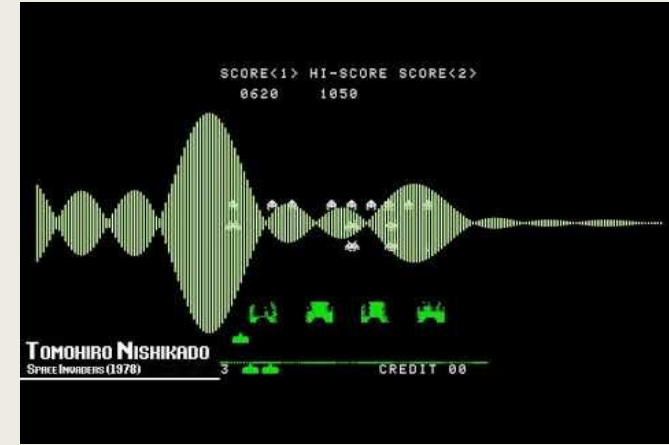


Game Music in Logic Wk1



A Brief History of Game Music

Tomohiro Nishikado (Space Invaders 1978)



Taito's 1978 hit arcade game Space Invaders featured one of gaming's first continuous background soundtracks. Designer Tomohiro Nishikado created the space shooter's musical theme—only four thumping notes played over and over—but the song sped up as descending enemy aliens got closer to a player's bases. The heart-pounding music created a sense of urgency that kept players coming back again and again.

Super Mario Bro's 1985



When Koji Kondo joined Nintendo in 1984, he became the company's first employee to focus specifically on music composition. Soon he'd create some of the most beloved and familiar songs in gaming history, including the main themes of Super Mario Bros., a bouncy tune with short repeatable segments; and The Legend of Zelda, a two-line melody he composed in a single day.

Hirokazu “Hip” Tanaka (Metroid 1986)



Hirokazu “Hip” Tanaka—composer, sound designer, and creator of the audio hardware for Nintendo’s Famicom and Game Boy—is best known for his wide range of game music compositions, including the minimalistic and industrial sounds of Metroid. In that action-adventure game he punctuated the music and sound effects with moments of silence, enhancing the atmosphere of isolation and suspense.

Akira Yamaoka

(Silent Hill 1999)



Akira Yamaoka's score for *Silent Hill* differed from previous survival-horror soundtracks by playing nearly continuously during the game, rather than having music erupt suddenly to signify danger, which created an atmosphere of perpetual tension. Some songs contained so many non-traditional, industrial sounds that his team thought the code was faulty, until he explained how the music increased the player's unease.

Marty O'Donnell and Michael Salvatori (Halo: Combat Evolved 2001)



Marty O'Donnell and Michael Salvatori joined forces in 2001 to compose music for the first-person shooter *Halo: Combat Evolved*. They focused on a single theme that could be re-used and re-arranged, giving the game a consistent, familiar backdrop without becoming repetitive. By using music sparsely, they increased dramatic impact when it appeared. Though very few games of the era produced commercial soundtracks, *Halo's* became a rousing success.

Christopher Tin (Civilization IV 2005)



Christopher Tin composed the main theme of *Civilization IV* at the behest of the game's lead designer, Soren Johnsen. His production "Baba Yetu," a choral, Swahili version of The Lord's Prayer, became the first video game song to win a Grammy Award for Best Instrumental Arrangement Accompanying Vocalist(s). In 2019, it played during the signing of a peace agreement between warring parties in Mozambique

Austin Wintory (Journey 2012)



Music forms the backbone of That gamecompany's art adventure *Journey*. Austin Wintory likened his emotional, reactive score to a cello concert with the player as the star soloist, supported by flutes, violas, and harps to represent other elements encountered in the game's world.

Undertale - Megalovania



- Megalovania's melody, is the same with the first note descending each iteration cycling in sets of four.
- The structure of the piece cycles between developing different themes after this, with many developing ideas.
- In the 'bridge' section where the song changes the theme is reintroduced.

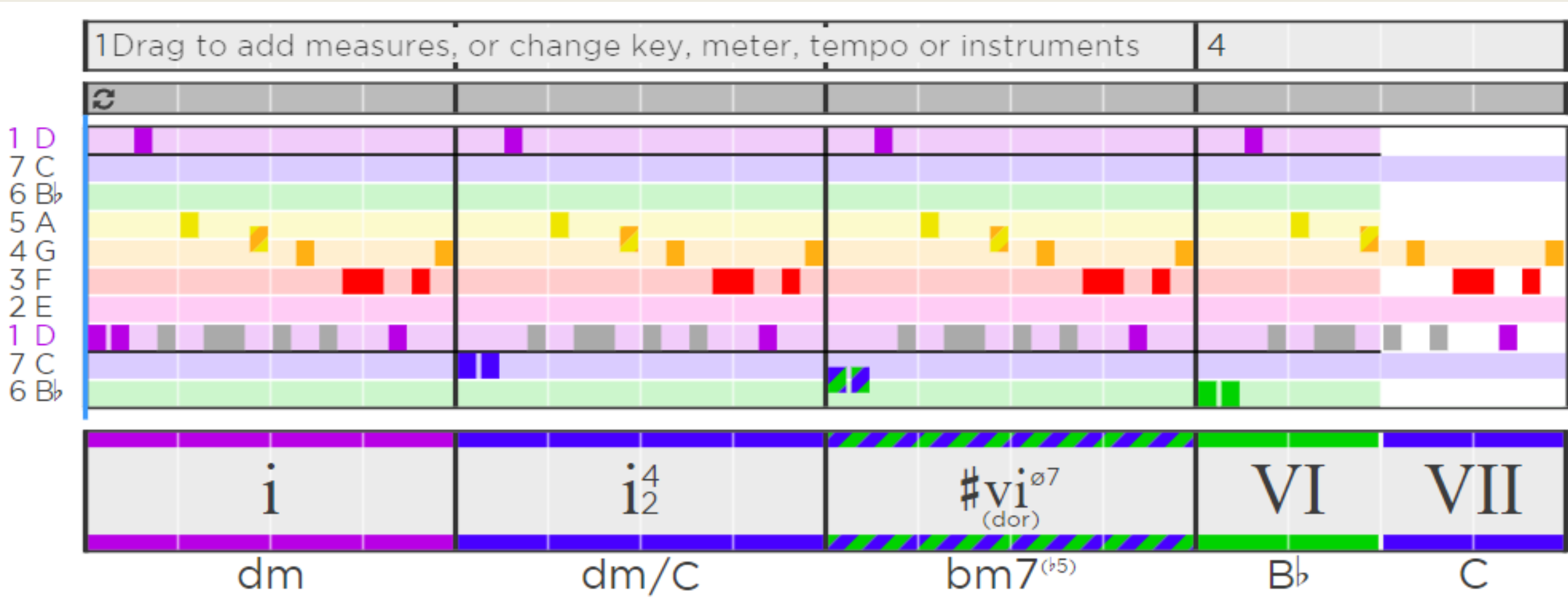
1 Drag to add measures, or change key, meter, tempo or instruments 4

