Midi creation

"Without music, life would be a mistake" — Friedrich Nietzsche

Inspiration

Im mostly inspired by this great video of Colin Morris.

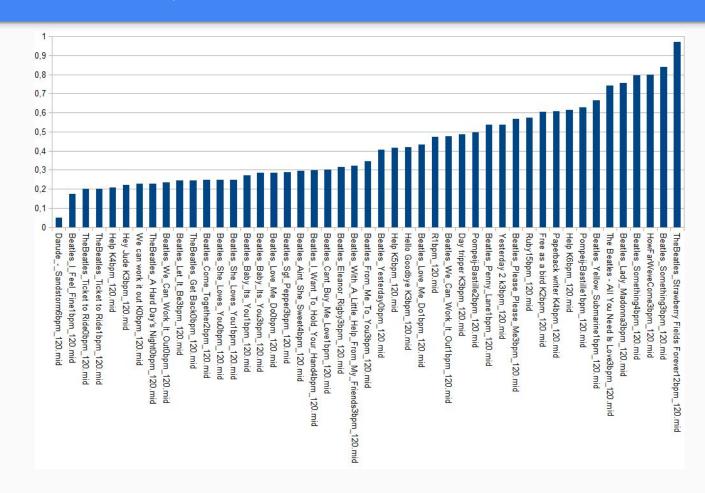
He compares different lyrics and their complexity.

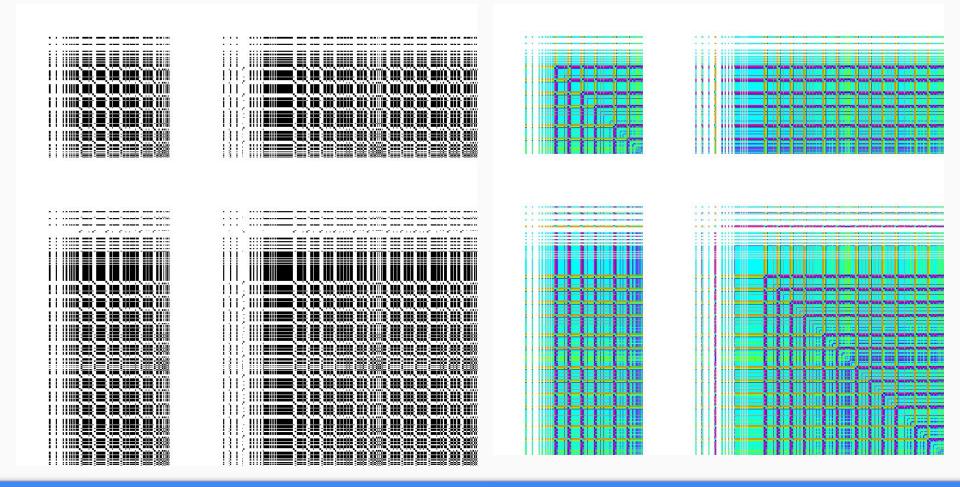
Also he creates similarity matrices. I want to do the same, but with melodies.

