





# Zero Cost Music Making

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# To the Cloud

## Background

- applications are no longer locally in the computer, services are, instead, in the Internet and we'll access them via browser
- data resources and documents are there, too
- externalized technical support



# To the Cloud

- ever growing variety of resources
- provided by scientific societies, commercial companies, multimedia artists, enthusiasts...
- simple and explicit, better for pedagogical uses
- one has to filter resources



# To the Cloud

- notation, composing, accompaniment, arranging, audio laboratory...
- tools for several teaching positions and needs
- support for pluralistic attitude in music education



# To the Cloud

- emphasis on communities
- communities are easily integrated while both tools and products are in the net
- modern music education benefits the means: make together, publish to each other



# Pros in the Cloud

- immediate access to the tools, no downloading and installation
- no licences, no updating, no backup copying
- tools work everywhere where is a computer and Internet access
- work similarly on different platforms and operating systems (with some exceptions), cont'd.



# Pros in the Cloud

- normally the use is free at the basic level
- integrated support for communities (publishing, delivery, collaboration)
- easy access to (nearly) everyone
- empowerment-as-enablement: tools which would not be possible to use otherwise (virtual instruments, orchestras, musicians); enable processes like working in audio laboratory (cont'd)



# Pros in the Cloud

- empowerment-as-enablement: enables one's own output, cultural production like composing, arranging, playing
- supports music education of special needs



# Cons in the Cloud

- need of access to Internet, operations depend on the bandwidth in use
- possible needs of plug-ins
- browser incompatibilities
- registrations, sign-ups
- commercial intrigues functions



# Cons in the Cloud

- application appears, application disappears
- no localization



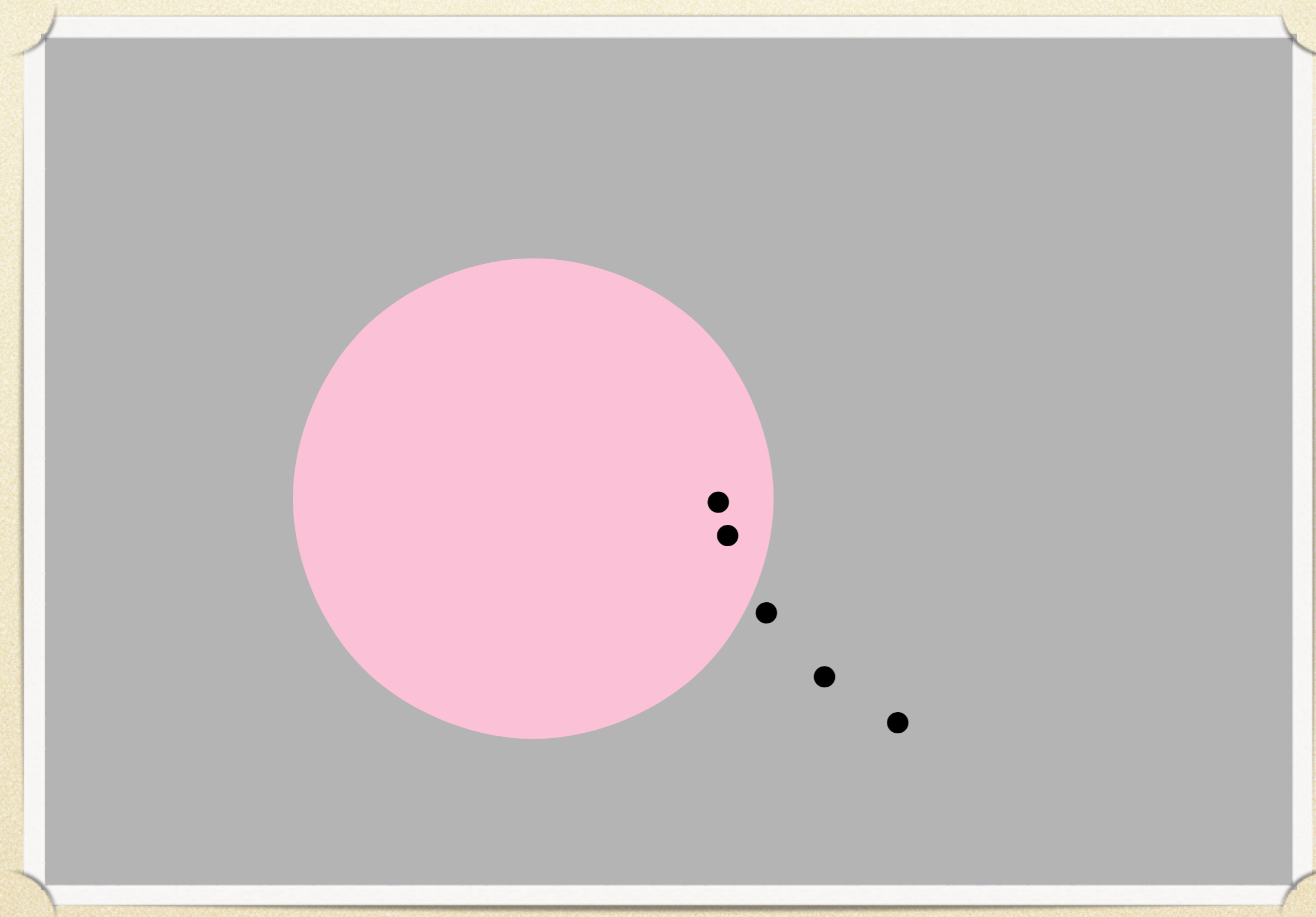
No Threshold  
With Keyboard  
Fill the Grid  
The Ambience & Groove  
Notation  
Loops & Sequencing  
Creating & Collaborating