1 D
7 C
6 B \flat
5 A
4 G
3 F
2 E
1 D
7 C
6 B \flat

i dm
i $\frac{4}{2}$ dm/C
#vi $\frac{ø}{7}$ (dor) bm7 $^{(b5)}$
VI B \flat
VII C

Megalovania

[Analysis](#)



Mario Sunshine – Delfino Plaza Theme



- Repetitive melody cycles twice identically before changing in the third repeat and lasting effectively for two cycles.

1 Drag to add measures, or change key, meter, tempo or instruments 4

7 G#
6 F#
5 E
4 D
3 C#
2 B
1 A
7 G#
6 F#
5 E
4 D

The musical score is displayed on a grid with 16 measures. The notes are color-coded: red for A, orange for B, yellow for C#, green for D, light blue for E, and dark blue for F#. The score is divided into four measures, each containing a sequence of notes. The first two measures are identical, and the third measure is a variation of the first two.

I #i^{ob7} ii⁷ vii^{ob7}
(bor) (hmin)

A a#°7 bm7 g#°7 A a#°7 bm7 g#°7 A a#°7 bm7 g#°7 A a#°7 bm7 g#°7

Delfino Plaza Theme

1 Drag to add measures, or change key, meter, tempo or instruments

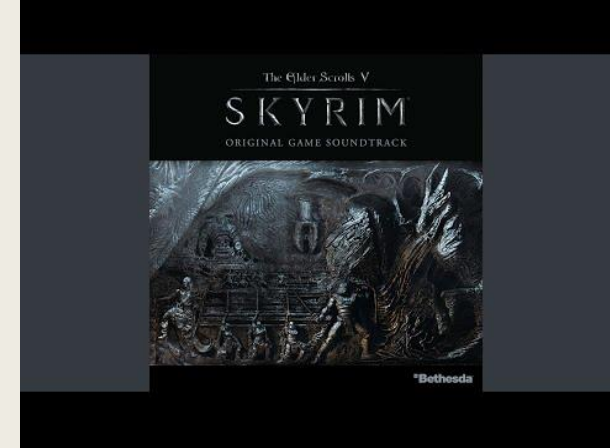
4

7 G#
6 F#
5 E
4 D
3 C#
2 B
1 A
7 G#
6 F#
5 E
4 D

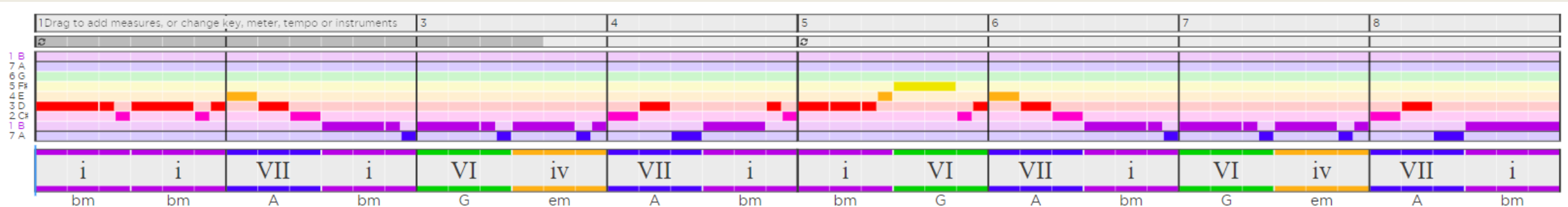
I $\#i^{ob7}_{(bor)}$ ii^7 $vii^{ob7}_{(hmin)}$ I $\#i^{ob7}_{(bor)}$ ii^7 $vii^{ob7}_{(hmin)}$ I $\#i^{ob7}_{(bor)}$ ii^7 $vii^{ob7}_{(hmin)}$ I $\#i^{ob7}_{(bor)}$ ii^7 $vii^{ob7}_{(hmin)}$

A $a\sharp^{\circ 7}$ bm^7 $g\sharp^{\circ 7}$ A $a\sharp^{\circ 7}$ bm^7 $g\sharp^{\circ 7}$ A $a\sharp^{\circ 7}$ bm^7 $g\sharp^{\circ 7}$ A $a\sharp^{\circ 7}$ bm^7 $g\sharp^{\circ 7}$

