

■ **PROJECT**

Vegetable Band

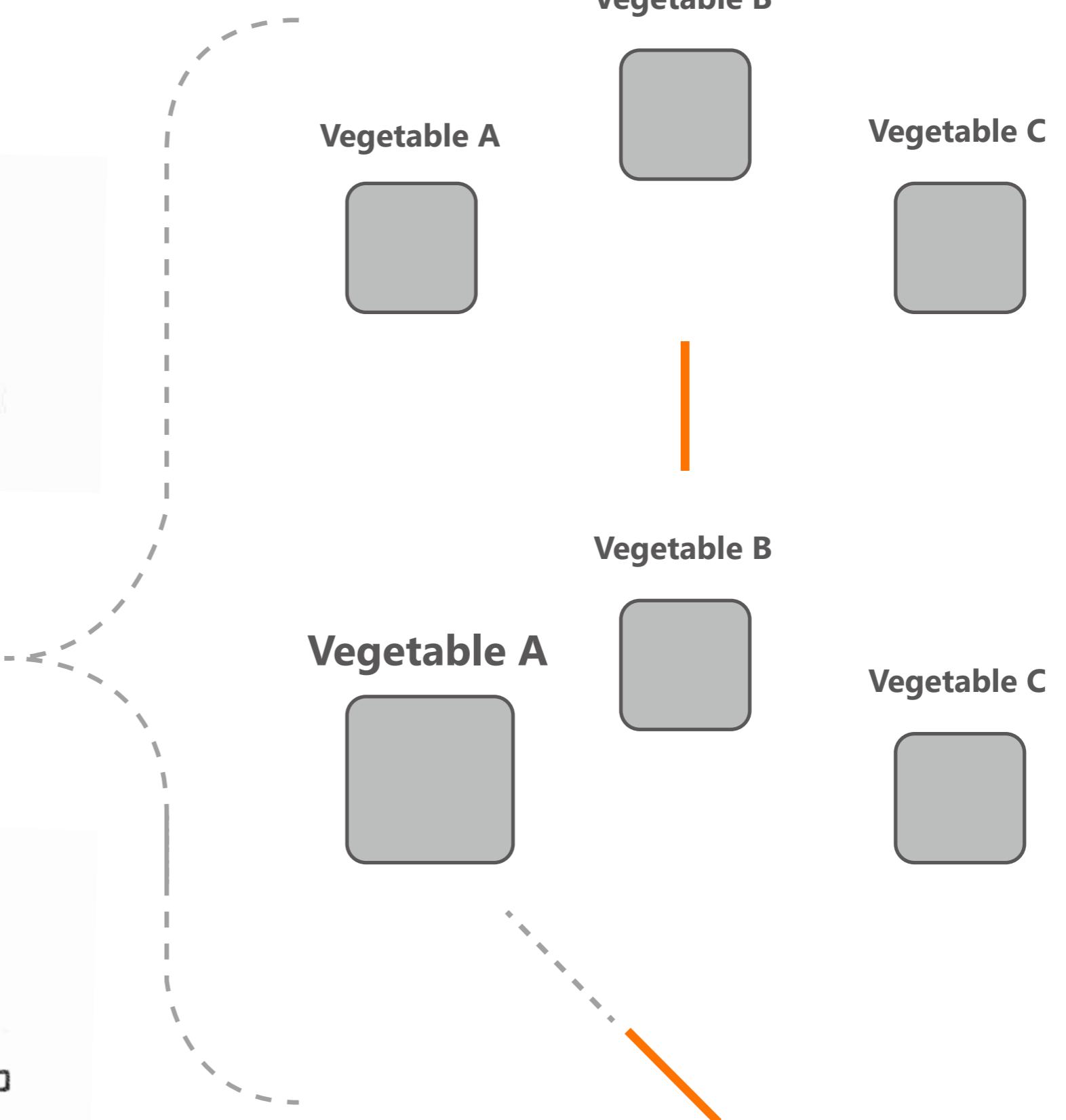
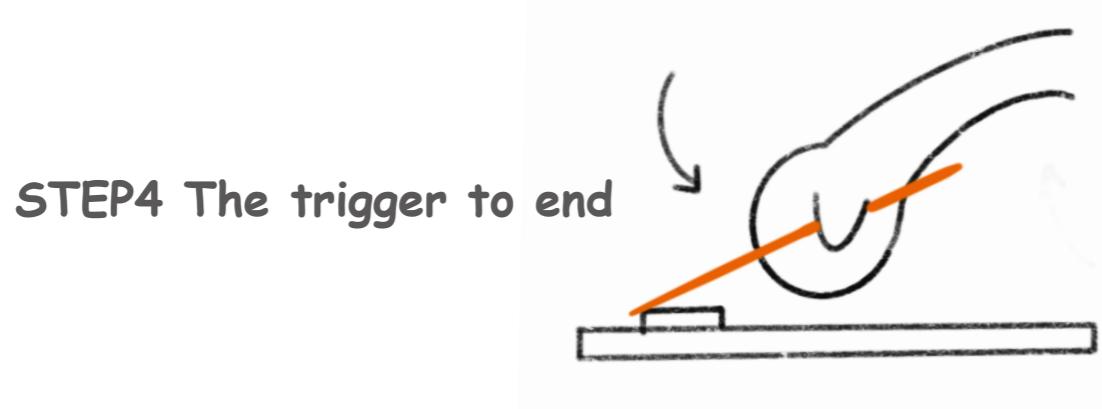