No Threshold



# Patatap



<https://patatap.com>



# Typatone

Please write and listen

<https://typatone.com>



# Touch Pianist



<http://touchpianist.com>



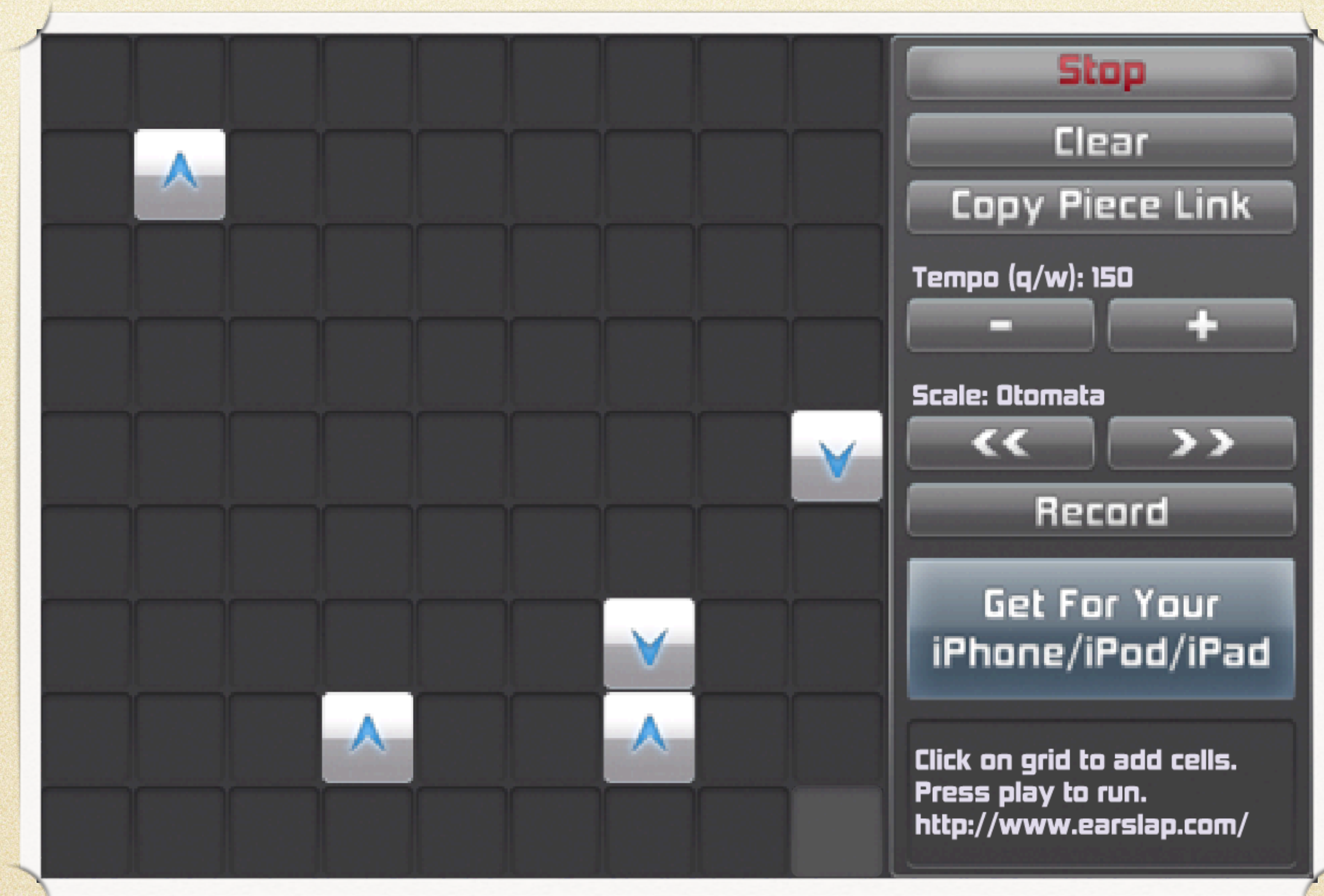
# Virtual Drumming



<https://www.virtualdrumming.com>



# Otomata



<https://earslap.com/page/otomata.html>



# Gregorian Voices



MyNoise



# Web Audio Modules

9



<https://synth.playtronica.com/>



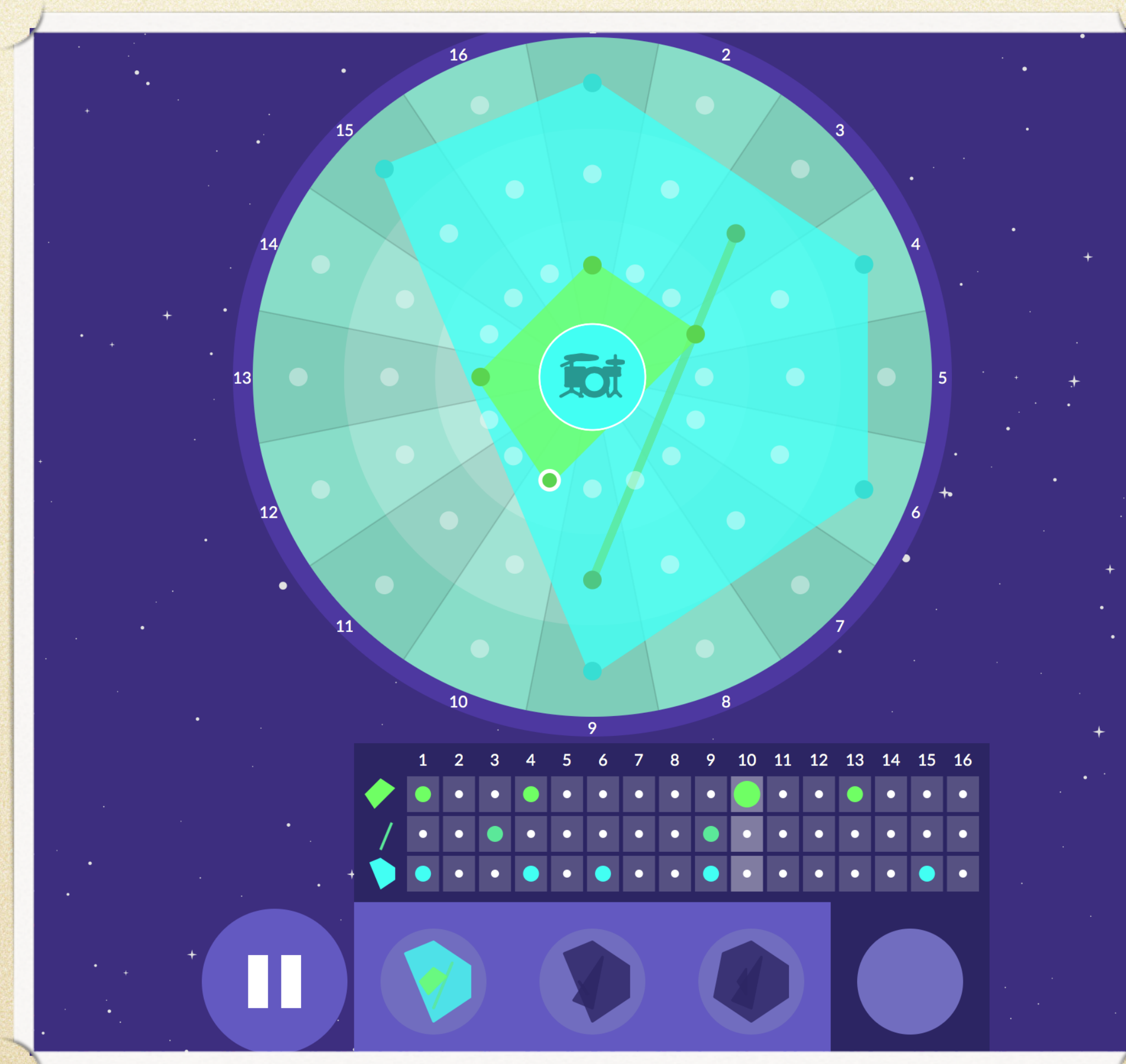
# Incredibox



<http://www.incredibox.com>



# Groove Pizza



<https://musedlab.org/groovepizza>



# aQWERTYon



SCALE TYPE: Minor SCALE: Minor Pentatonic ROOT: D4

VOL: [Volume Slider]

`	D	F	G	A	C	D	F	G	A	C	D	F	delete
tab	C	D	F	G	A	C	D	F	G	A	C	D	F
caps lock	G	A	C	D	F	G	A	C	D	F	G	return	
transpose DOWN	D	F	G	A	C	D	F	G	A	C	transpose UP		
fn	ctrl	opt	cmd	space				cmd	opt	left	up	dwn	right

