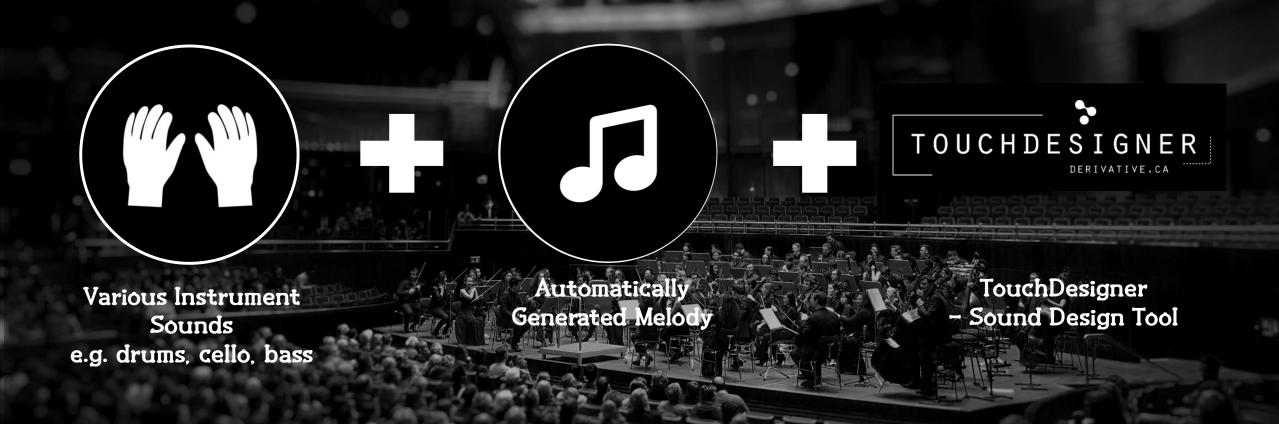


Glove Orchestra

김태은, 서소연, 송승희, 신지선, Truong Mai Huong

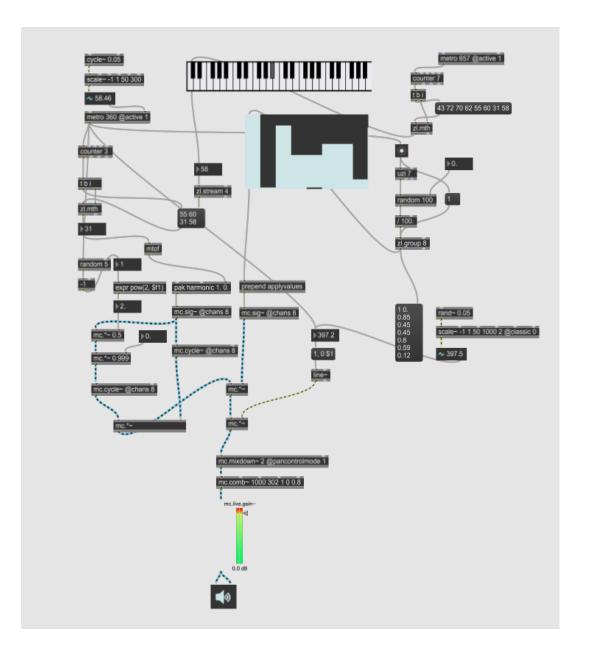
Everyone can become a band performer by wearing gloves.

