Music Generation w/ Artificial Intelligence Kanye West Vivek Sharath

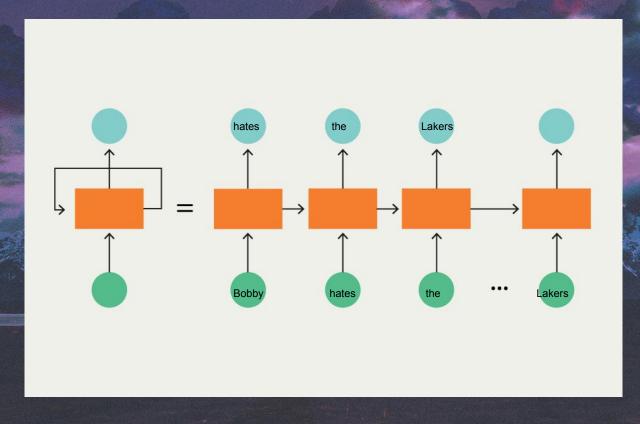


- Music Generation w/ RNN
- The Louis Vuitton Don
- My Data
- Notebook
- Results
- Future Endeavours



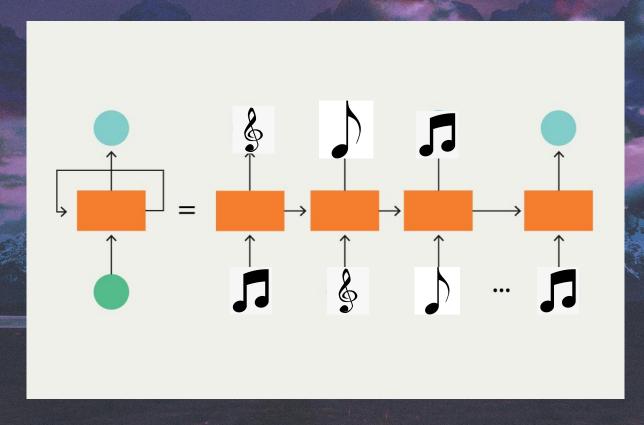


Music Generation with RNN



I HATE BEING BIDOLAR AMOSAMA STI

Music Generation with RNN

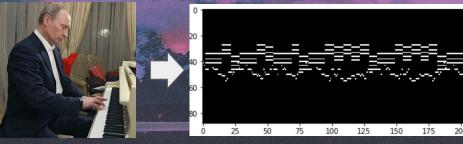


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Music Generation with RNN

- Midi Files
 - Musical Instrument Digital Interface
 - Sequential Data



Arti	ist	Pla	ayi	ng
	Pi	and)	

Raw Midi File

10	t0	t1		t91		tn
0	1	1	1	1	1	1
1	0	0	0	0	0	0
2	0	0	0	0	0	0
	0	0	0	0	0	0
69	1	1	1	1	1	1
	0	0	0	0	0	0
88	0	1	0	0	1	0

 $88 \times t_n$ Matrix $t_n = song length$

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Kanye West Discography







Online Audio to MIDI Converter





Use this tool to convert audio files such as mp3, wav, ogg, m4a, and many other formats to MIDI. Note: The quality of the resulting MIDI file depends largly on the input music. The MIDI file quality can range from good quality to unusable. But it is great fun to listen to the result in either way. If you are logged in you can opt-in to get notified by email once the conversion is finished.

The conversion is complete. You can now download the converted file:

- Download 1
- Download 2
- Convert another file





Westworld: Runaway - Kanye West [Piano Cover] Dropbox Convert next **CONVERT NOW**