SOUND: Rock Organ NOTE CAPS: on

<https://musedlab.org/aqwertyon>



# CHROME MUSIC LAB



<https://musiclab.chromeexperiments.com/Experiments>



With Keyboard



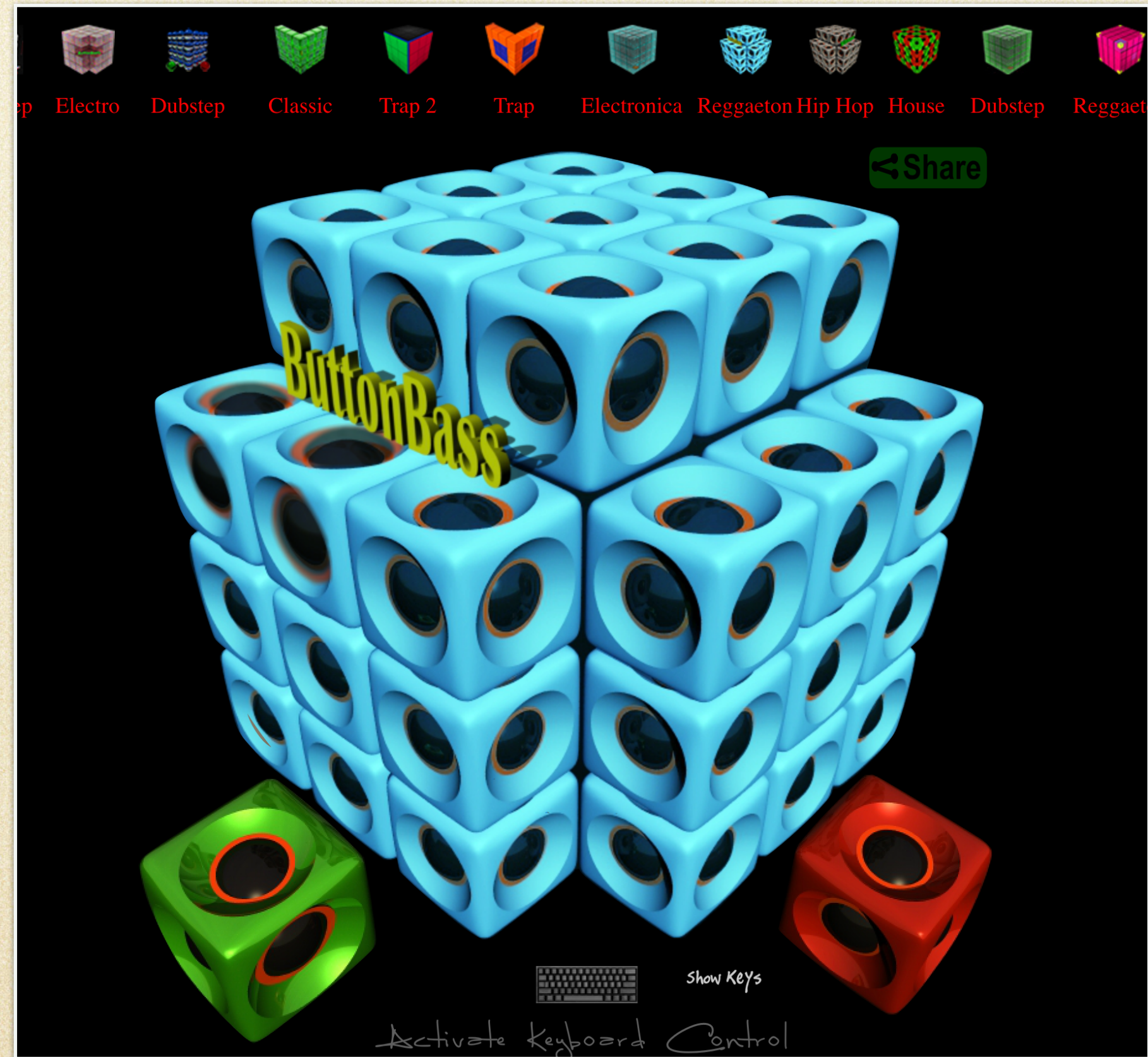
# Tony-B machine



<http://www.tony-b.org>



# Button Bass



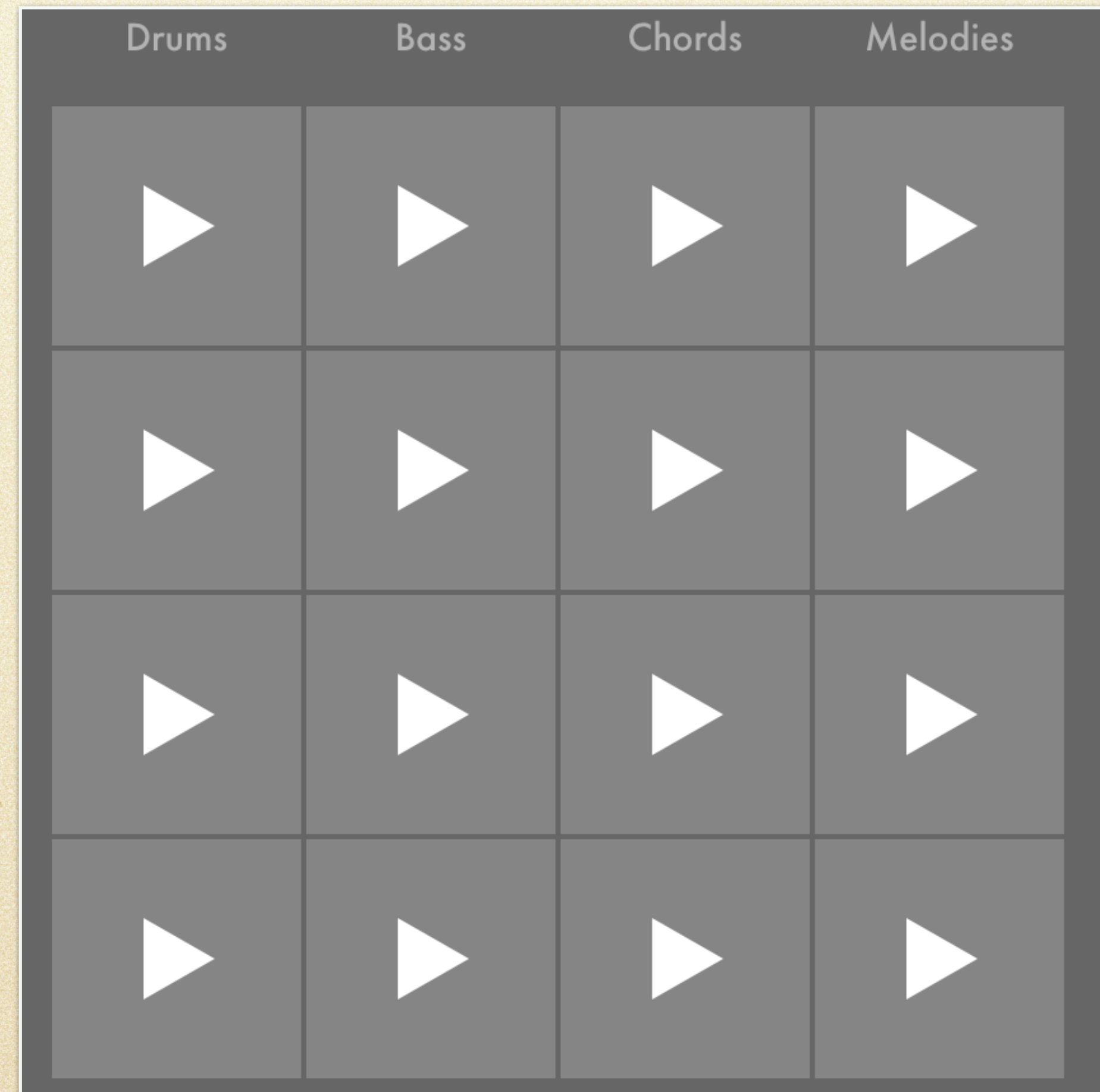
<http://www.buttonbass.com/index.html>



Fill the Grid



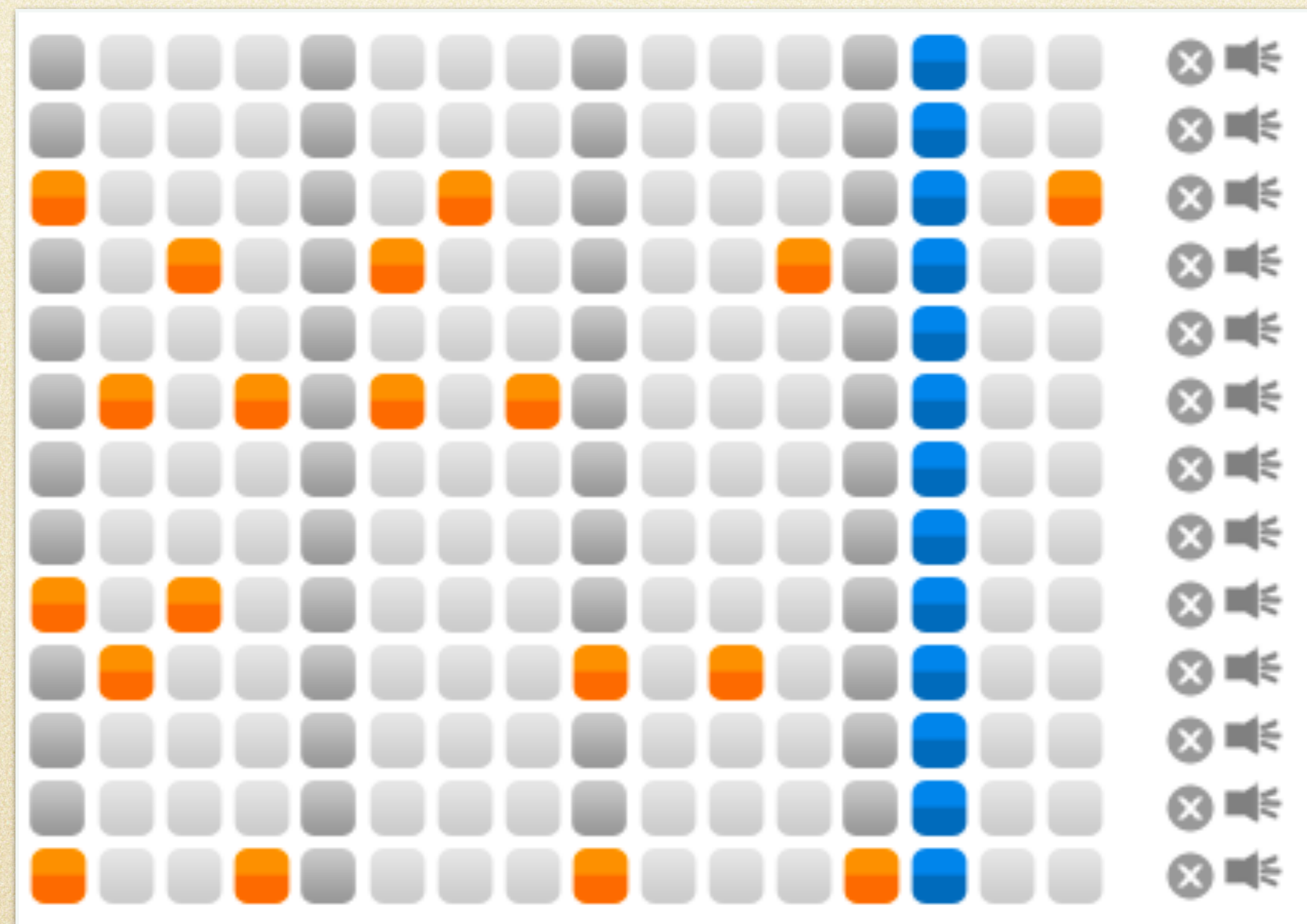
# Ableton education



<https://learningmusic.ableton.com>



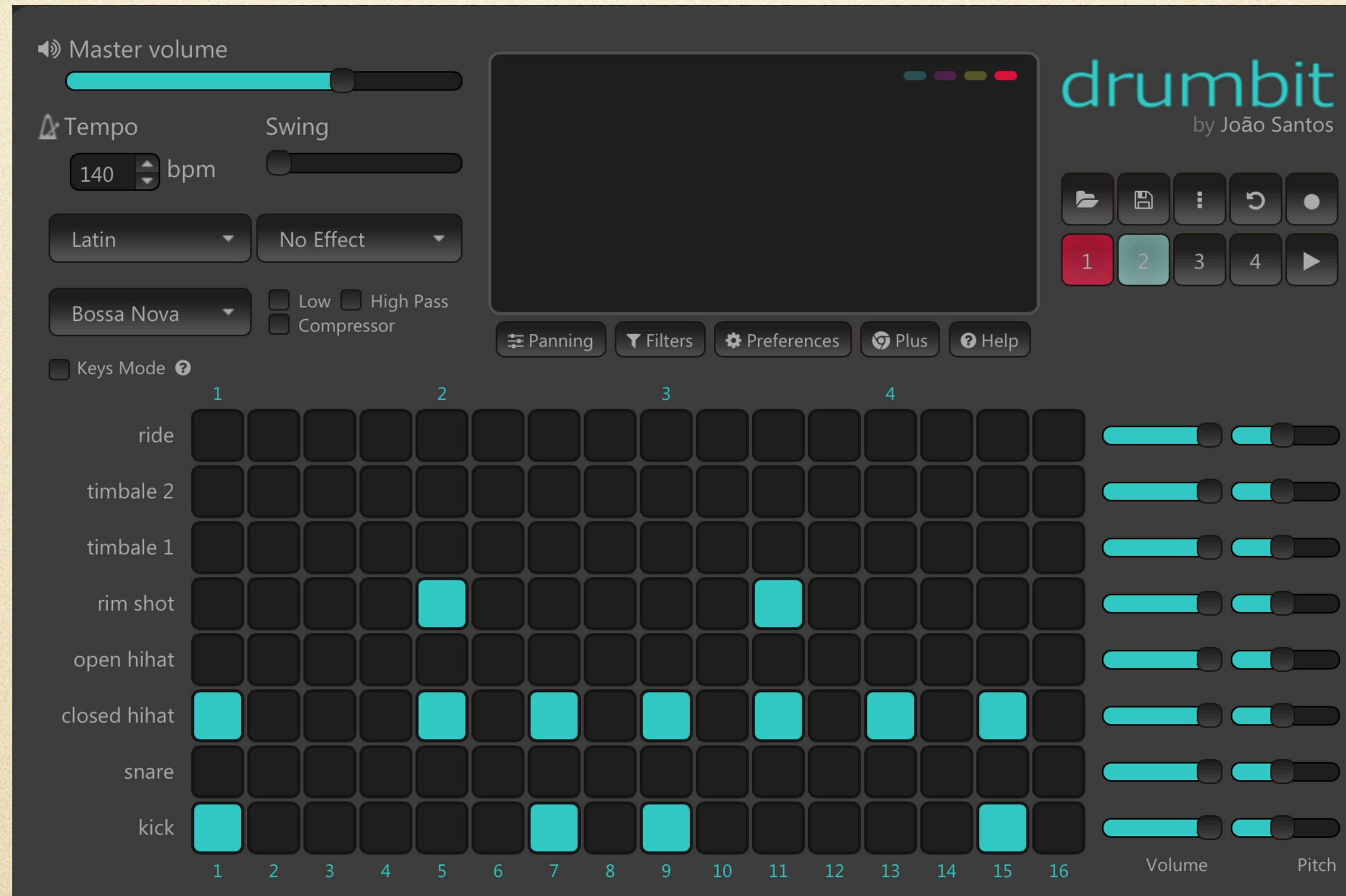
# Beatlab



<http://www.beatlab.com/>



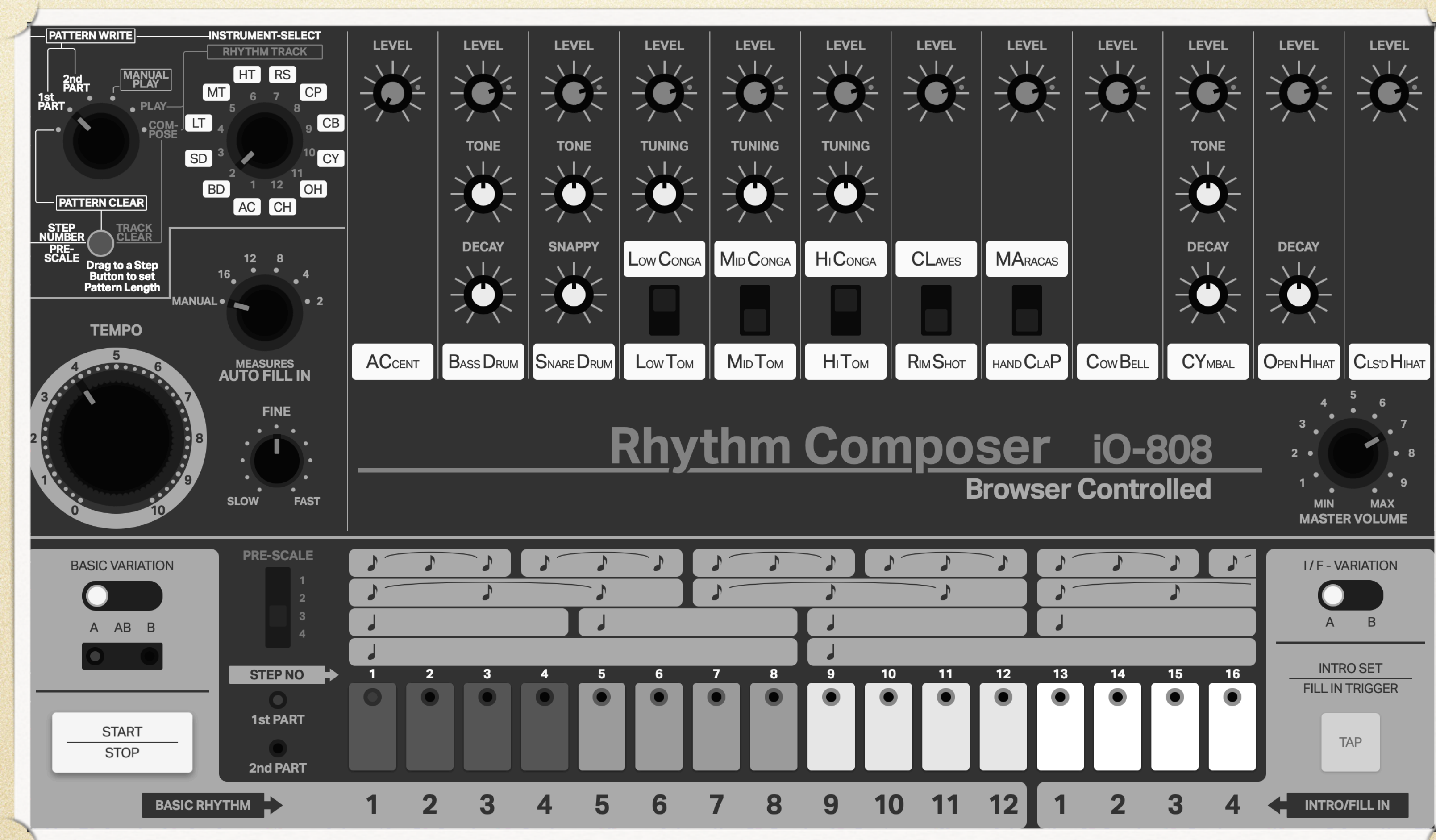
