



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

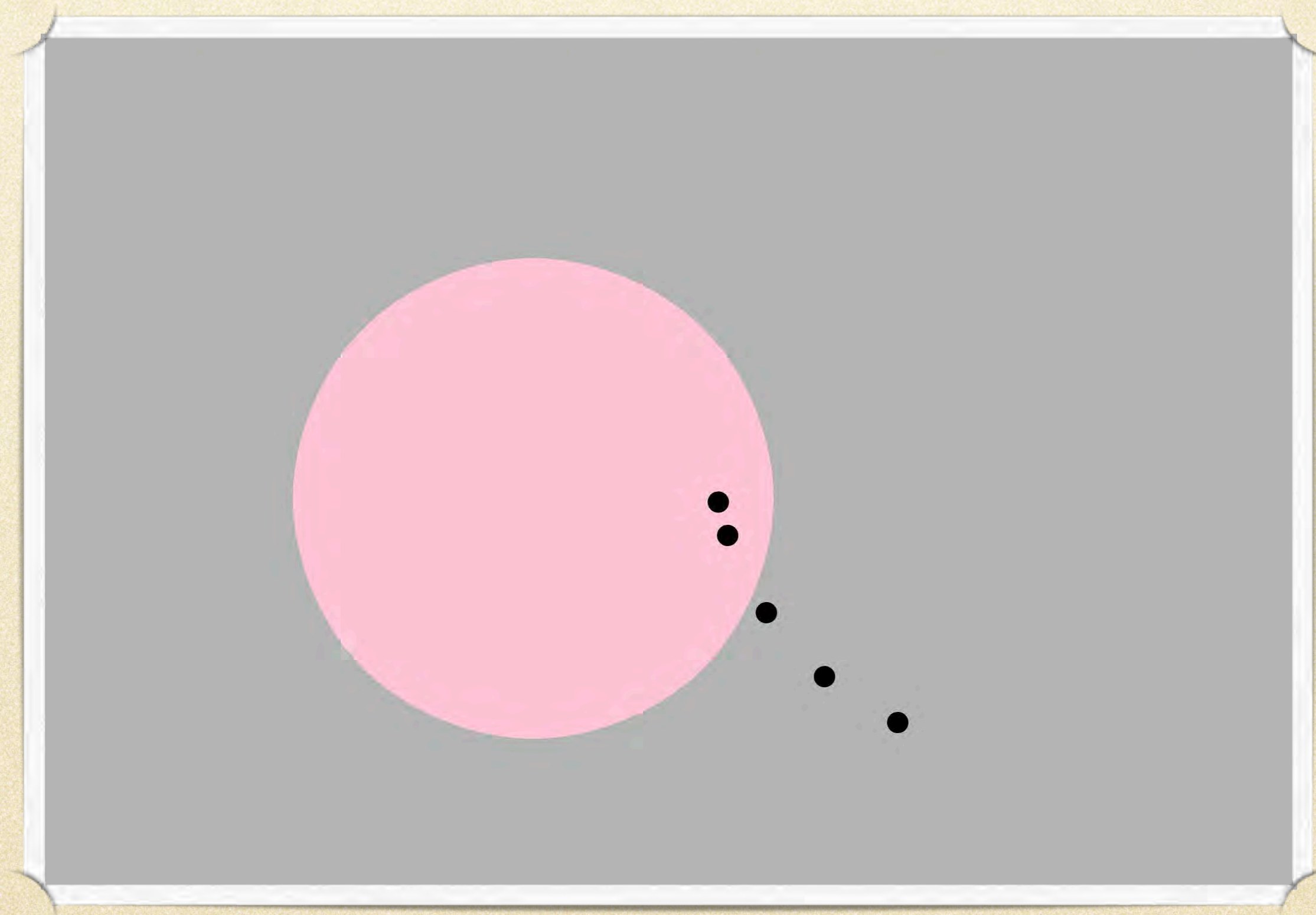
Cons in the Cloud

- application appears, application disappears
- no localization

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

No Threshold

Patatap



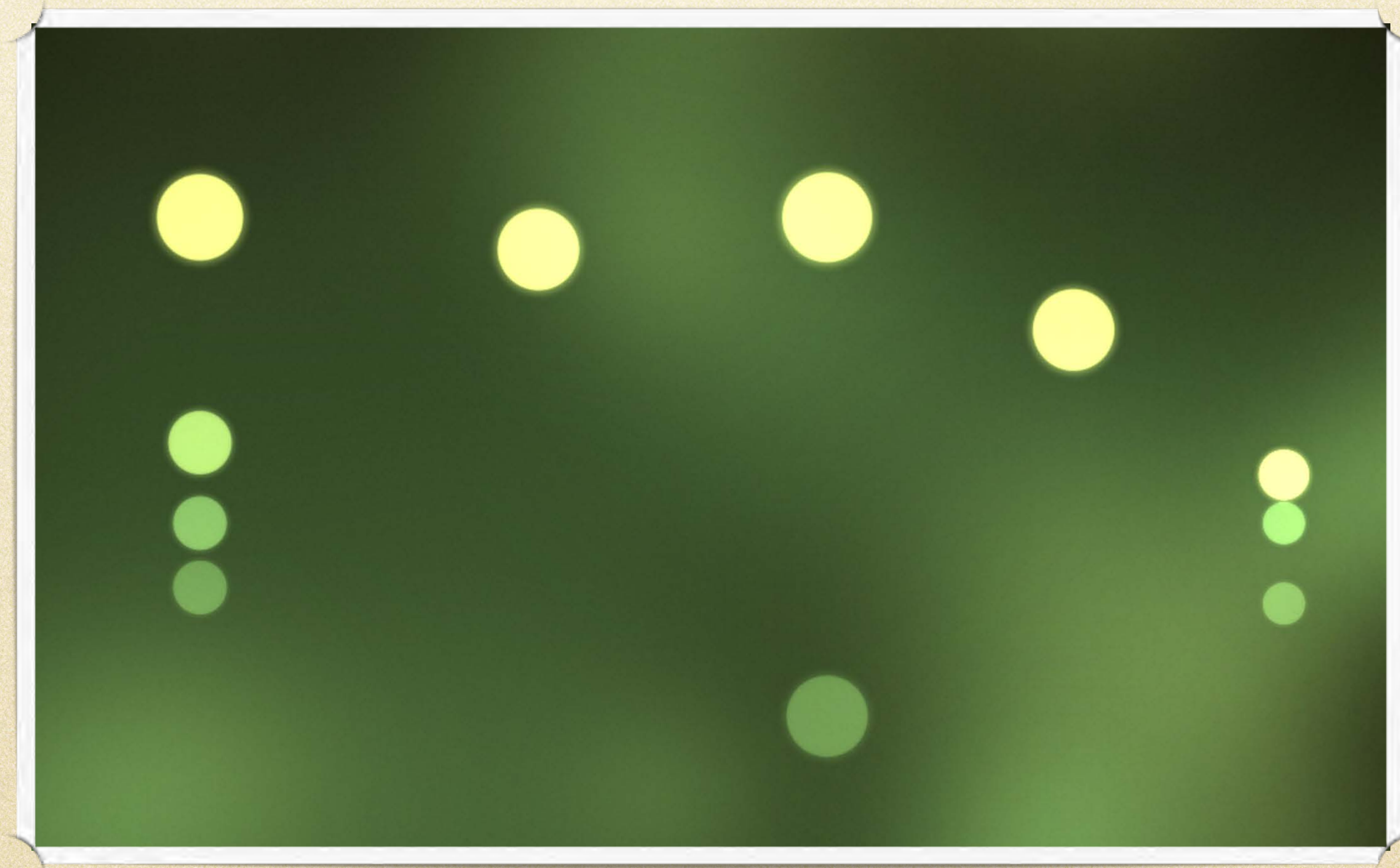
<https://patatap.com>

Typatone

Please write and listen

<https://typatone.com>

Touch Pianist



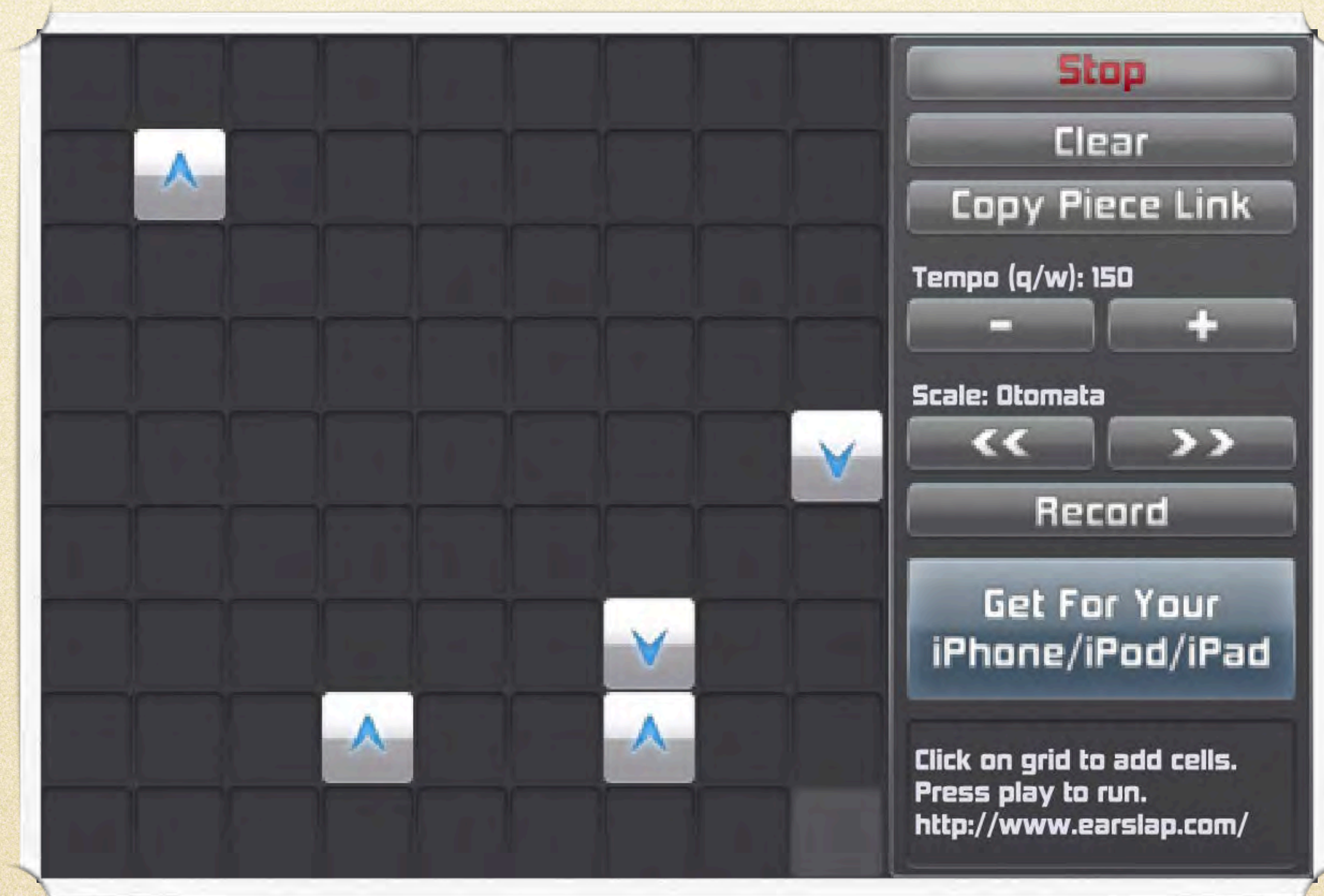
