

Piano Cover Generator & Visualizer

by Winfred Wang



ArtML Project 4

Background

- Solo Project
- Senior in BXA (Fine Art in Piano Performance)
- First ML Class

Summary

- Improve result quality, find a better technique/plan to generate piano music
- Take any modern song => Generate piano version/cover midi & visualizer
- Used Spleeter, MT3: Music Transcription, Midi to Sheet Music, MidiEditor,
VQGAN + CLIP/AudioCLIP (for more controlled images)
- Performed the piano covers I generated!

Results

See You Again by Tyler, the Creator



Piano Cover:



SeeYouAgain Piano 1



Results



Results

Where This Flower Blooms by Tyler, the Creator



Piano Cover:



Visualizer:



Results

WhereThisFlowerBlooms Piano 2

The image displays a musical score for a piano piece titled "WhereThisFlowerBlooms Piano 2". The score is written for two staves, Treble and Bass, in a key signature of three flats (B-flat, E-flat, A-flat) and a 4/4 time signature. The notation includes various musical symbols such as notes, rests, and chords. The score is organized into four systems, each consisting of a Treble staff and a Bass staff. The first system shows the initial melody and accompaniment. The second system continues the piece with more complex chordal structures. The third system features a more active bass line. The fourth system concludes the piece with a final chord. The notation is clear and professional, suitable for a printed score.

Results



Results

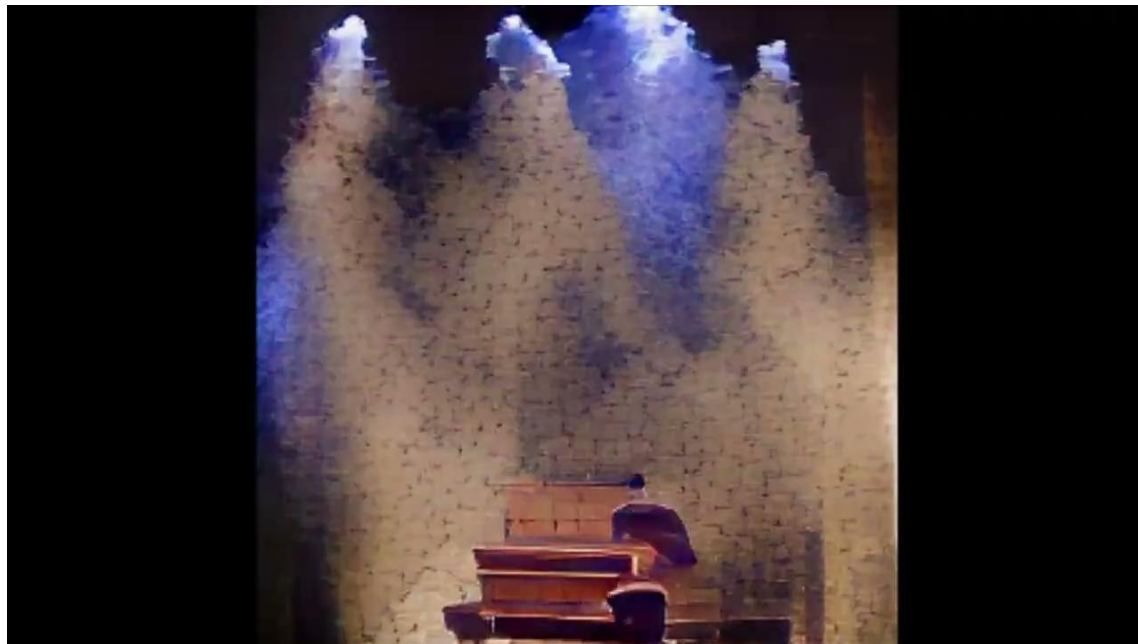
Godspeed by Frank Ocean



Piano Cover:



Visualizer:



Results

Godspeed 4stems Other 1

A musical score for a piece titled 'Godspeed 4stems Other 1'. The score is written for a 4-stem ensemble, with each stem having a unique color (red, green, blue, and purple). The music is in 4/4 time and features a complex arrangement of notes, rests, and dynamic markings. The score is divided into two systems, with the first system containing 12 staves and the second system containing 12 staves. The notation includes various musical symbols such as clefs, key signatures, time signatures, and note values.

A continuation of the musical score for 'Godspeed 4stems Other 1'. This system contains 12 staves, continuing the 4-stem ensemble notation. The music includes various musical symbols and dynamic markings, maintaining the complex arrangement from the previous system.

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Results



Reflection

- Pretty satisfied with the results, finally feel confident to show them
- Process of spending more time with the piano covers paid off
 - Experimenting different inputs let me discover additional ways to filter unwanted sound
- Colab GPU Backend limitations are annoying