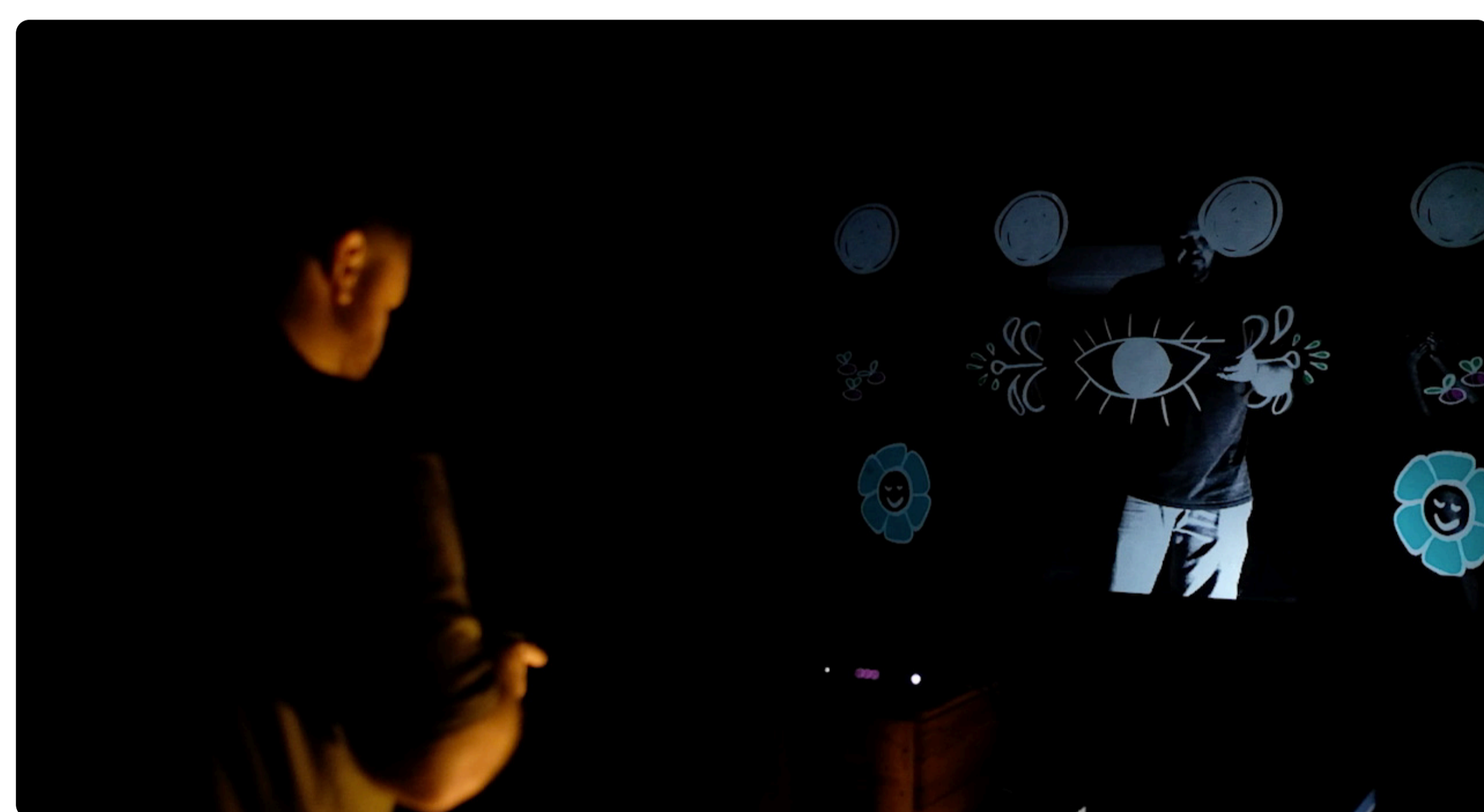


# Sketch Lab

AN IMMERSIVE MUSIC-MAKER FOR THE EYES, EARS AND BODY

**SKETCH LAB** is multi-sensory, immersive, beat-making experience. It delivers a playful and novel approach to the brief of 'Ludic' design, empowering its participants to use their body to create, layer and loop audio and visual elements. This project was inspired by the child-like joy found in music and rhythm-making, and the desire to make it accessible for all, regardless of technical skill. The overarching style of this experience, including that of the hand-drawn animations is that of playfulness and spontaneity. By the visuals being projected over an augmented version of yourself, you can be transported into this electronic music-driven world.