<http://touchpianist.com>

Virtual Drumming



<https://www.virtualdrumming.com>

Otomata



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

Gregorian Voices



MyNoise

Web Audio Modules



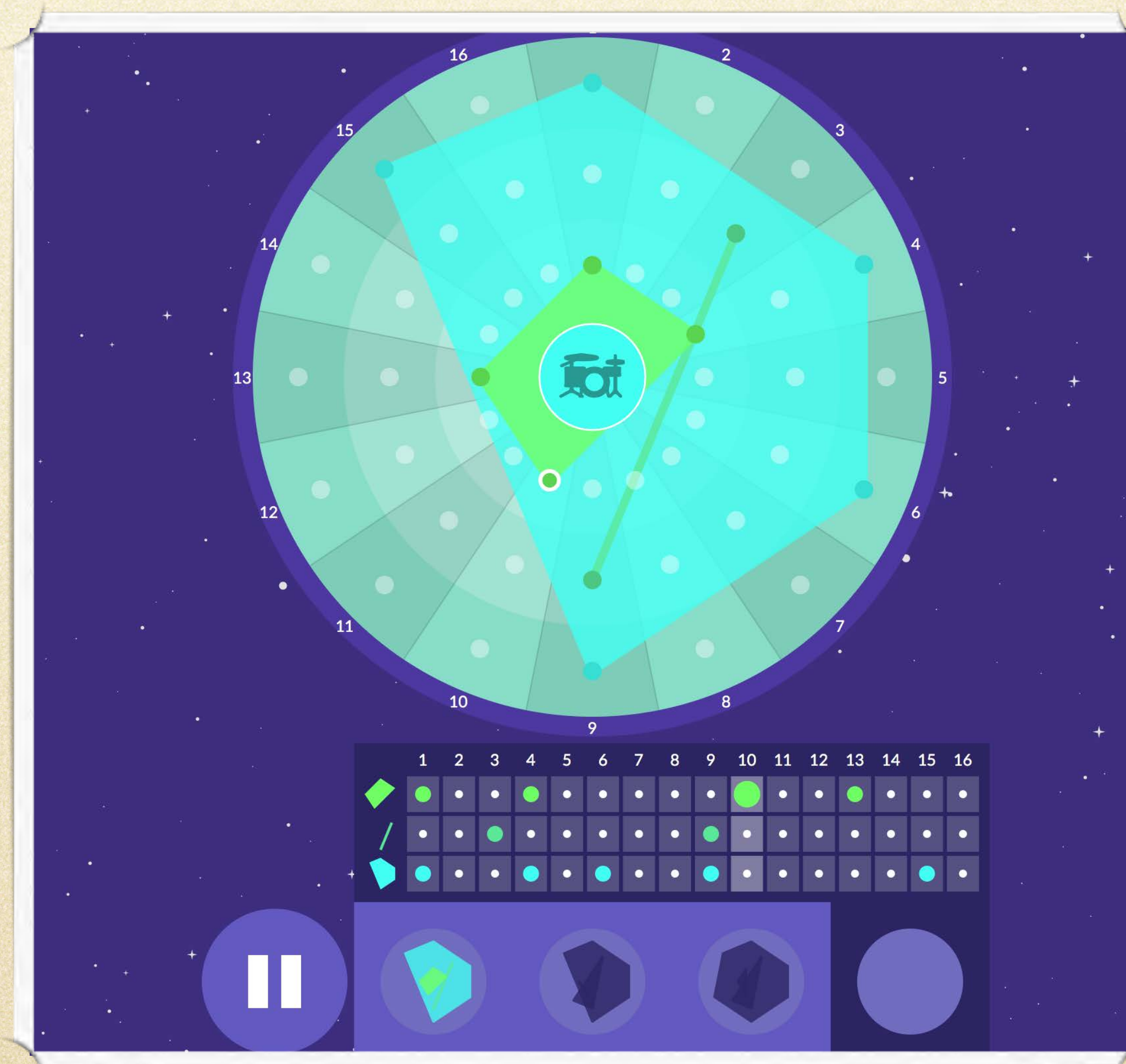
<https://synth.playtronica.com/>

Incredibox



<http://www.incredibox.com>

Groove Pizza



<https://musedlab.org/groovepizza>

aQWERTYon



SCALE TYPE: Minor ▾

SCALE: Minor Pentatonic ▾

ROOT: D4 ▾

VOL:

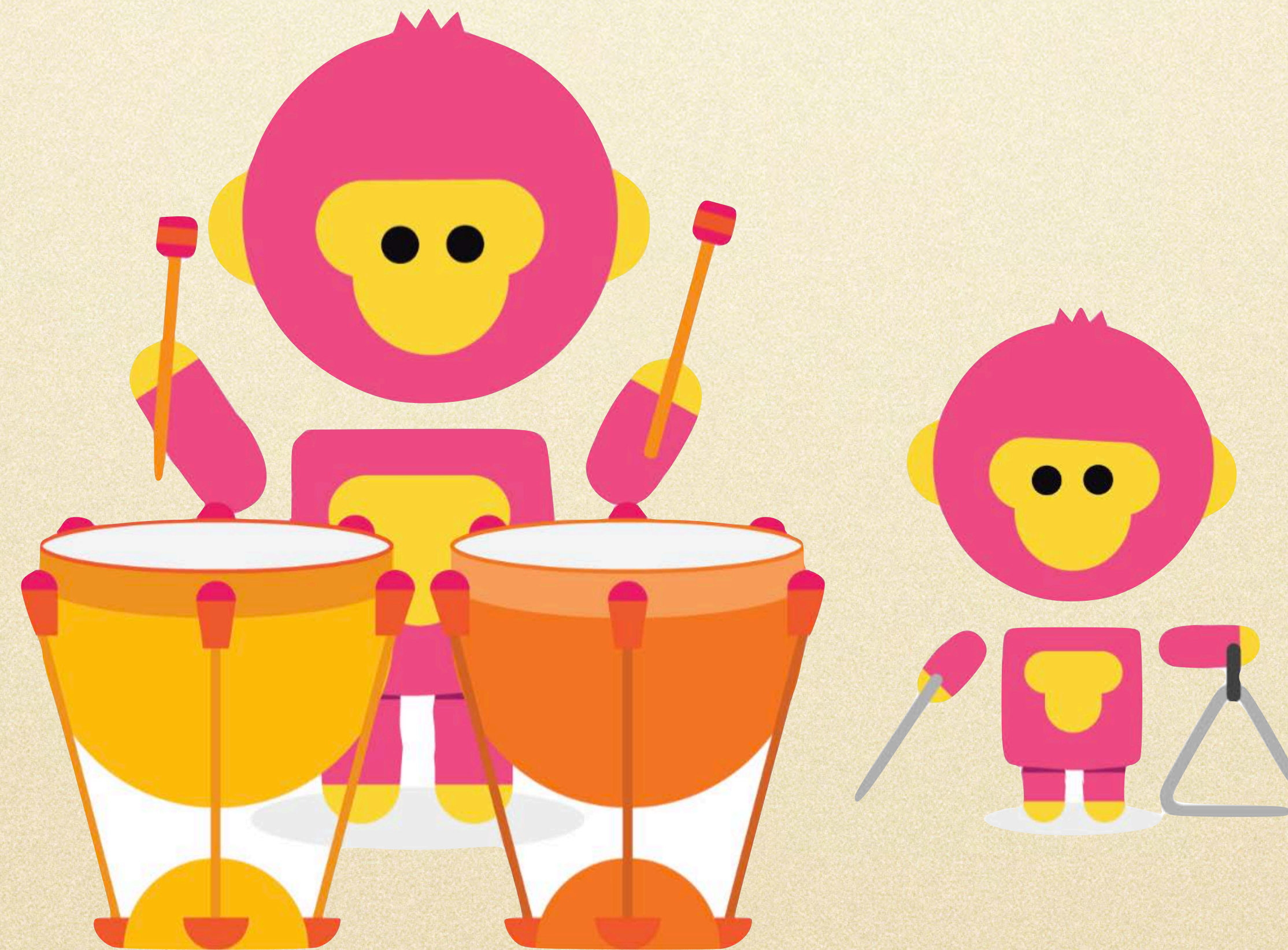
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tab	C	D	F	G	A	C	D	F	G	A	C	D	F
caps lock	G	A	C	D	F	G	A	C	D	F	G	return	
transpose DOWN	D	F	G	A	C	D	F	G	A	C	transpose UP		
fn	ctrl	opt	cmd	space				cmd	opt	left	up	dwn	right

