doodle on page from the center reveals a self-centered, attention seeking personality, on the top it suggest energetic connotations, in contrast, doodling on the bottom of the page has negative connotations such as self-doubt or depression. Doodling on the left side of the paper suggests nostalgia and regret while doodling on the right side reveals inner feelings as, being in need of communication. I would like to assign different sounds to every suggestion which comes from the researches.

Technicalwise, I had a chance to learn coding and designing sounds in our lecture. Yet, I have a lot to learn about them. In that sense, this project can improve my skills about programming, image processing and designing a sound sequence.

Detailed Project Description

The Installation

I will create a device that remains in between digital and analog technologies. The device will be constructed with a camera and square turntable. Camera will work like laser or a needle that generates information from the processed disks. I will prepare and provide blank, white, square paper disks to the users that will be constructed by a hidden template that consist of slices of circles, which viewer will not see. It will help me to assign sounds according to placements on the page. User will use pen and paper disks as an analog method.

The viewer will reach to the installation, place the paper disk on the turning table and start doodling on the paper disk. The camera will read the coordinates of the black spot(s) on the page and turn them in to datum that I will assign sounds.

For an example, Max as a viewer reaches to my installation, puts the paper disk in to turntable and doodles on it. If Max doodles on to the center of the paper disk, as researches suggested a *self-centered, attention seeking* sound that may be cut out from a film will be generated. If she doodles on the top, a sound that connotates *energetic, free-thinking, spiritual* character will be generated while *self-doubt* and *depression* suggestive sounds will be produced when she doodles at the bottom of the page. Lastly, if she doodles on the left side of the page, sounds that evokes *nostalgia* and *regret* will be generated while sounds that suggests this person is *in need of communication* at the right side will be generated.

Every user will generate his or her unique sequence of sounds that generated from their doodles.

Scope of the Project

What will be recovered

- analysis of page placement of the doodles
- generating suggestive sounds

What will not be recovered

- analysis based on the gesture of the doodle such as line, curve etc.

Required Know-How Requirements

I will learn and enhance my skills on,
- image processing
- sound design

Difficulties & Risks

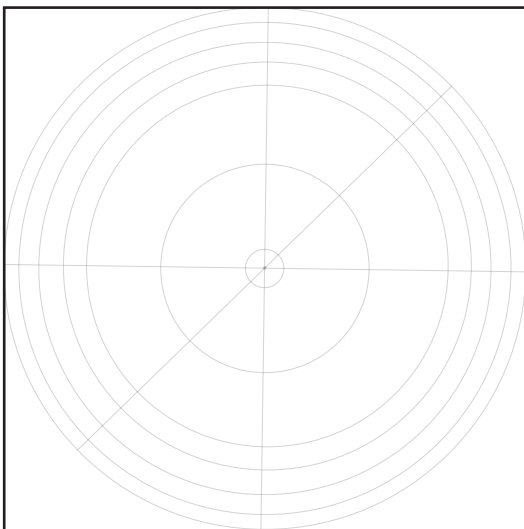
The main risk of this project will be the format of the turntable and the disks which is square. To assign sounds to coordinates of the disk, I need a format which has sides.

Phases of the Project

1. Making qualitative researches on page placement of doodles
2. The making of the machine, the installation / purchasing of the camera and turntable
3. Programming / learning and getting help about image processing
4. Implying the sounds in to coordinates / The harmony of the overlapping sounds
5. Preparation of the paper disks
6. Testing the installation
7. Making a documentation about the project

Criteria of Success

This project will be successful if I can make the camera read the coordinates of the doodles on the disk and if I can manage the overlapping sounds in a harmonious way.



Bibliography and Resources

Dyskograf

<https://vimeo.com/51700038>

<http://www.youtube.com/watch?v=QJQUPRPJ8yM>

<http://www.youtube.com/watch?v=rTpzk-Yd4Y4>

Color a Sound

<https://vimeo.com/11606420>

Loopseque

<http://www.youtube.com/watch?v=bNv2pCdNqJI>

Oramics Machine, Daphne Oram

<http://www.youtube.com/watch?v=QJQUPRPJ8yM>

Dyskograf in Progress

<http://www.themethodcase.com/dyshograf-by-avoka/>

Why do we doodle?

http://www.theregister.co.uk/2006/10/13/the_odd_body_doodling/

Page Placement

http://drawsketch.about.com/cs/tipsandideas/p/doodle_place.htm