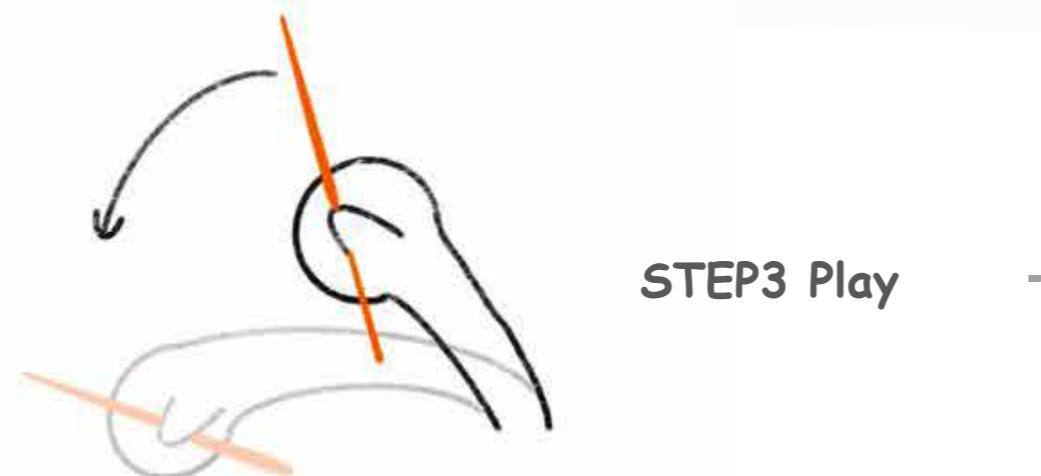
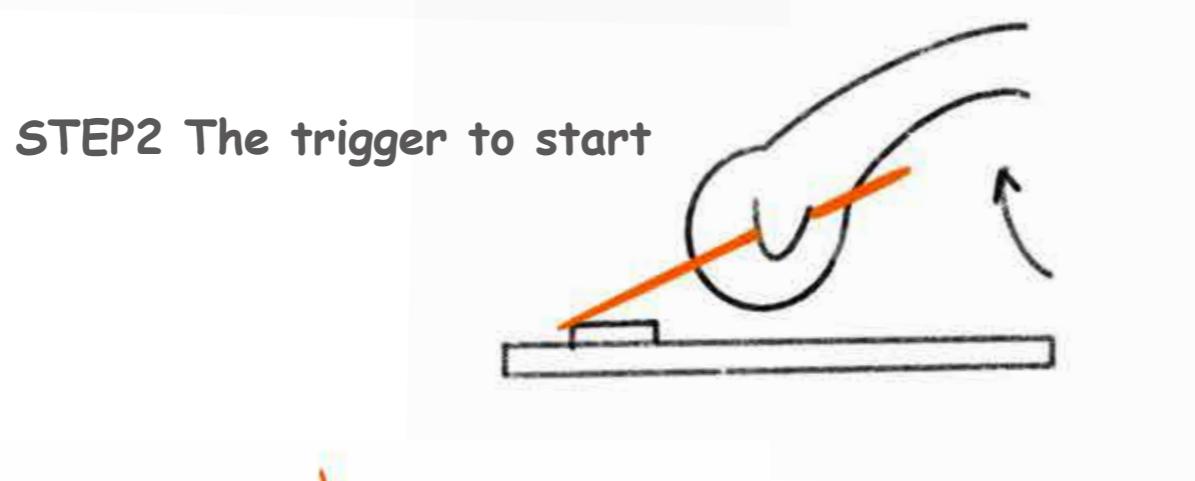
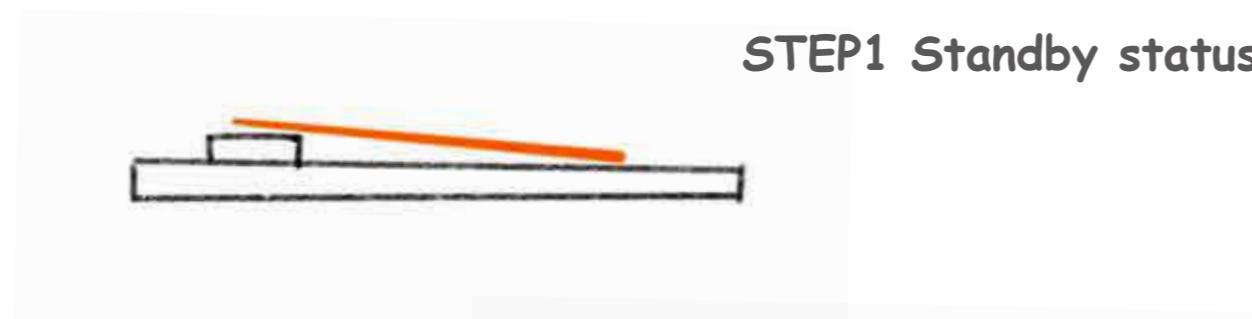
■ **NAME**