Sketch Lab asks you to use your body, hand gestures and an iPad interface to trigger sound-driven animations. Using your right hand, you can push the four buttons in space to loop J-pop-inspired vocals, whilst raising your hand will filter through energetic and exploratory audio effects.



Layer the effects for unique results and add a range of sounds by using the iPad interface. Music is so often felt through the entire body, and Sketch Lab allows you to control it that way, becoming an instant music producer or DJ/VJ experimenting with movement and sound throughout the play space.

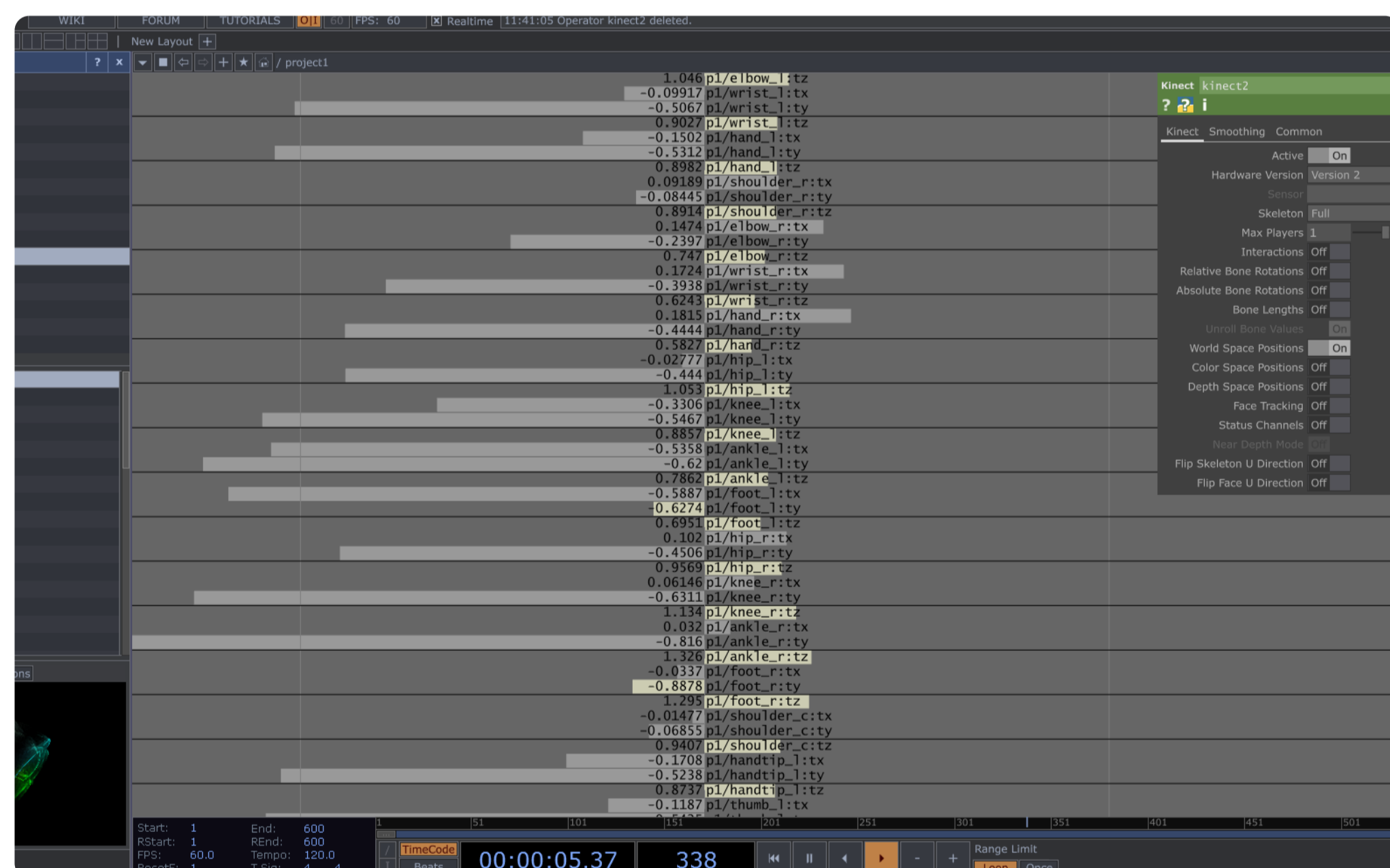
This interaction uses node-based programming to connect and control Ableton music production software, Kinect motion tracking camera and TouchOSC iPad interface. By tracking the body's positioning and using Python commands, the various audio and visual loops are triggered.

