

Summary of Project Meeting

Artificial Sentence – Orch OR

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Today, we had a productive discussion about our project. Here are the key points:

1. Abandoning the Book Guide:

- We decided to stop using the book as our guide because it was causing more confusion than clarity.

2. Problem Statement:

- We aim to visualize consonance and dissonance in signals, starting with sounds.

3. Hypothesis:

- We believe it is possible to identify consonant and dissonant signals, as well as differentiate noise from music, through visual diagrams.

4. Approach:

4.1. Deconstructing Signals:

- We need to learn how to properly deconstruct a signal using wavelet transform.
- We will read the "Wavelet tutorial" by Robi Polikar to understand this method better.

4.2. Reconstructing Patterns

- We will read the current literature on musical consonance to understand what is known about consonance and dissonance.
- Reviewing works of Terhardt and Helmholtz.

5. Broader Application:

We hypothesize that this visualizer will detect consonance and dissonance in any type of signal, potentially mapping beauty and harmony in data. This includes signals like EEG/ECG and even pictures.