Skyrim – Dragonborn

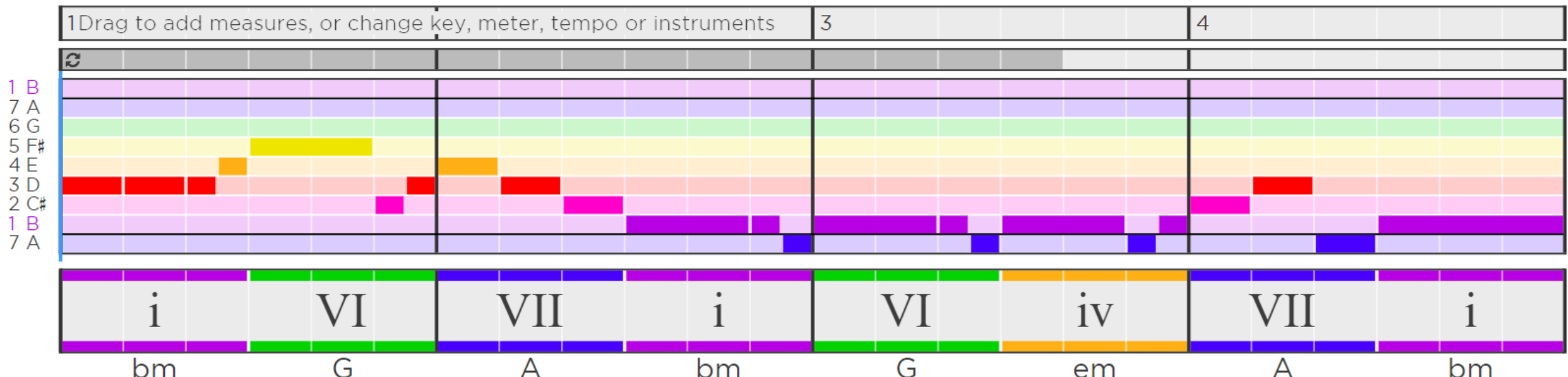
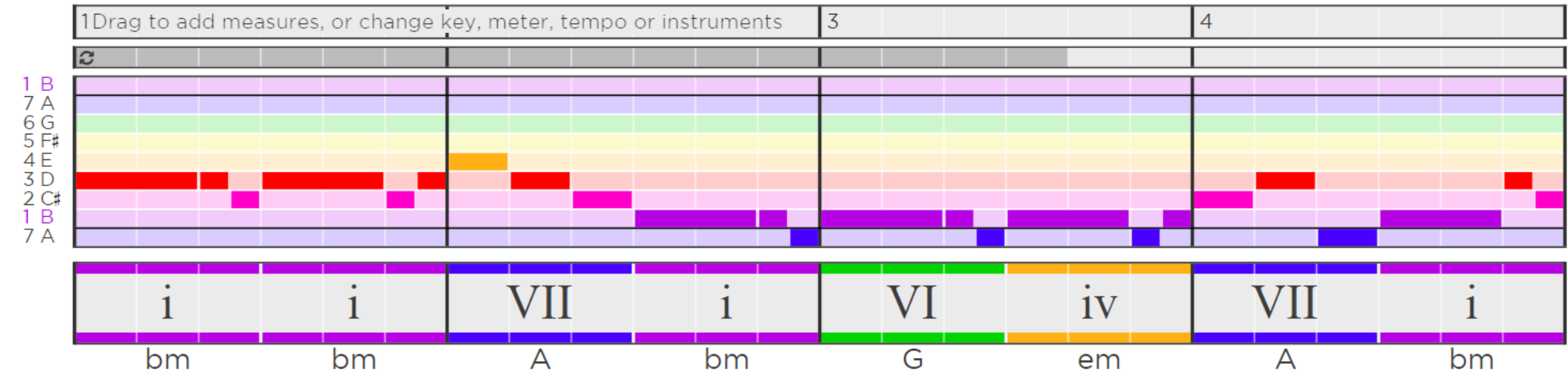


- Repetitive melody cycles twice identically before changing in the third repeat and lasting effectively for two cycles.



Dragonborn

Analysis



Call Of Duty– Zombies



- Repetitive melody cycles twice identically before changing in the third repeat and lasting effectively for two cycles.



Task

In pairs research a video game theme that you enjoy. Looking into it historically and what about the theme makes it interesting.

Think about

- Harmony
- Melody
- Rhythm
- Production
- Instrumentation

Chords Theory 101



- C Major scale is made up of all the white keys on a piano

C major scale

basicmusictheory.com

C# D# F# G# A# C# D# F# G# A#
D♭ E♭ G♭ A♭ B♭ D♭ E♭ G♭ A♭ B♭

1 2 3 4 5 6 7 8

B C D E F G A B C D E F G A B C

'Good' Chords

- We can build **chords** off every note in the **C major scale** – using the scale and we will end up with a set of chords that all work together.
- There are **seven chords** in each **key** and they are labelled with roman numerals. **I II III IV V VI VII**

