

# 第2課:探索電子樂器


## 特雷門琴 (Theremins)

探索特雷門琴和基於手勢的控制。

## 聲音

了解電子聲音產生。

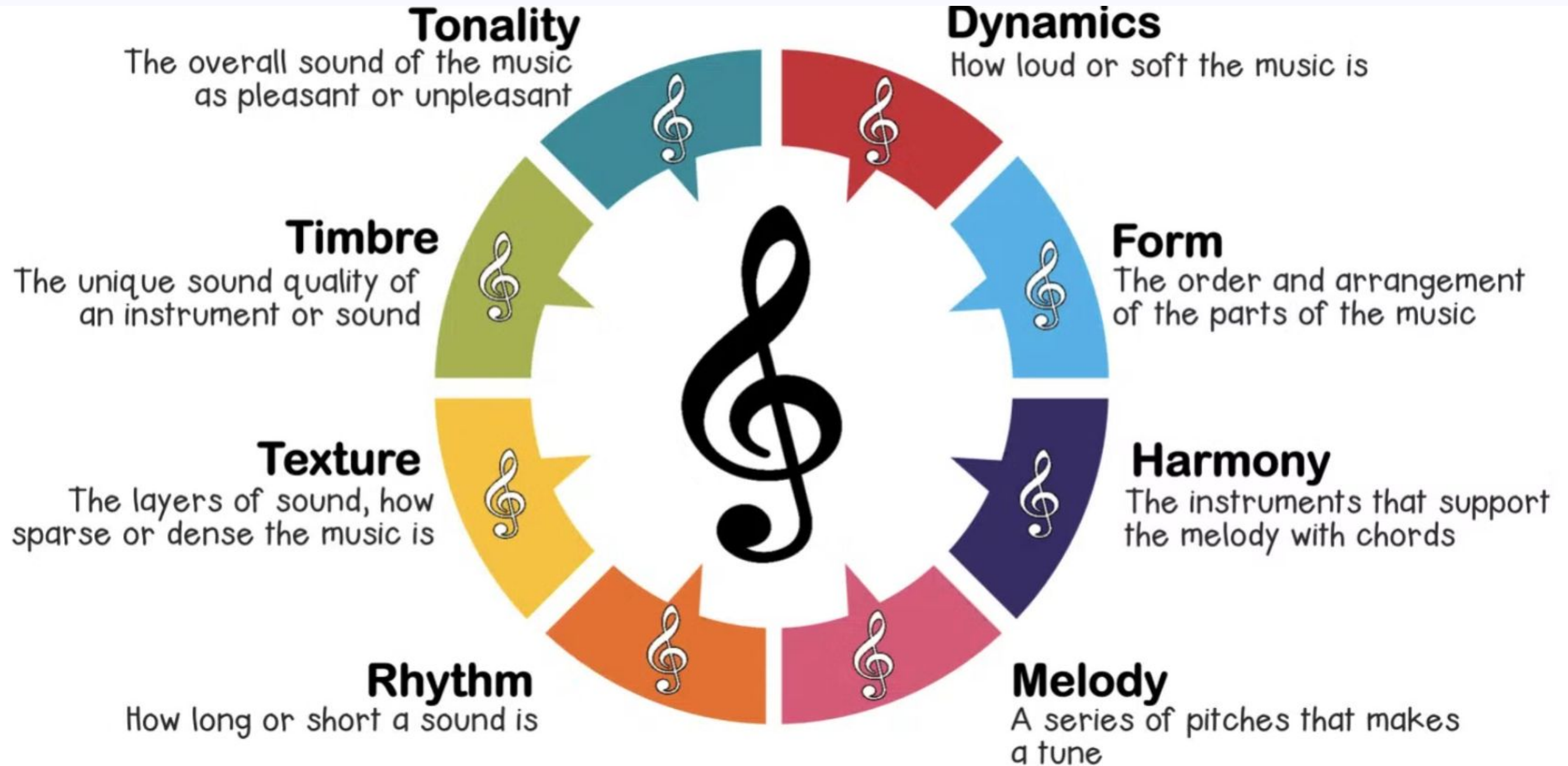


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### **01 Music Basics - What is Music?**

Music theory from the very beginning. If you want to know how to write music, want help revising for exams at school, or just interested in how music works, then this...