SOUND: Rock Organ ▾

NOTE CAPS: on

<https://musedlab.org/aqwertyon>

CHROME MUSIC LAB



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

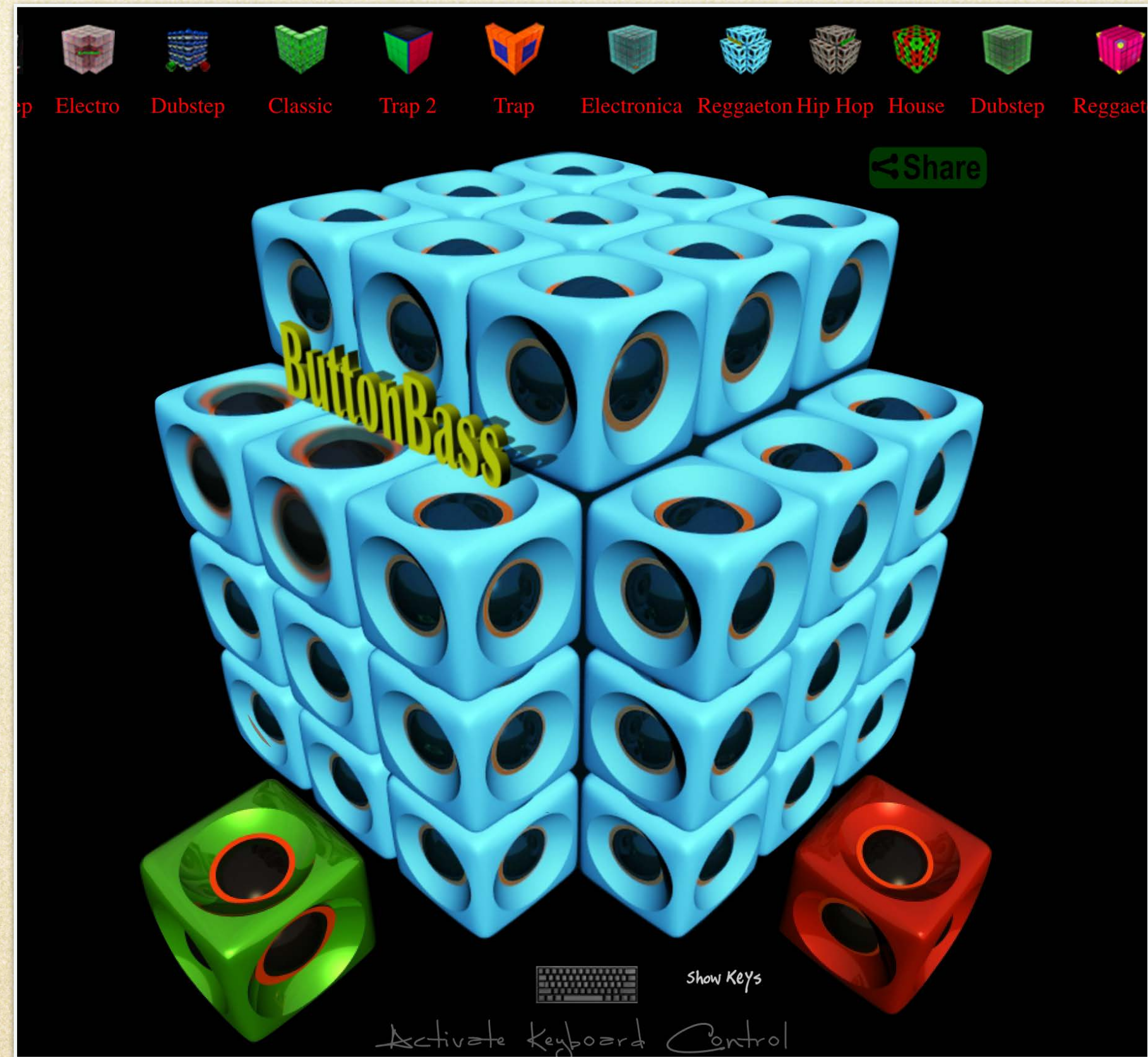
With Keyboard

Tony-B machine



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

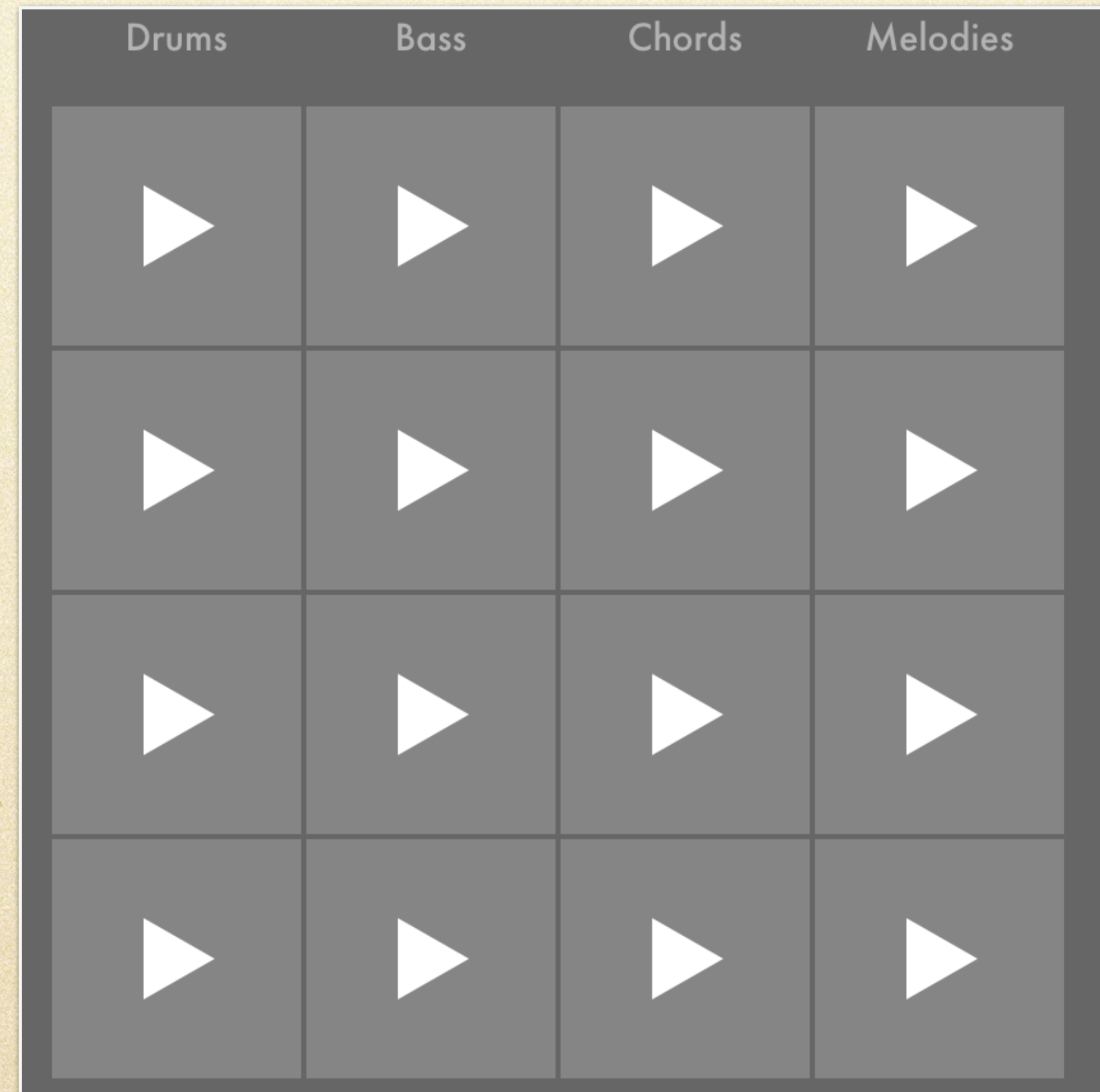
Button Bass



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

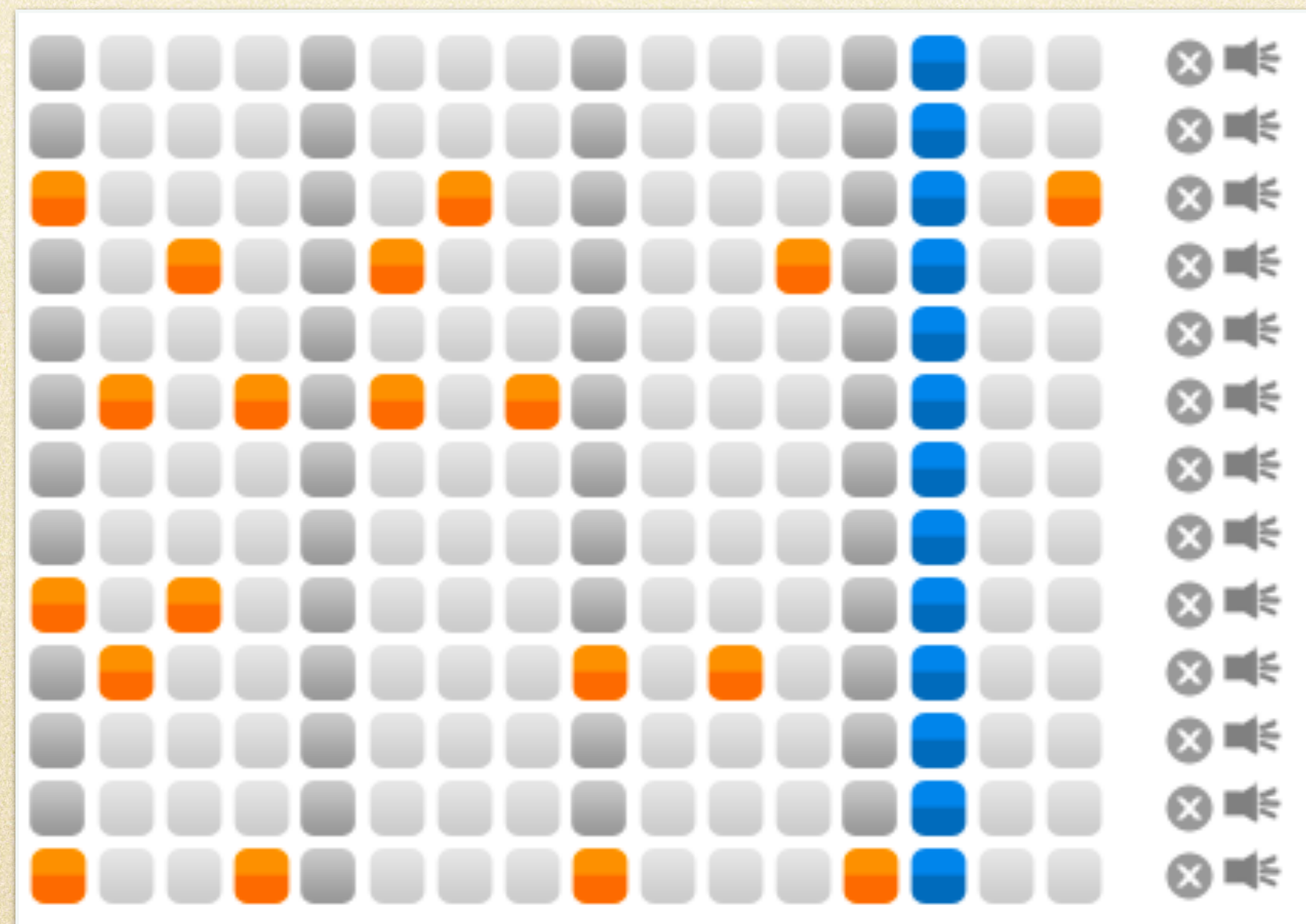
Fill the Grid

Ableton education



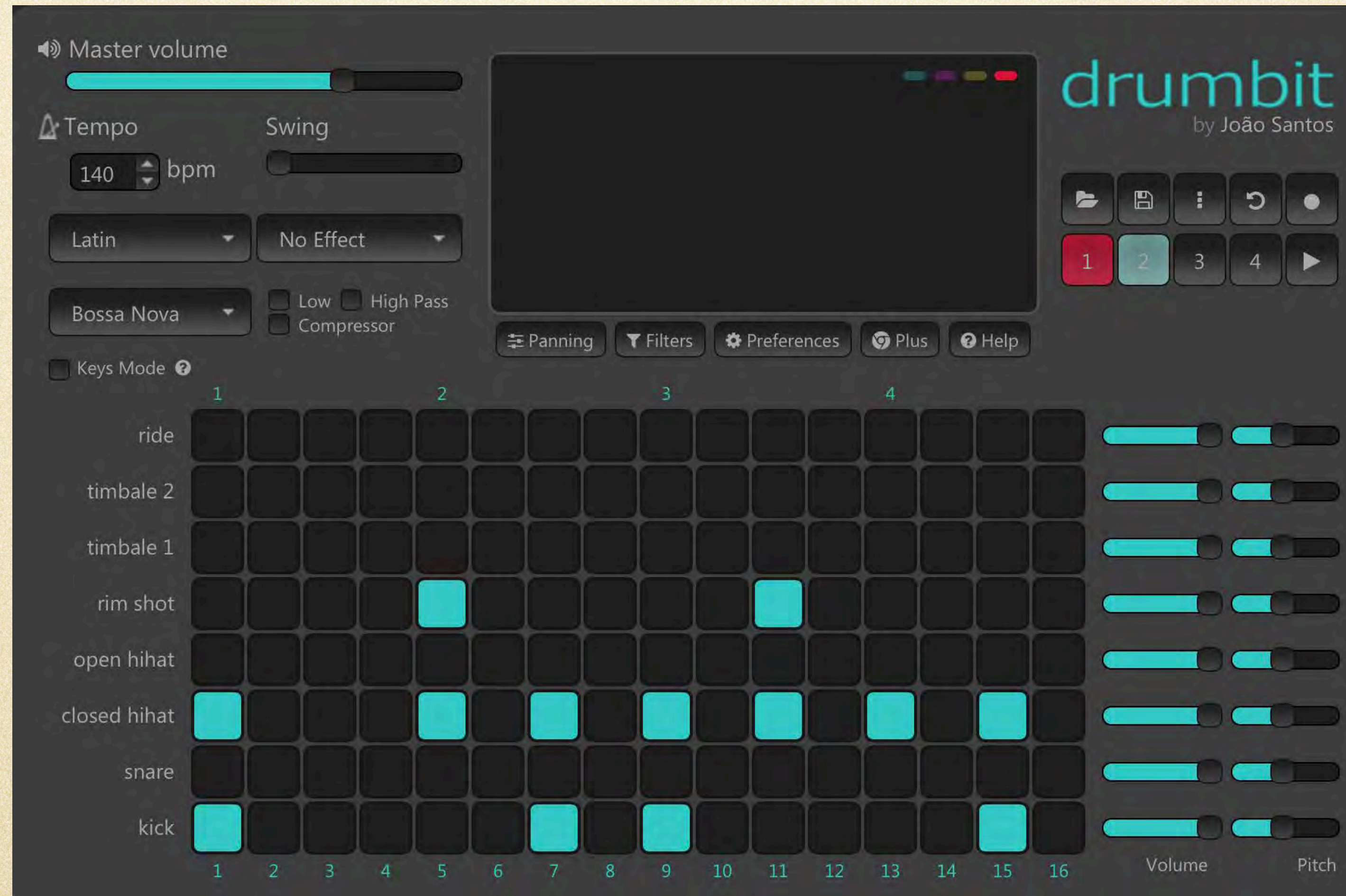
<https://learningmusic.ableton.com>

Beatlab



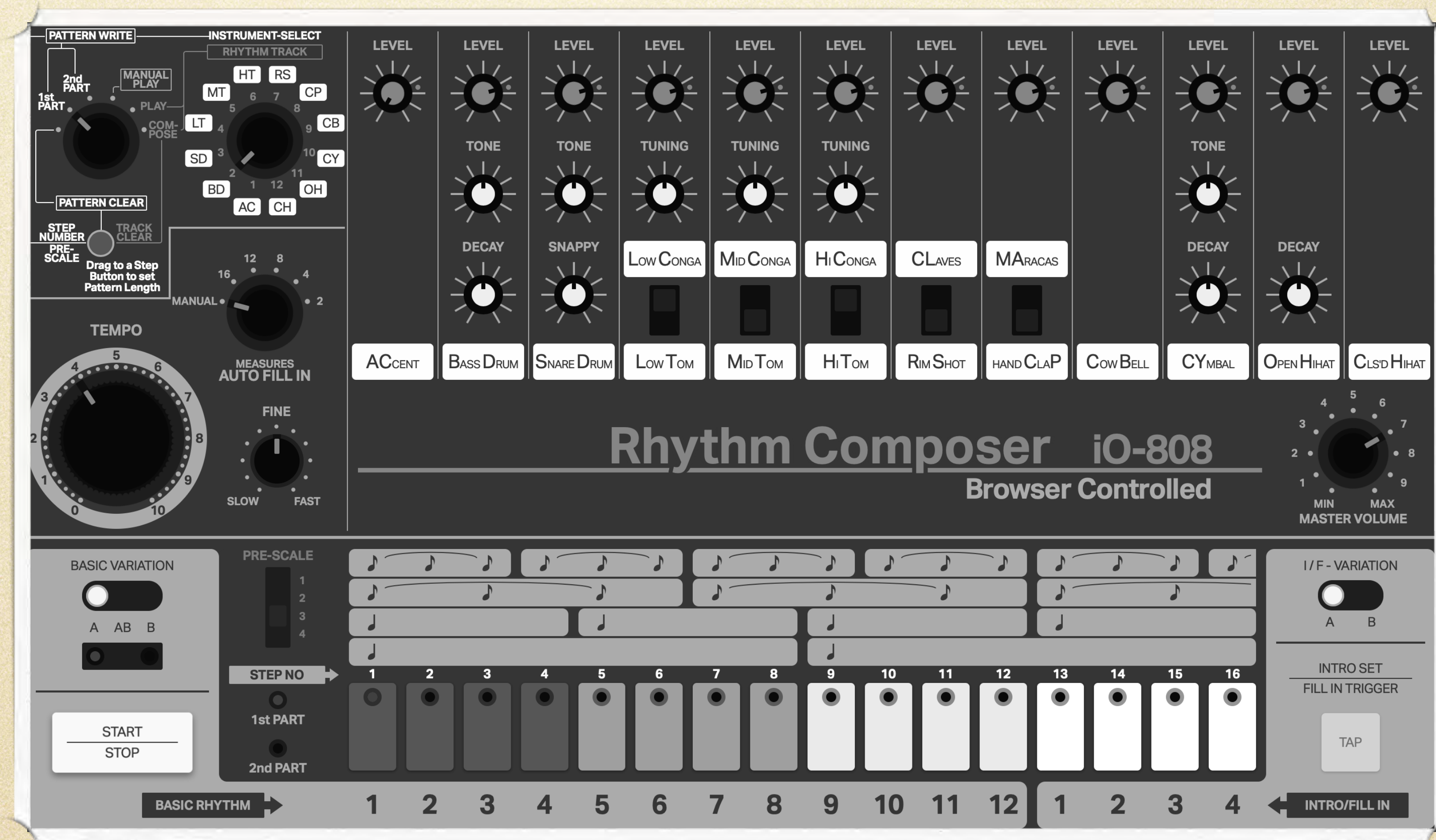
<http://www.beatlab.com/>

Drumbit



<https://drumbit.app>

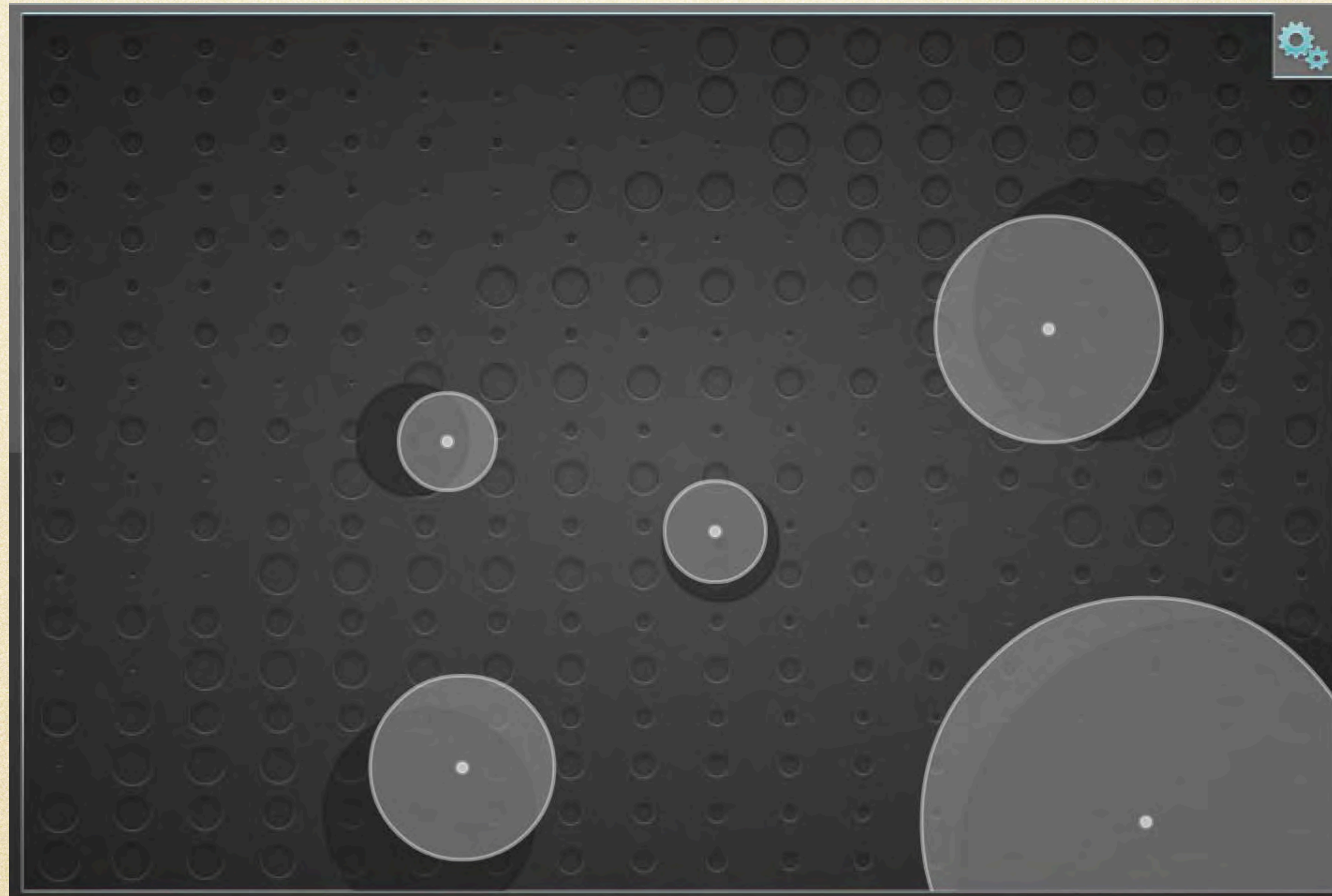
iO-808



<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

The screenshot displays the Noteflight web application interface. At the top, there is a toolbar with icons for Play, Transcribe, Record, Save, Instruments, Sync Audio, Page View, Zoom, Keyboard, Help, and Connect. Below the toolbar, there are tabs for score, tempo, text, and measure. The main area shows a musical score for a piece titled "Taikahuilu". The score is written for a single part, labeled "(Part)". The lyrics are in German: "Wie stark ist nicht dein Zau - ber - ton weil, hol - de Flö - te, hol-de". The score is written in treble and bass clefs, with a key signature of one sharp (F#) and a time signature of common time (C).

noteflight Play Transcribe Record Save Instruments Sync Audio Page View Zoom Keyboard Help Connect

score tempo text measure

Taikahuilu
(Lyricist) (Subtitle) (Composer)

(Part)

Wie stark ist nicht dein Zau - ber - ton weil, hol - de Flö - te, hol-de

<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. The main area shows a musical score for two instruments: Grand Piano and Celesta. The Grand Piano part is written in 4/4 time with a key signature of three flats (B-flat, E-flat, A-flat). The tempo is marked as 160 beats per minute. The score begins with a *pp* (pianissimo) dynamic and a *Red.* (ritardando) marking. The Celesta part is also in 4/4 time and features a steady eighth-note accompaniment. The score is presented in a clean, professional layout with standard musical notation.

