

Music Education at the Crossroads: The Impact of AI & Technology

F  **BISIA**



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Blog: www.jamesfrankel.com

Podcast: soundcloud.com/musicfirstpodcast



A quick commercial...



Software

Resources

Content

My Classes

Jim Frankel

Support

Logout



MusicFirst Classroom

Welcome Jim Frankel

My Classes

+ Create a Class



Auralia & Musition First (Introductory)

Gradebook Calendar Discussions

Drum Channel Level 100

Gradebook Calendar Discussions

Habits of a Successful Beginner Band Musician Lesson Plans

Gradebook Calendar Discussions

Habits of a Successful Choral Musician

Gradebook Calendar Discussions



Auralia



Flat for Education



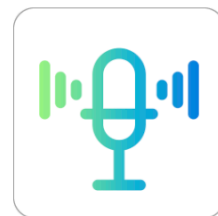
Focus on Sound



Focus On Sound (US)



Hyperscore



MusicFirst Recorder



Musition



Naxos MusicBox



NML Essentials



Noteflight



OGenPlus



PracticeFirst



Sight Reading Factory



Soundation Education



Soundtrap



YuStudio

The sequencing of the course reflects curriculum design by the author. Technical and reading exercises from the latter part of the book are presented in the same unit in which skills are introduced.

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Visit the companion website (www.habitsstrings.com) for even more supplemental resources.

2 Questions		
📄	Exercise #39. It's Raining	Lesson
	1 Task	
☁️	Microphone Quiz	Task
📁	Music Symbols Quiz	Assessment
	10 Questions	
🎤	Performance #2	Task



Software

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Jim Frankel

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Incredibox



InTune Monthly



InTune Monthly (Teacher)



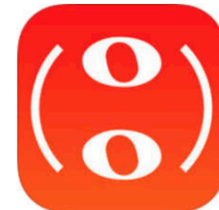
Metronome - Tuner



Music Tech Helper



MusicEDU



MusicTheory.net



TeachRock



YouDJ for Education



Explore the Library:



MusicFirst Library

The MusicFirst Library offers a broad range of courses, units, lessons, and assessments carefully curated by a team of expert music educators. These materials are ready for immediate use in your classroom, and can also be customized to suit your curriculum.

Explore the Library:



Band >



Chorus >



Orchestra >



Music Theory >



General Music >



Modern Band >



Extra tests

Flute discussion 1

Pass

End test

Q. 1/1

Compare these two recordings of a flute. You can either discuss it in class or type short descriptions (or both). You can mention the types of music, as well as the other instruments playing. You might want to use words and terms like virtuoso, broken chords, long notes, trill, swing, etc.

Audio clip 1



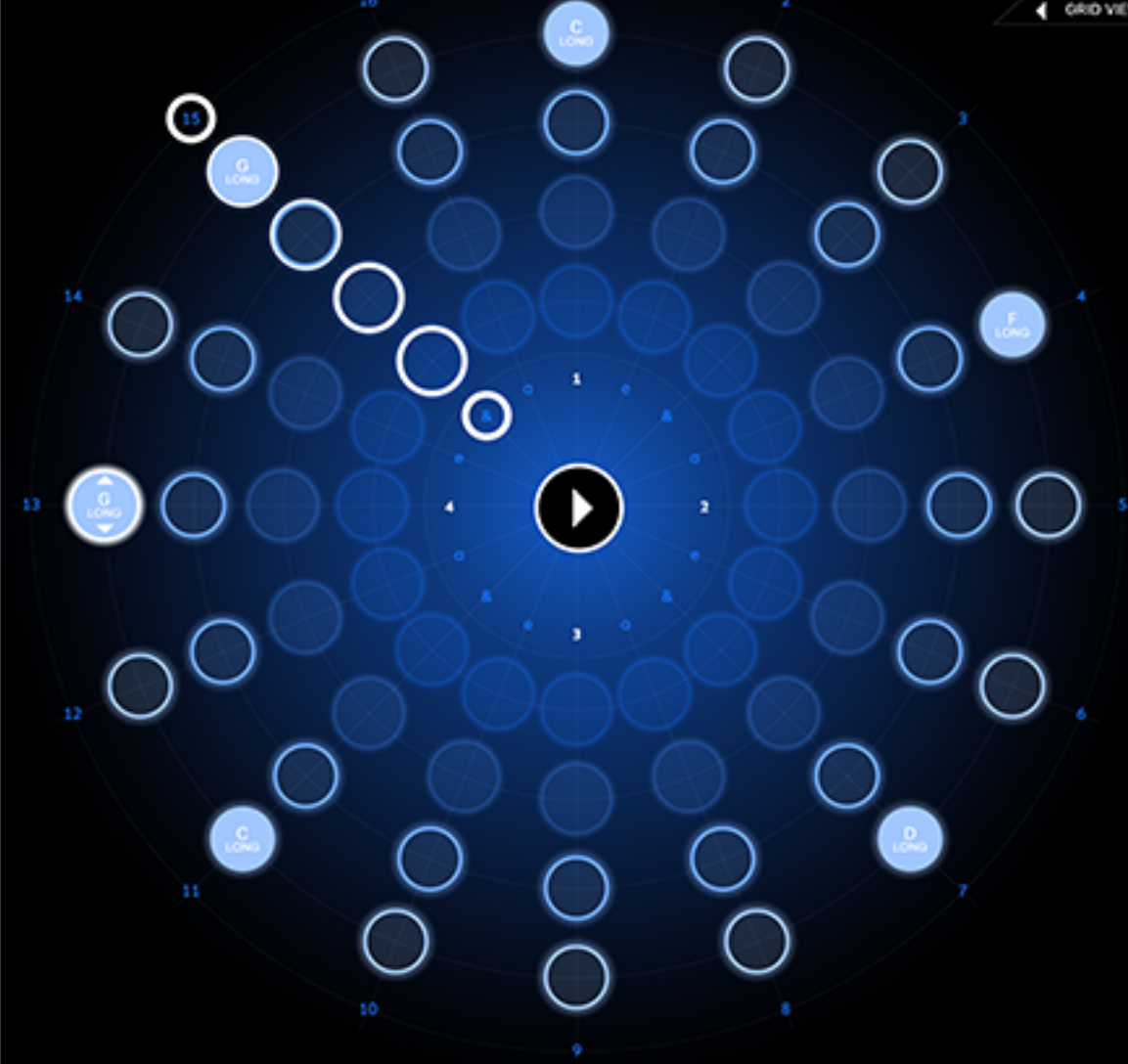
Audio clip 2



The first recording seems to be of jazz music. The player is improvising but keeps repeating notes. I can hear a rhythm section in the background.