# Drumbit



<https://drumbit.app>



# iO-808



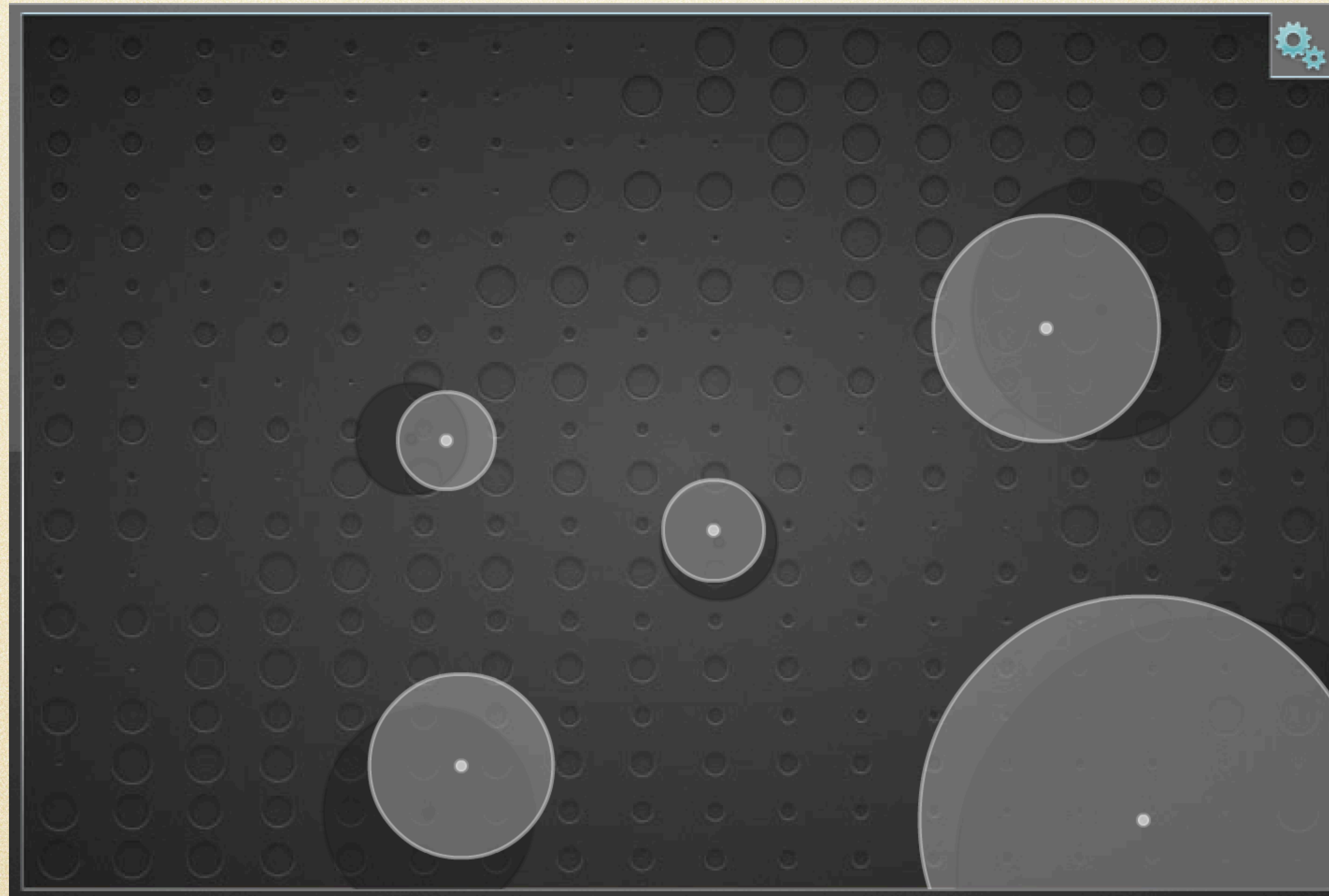
<https://io808.com>



# The Ambience & Groove



# Circuli



<https://earslap.com/page/circuli.html>



# Ambient Mixer



<http://www.ambient-mixer.com/>



# YouDJ



<https://you.dj>



# Notation



# Noteflight

[illegible]

<http://www.noteflight.com/>



# FLAT.IO

The screenshot displays the Flat.io web application interface. At the top, there is a navigation bar with icons for a piano keyboard, a play button, a dropdown menu, and a settings icon (a gear with '12'). The main area shows a musical score for two instruments: Grand Piano and Celesta. The Grand Piano part is in 4/4 time with a tempo of 160 BPM. It features a complex melody in the right hand with many beamed sixteenth notes and rests in the left hand. The Celesta part also has a melody in the right hand and rests in the left hand. The score is written in B-flat major (two flats) and 4/4 time. The Grand Piano part starts with a *pp* (pianissimo) dynamic marking. The Celesta part starts with a *Red.* (Reduction) marking. The score is displayed in a clean, modern font.

