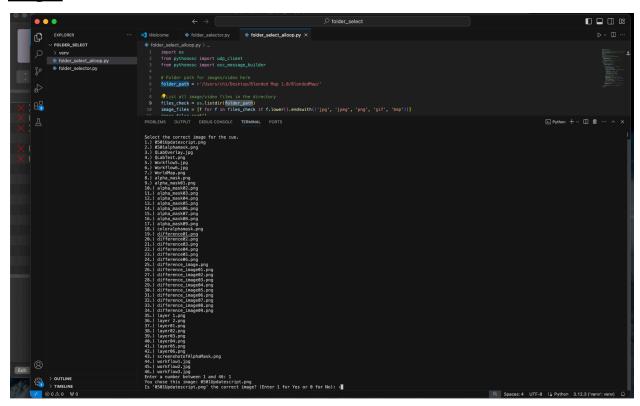
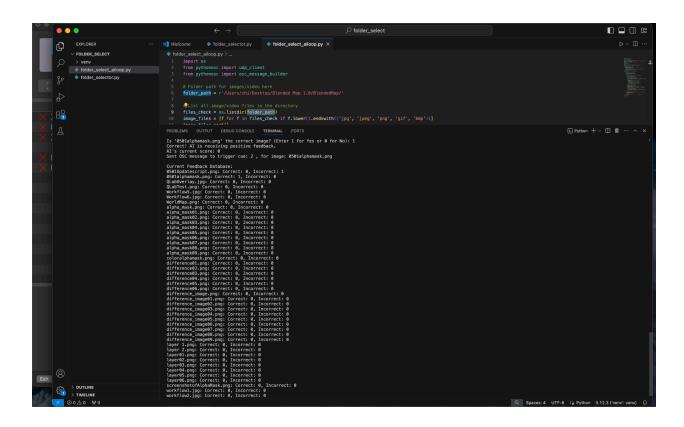
Edward Goonzalez Non-Linear Narrative December 11th, 2024

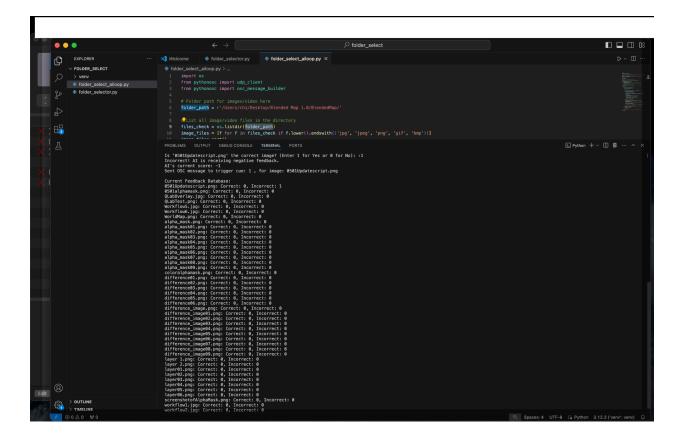
# Implement feedback loop system (AI training)

This Python script allows users to select an image from a specified folder while sending an OSC (Open Sound Control) message to trigger an event, such as a "cue", based on the selected image. The selected image will show that it has been selected from the number "cue". However, this program has an additional feature: an AI model that learns from user input. The model collects user feedback on selected images/videos from the specified folder, using a "good" or "bad" feedback system to improve its performance.

# **Images:**







# **Key Components:**

- Image File Path Folder: The script identifies image files (JPG, JPEG, PNG, GIF, BMP) within a specified directory (folder\_path).
- **OSC Communication:** The script utilizes the python-osc library to send Open Sound Control (OSC) messages. The script retrieves an IP address (osc\_ip) and port (osc\_port) to connect to a program like QLab.
- User Interaction: The script prompts the user to select an image by entering a number corresponding to an image in the list. The images are put into an array list.
- **OSC Trigger:** Selecting an image triggers an OSC message sent to a specific address to initiate an event (cue).

## **Description:**

### 1. Directory Listing:

- The script defines a specific directory path (folder path) containing image files.
- It lists all files within the directory and filters for image files with supported extensions (JPG, JPEG, PNG, GIF, BMP).

### 2. User Image Selection:

- The user sees a numbered list of image filenames.
- The user enters a number corresponding to their desired image.

#### 3. OSC Message:

- Upon image selection, an OSC message is sent to trigger an event (e.g., a cue).
- The message includes a pre-defined cue number (default: 1) associated with the selected image.

## 4. Repetition & Exit:

- After triggering the cue, the user can choose to select another image or exit the program.
- This process repeats until the user enters "n" to exit.

# 5. Error Handling:

 The script catches errors for invalid user input (numbers outside the list range) and prompts for a valid selection. Any other exceptions are caught as error messages.

# **Dependencies:**

- python-osc: Library for OSC communication.
- os: Library for directory operations (folder path).

### **Instructions to Run:**

- 1. Choose images/videos to provide feedback to the "AI" and start the program.
- 2. Modify the folder path variable to point to your image directory.
- 3. Update osc\_ip and osc\_port to match your OSC server configuration (From the QLab settings).
- 4. Run the script.
- 5. Exit the program when done.