Nuo Liu , Yihan Wang

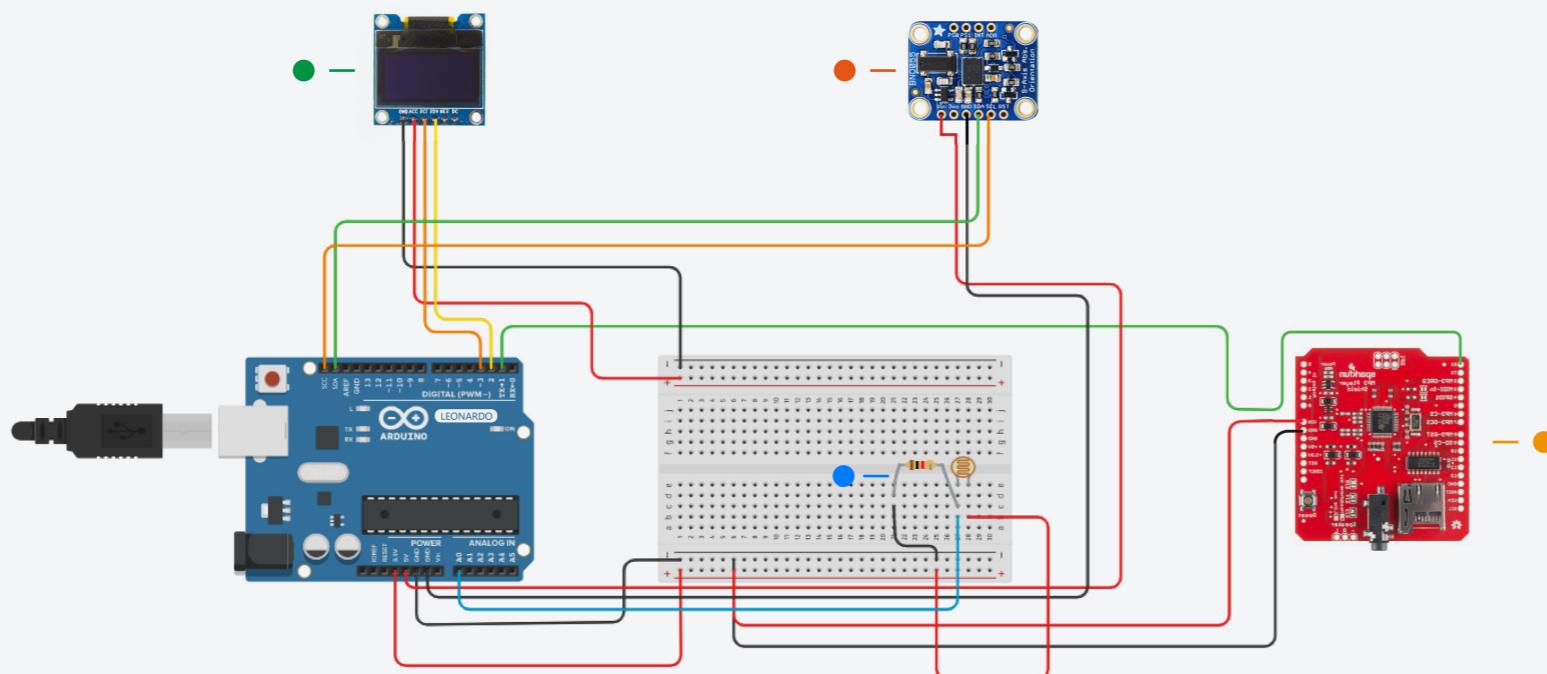
■ **DATE**

9 December 2022

CONCEPT

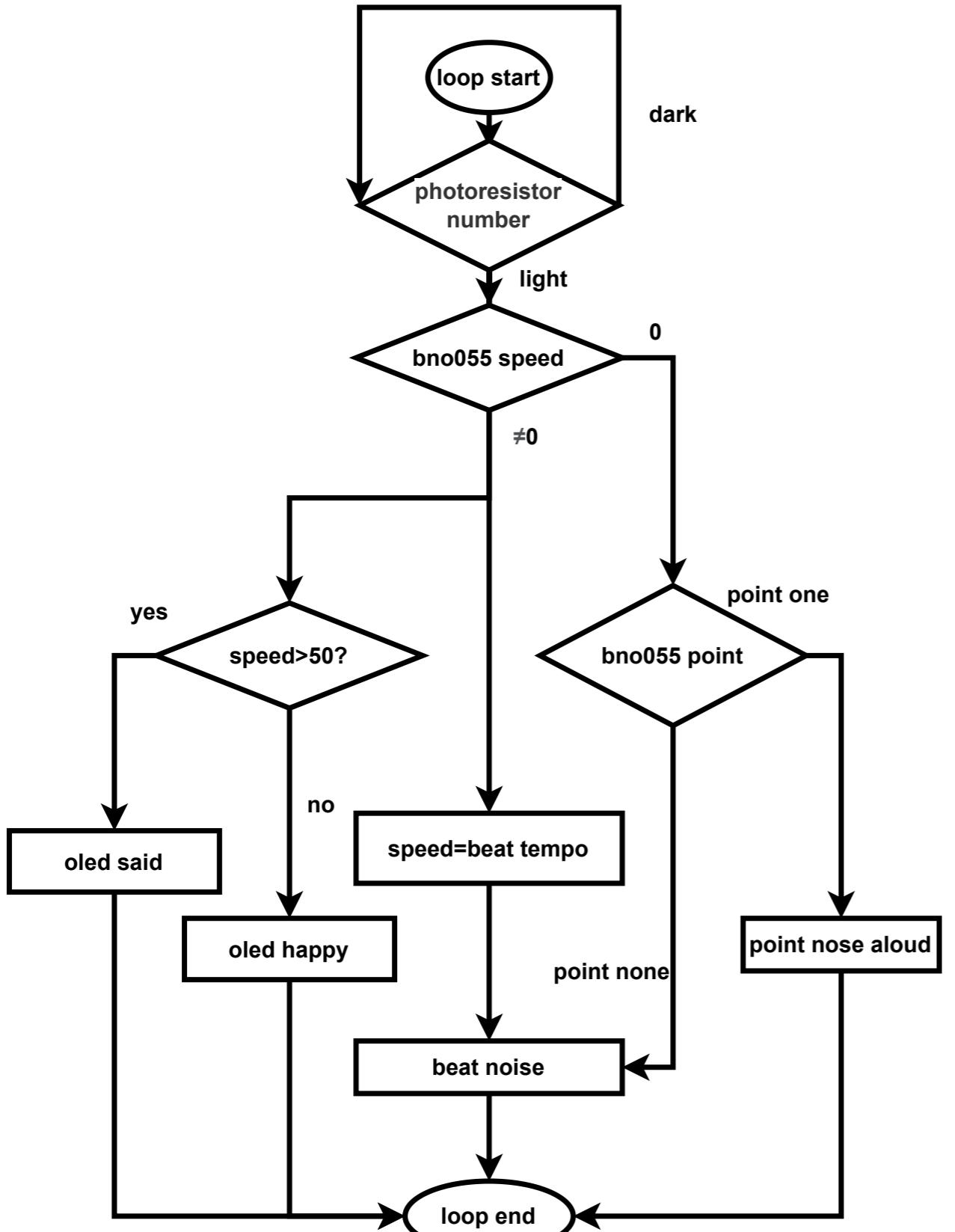


SENSOR CHOICE



- INPUT ONE PHOTORESISTORS
- INPUT TWO ADAFRUIT BNO055 ABSOLUTE ORIENTATION SENSOR
- OUTPUT ONE OLED 128 x 32
- OUTPUT TWO SPARKFUN MP3 TRIGGER + SPEAKER