# 電子音樂/樂器的核心元素



## 節奏

音樂中時間的模式 – 控制音符何時播放以及持續多長時間。在電子樂器中,節奏可以通過編程或在導電表面上觸摸模式來精確控制。



## 音色

區分不同樂器的聲音質量和特性。通過我們的Arduino和VS1053設置,我們可以操縱電子信號以從單一接口產生各種音色。



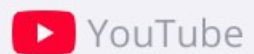
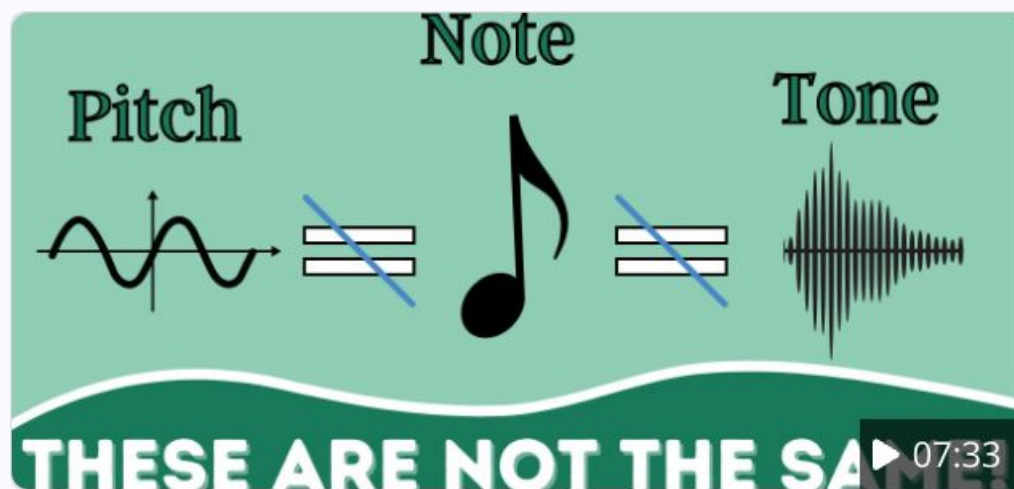
## 旋律

組成主要可識別主題的音符序列。”墨奏”允許不同的導電墨水圖案觸發旋律。



## 力度

音符大小聲或小聲的變化。



YouTube



### The Difference Between Pitch, Note, and Tone

If you'd like to support my channel, consider joining on Patreon:

<https://shorturl.at/Tw3Mu> This is episode 1 of the music fundamentals series!...