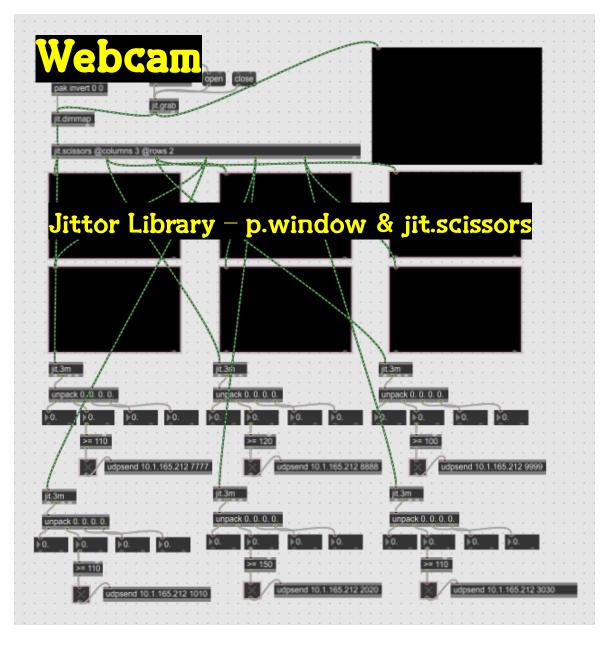


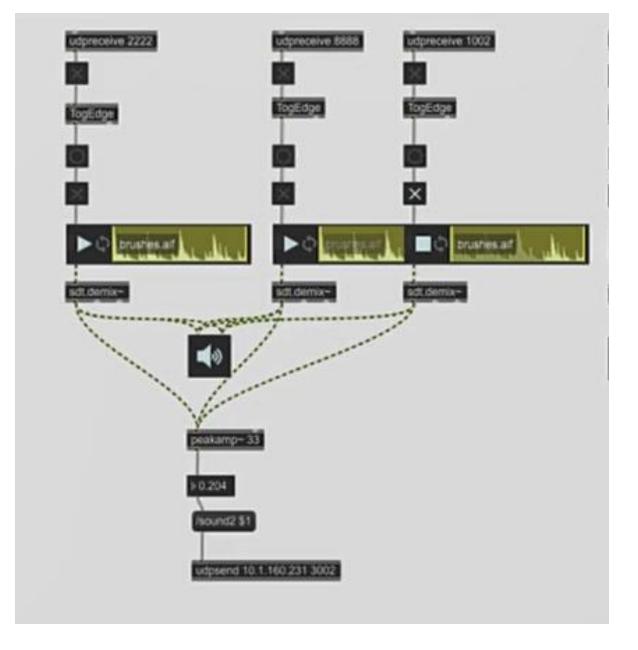


1. Random Melody Generator

- Ambient additive synthesis
- Speed of 360 BPM
- Basic background music in this project