The second recording is of some kind of classical music. The flute player is unaccompanied to start with. It is very difficult, virtuosic music.

Save answer



CLIP CREATOR

	1	2	3	4	5	6	7	8
MAJOR PIANO		+	+	+	+	+	+	+
MINOR PIANO		+	+	+	+	+	+	+
DRUM KIT		+	+	+	+	+	+	+
MAJOR BASS		+	+	+	+	+	+	+
MINOR BASS		+	+	+	+	+	+	+

+ TRACK

VIDEO

C MAJOR CHORD

03:29

INSTRUMENTS



When it comes to AI, what are you excited about?



What are you nervous about?



A BIG AI Announcement...





PLAYGPT

Who needs to Practice?



PLAYGPT

Who needs to Practice?



Woodwinds



Brass



Strings



Percussion

Upload Music

Upload Music

Upload Music

Upload Music

Play Music

Play Music

Play Music

Play Music

Audition

Audition

Audition

Audition

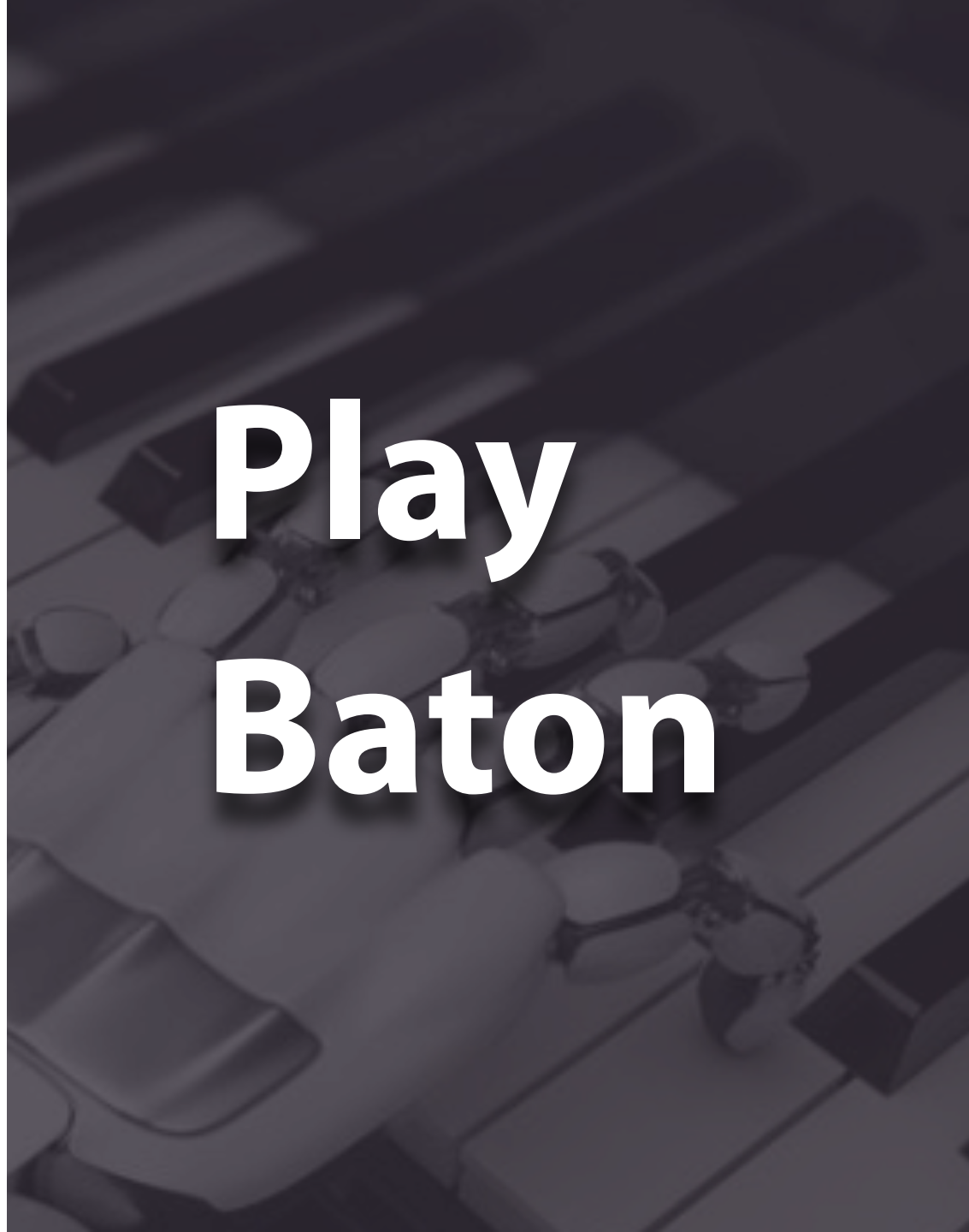




Play Gloves



Play Baton

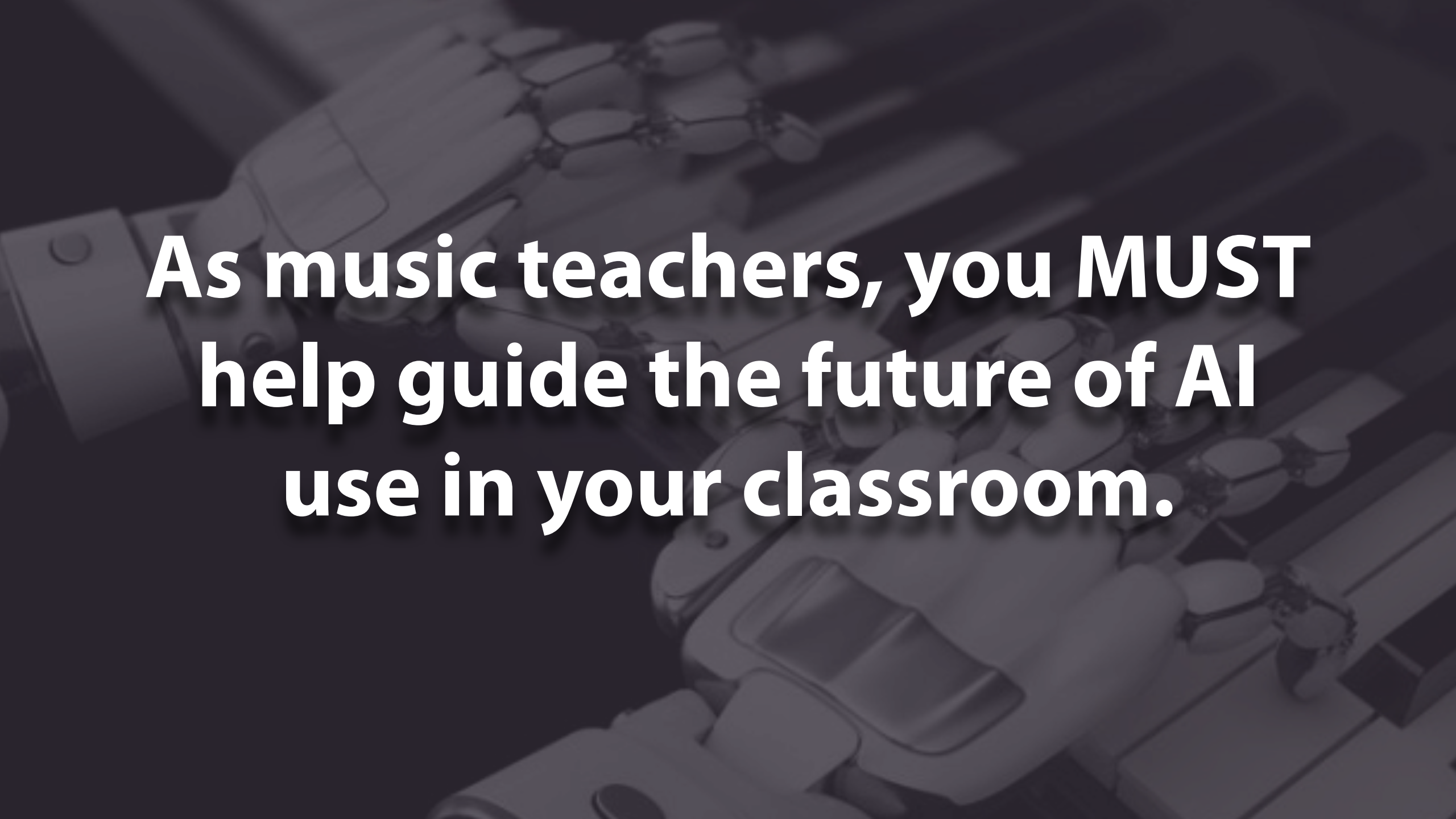


Play Face





But seriously...



**As music teachers, you MUST
help guide the future of AI
use in your classroom.**



**WHAT IS
A.I.?**

- Artificial Intelligence

- Alan Turing - Oxford

- Arthur Samuel - MIT/Stanford

- John McCarthy - Stanford

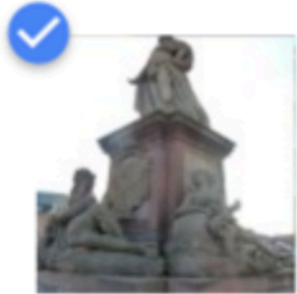
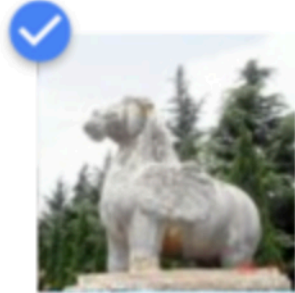
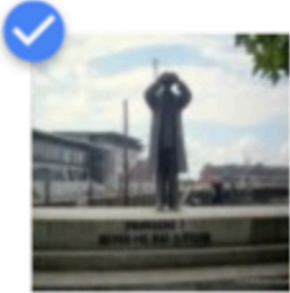
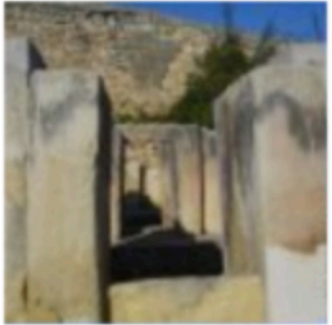
- Marvin Minsky - MIT

- It's been around since the **1950's**

- Companies like Amazon, Facebook & Google have been using it for YEARS



Select all images with statues.