Enjoy this immersive, multi-sensory beat-making experience and see what sounds you can create.

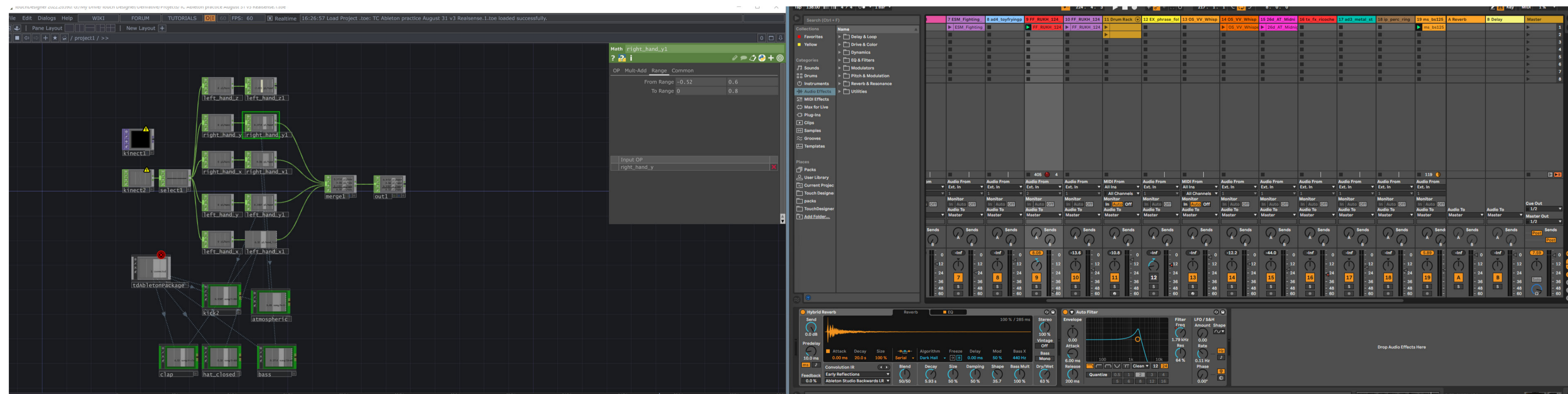
## TECHNOLOGY USED

Touch Designer  
Ableton  
Kinect camera  
TouchOSC  
Procreate

Ableton and Kinect are linked via Python and OSC to Touch Designer to send commands to each other. The skeleton tracking function on the Kinect turns your arm and body movements into numeric values which trigger and augment the sound and visuals you see. The iPad interface was created in TouchOSC and connected via OSC.



Touch designer data from Kinect motion tracking camera



Connection between Ableton music software and Touch Designer

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