Chords 1-6

1 = I

C Major



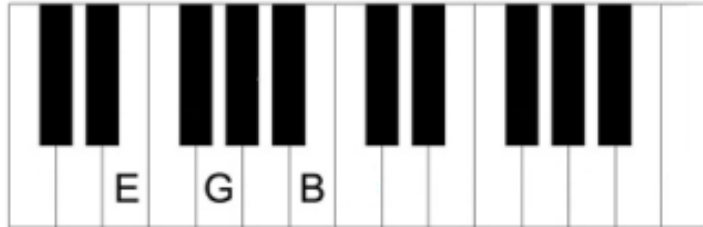
2 = ii

D Minor



3 = iii

E Minor



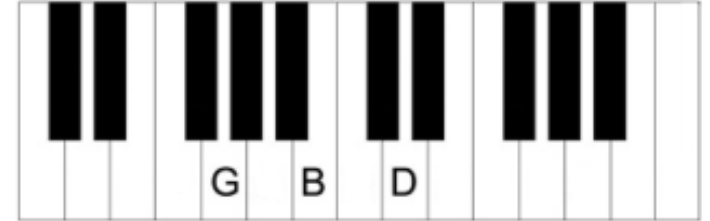
4 = IV

F Major



5 = V

G Major



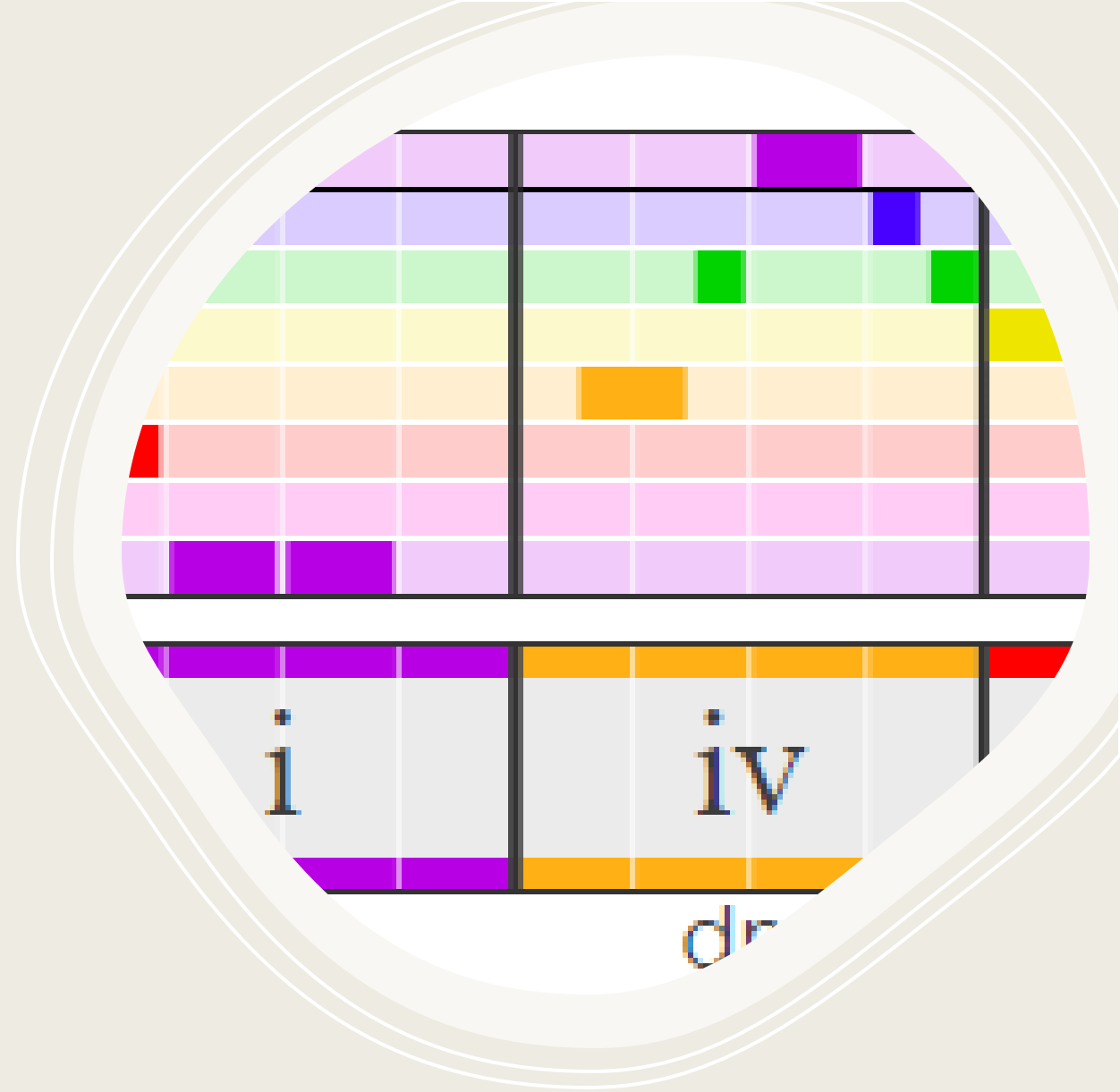
6 = vi

A Minor

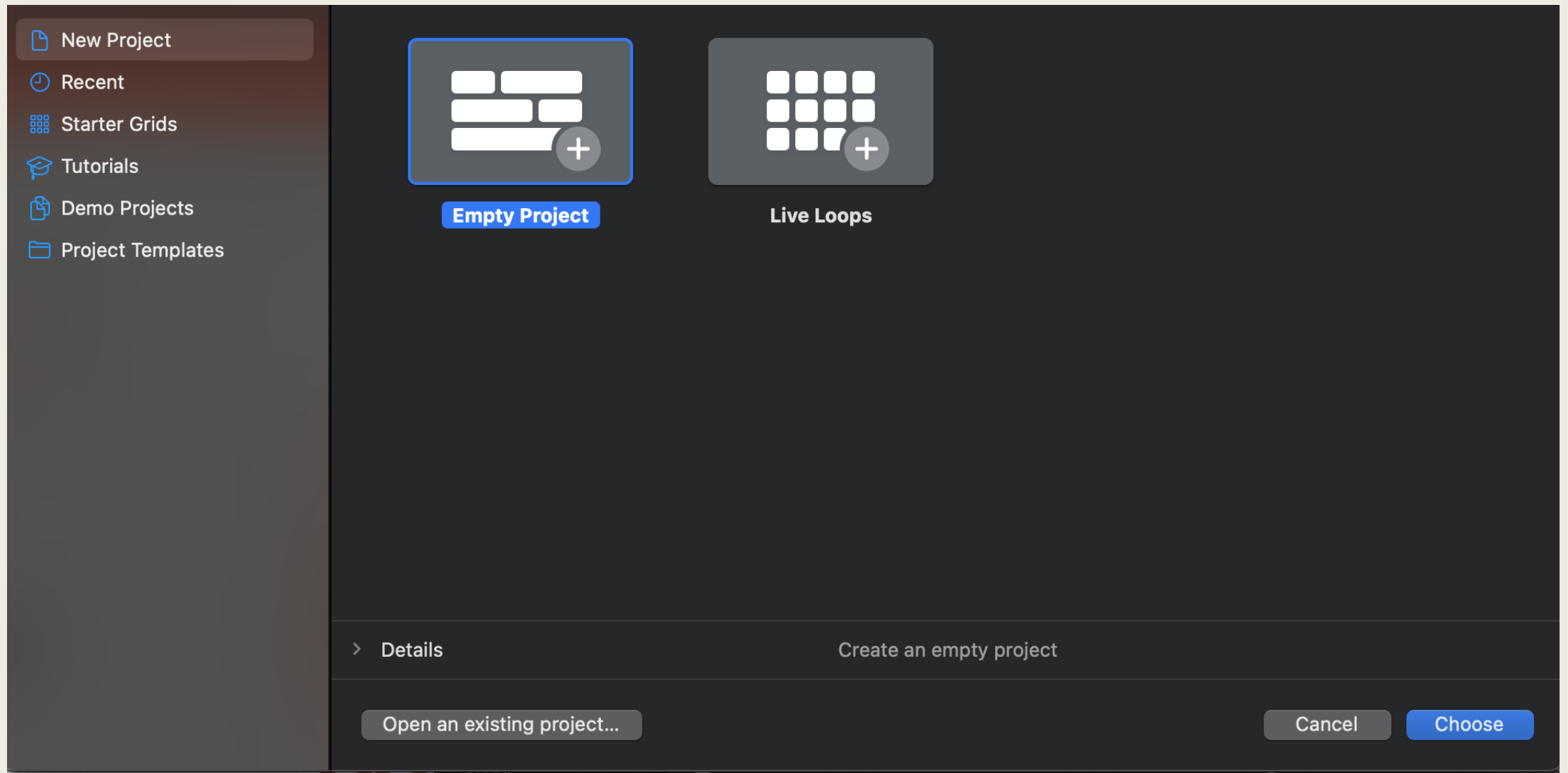


Re-creating the Tetris theme in Logic

Analysis



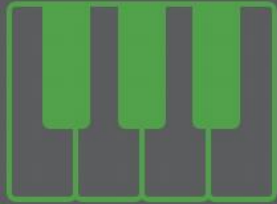
Select empty project



Select software instrument

Choose a track type

Software Instrument



Plug in a USB MIDI keyboard to play and record using a wide variety of instruments like piano, organ, and synths.

Audio



Record using a microphone or line input — or drag and drop audio files.



Connect a guitar or bass to your Mac to play and record through virtual amps and pedal effects.

Drummer



Add a drummer that automatically plays along with your song.