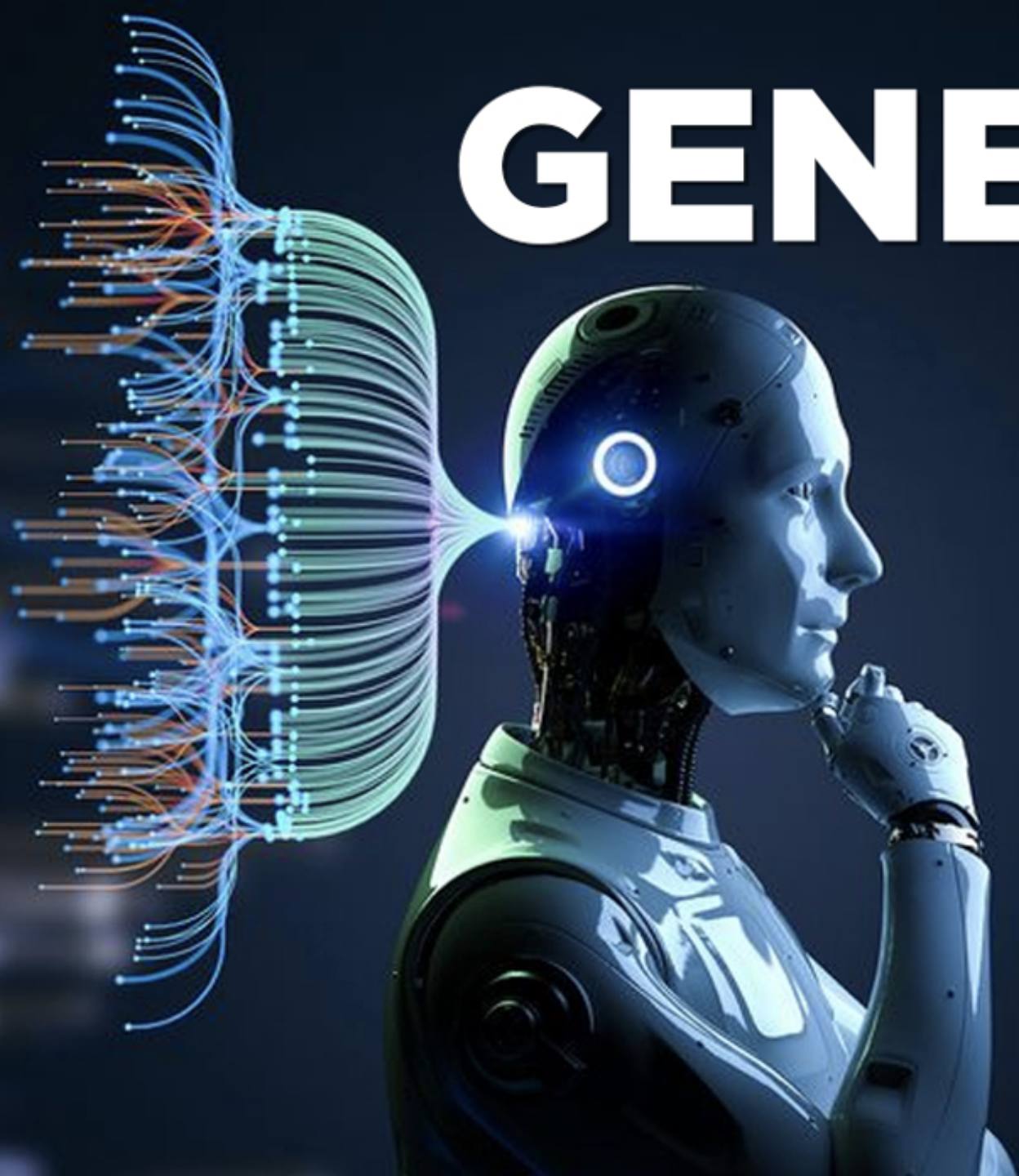
**We've been training
AI all along...**



VERIFY

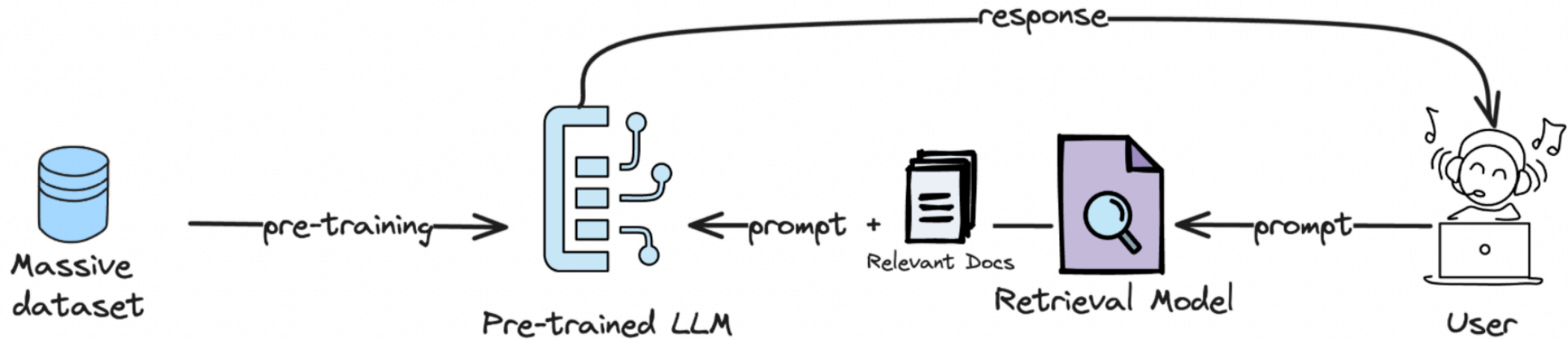
**AI is all around us.
ChatGPT made us realize it.**

GENERATIVE AI

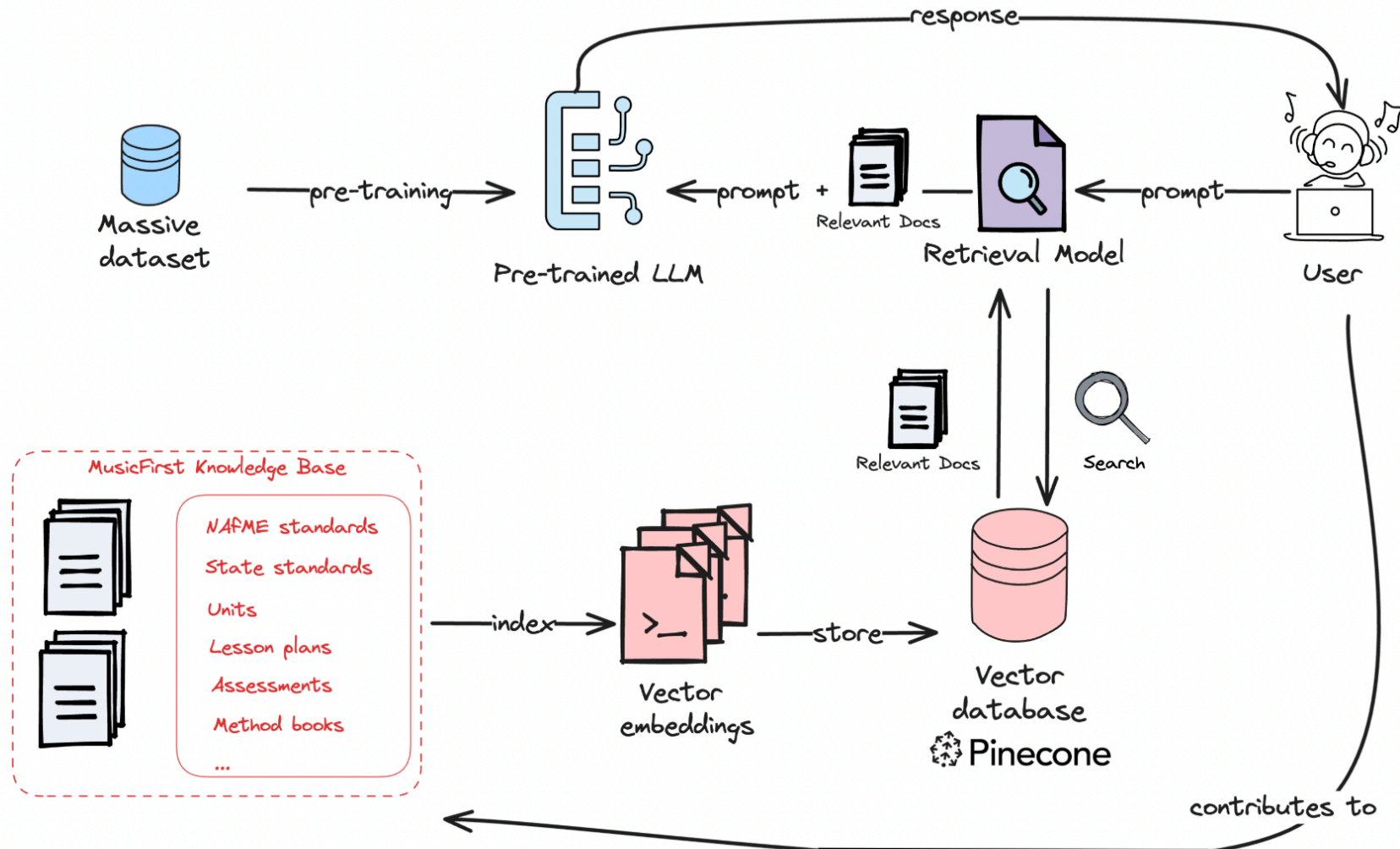


It's all about DATA

How does Generative AI actually work?



