Welcome to MeloMusic

Problem Statement

 Our project MeloMusic hopes to solve the issue of music transcription for music that has yet to have a public score available to listeners.

Technical Challenges

- Frequency to Note Conversion
- Compilation and dependencies
- Variability in tempo
- Vectorization of .wav files

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Related Work

Klang.io - Al Paid Music Transcription

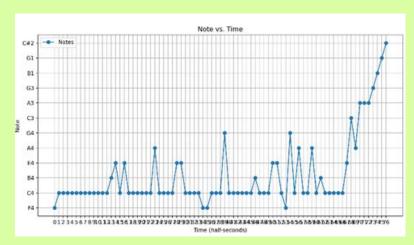
Sebastian Murgul and Michael Heizman - Work on Transcribing Guitar Strumming

Ian VonSeggern - Music identification with pydub

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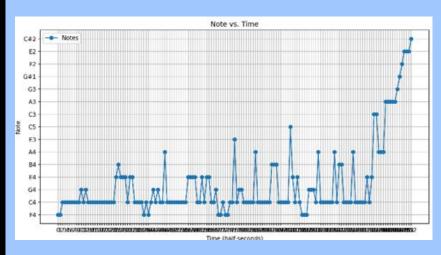
Results

In the trail with segmentation by seconds, there are some notes that were not caught by the system.



Seconds

The trail with half seconds catches some of the points at which averages were muddied and corrects them.



Half-Seconds

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Broader Impact

- USES:
- Useful for improving listener QoL within music streaming services
- Useful for independent listeners who wish to avoid large fees for similar applications
- LIMITATIONS:
- Identification upon rapidly changing music tempos
- FUTURE:
- Adjustable slider for frequency of split so listeners can fine tune the transcription to their chosen tempo.



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