> Details



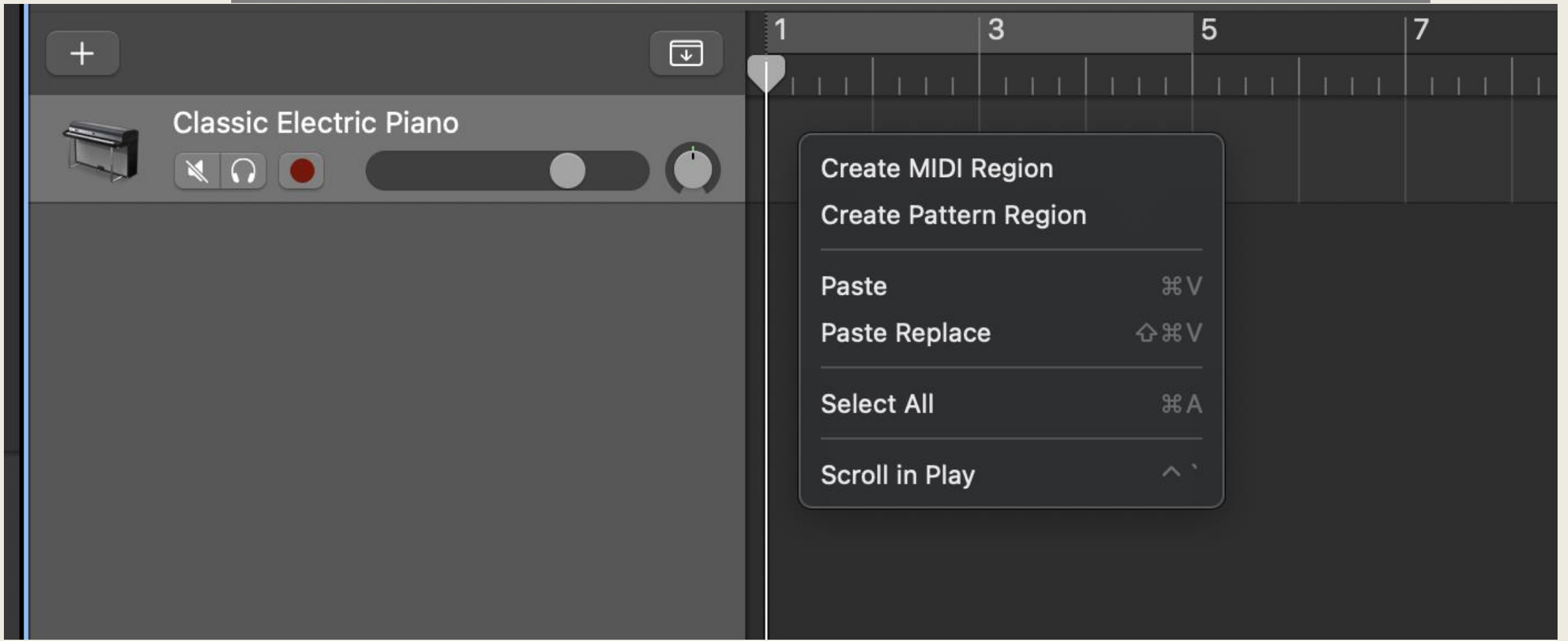
Number of tracks to create:

1

Cancel

Create

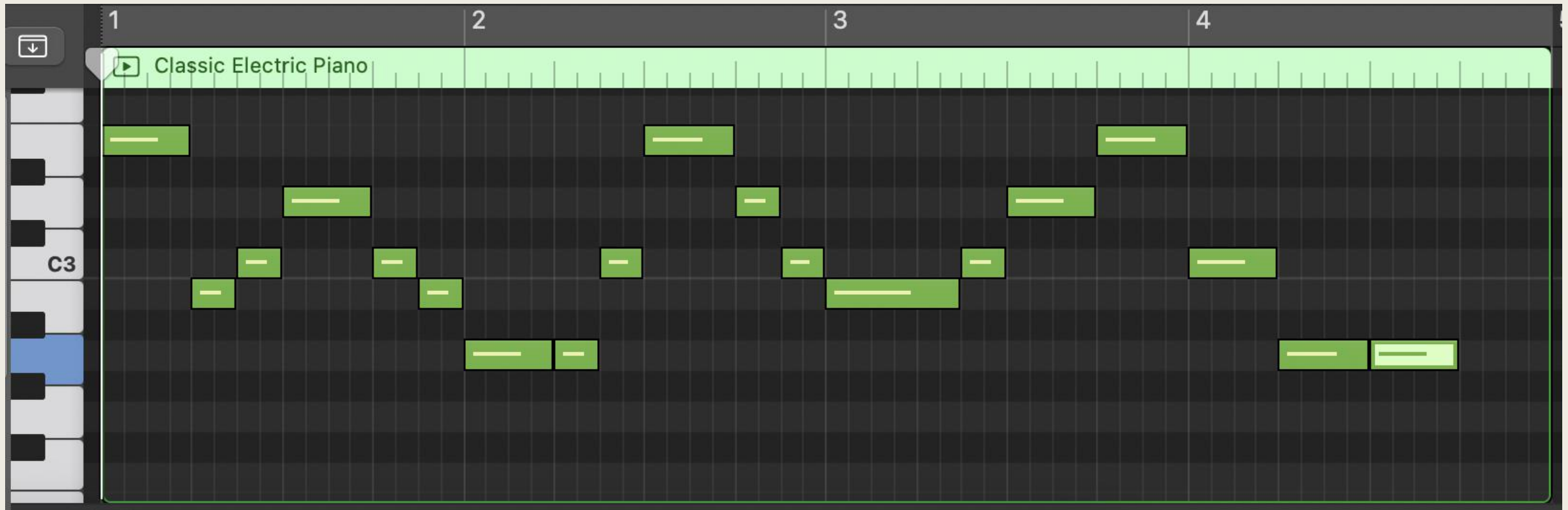
Ctrl + click to create midi region



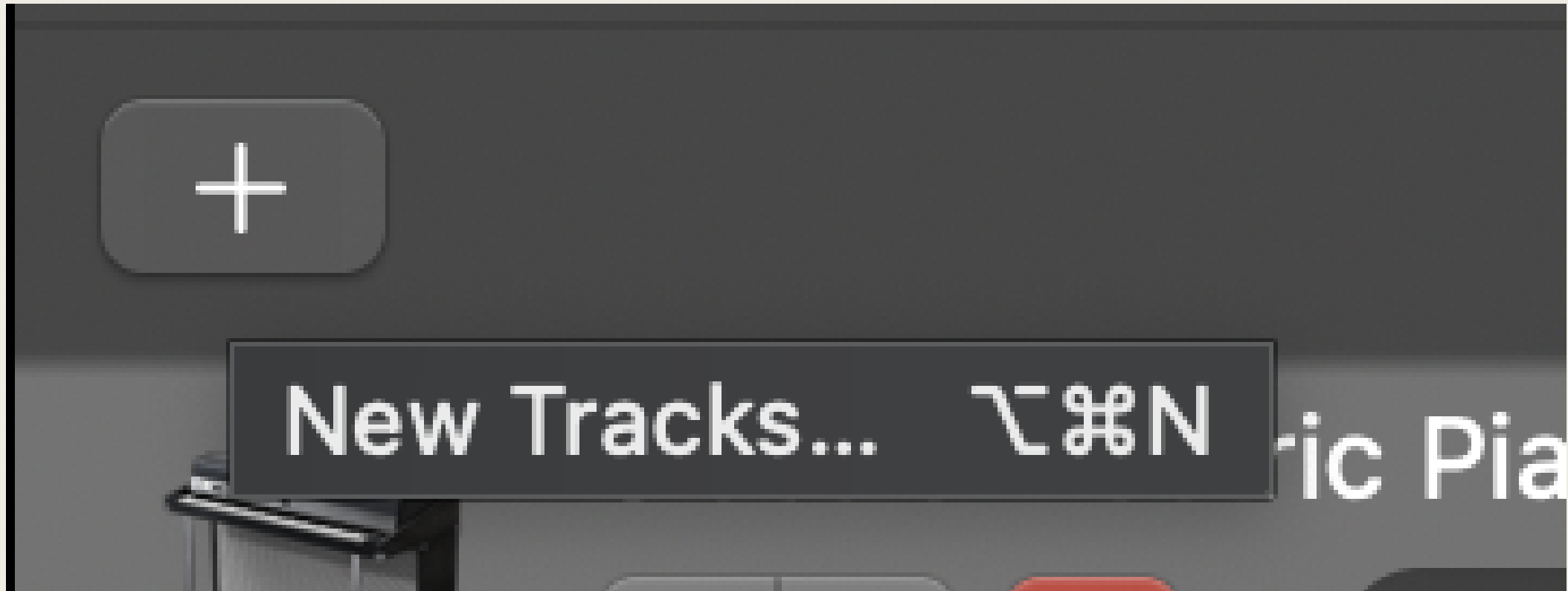
**Grab the right hand side of the region
and make it 4 bars long**



Double click the region then use CMD
and click for the pen tool to write in
this melody