What is RAG - Retrieval Augmented Generation?





ChatGPT 4o ▼

JL

Today

AI Music Practice Image

Previous 7 Days

AI Tools for Musicians

JEN AI Music Platform

Previous 30 Days

Laurie McDermott Recommendation

Modern Slavery Statement Rewrite

Persuade to Read Book

Visual Model of Melody

June

Braces Advice for Trumpet

Create visual fingering chart.

Resources for Make Music

AI Music Copyright Image

Renew Plus



Activities to make friends in new city



Study vocabulary



Text inviting friend to wedding



Python script for daily email reports



Message ChatGPT



ChatGPT can make mistakes. Check important info.



Using limited free plan [Upgrade](#)

☀ Good afternoon, Jim

Please listen to my performance of London Bridge Is Falling Down and provide me with detailed feedback on my performance as well as some suggestions on how I can improve.



Claude 3.5 Sonnet

Use **shift + return** for new line

Collaborate with Claude using documents, images, and more

Add content

Your recent chats ^

[View all →](#)



Moises AI: Transforming Music Education

1 month ago



Middle School Songwriting Lesson...

2 months ago



Music Education Book Recommendation...

2 months ago



Visualizing Melodic Music

2 months ago



Amadeus vs. Mozart's Final Years

2 months ago



Mock NYSSMA Grade 5 Cello Audition

2 months ago



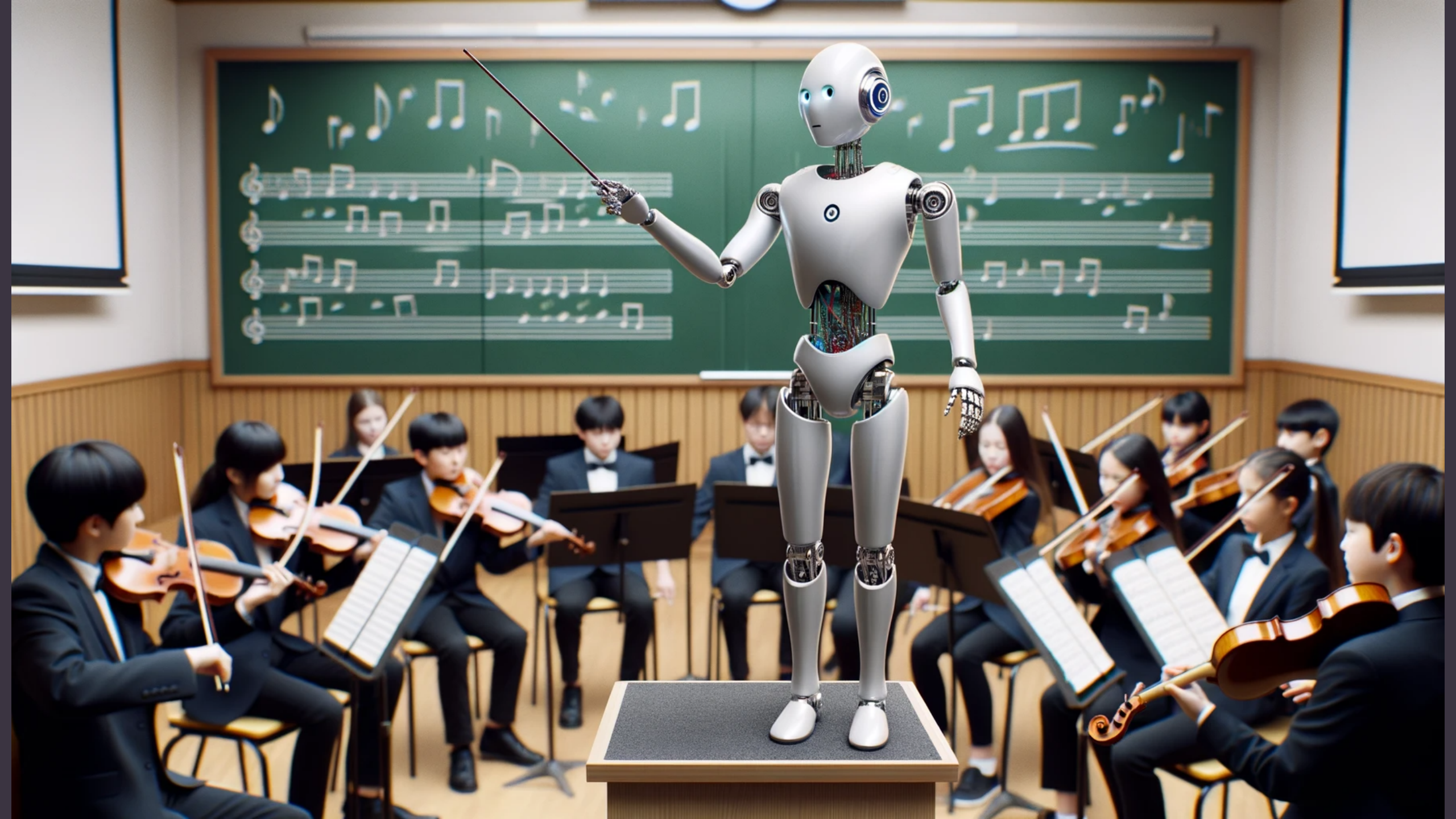


All videos in this video were generated directly
by Sora without modification.

SORA



DALL-E 3





Best Homework AI Tutor Ever

Snap the question, get answers and step-by-step explanations instantly.

The screenshot displays the Answer.AI app interface. On the left, a math problem is shown with a blue highlight over the function definition and question. A pink arrow points from the 'Get Answer' button to the AI chat window on the right. The chat window shows a conversation where the user asks for the value of $g(-4)$ and the AI provides a detailed step-by-step solution.

