



Introducing breakbeatcode



Teach coding to students through beat making and music creation

Learning Objectives

- See the big picture
- Understand the problem we're solving
- Learn about our program for 2023



breakbeatcode Vision

By 2025, we will **teach and inspire** 250k teachers and 1.5M students in historically underserved communities around the globe.

breakbeatcode Mission

Inspire students in historically underserved communities to become the next generation of tech leaders by developing skills in coding, creativity and collaboration.



SHADE 45

SiriusXM
SATELLITE RADIO

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SWAY'S UNIVERSE

Problems to solve



```
1 # function which return reverse of a string
2
3 def isPalindrome(s):
4     return s == s[::-1]
5
6 def checkWord ():
7     word = input ("Which word do you want to check?")
8     answer = isPalindrome(word)
9     if answer:
10        print("Yes," ,word,"is a palindrome.")
11    else:
12        print("No," ,word,"is not a palindrome.")
13    print ("")
14
15
16 for i in range (5):
17     checkWord ()
18
19
```





```
3 - # author:
4 - # description:
5
6 from earsketch import *
7 init()
8 setTempo(120)
9
10 beat1 = COMMON_LOVE_DRUMBEAT_1
11 track = 1
12 start = 1
13 end = 20
14 fit = fitMedia
15 fit (beat1, track, start, end)
16
17 finish()
18
```

Hit the Run button.



Highly Engaging

How do we make the breakbeatcode curriculum highly engaging for teachers and students?

Source: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis non erat sem



Proprietary + Confidential

Google

Easy to adopt

How do we make breakbeatcode easy to adopt for teachers?



Global scale

How do we make breakbeatcode available and accessible to teachers and students around the globe, with limited resources?



breakbeatcode 2023 Program



breakbeatcode

Learning to code
through beat making and music production

Where do we want to go

2021

break **beat** code curriculum & hackathons

Teach music theory + coding concepts, writing beautiful code to create beautiful music, and introduce it through hackathons.



2022

break **beat** code clubs & Hour of break **beat** code

Make it easier for teachers, schools and after school programs to adopt the curriculum and engage students.



2023

break **beat** code On Air

Global online platform with inspirational speakers, global competitions, online workshops, and self-paced learning for students, coaches and teachers.




breakbeatcode curriculum

teach.breakbeatcode.com

break beat code curriculum

Teach music theory + coding concepts, writing beautiful code to create beautiful music







While loops
Repeating code

You will learn

- how to build beats writing code.
- to code in the Python, one of the most popular programming languages.
- a key skill for many job opportunities in tech.
- a foundation in coding skills.
- how to publish to their first music track.





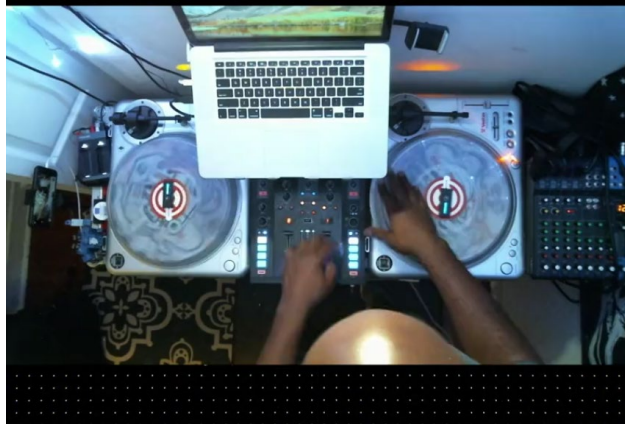
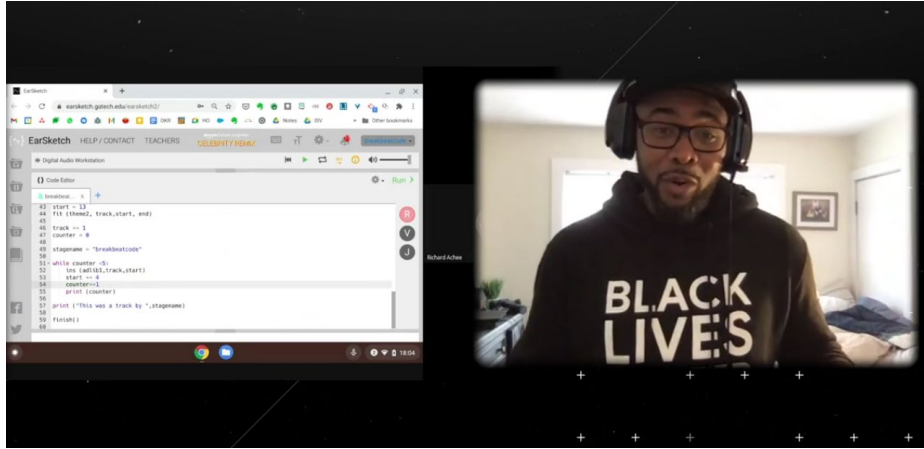
```

29
30
40 # Before we move on, comment out the 2 lines of code above.
41 # Don't mind! to play different sounds on tracks 2, 3 and 4 by commenting in all of the code below.
42
43 k1ck = 05_K1CK
44 beat1 = "k-k-k-k-k-k"
45 makeBeat (kick, 2, 1, beat1)
46
47 shaker = 05_SHAKER
48 beat2 = "k-k-k-k-k-k"
49 makeBeat (shaker, 3, 1, beat2)
50
51 k1ck4 = 05_K1CK
52 beat3 = "k-k-k-k-k-k"
53 makeBeat (kick4, 4, 1, beat3)
54
55

```


break **beat** code hackathons

An online, half-day virtual event co-hosted by our breakbeatcode team and our partner organizations



break **beat code clubs & Hour
of breakbeatcode**

Make it easier for teachers, schools and after school programs to adopt the curriculum and engage students.



Who is adopting breakbeatcode?

Bringing breakbeatcode to your community



Teachers



**School and
School Districts**






**After School
Programs**



Non-profits

How to bring breakbeatcode to your communities

How to bring breakbeatcode to your community?

	Initiative	What is it?	Resources required	Level of effort
	Co-host an hour of breakbeatcode	Inviting schools in your community to join a free 1-hour introduction to the breakbeatcode curriculum with a Google instructor	1-2 volunteers to drive attendance	<5 hours/ event
	Co-host a breakbeatcode hackathon	Inviting a school/s in your community to a half-day hands on learning experience, co-hosted with Google.	8 volunteers (event managers & coding coaches)	<10 hours/ event
	Create your own breakbeatcode program	Build your own Partners with Purpose program with content, tools and guidance from breakbeatcode team.	8 volunteers (event managers & coding coaches)	20% time project for 1 or more partner volunteers

Q & A

Additional Questions: calvinpinney@google.com or rachee@google.com

breakbeatcode

How to get involved - All Volunteers

1. Submit [this form](#) so we can add you to our volunteer list
2. Join these breakbeatcode Google Group <https://groups.google.com/g/breakbeatcode-coaches-all>