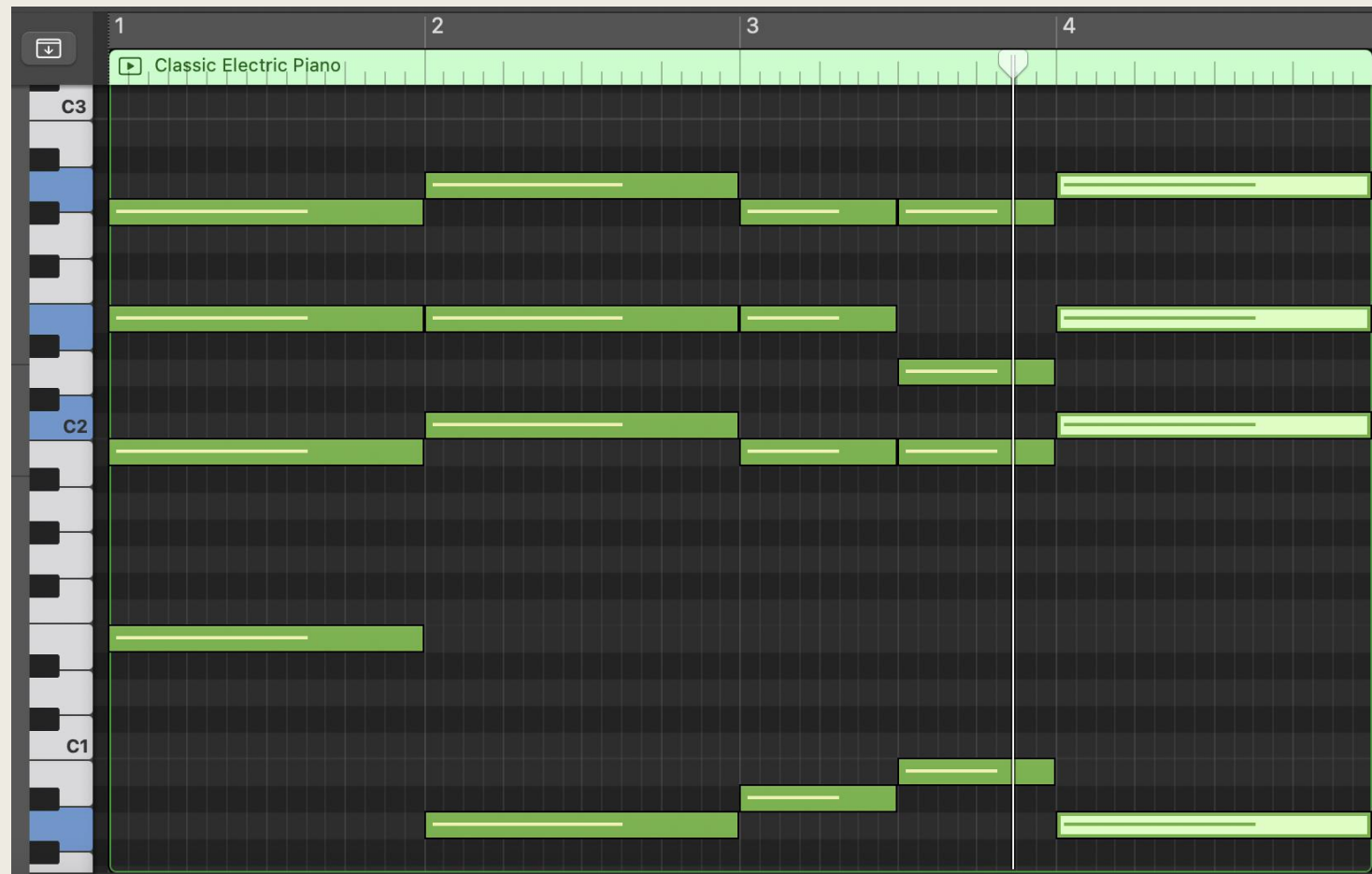
Make a second track



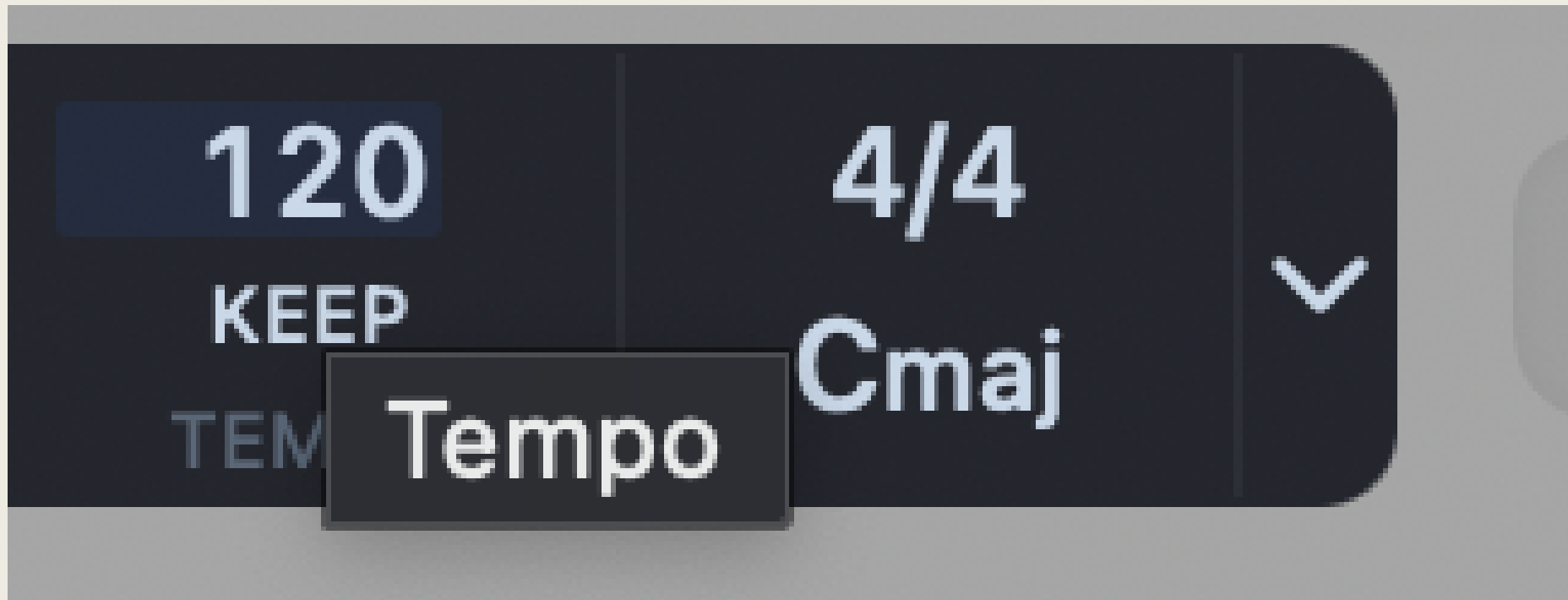
Select software instrument and create a new midi region