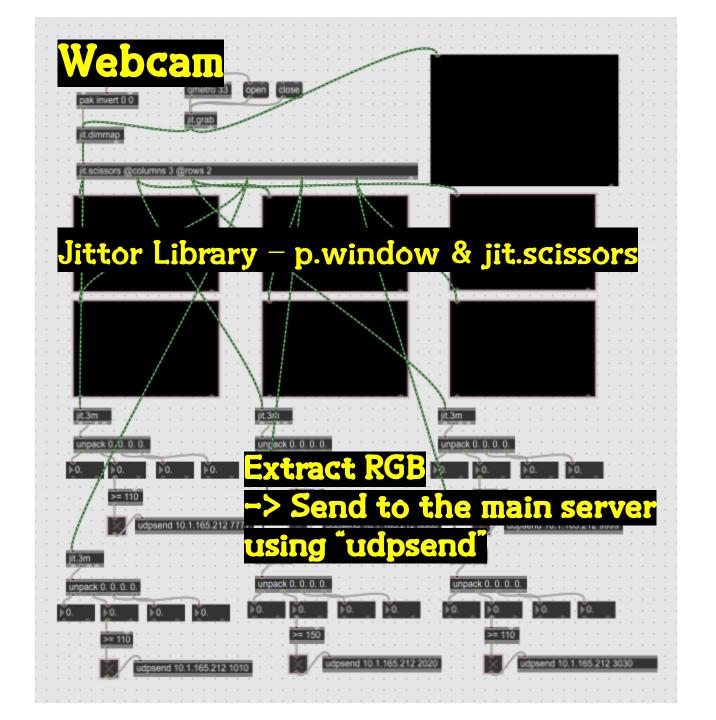


2. Camera Launchpad

- (1) Webcam
- Jittor Library
- Extract RGB

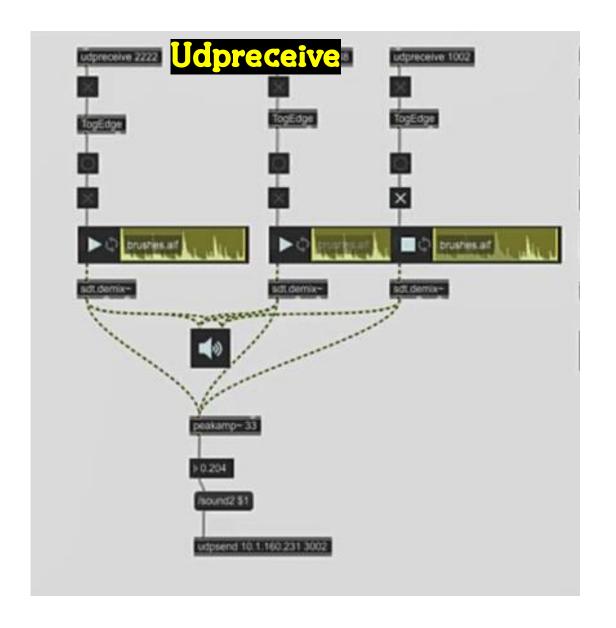
If the red color exceeds a certain level, the corresponding toggle is activated

- Send to the main server



2. Camera Launchpad

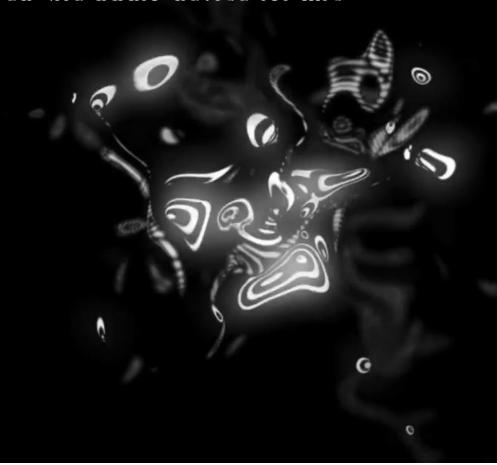
- (2) Main Server
- Receive by "udpreceive"
- => Plays the sound connected to that specific screen



3. Visualization with TouchDesigner

- To create more interactive & artistic atmosphere for the performance
- ⇒ Visualization of the generated sound
- CHOPS & TOPS create generative art using the amplitude and frequency from the input sound

- Idea: Connect Max MSP patcher -> audio input in TouchDesigner
- Demo Video: We used the audio device for mic