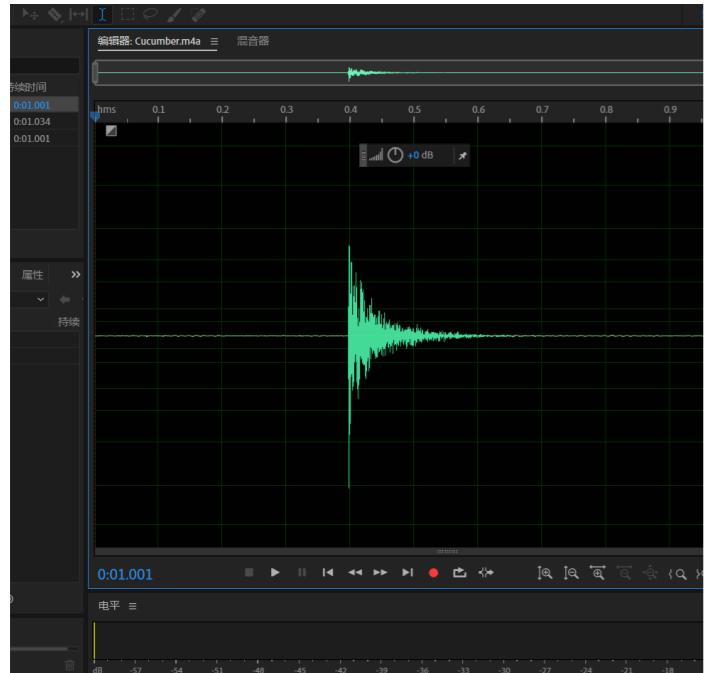
WORKFLOW & CODING



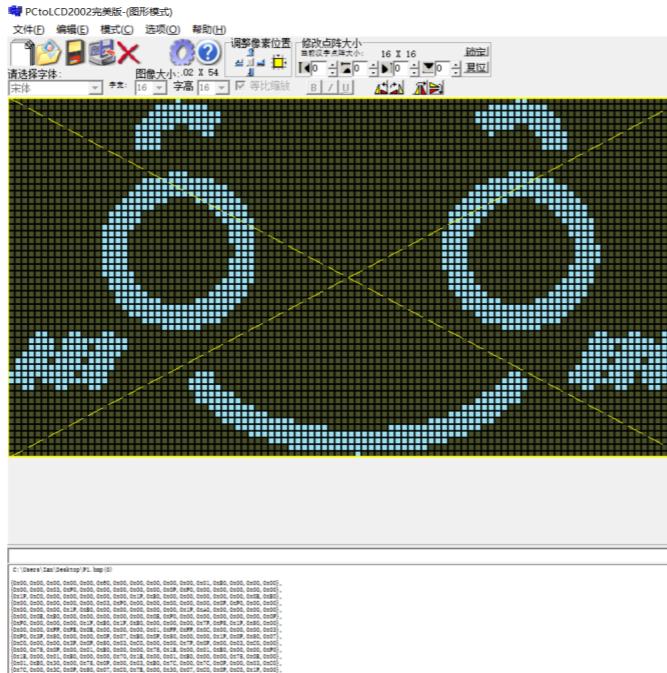
The screenshots show four different code snippets from the Arduino IDE:

- runqlai1.ino:** A setup function for the BNO055 sensor, including initialization and serial communication.
- runqlai2.ino:** A loop function that handles sensor events, displays orientation data, and plays audio files based on heading velocity.
- runqlai3.ino:** A loop function that handles sensor events, displays orientation data, and plays audio files based on heading velocity.
- runqlai4.ino:** Functions for drawing bitmaps on an SSD1306 OLED display, including 'testdrawbitmap1' and 'testdrawbitmap2'.