YouTube to Mp3



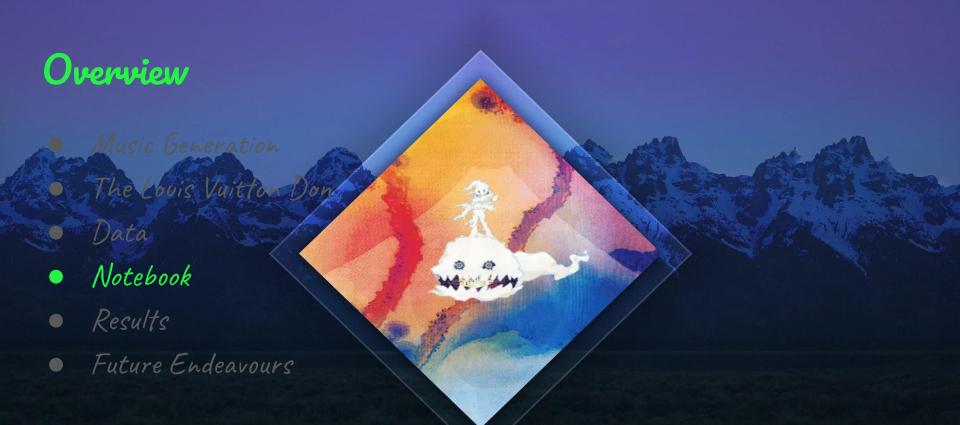


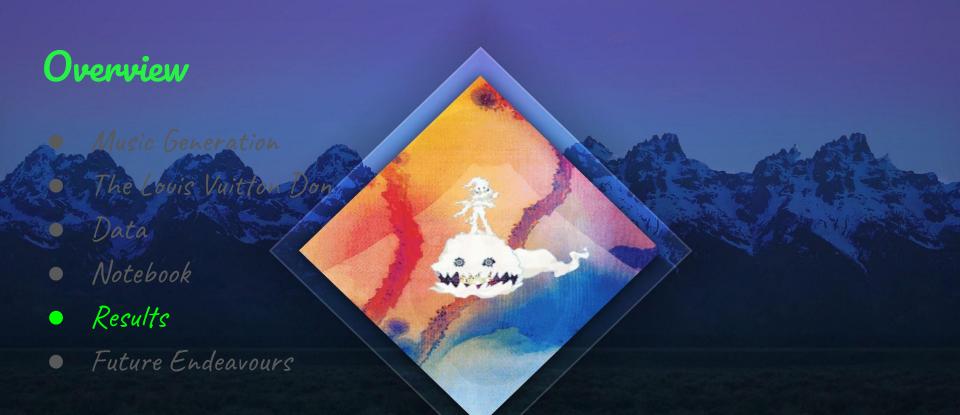
- Kanye+West+-+Saint+Pablo+4K+Piano+Cover.midi
- Father Stretch My Hands Kanye West Piano.mp3.mid
- Kids+See+Ghosts+-+Reborn+4K+Piano+Cover+60fps.midi
- Kanve+West+-+Ghost+Town+ft.+Kid+Cudi+&+070+Shake+The+Theorist+Piano+Cover.midi
- Kanye Alien Piano Cover Kid Cudi Migos Young Thug (Yandhi).mp3.mid
- Kanye+West+ft.+Rihanna+-+All+Of+The+Lights+--+pi...o+tutorial+piano+lesson+[Synthesia+100+speed].midi
- Blame Game Kanye West (Piano Solo).mp3.mid
- // Kanye+West+-+Closed+On+Sunday+(HQ+piano+cover).midi
- The College Dropout Old School Kanye West Piano Medley.mp3.mid
- Heartless Kanye West (Piano Solo).mp3.mid
- Westworld+Runaway+-+Kanye+West+[Piano+Cover].midi
- // highlights.midi
- Kanye+West+-+Flashing+Lights+(Piano+Cover).midi
- Kanye+West+-+Ultralight+Beam+The+Theorist+Piano+Cover.midi
- Kanye+West+-+Heard+'Em+Say+Piano+Cover.midi
- STRONGER+Kanye+West+on+piano.midi
- lostintheworld.midi



- reels_simple_chords_234.mid
- hpps_simple_chords_6.mid
- ashover_simple_chords_24.mid
- hpps_simple_chords_31.mid
- jigs_simple_chords_49.mid
- reels_simple_chords_92.mid
- jigs_simple_chords_122.mid
- ashover_simple_chords_1.mid







Results

Parameters

- Transfer Learning
 - Help | No Help
- Epochs
 - o 1 | 7 | 15 | 20 | <mark>25</mark> | 30
- RNN
 - LSTM | GRU
- Hidden Size
 - o 206 | 512 | 1024 | 2048
- Clip
 - 0 1 | 2 | 3 | 4
- Dropout
 - Alpha | Regular



Insights

- Transfer Learning
 - Noticeable Improvement
- Epochs
 - Varying Results
- RNN
 - LSTM didn't do well
- Hidden Size
 - 512 was Sweet Spot
- Clip
 - Had impact
- Dropout
 - Varying Results

Future Endeavours

• BEATSSSSSS (demo)

Improving DataQuality

Transfer Learning

Reducing Variability

One Model per Album

Improve understanding

Parameters