Math Problem:

$g(x) = ax^2 + 24$
For the function g defined above, a is a constant and $g(4) = 8$.
What is the value of $g(-4)$?

A) 8
B) 0
C) -1
D) -8

AI Solution:

Hi, how can I help you?

$g(x) = ax^2 + 24$
For the function g defined above, a is a constant and $g(4) = 8$. What is the value of $g(-4)$?

We can find the value of a by using the given information that $g(4) = 8$. Substituting $x = 4$ into the function $g(x)$ gives us the equation:

$$g(4) = a \cdot 4^2 + 24 = 8$$

Solving for a , we get:

$$a \cdot 16 + 24 = 8$$
$$a \cdot 16 = -16$$
$$a = -1$$

Now that we have found the value of a , we can use it to find $g(-4)$. Substituting $x = -4$ into the function $g(x)$ gives us:

$$g(-4) = (-1) \cdot (-4)^2 + 24 = -16 + 24 = 8$$

Therefore, the value of $g(-4)$ is 8.

Answer.AI
Your Personal AI Tutor

A white robotic hand is shown typing on a white keyboard. The hand is positioned over the keys, with its fingers extended. The background is a light gray, and the overall image has a clean, modern aesthetic. The text "AI in Music Software" is overlaid in the center of the image.

AI in Music Software

A grayscale background image showing a robotic hand with a textured, segmented surface typing on a computer keyboard. The hand is positioned over the keys, and the keyboard's keys are visible in the foreground and background. The overall scene is dimly lit, emphasizing the mechanical and artificial nature of the hand.

There are hundreds of AI music apps with more launching daily. Here are a few.

Create a Lesson Plan

1) Lesson Basics

Lesson Title

Select Class

Unit

1) Teacher View Only

Objectives **B** **I**

Students will understand the origins and development of Jazz music, including its cultural and social significance.

Materials **B** **I**

Jazz music recordings (various styles and periods)
 Computers or tablets with internet access
 Whiteboard and markers
 Jazz history resources (books, articles, websites)
 Musical instruments (optional)

Lesson Task Assessment

Create a Lesson About...

Lesson Plan Title: Jazz History

Grade Level: Middle School (6-8)

Objective:
 Students will understand the origins and development of Jazz music, including its cultural and social significance.

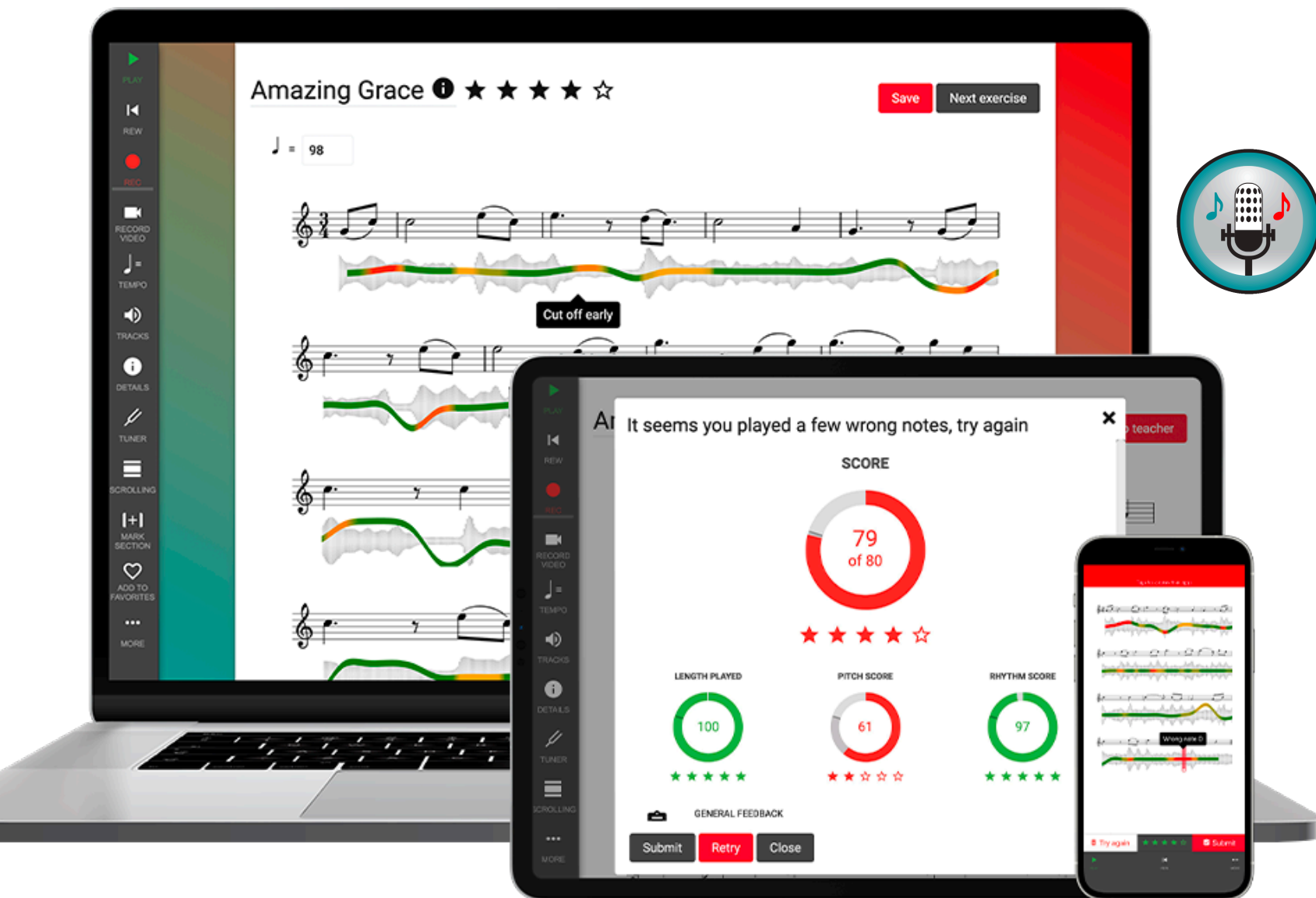
Materials:
 Jazz music recordings (various styles and periods)
 Computers or tablets with internet access
 Whiteboard and markers
 Jazz history resources (books, articles, websites)
 Musical instruments (optional)
 Introduction (10 minutes):
 The teacher will begin by playing a short piece of Jazz music, and ask students to listen carefully and describe what they hear. The teacher will then ask the class if they have heard Jazz music before, and if they have any idea of what Jazz music is. The teacher will introduce the topic of Jazz history, and explain that Jazz is a uniquely American music form that has been enjoyed by people all over the world.