<https://flat.io/>



# Loops & Sequencing



# JamStudio

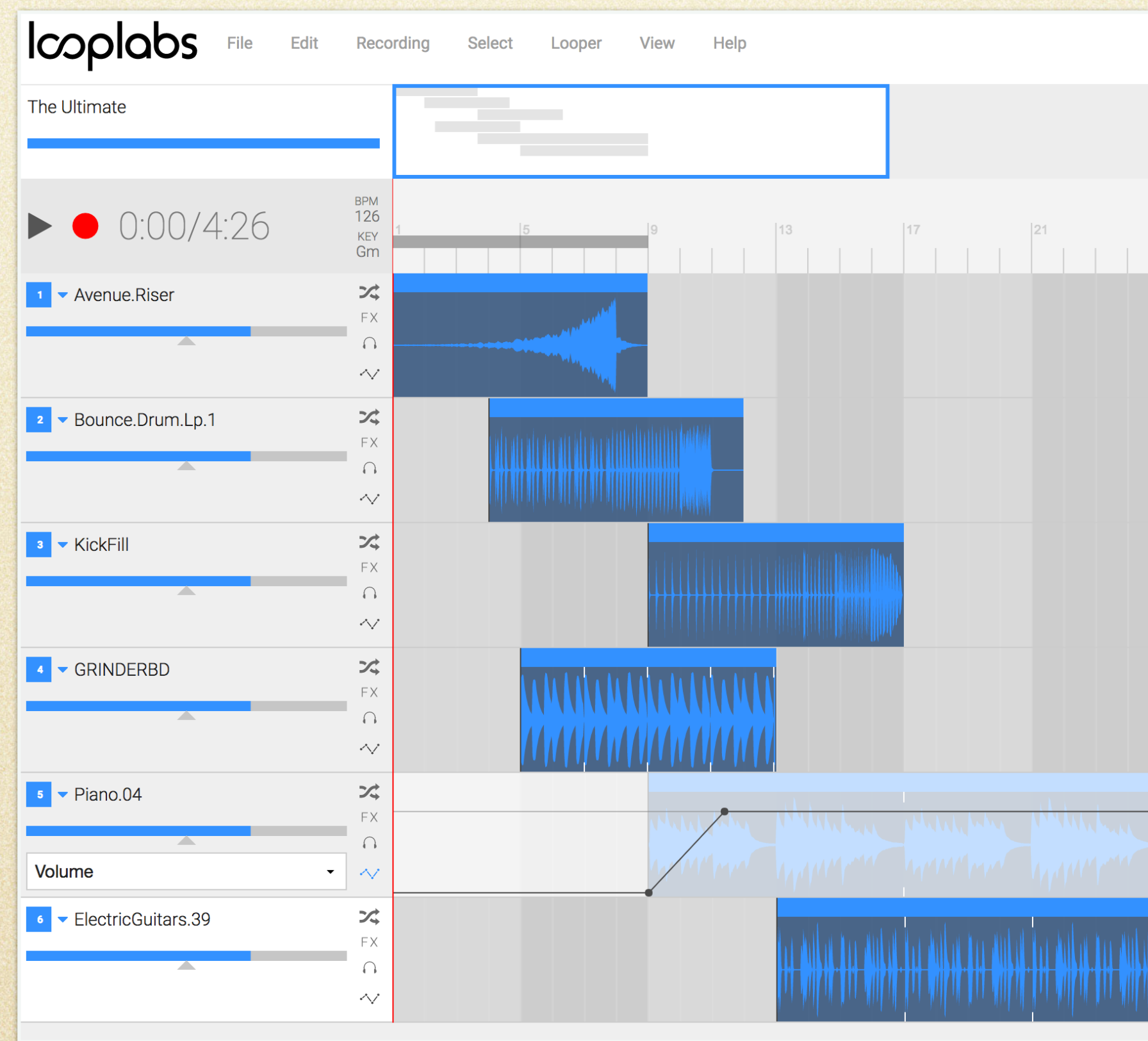
The screenshot displays the JamStudio software interface, which is divided into four main sections:

- SCORE:** This section shows a chord progression for a piece titled "untitled". The progression is displayed on a four-staff musical notation system. The chords are: G, Em, G, A (first staff); Am, F, G, G (second staff); Dm, D, Am, Am (third staff); and G, D, D, G (fourth staff). The "Dm" chord in the third staff is currently selected. To the left of the notation, there are controls for "BEATS" (set to 3 and 4), "INSERT", and "DELETE". Below the notation, there is a "Play Page Order:" field.
- CHORDS:** This section provides a list of chords and their variations. The "Key" is set to G. The "Variations" column lists chords such as E, Em, F, Fm, F#, F#m, G, Gm, G#, G#m, A, Am, A#, A#m, B, Bm, C, Cm, C#, C#m, D, Dm, and D#.
- MIXER:** This section allows for the selection and volume control of different instruments. The "TEMPO" is set to 89. The "Loop Page" checkbox is checked. The instruments listed are: Guitar.Classic, Drums.Jazz Shot (selected), Bass.Gallop, EGuitar.Convertible, EGuitar.Diamonds, EGuitar.Clean and Dirty, Piano.Titanic, and EPiano.Lullaby.
- SOUNDS:** This section provides a list of sound effects. The "Drums" category is selected. The sounds listed are: Sit Back, Crashin, Poppy, Jazz Shot (selected), Bouncy Ball, March, Silk, Groovin, Slip N Slide, Sideshow, Big Top, Trot, Cleopatra, and Dallas.