<https://flat.io/>

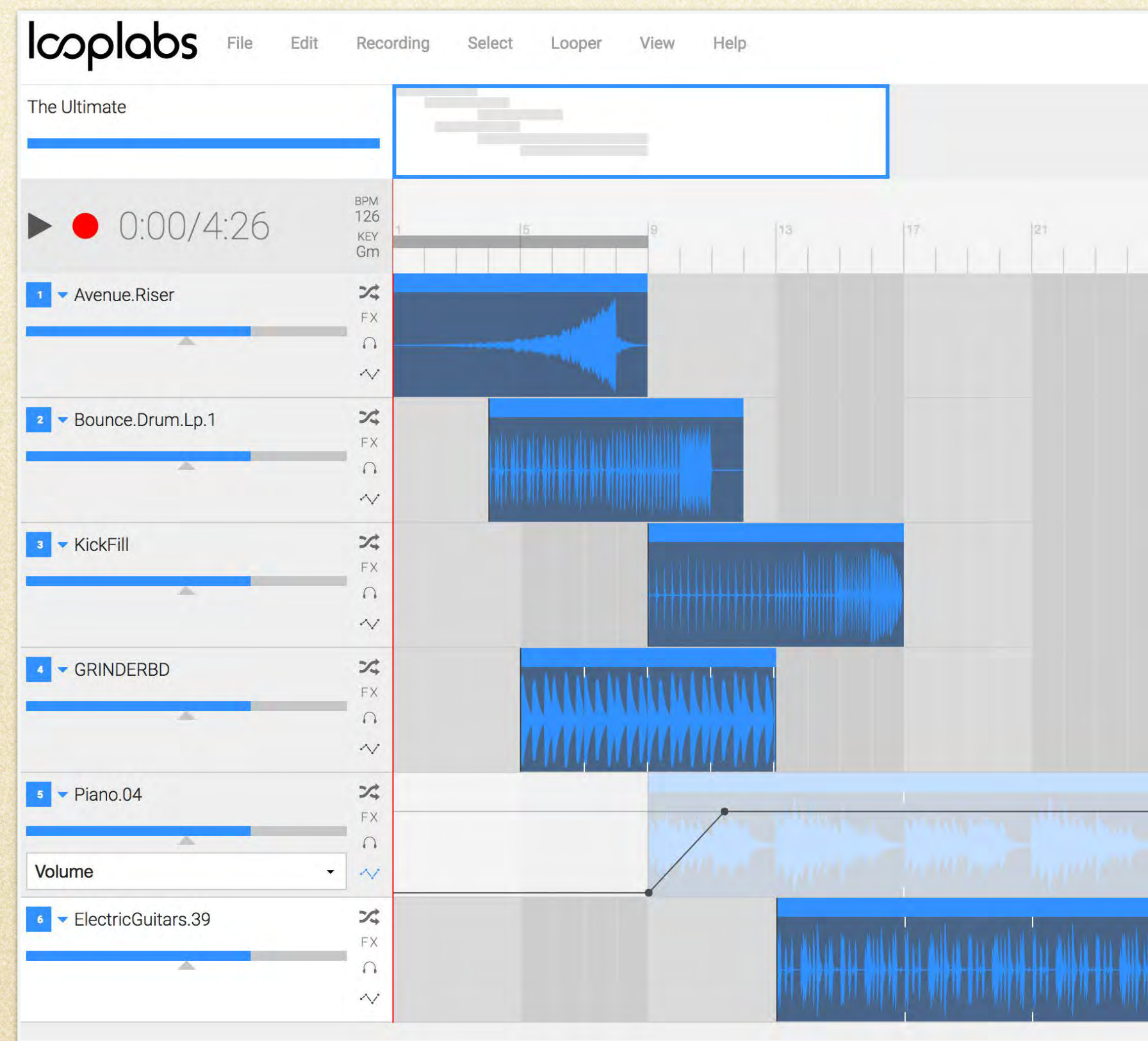
Loops & Sequencing

JamStudio



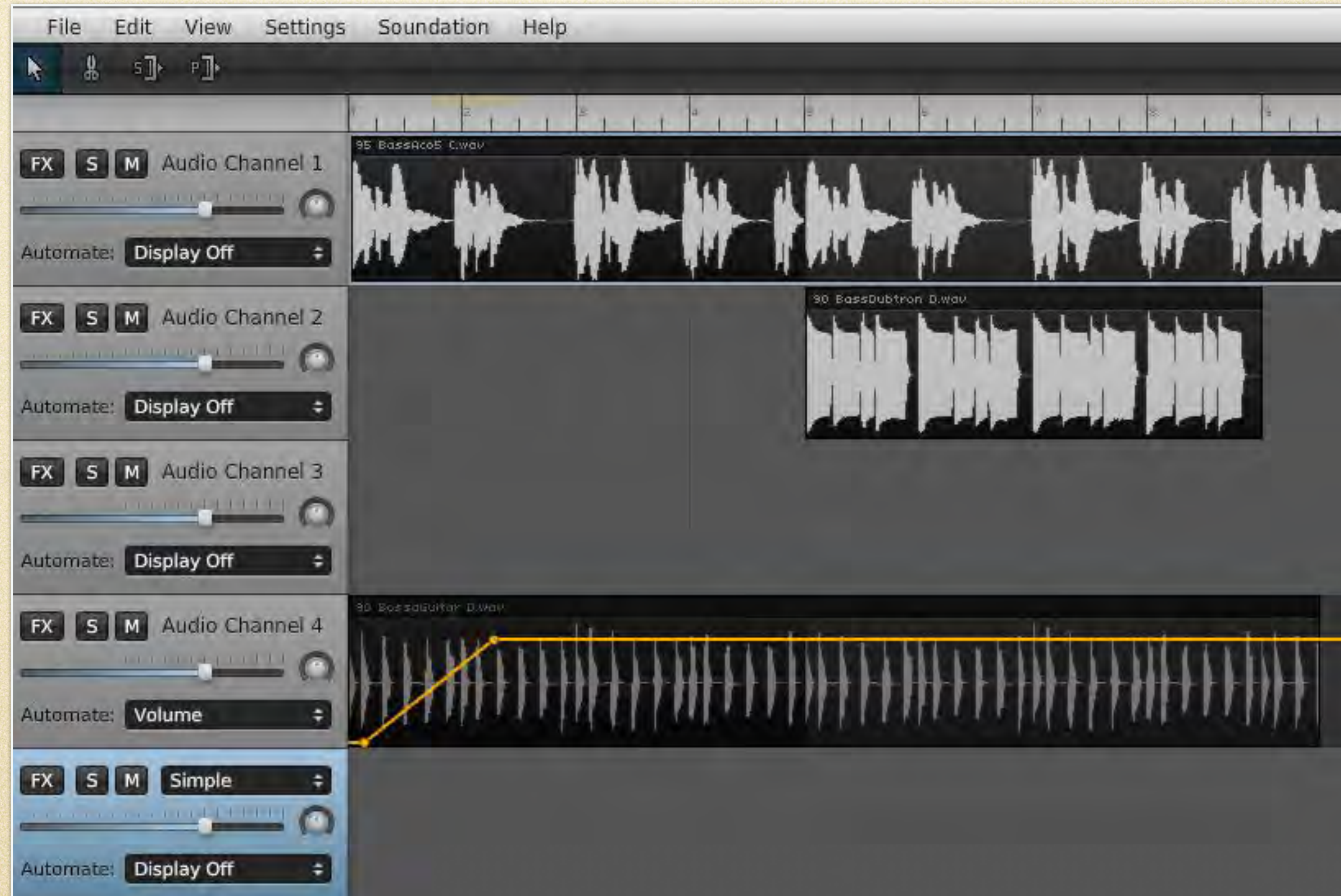
<http://www.jamstudio.com/Studio/indexStudio.htm>