## What do Electronic Waveforms Sound Like

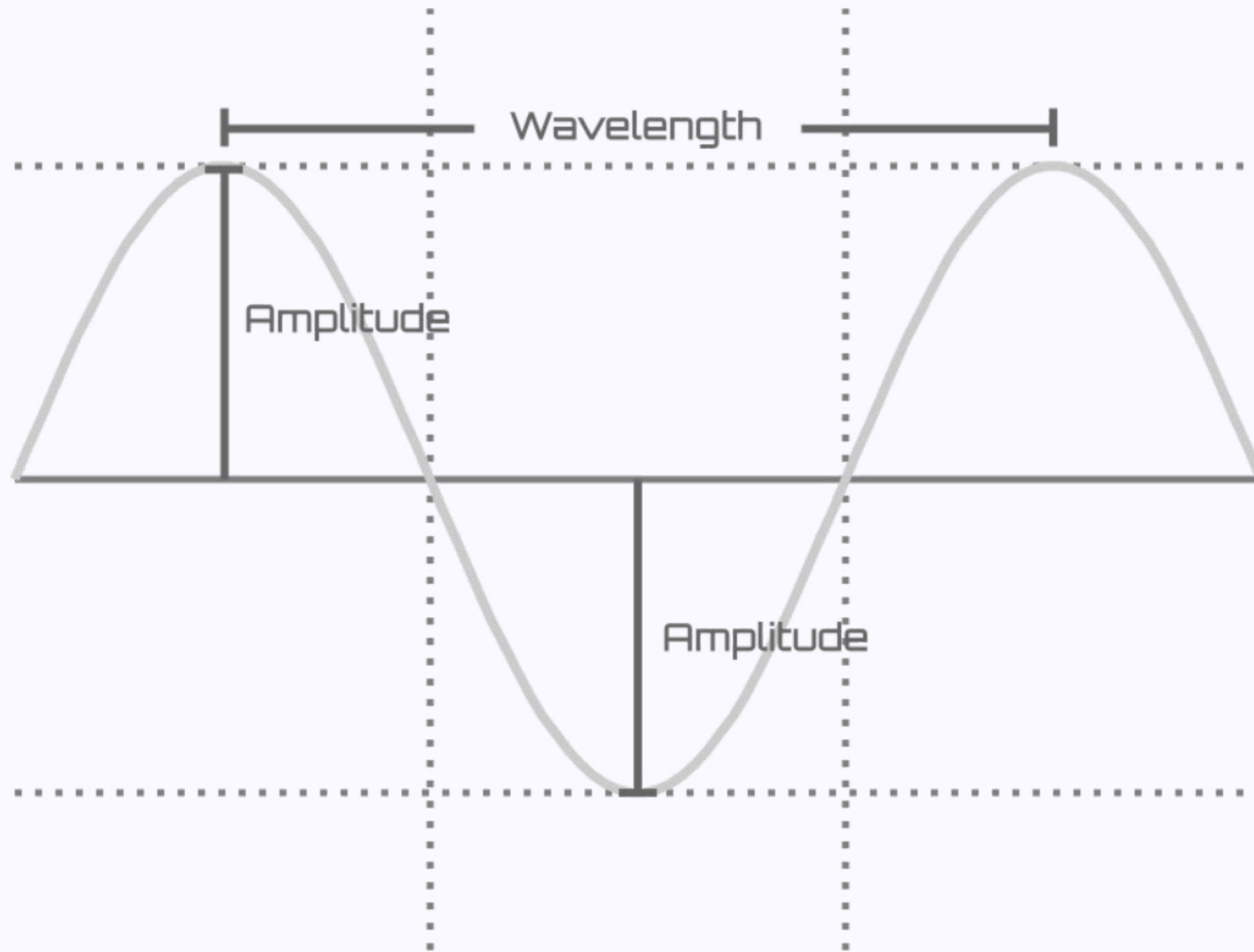


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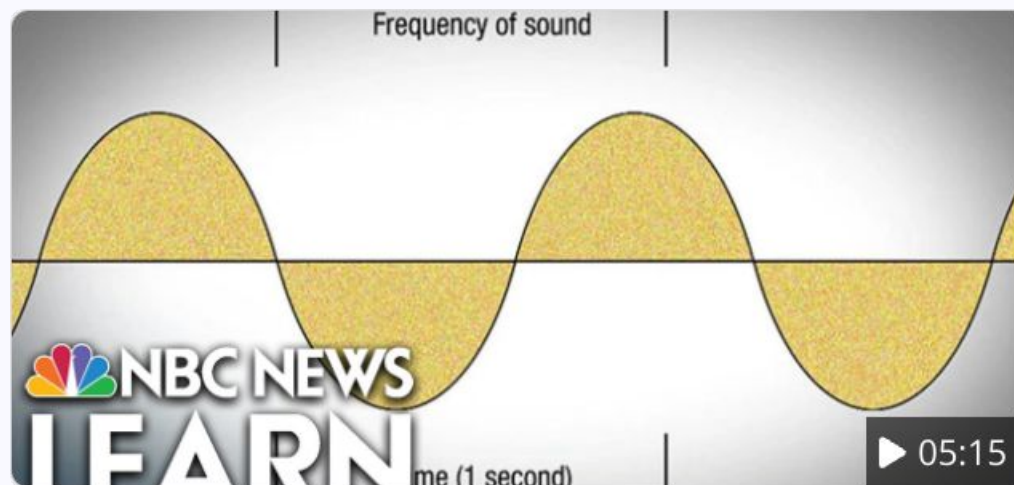



### What do Electronic Waveforms Sound Like

This video gives you the key information about common waveforms found in electronics and lets you hear what they actually sound like. The waveforms include...







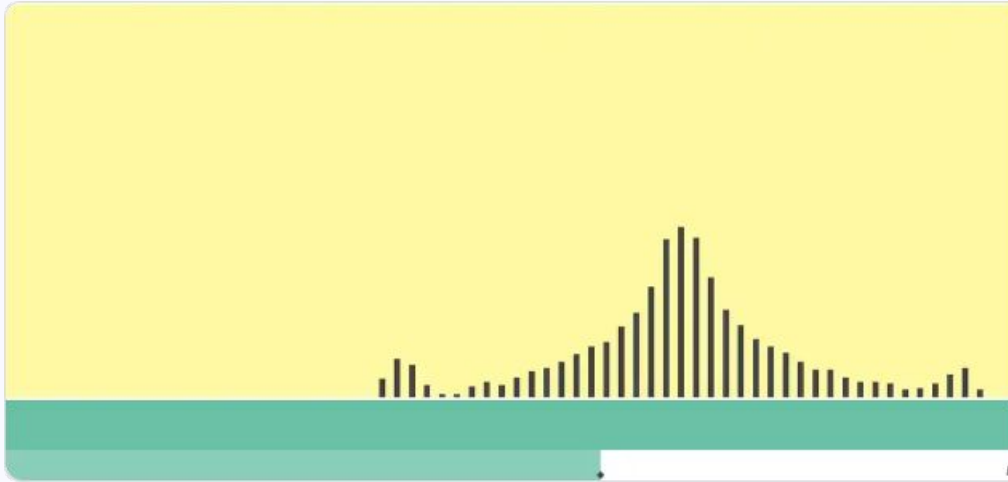
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## Sound Waves