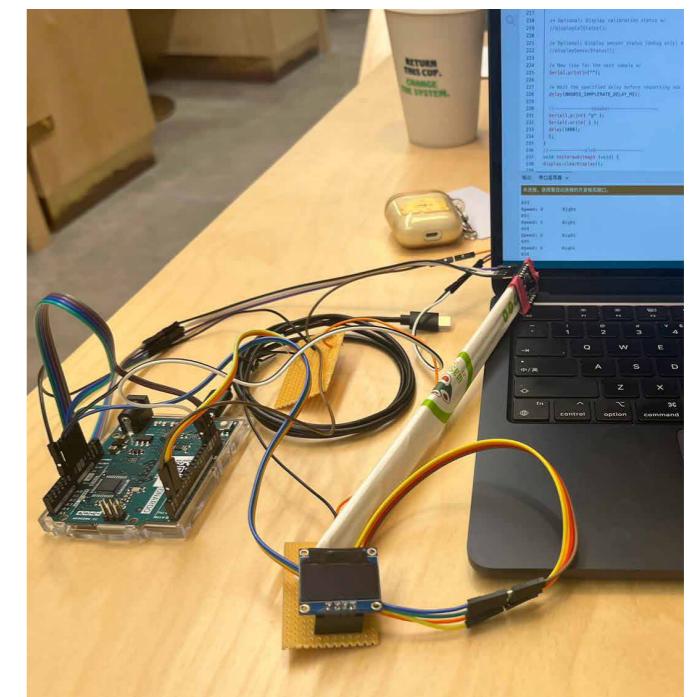
PROCESSING



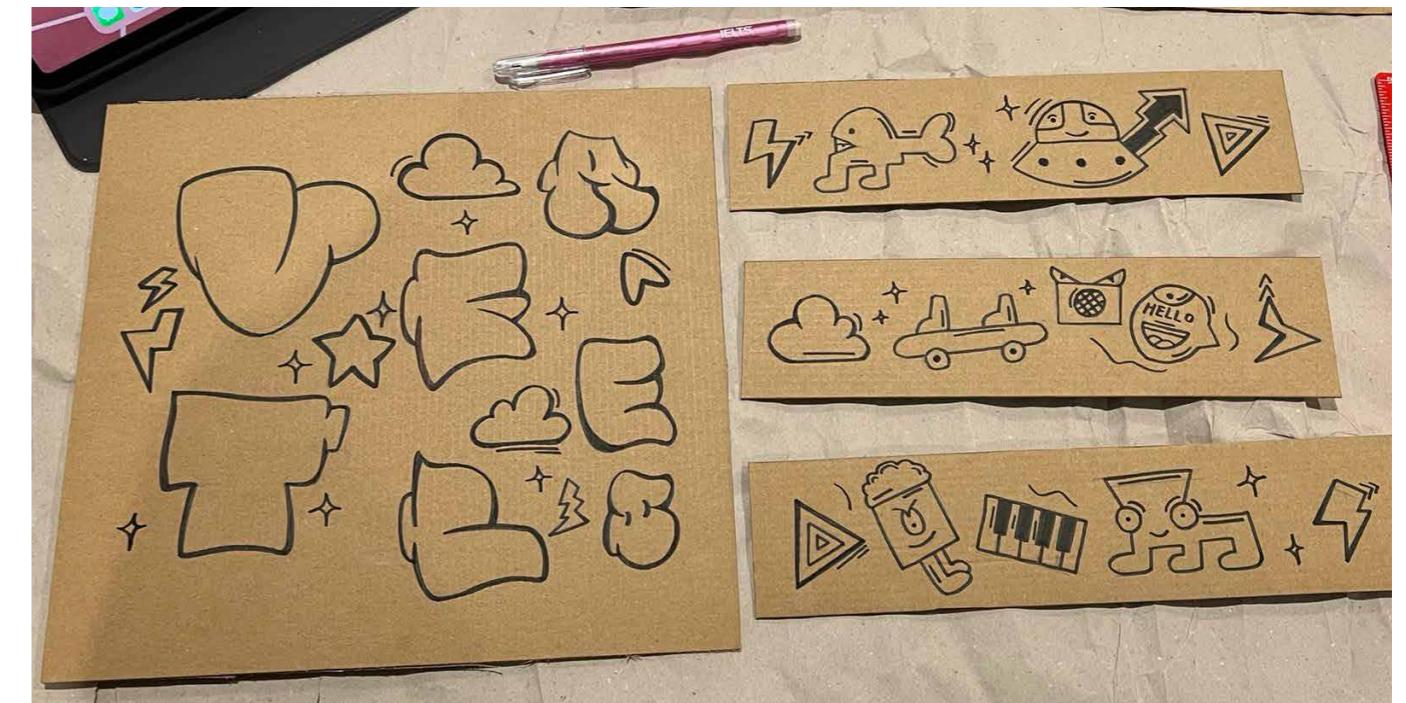
▲ Sound Editing