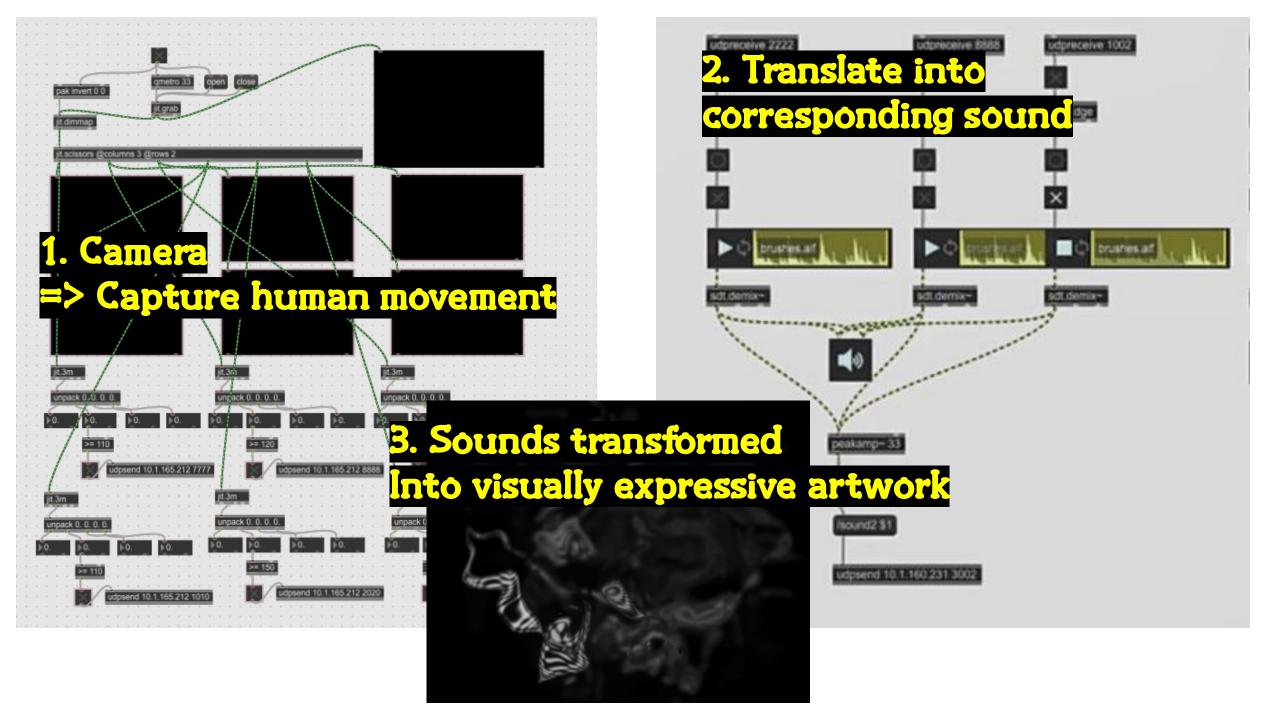
2. Intention of the Project

Inspiration: Loop-station Performances

"We want to create something that turn simple sound to a full-range combination of sights and sound."

Purpose

- 1) Explore the integration of Human movement + Sound generation + Artistic Visualization
- ⇒ Provide an experience of interaction & immersion (For individual)
- 2) Provide a platform to engage in arts and creativity through multi-sensory experience
- 3) Create opportunities for community by encouraging human interaction and connection (For society)







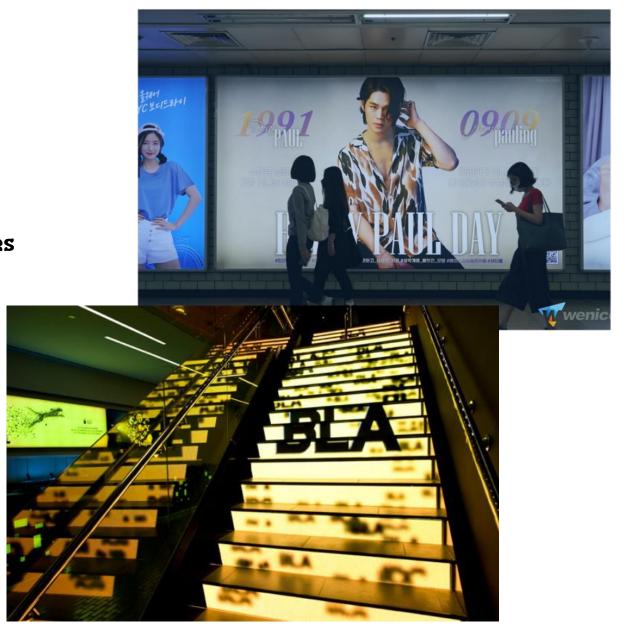
A Media Wall of a Subway

- Camera recognizes the color of people's hands & faces

⇒ Produce music when people pass by

- If we install it on the electronic boards of stairs

=> Can expect people use more stairs than escalators



Interactive Music Show

- 1. Increase the size of the project & operate on many computers
- 2. Create music in teams with multiple people on one computer=> audience-participating project
- 3. Audience can make their own sounds with the object around them => (e.g.) pet bottle, can