Sound, Sound Waves, Waves, Vibration, Matter, Vibrate, Vibration, Guitar, Singing, Song, Vocal Chord, String, Frequency, Pitch, Energy, Volume, Amplitude





 davay42



### Theremin | Web Synths Collection by Playtronica & Chromatone

Experience the magic of the theremin with this interactive web-app by Femur Design. Harness the power of motion to create ethereal music without physical...

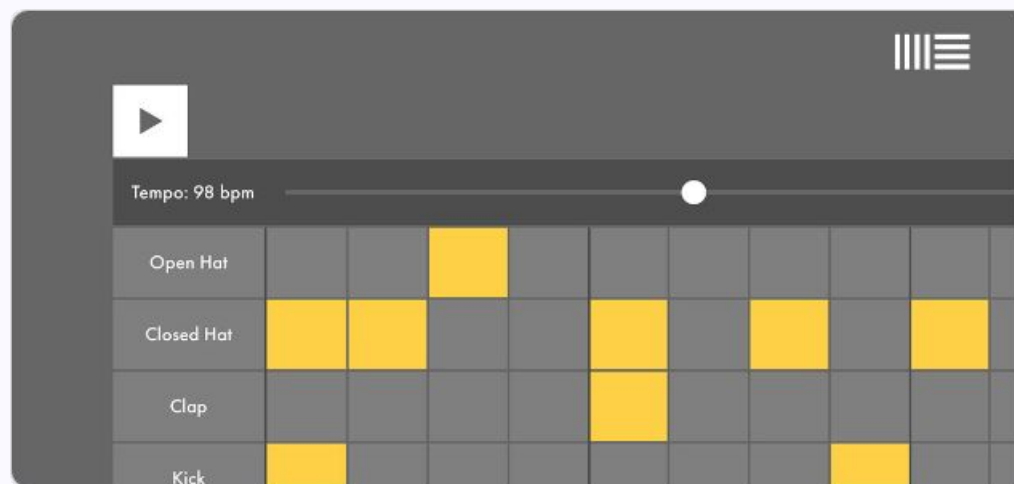


 RolandGlobal



### Roland50.studio

Emulate the sound of Roland's most famous and influential musical instruments from Yuri Suzuki and Roland.




 [learningmusic.ableton.com](https://learningmusic.ableton.com)



## Get started | Learning Music

Explore the fundamentals of music via Ableton's interactive website. Experiment with beats, melody, harmony, basslines, and song structure in your web browser.



 YouTube



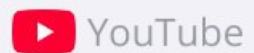
### **Sounds of a Glass Armonica**

Composer William Zeitler plays a glass armonica, invented by Benjamin Franklin in 1761. For more on this fascinating story read the full article here on the Toronto...

D I Y  
ИНСТРУМЕНТ  
ДЛЯ AMBIENT И DRONE



▶ 17:0




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**Я сделал Ambient Box на основе EBow | I made an Ambient Box bas...**

Взял за основу принцип работы EBow и создал Ambient/Drone Box I took the principle of EBow and created an Ambient/Drone Box based on it



 YouTube



### **KontinuumLAB WORKSHOPS: Recorder MIDI Controller.**

In this video tutorial I show you how to make a recorder type MIDI controller from corrugated cardboard and other cheap materials and components. This is one of t...



 YouTube




### Noise Box 5 - experimental music instrument

Wooden noise box instrument (#5 of my collection). Perfect for film scoring, experimental music, or just improvising with friends. Reverb tank has an output, a...

 02:38





 YouTube



## 10 Years of the Korg Volca Keys

April 2023 marks ten years since Korg's Volca Keys debuted. Chris Cline revisits the popular synth to go over the features and sounds that have made it such a popula...



