

Evaluation: Implementation

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## Problem statement

- Find a metric to see how similar image and audio pairs are
- In order to see how our model is performing



## **Progress**

#### Last week's Issues:

 IMSM still produced odd issues where scores were not as expected for MelBench Data set

### This week's progress:

- Found CLIP and CLAP scores for our model output
- Preprocessed our model output



# Implementation Details

- Takes in a folder of images (for 1 video there were about 74 generated images)
- Takes in an audio file, and list of text inputs (from the prompts)
- Outputs CLIP and CLAP similarity between each line of text to each image
  - Assumptions: prompts generate images in order

### Tasks yet to complete:

- Normalize scores

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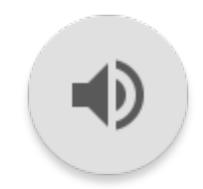
## Examples

Low CLAP score: -4.809

- "A man is sitting at a desk, writing a letter. He is wearing a suit and tie and looks very serious."

High CLAP score: 3.364

- "Slow, classical, violin, cello, flute, oboe, sadness, heartbreak, love, man, woman"





# Examples

#### Low CLIP score:

- "Slow, calm, peaceful, relaxed, meditative, classical, slow-paced"



- "A man is sitting at a desk, writing a letter. He is wearing a suit and tie and looks very serious. B"







## Next Week

- Normalize CLIP and CLAP scores
- Gather average score throughout the video
- Pipeline is little complicated (preprocessing occurs separately from score calculation)