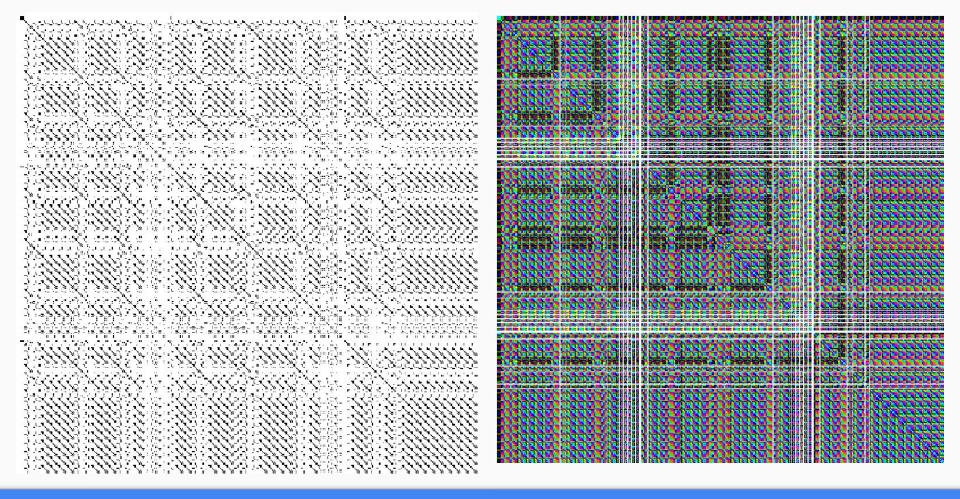


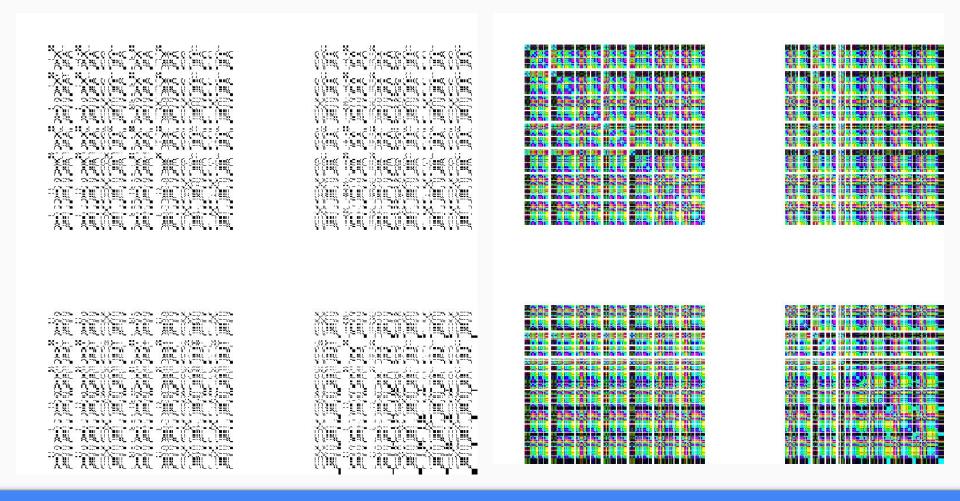
Pop Music is Stuck on Repeat | Colin Morris | TEDxPenn

