

Recognition of Jazz Song Names from Audio

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West Coast Blues

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Chorus 1

6

11

16

20

Harmonic tags can be likened to part-of-speech tagging in NLP

- Chord tone
- Semi-tone approach note
- Enclosure
- Anticipation/Prolongation
- Ninth
- Eleventh
- Sixth / Thirteenth

Finding

Jazz chords can be represented through a process of vector embedding, and chord progressions can be constructed from them as piecewise linear paths in the latent space. I demonstrated this was a useful mechanism for comparing chord progressions and for jazz song contrafact detection.

Question

Jazz is a genre that makes free use of improvisation in both melody and harmony, and this makes identifying jazz tunes from audio a difficult problem. I conjecture that symbolic harmony (chord progressions) can be used as representative fingerprints of songs that can be compared to audio data and successfully used for identifying song names.