Body (45 minutes):
 Origins of Jazz
 The teacher will introduce the concept of African-American musical traditions, and explain how Jazz originated from the blending of various musical traditions including African rhythms and European harmony. The teacher will provide examples of early Jazz musicians such as Buddy Bolden, Jelly Roll Morton, and Louis Armstrong.

Jazz in the 1920s
 The teacher will explain how Jazz became popular during the 1920s, known as the "Jazz Age." The teacher will discuss the emergence of Jazz musicians such as Duke Ellington, Bessie Smith, and Count Basie, and how

[Regenerate](#)

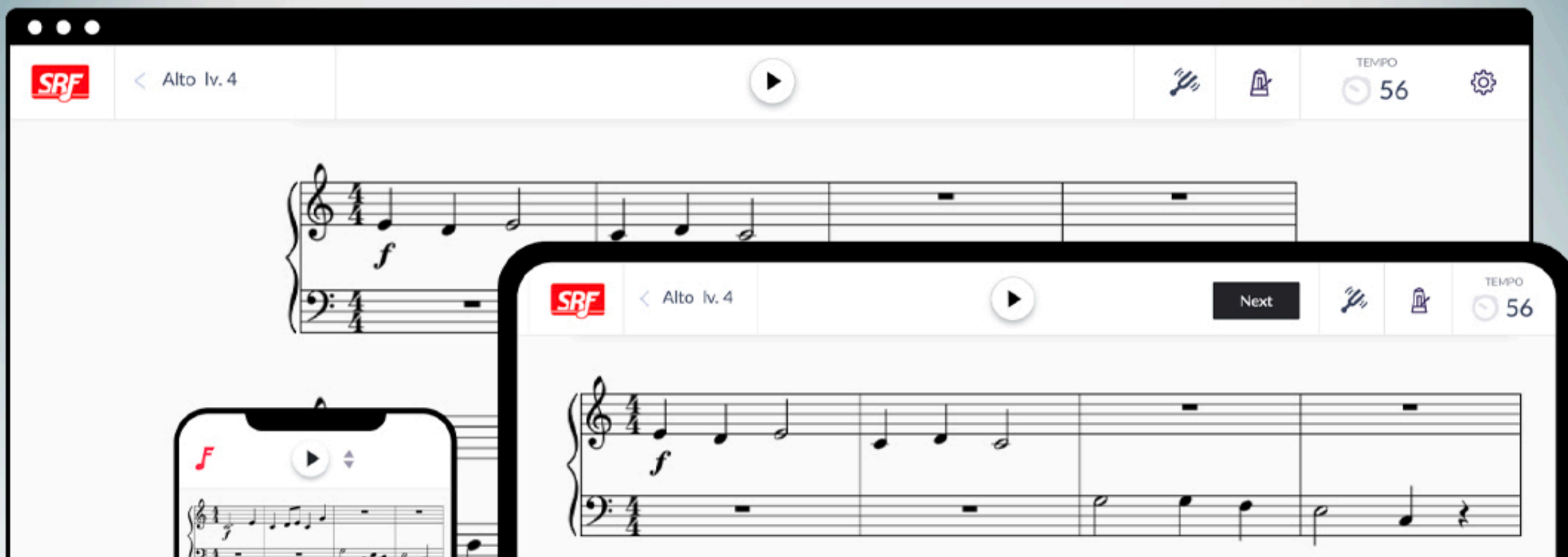
ChatGPT integration into the MusicFirst Classroom



practicefirst
powered by MatchmySound™



Sight Reading Factory





File

Edit

Settings

Tutorials



Save



A la orilla de la...

Upgrade

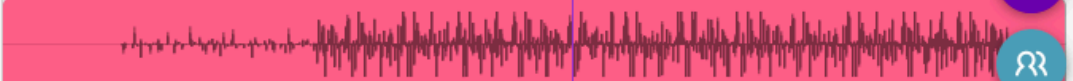
Exit Studio

Show Instrument



707

R Vol



BSS

R Vol



DX7 1

R Vol



DX7 2 (billos)

R Vol



Minimoog

R Vol



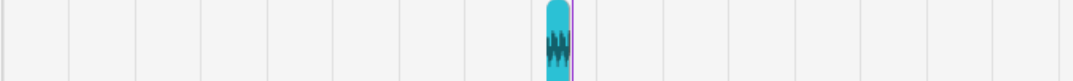
Freesound FX

R Vol



191bpm_little-boops-LO...

R Vol



Seagulls Calling

R Vol



+ Add New Track

Browse loops

Patterns BeatMaker

Play the synth

+ Add new track

Import file

Invite a friend

Loops

seagulls

Any scale

148 matches from Freesound:

- Seagulls Calling Free
- Early Morning Rain by Casco Bay Maine Free
- Seagulls Free
- binaural-birds-06-05-2013.flac Free
- Alcatraz Soundscape Free
- Bergen harbour Free
- boy becomes seagull 20.3.11 Free
- Cherno Alpha Horn Free
- Fish market Venice Free
- lake waves seagulls Free
- lake waves Free
- City sounds - Aberdeen Free
- Seagulls Free
- Thunder & Seagull Free



03:04.0



90

-



Support

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❤️ Liked Songs

PLAYLISTS

By you By others

Make your music

Learn how to create

Staff Picks



Metropolis Pt. 3
charlie
▶ 9282 ❤️ 112



Cosmic Canine Cruise
Staff
▶ 19305 ❤️ 277



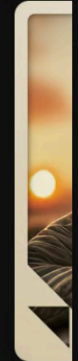
Rising Sun Gospel
charlie
▶ 24477 ❤️ 252



Crater Lullaby
Tie blue
▶ 19112 ❤️ 101



Chill of Night
Staff
▶ 8206 ❤️ 29



Wow.
Bobb
▶ 73



The Summer of Suno Vol. 2 is live!
Submit a video sharing a story behind a song to win. Learn more.