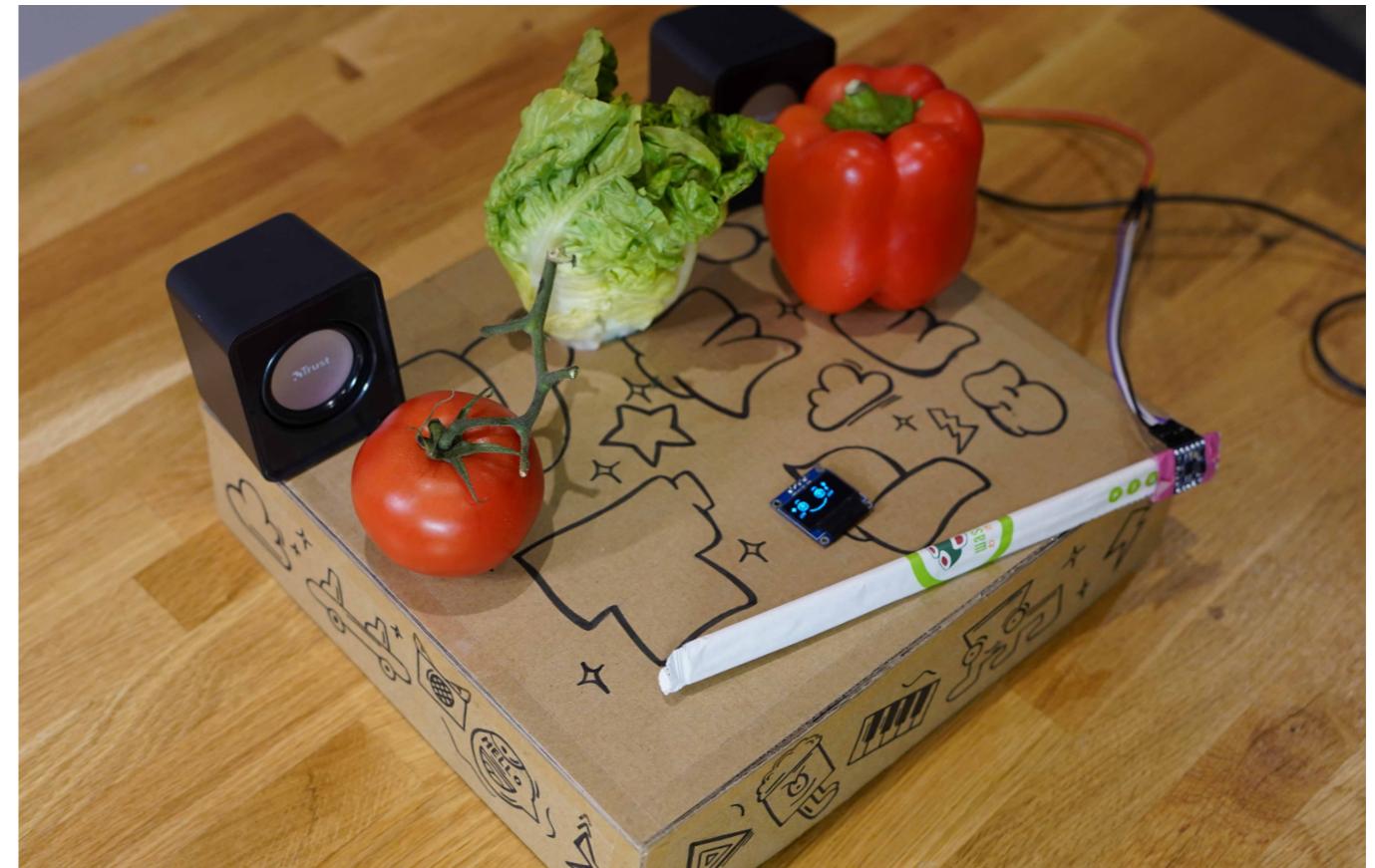
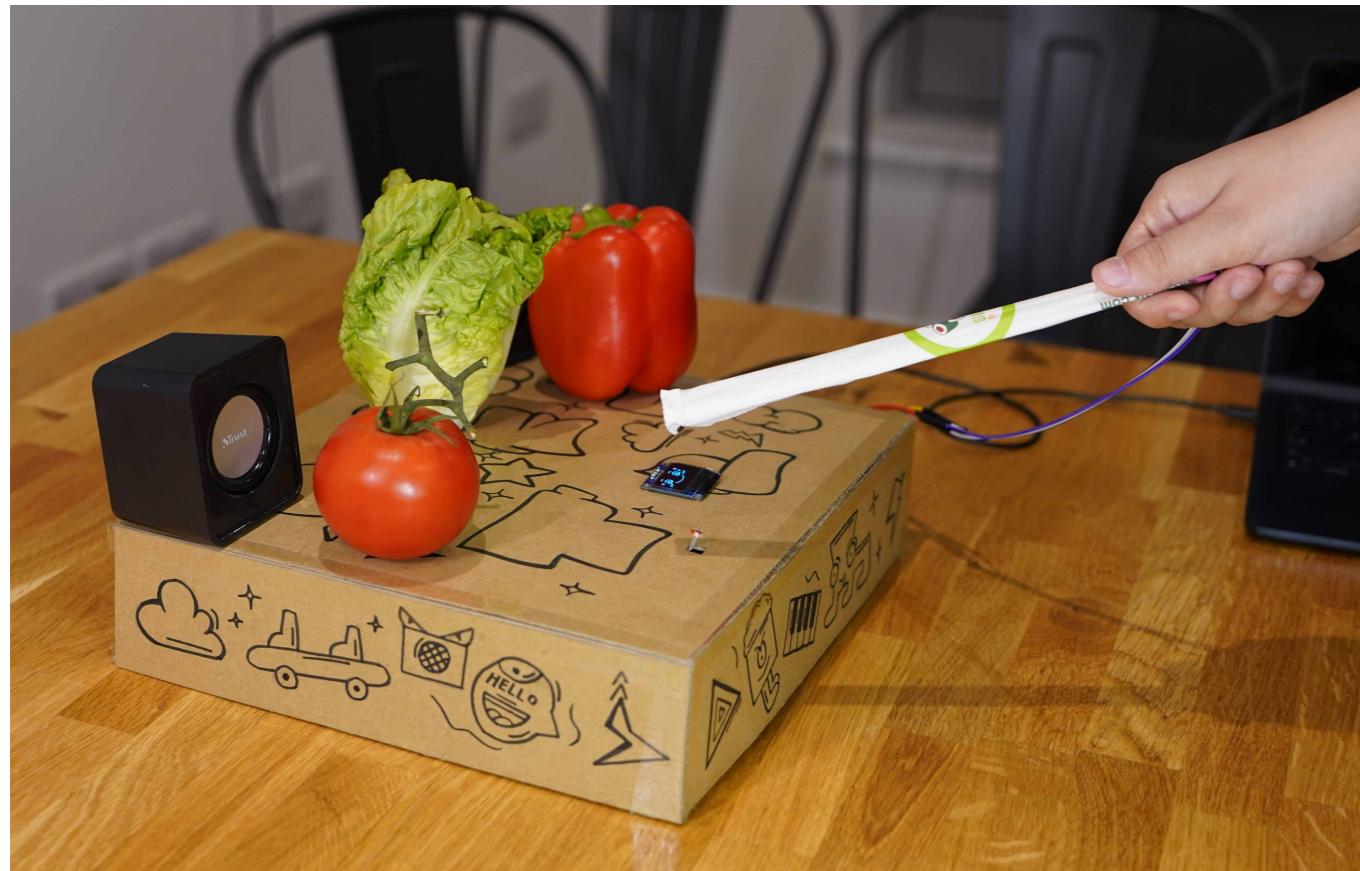
▲ Screen Mood Coding



▼ Sound collection



SENARIO



2022.12.09

presentation video : <https://youtu.be/ZfbaH7URHjA>

in github : <https://github.com/CarlyLiu/physical-computing>