<http://www.jamstudio.com/Studio/indexStudio.htm>



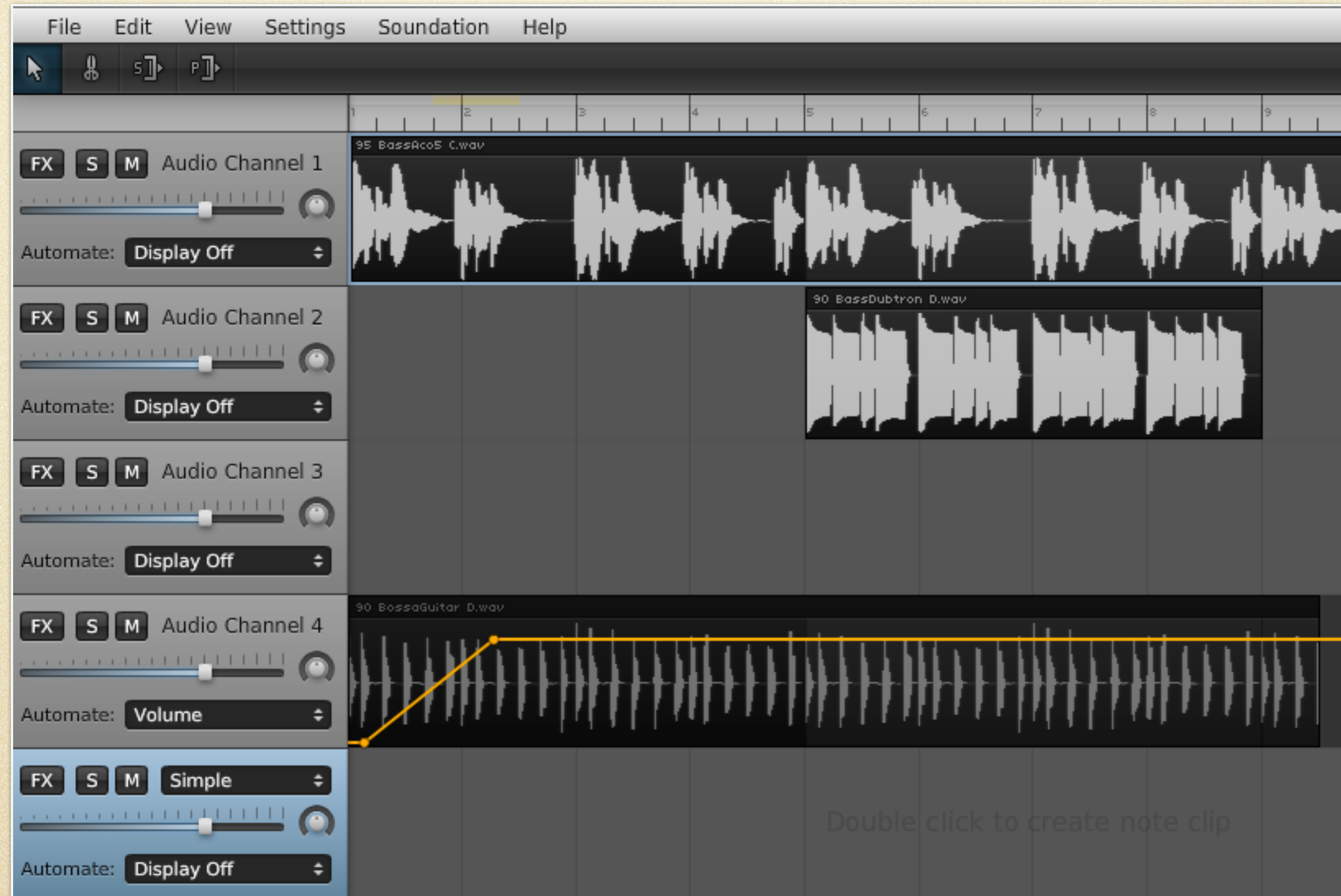
# Looplabs



<https://www.looplabs.com/studio/>



# Soundation



<http://soundation.com/studio>



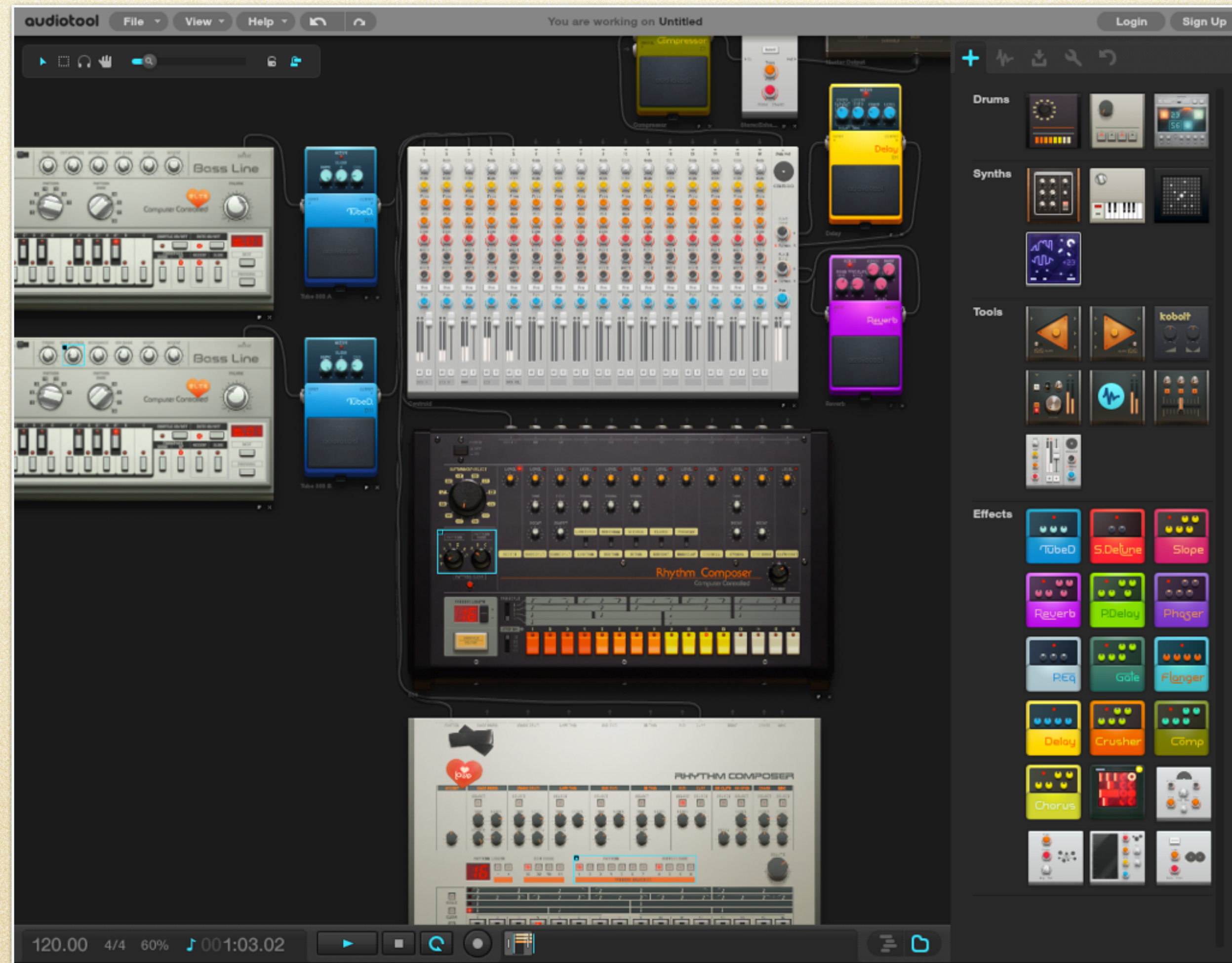
# Audio Sauna



<http://www.audiosauna.com>



# Audiotool



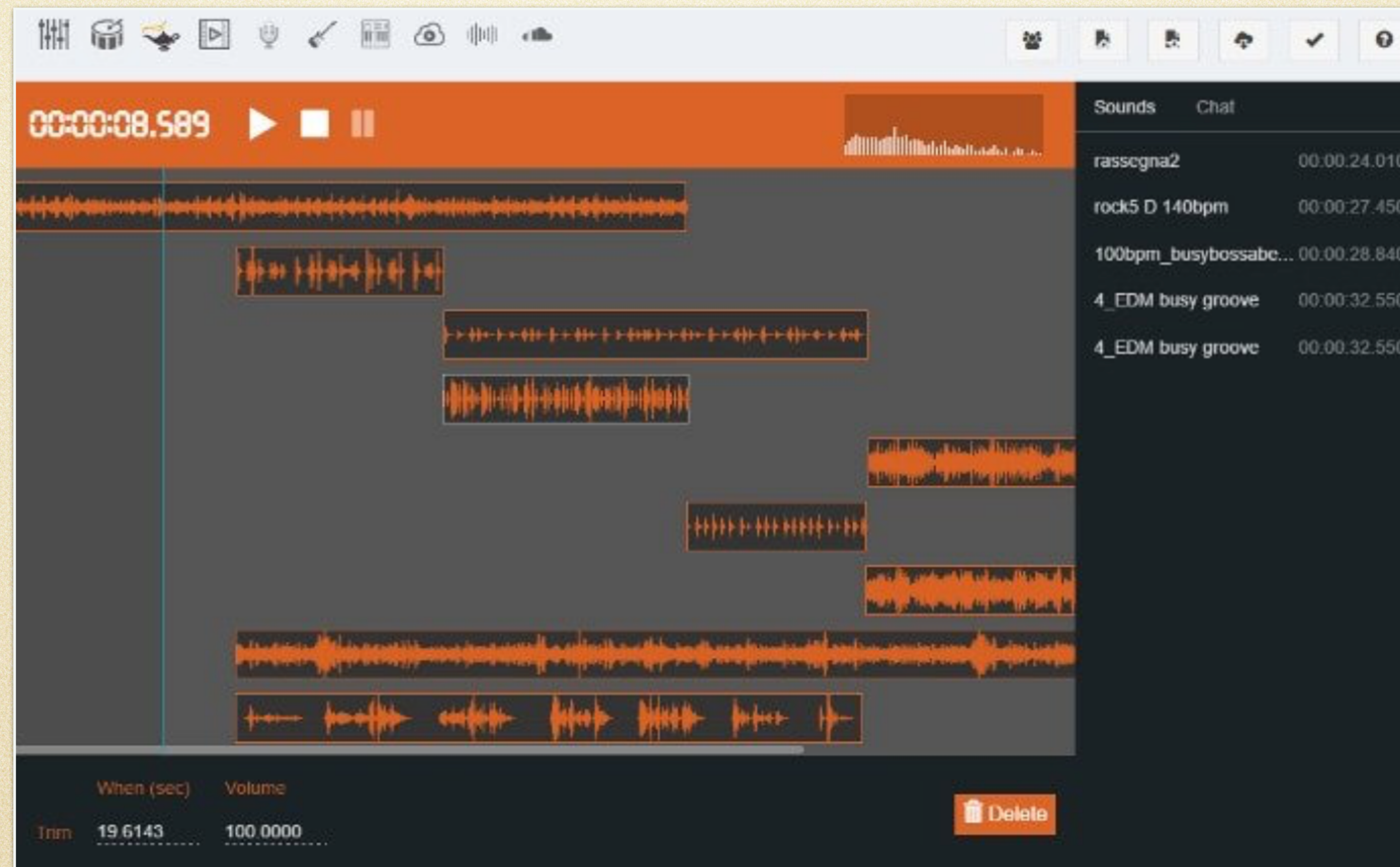