Scroll down to C1 and input this chord sequence

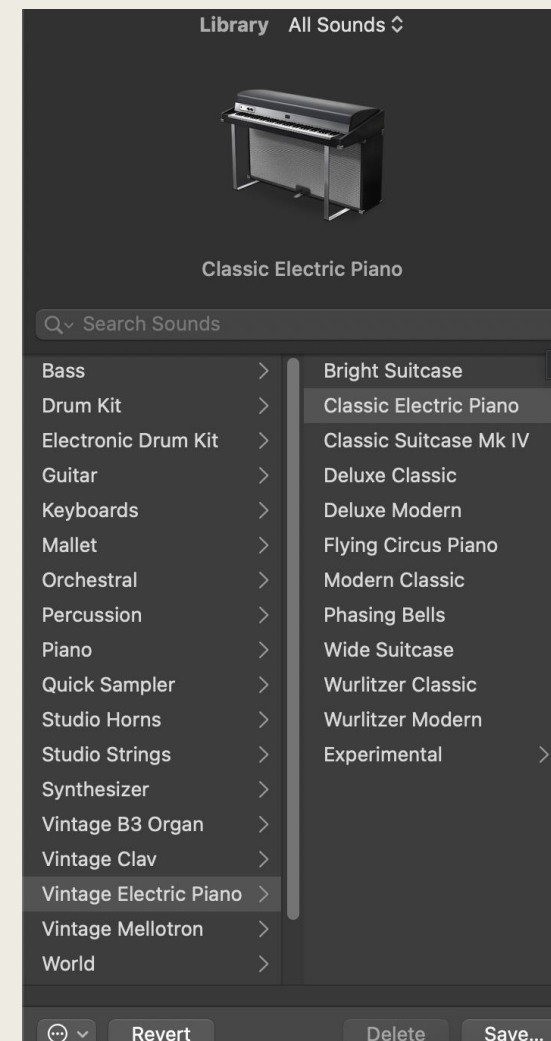


Alter the tempo to 149



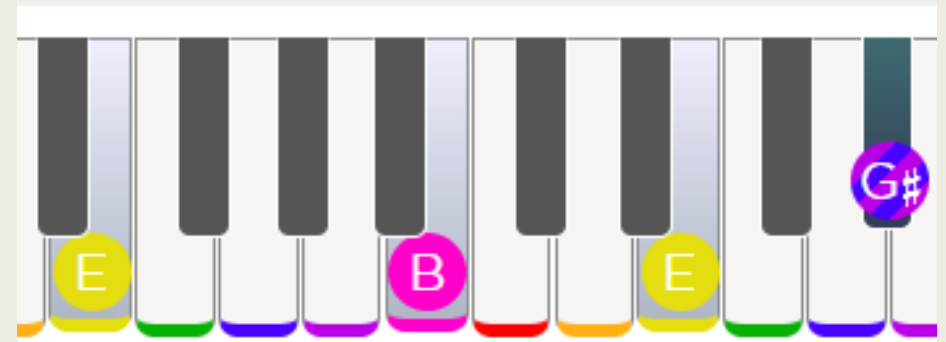
Experiment with different instruments

Especially retrosynth



The Chords

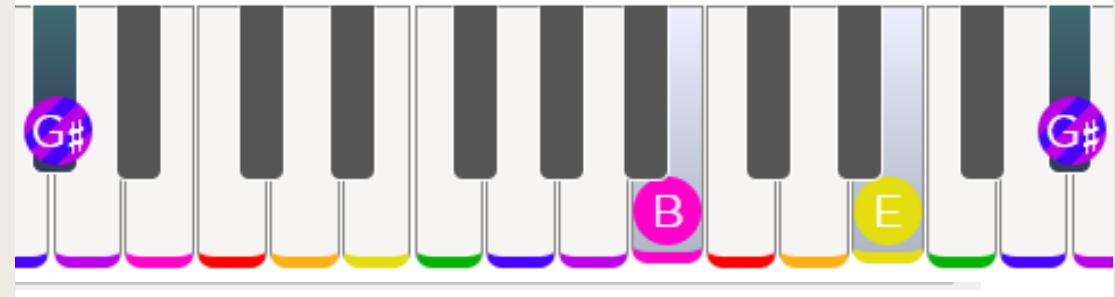
1 Bar of E Major **E B E G#**



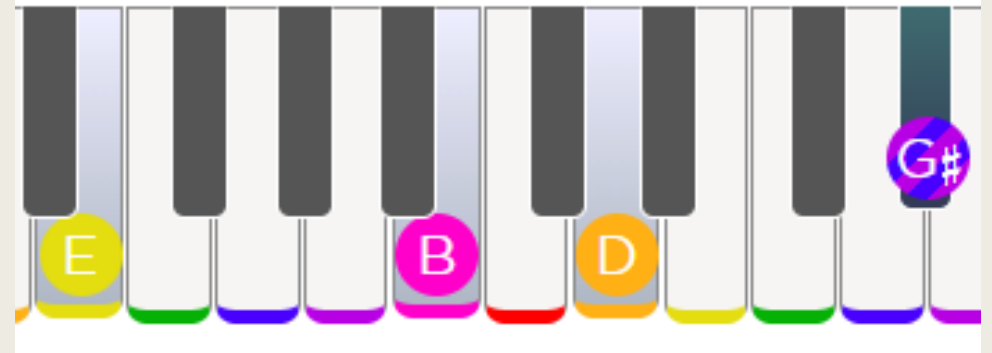
1 Bar of A minor **A C E A**



½ Bar of E major / G# **G# B E G#**



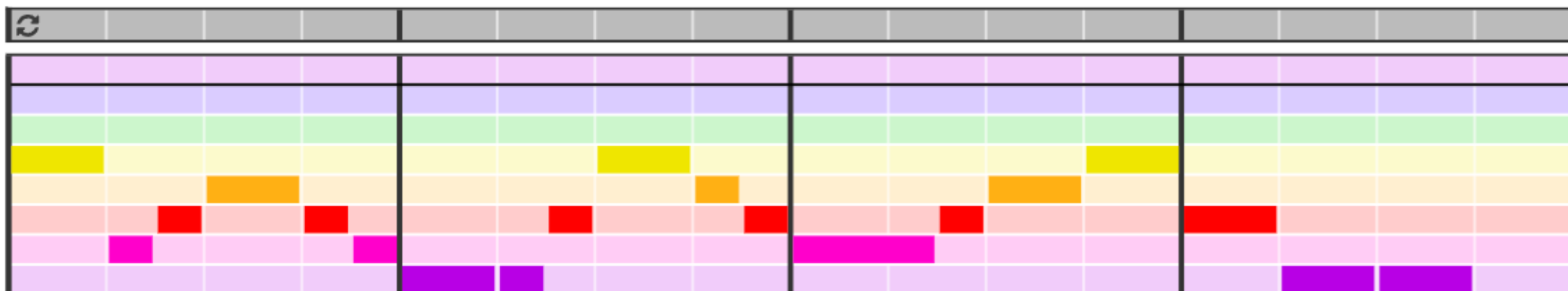
½ Bar of E 7 **E B D G#**



1 bar of A minor **A C E A**



1 A
7 G
6 F
5 E
4 D
3 C
2 B
1 A



V
(maj)

E

i

am

V⁶
(maj)

E/G#

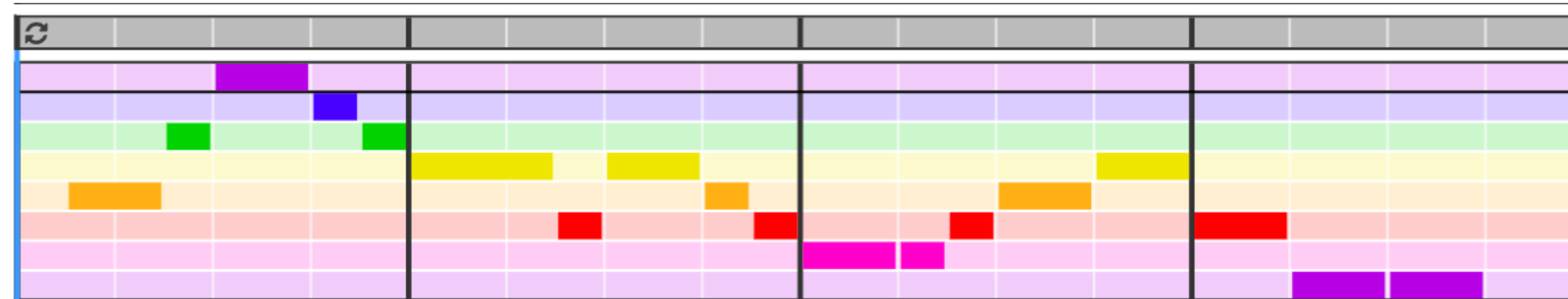
V⁷
(maj)

E7

i

am

1 A
7 G
6 F
5 E
4 D
3 C
2 B
1 A



iv

dm

III

C

V₄⁶
(maj)

E/B


V⁷
(maj)

E7


i

am

Use Hooktheory to make the rest of the song

 Hooktheory
Create amazing music

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The Tetris Theme by Nintendo Chords and Melody

Sections: Verse □□, Chorus ◇.

Verse

  Piano
Play  YouTube

A Min 

Key Guides



V (maj) i V⁶ (maj) V⁷ (maj) i iv III V⁶ (maj) V⁷ (maj) i

E am E/G# E7 am dm C E/B E7 am



Melody
Chords

Chorus

  Piano
Play  YouTube

A Min 

Key Guides



 Original Tetris theme (Tetri...
Original Tetris theme


More by Nintendo

 3DS Piranha Plant Slide - Mario Ka
by Nintendo

 Ancient Ruins Daytime
by Nintendo

 Astral Observatory
by Nintendo

 Attack on Vah Naboris
by Nintendo

 Baby Park - Mario Kart 8
by Nintendo

 Ballad Of The Goddess
by Nintendo

 Bandit Valley - Yoshi's New Island
by Nintendo

 Baseball Training - Wii Sports

Extra Work

For next session.

Find an