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- Explore
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550 Credits
Subscribe

What's New? **20**

Help

About

Careers



Summer of Suno, Vol. 1

Go to Playlist →

4:02

▶ 672K 👍 8.6K

3:07

▶ 390K 👍 6.2K

6:26

▶ 290K 👍 4.5K

2:32

▶ 243K 👍 4.2K

4:02

▶ 352K 👍 3.1K

MAYBE?!
Electronic, sweet female ...
 AroundOnce

Suno Please Fix
electro-swing-step, step ...
 SirBitesALot

Where Do We Go Fro...
707 kit, slow, tape record...
 sushileaf

Freefall
Slow otherworldly waves...
 Falcon

Eye of the Storm...
Electric Violin, Modern Vi...
 Feline Music...

Suno Showcase

Show more +

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Stem Separation



Time Stretching



BPM Detection



Overdrive



Reverse



String Stem



Speed



Lyrics Transcription



Video Mixer



Backing Vocals Stem



Beat Detection



Audio Encoder



Limiter



Subtitle Alignment



Vocal Synthesis



Subtitle



Chord



Beats





Remover



Splitter



Pitcher



Key BPM
Finder



Cutter



Joiner



Recorder



Support

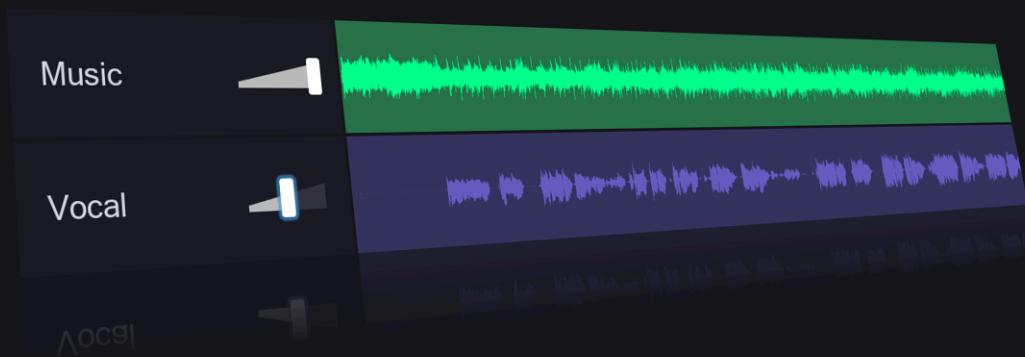


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Vocal Remover and Isolation

Separate voice from music out of a song free with powerful AI algorithms



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-  DJ
-  Production
-  Marketing
-  Album Art
-  Usage

Limitless Lyrics

Get instant feedback on your lyrics and writing exercises


AIO - All In One


Experience the musical magic of All In One, orchestrate a masterpiece in seconds!

Chord Candy

Music genie to grant all your chord wishes!

 **MARKETING**
Ad Copy Chorus

 **PRODUCTION**
AIO - All In One Pro

 **PRODUCTION**
Bass Brain

 **MARKETING**
Caption Composer

 **PRODUCTION**
Chord Candy

 **PRODUCTION**
Drums De Dior

 **PRODUCTION**
Harmonious Hitmaker

 **PRODUCTION**
Limitless Lyrics

 **PRODUCTION**
Lyric Lab



Empress.ac



AIVA

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For Teachers

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Crop

Flip



Text to image

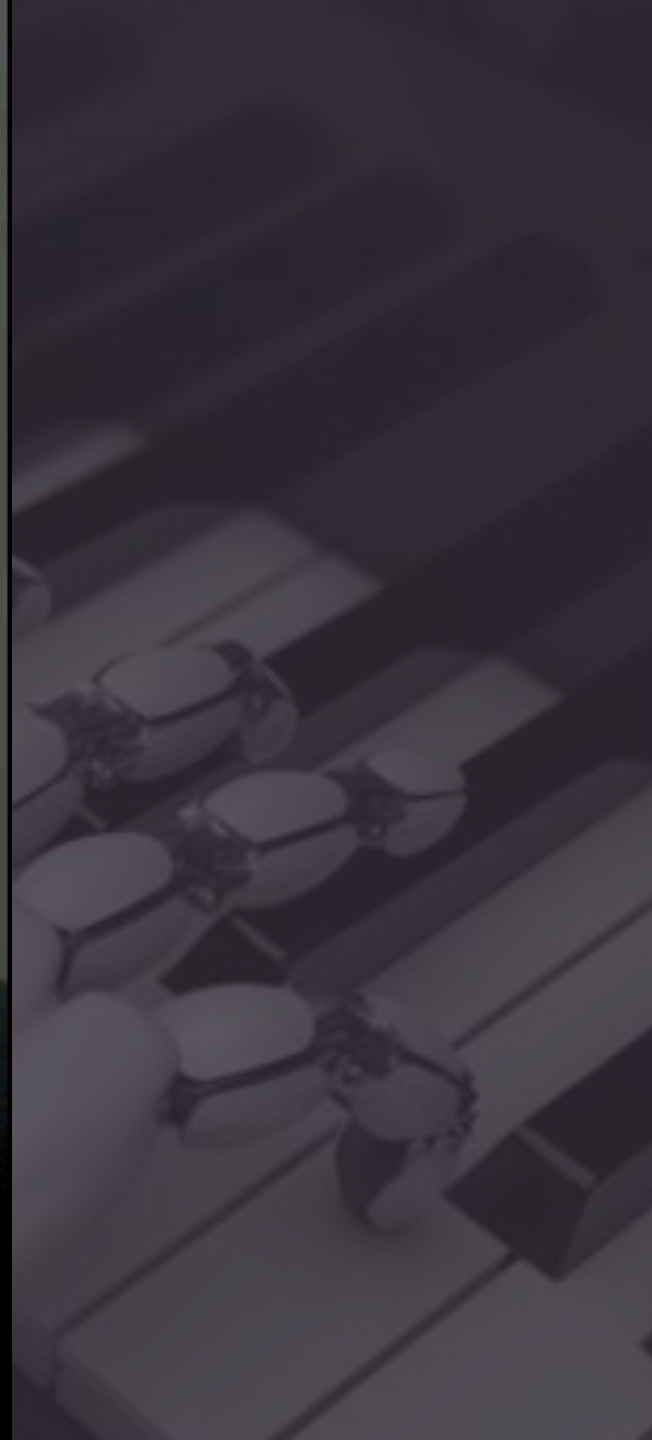


Choose the image of "A panda riding a bike through the city with depth of field" you'd like to use.



Text to image







Implications for Music Education



Personalized Music Learning



Authentic Assessment



Computer - Human Interaction



Detailed Data Analysis



Music Composition



Music Listening



Questions?

Thank you!

jim@musicfirst.com

www.musicfirst.com

www.jamesfrankel.com

soundcloud.com/musicfirstpodcast