Looplabs



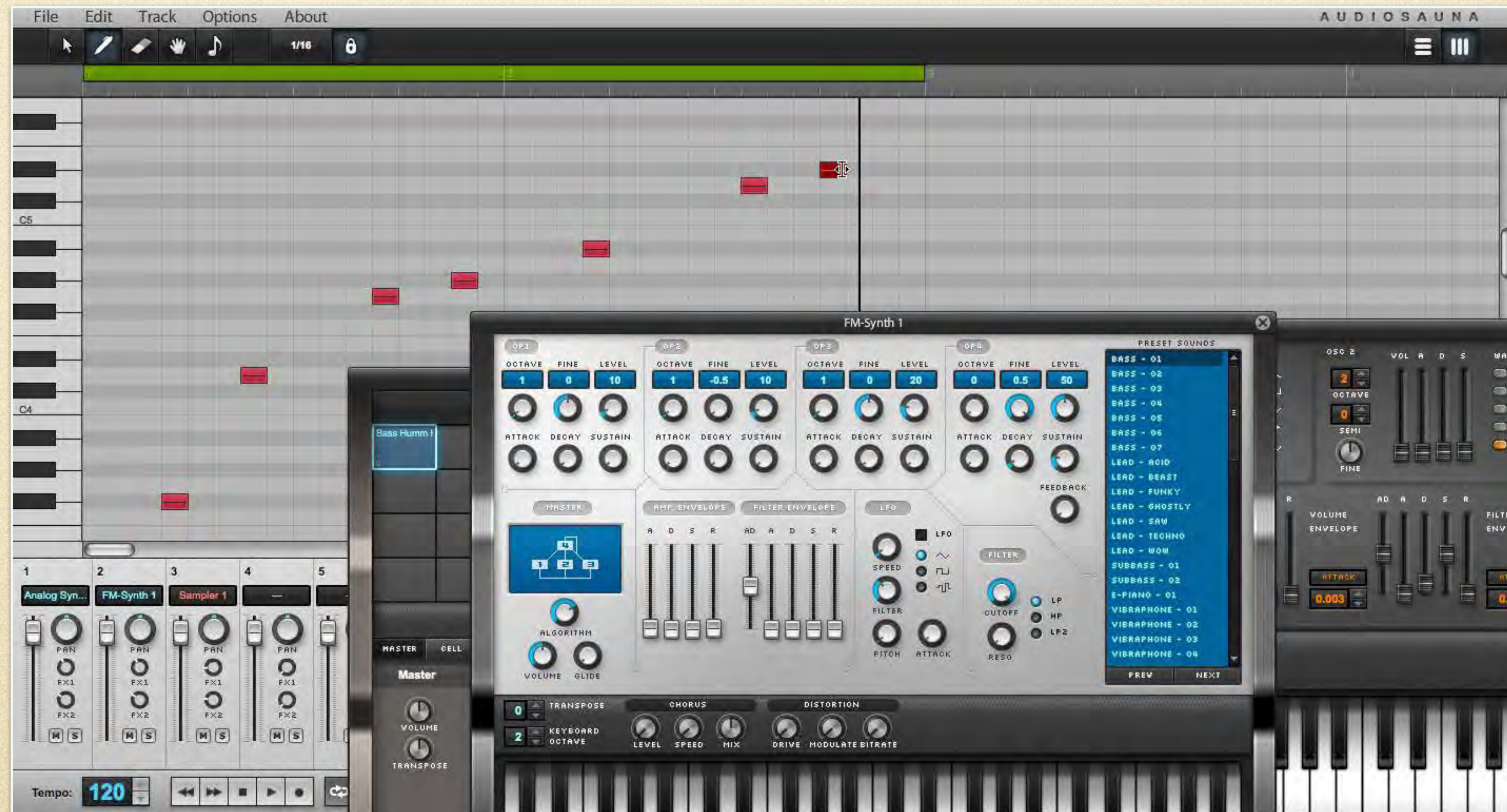
<https://www.looplabs.com/studio/>

Soundation



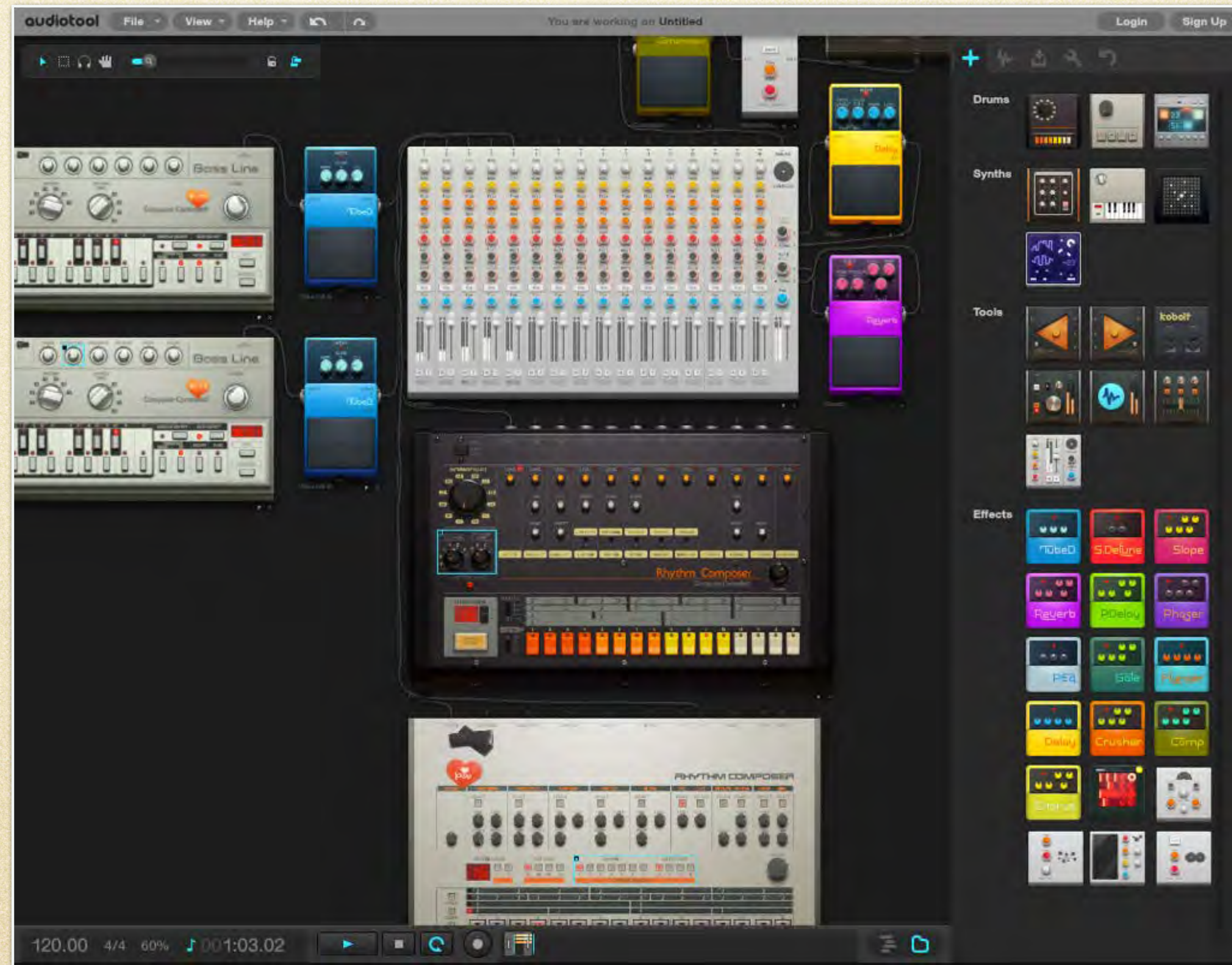
<http://soundation.com/studio>

Audio Sauna



<http://www.audiosauna.com>

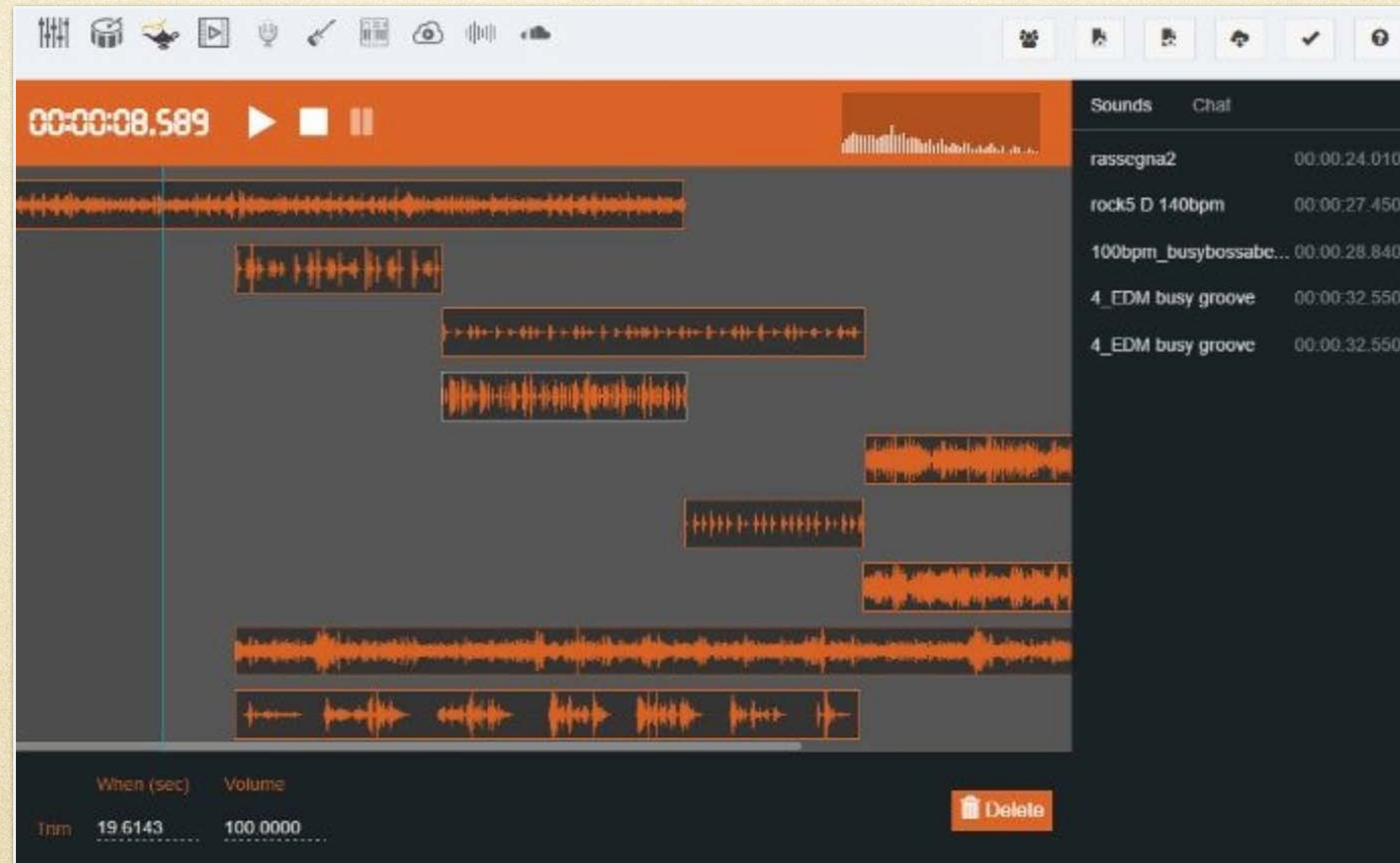
Audiotool



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

