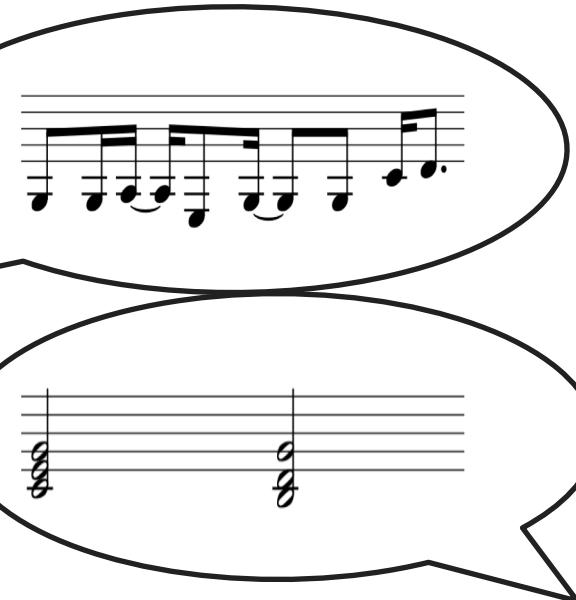




HARMONIFAI

Laila Sprejer
Dec. 2018

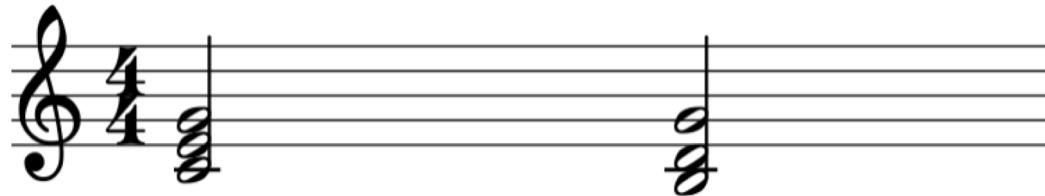


Music as a sequence



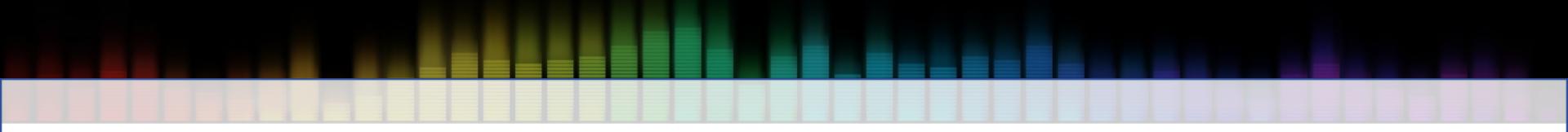
Melody

Sequence of notes



Harmony

Sequence of chords



seq2seq



Order matters

LSTM

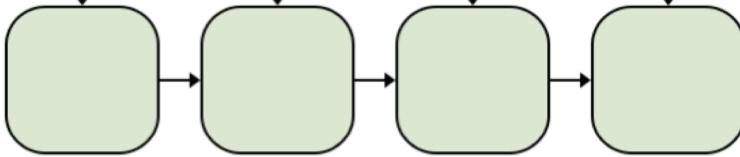


Memory to
contextualize the
notes

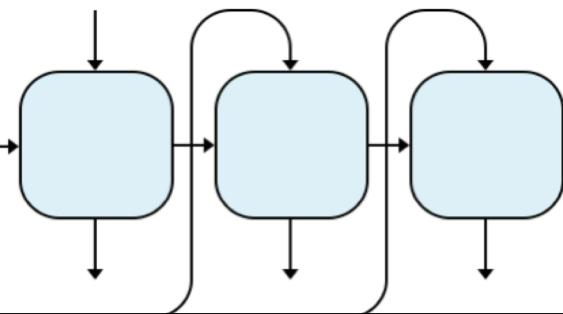
Melody



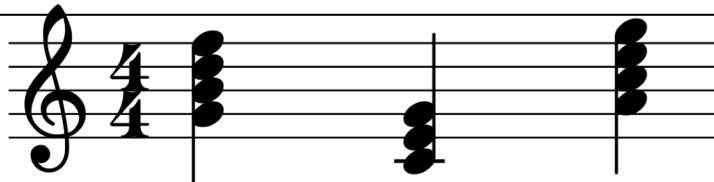
Encoder



Go!



Decoder



Harmony



Music processing

- Music21 (python library for midi files)
- Include the note duration in the encoding
- Simplify chords to reduce the number of classes

Training the model

Post processing

150.000+

MIDI songs

3.000.000+

measures

Prioritize
diatonic
chords



Watch the Demo

Thank you!



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