



Near Real Time Music Analysis

Nick Cooper, Jacob Battipaglia,
Anshul Doshi, Brian Qiu



The Team



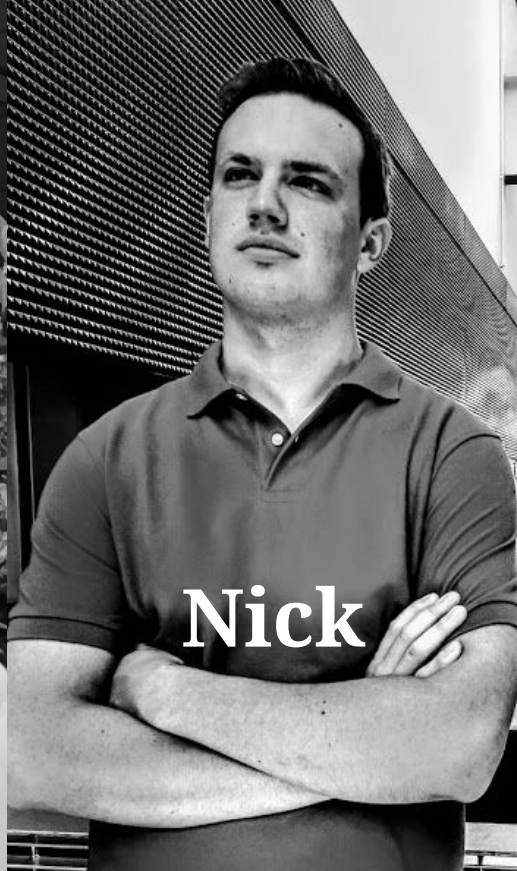
Jacob



Brun



Anshul



Nick

Objective

To create a program that suggests musical phrasing to aid in real time composition.

1. Transcribe **sampled** audio \Rightarrow Note Data
2. Create models based on *original composition*
3. Use *Machine Learning* and *Natural Language Processing* to generate short term and long term suggestions

Progress this week

1. Continued to work through tensorflow tutorials
2. Started playing around with tensorboard
3. Researched **Cognitive Science** in Music & different approaches
4. Played around with basic digital audio synthesis

Problems faced

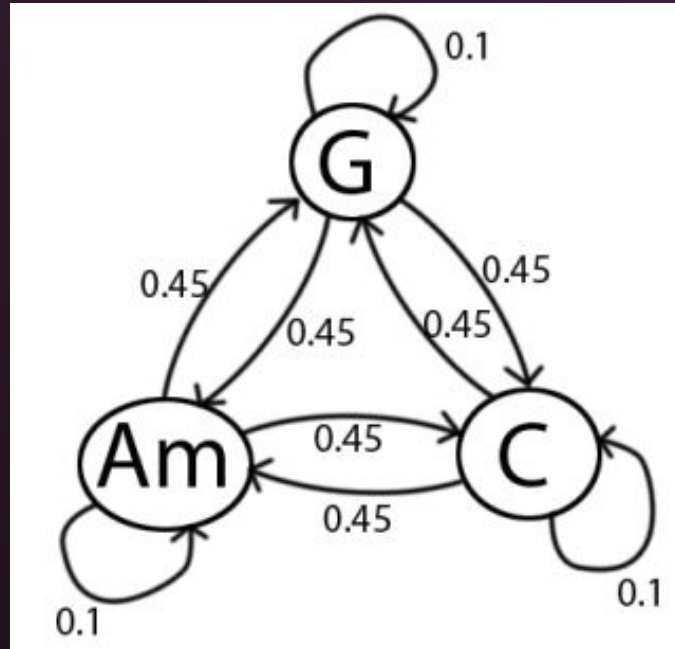
1. Intel mkl was not detected by tensorflow
2. Tensorboard does not add summaries of scalar tensors

Natural Language Processing + Music

- We investigated some previous research and the applications of NLP for musical composition

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Hidden Markov Chains



Plans for next week

1. Fix errors with python and tensorflow
2. Create and run a simple Long Short-Term Memory (LSTM) model
3. Data driven markov music

질문들