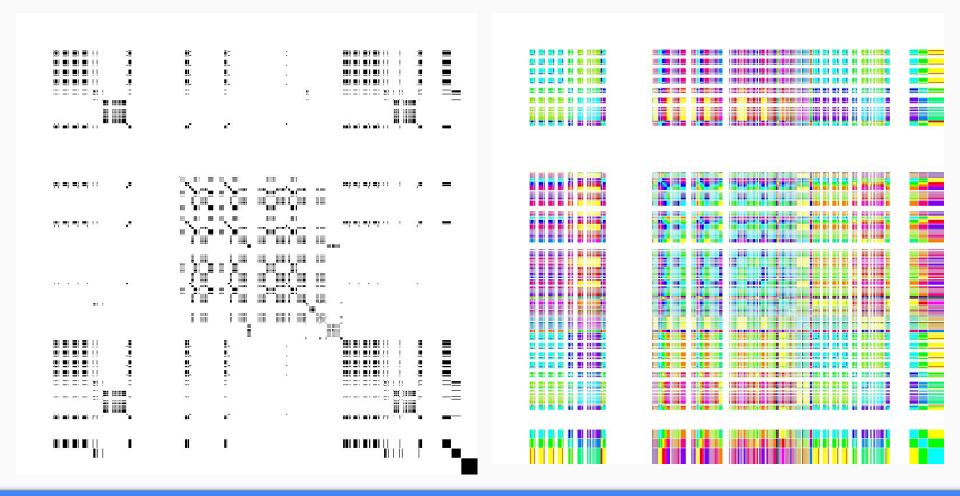
Midi file compressibility comparison

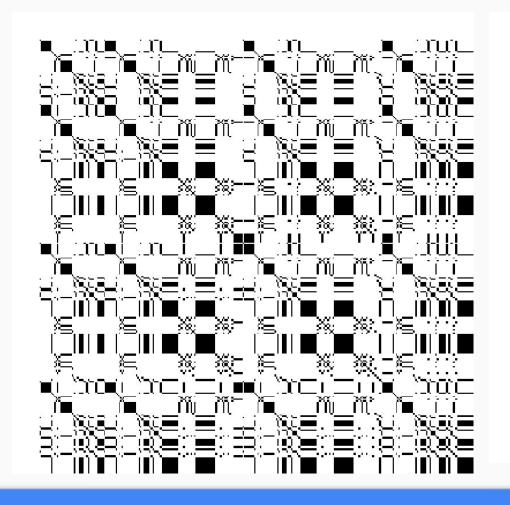


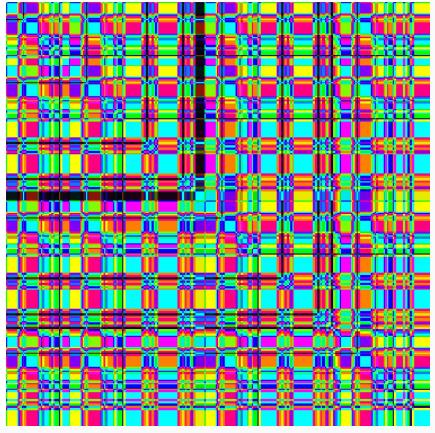




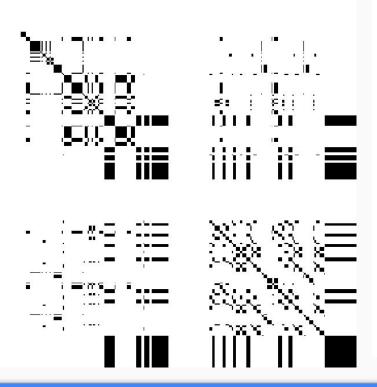


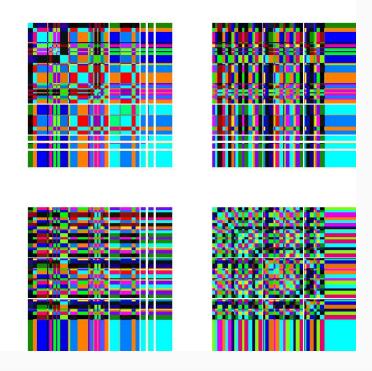












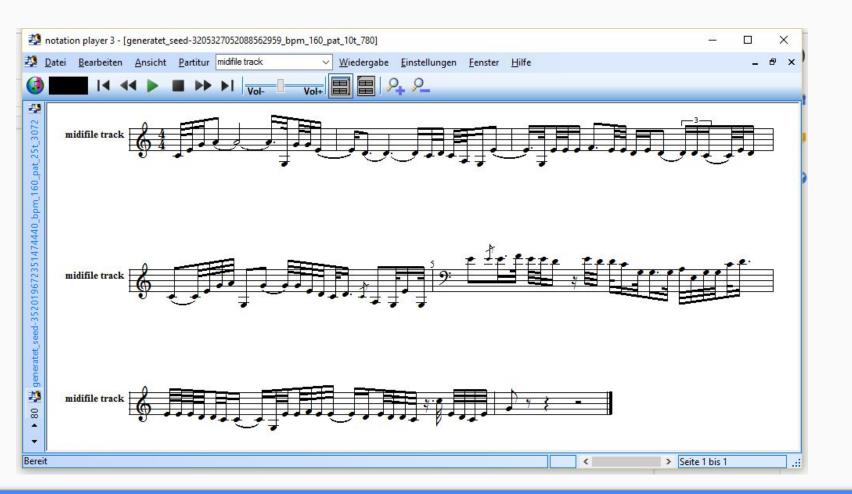
Creation

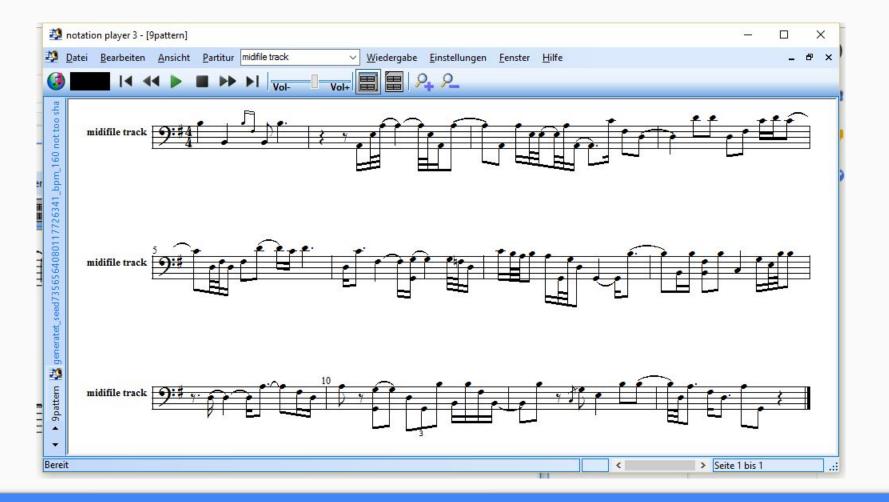
- The melodies are processed to fill two probability matrices. One for rhythms, one for melody (pitch).
- N-grams.
- Only interesting thing for this pitch: Hashmap of List of Integers works.
 Hashmap of Array of Integers don't.
- It former compares the content, later the identity (memory location)

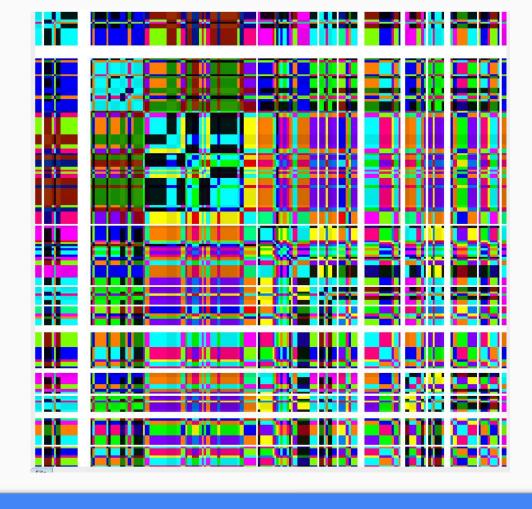
It Works...

Sometimes...

If you like Jazz







Now I close the slides and play the last piece