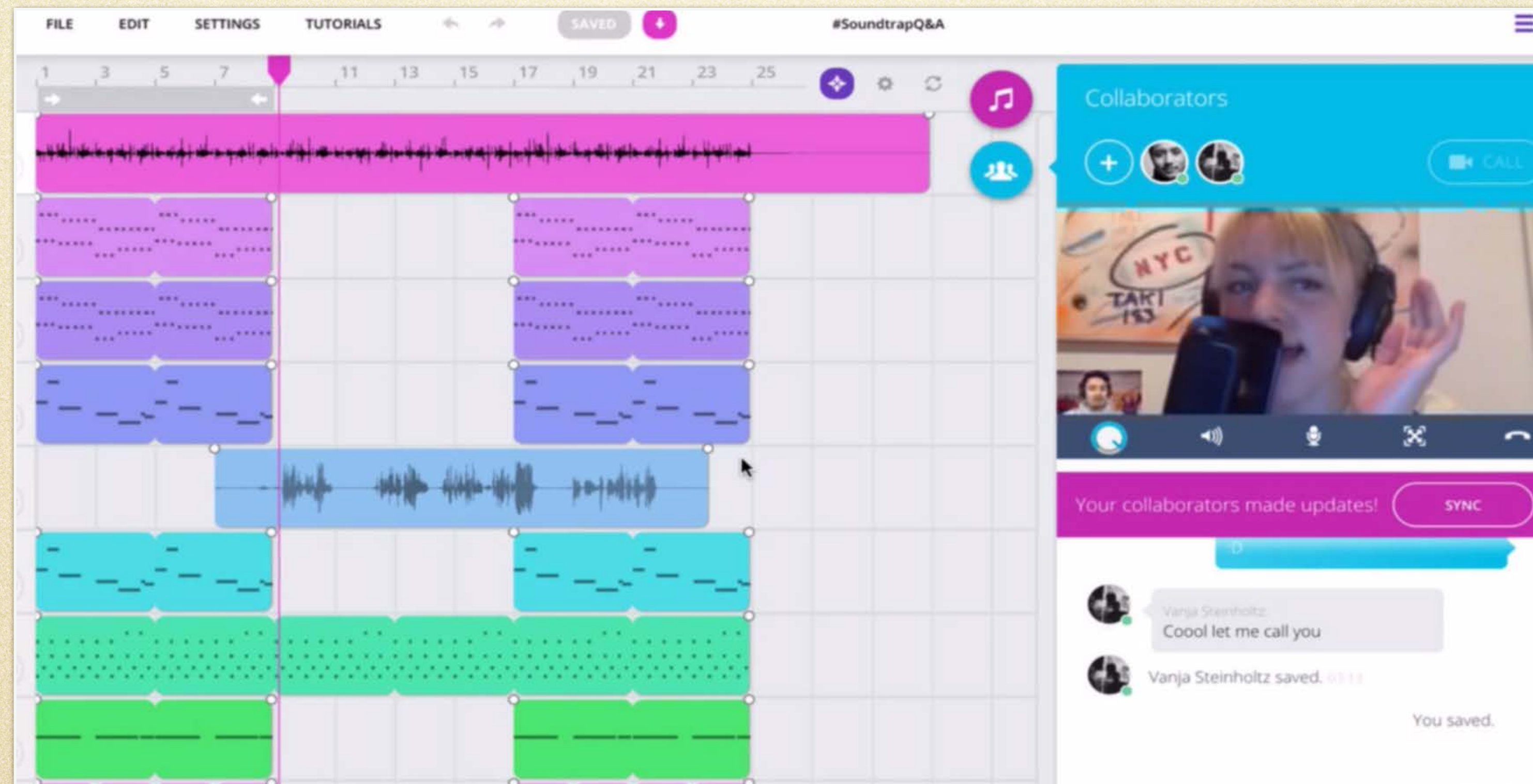
Creating & Collaborating

Snapjam



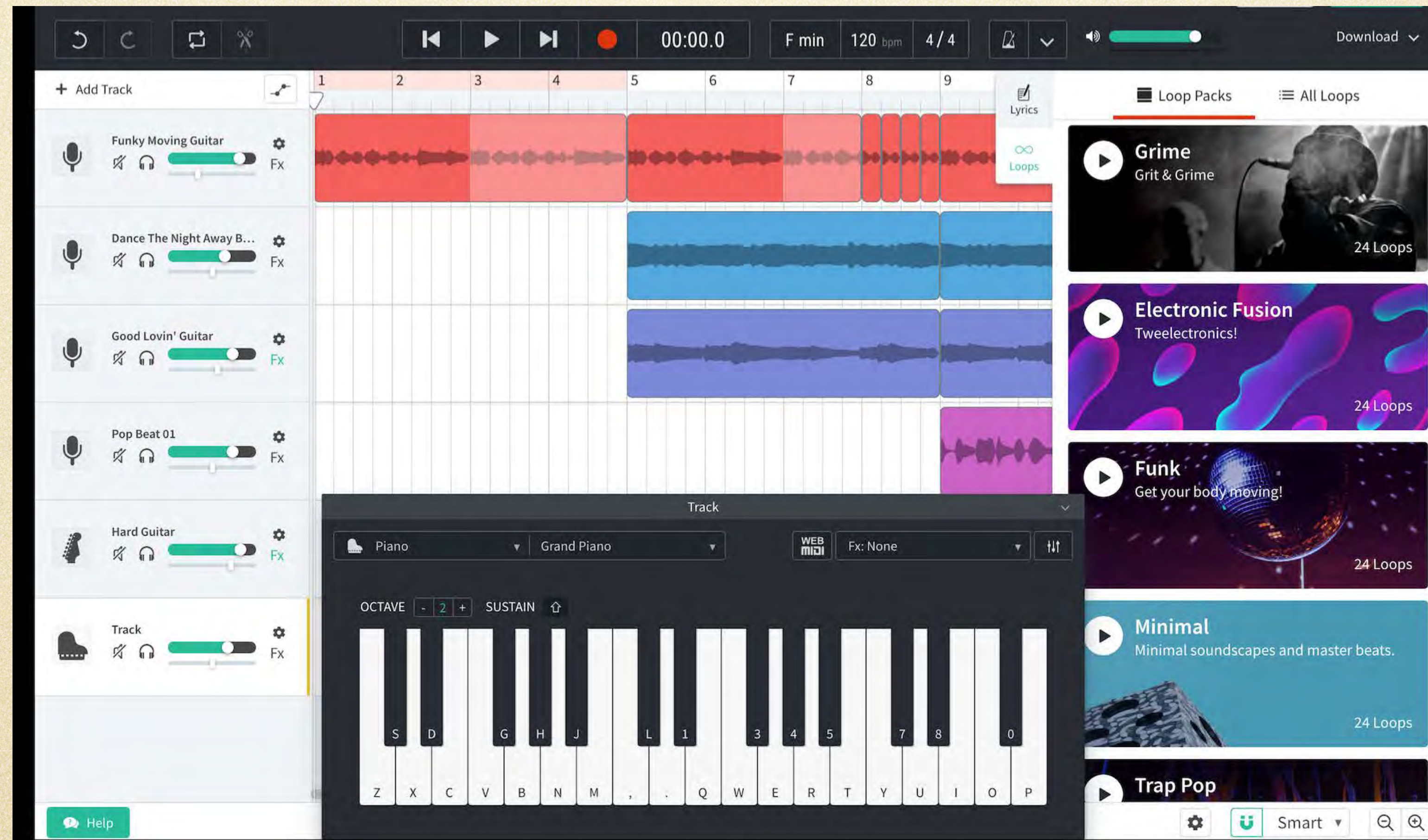
<https://www.snapjam.co>

Soundtrap



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

Bandlab



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

Zero Cost Music Making

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