<http://www.audiotoool.com/>



# Creating & Collaborating



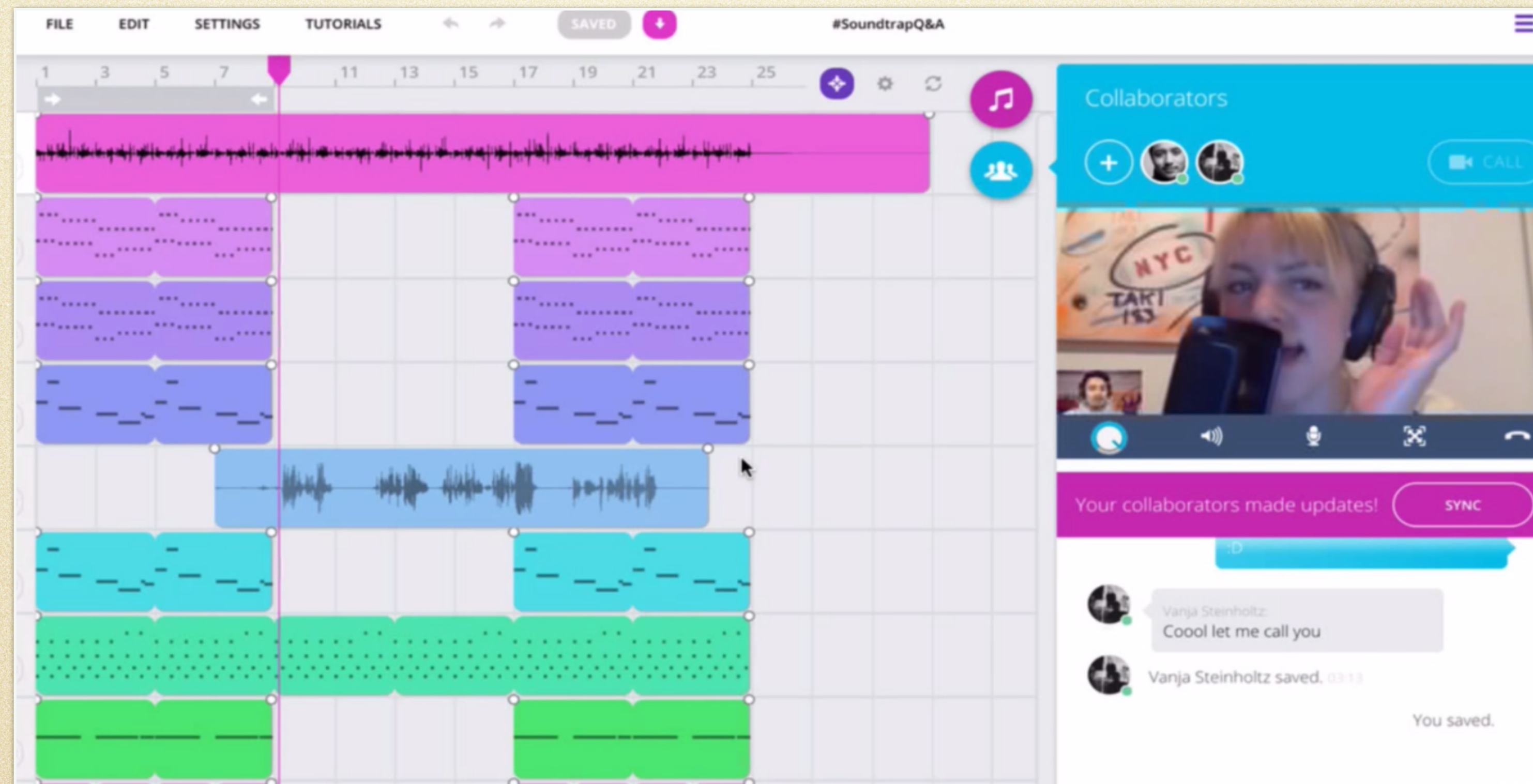
# Snapjam



<https://www.snapjam.co>



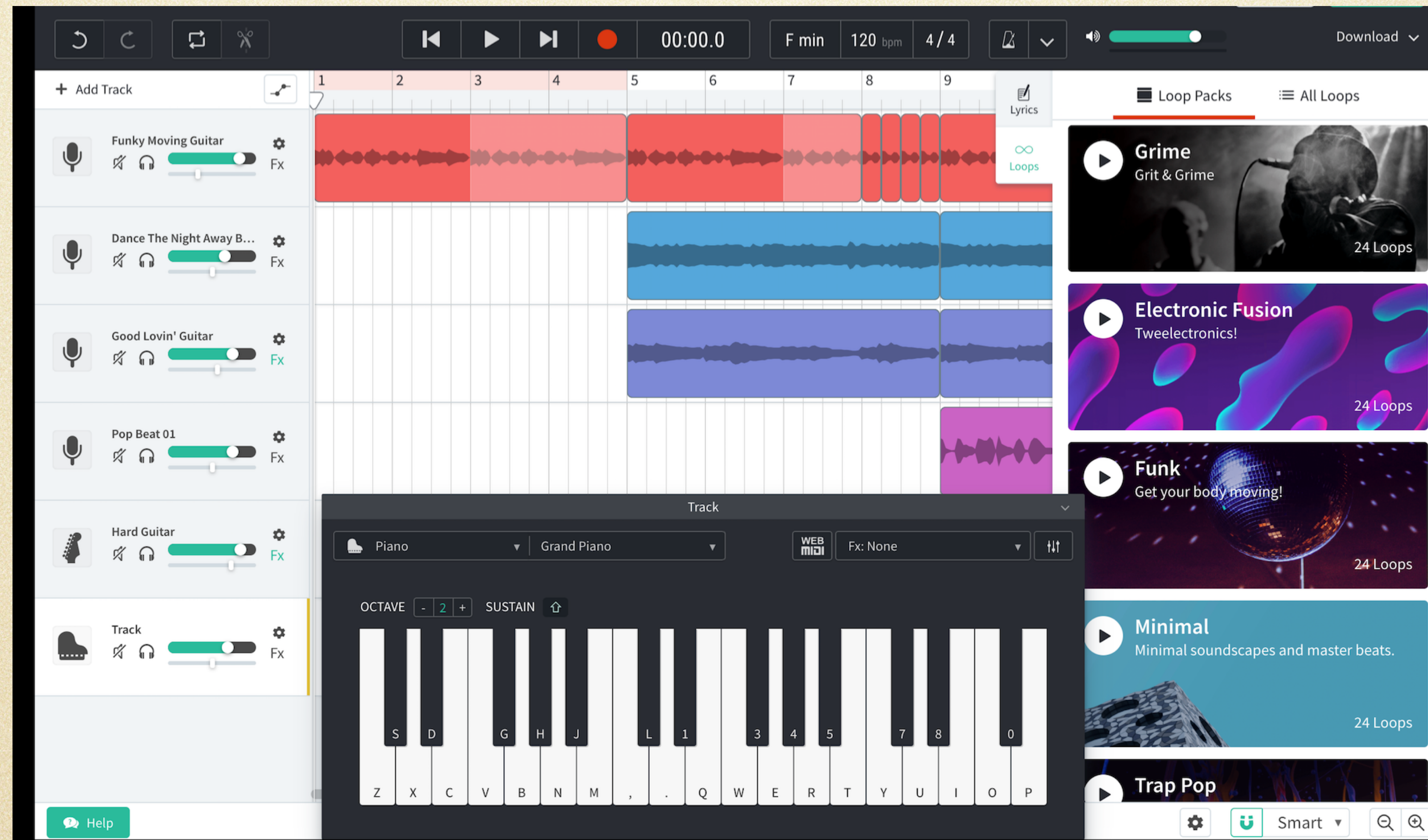
# Soundtrap



<https://www.soundtrap.com/>



# Bandlab



<https://www.bandlab.com/>



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