Scratch X AI

Leading students into the future of technology

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The Endeavourers Leung Lee Sau Yu Memorial Primary School

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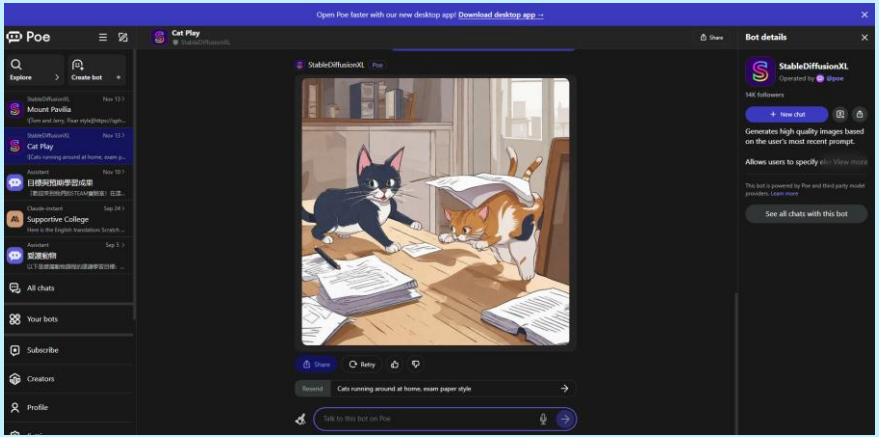
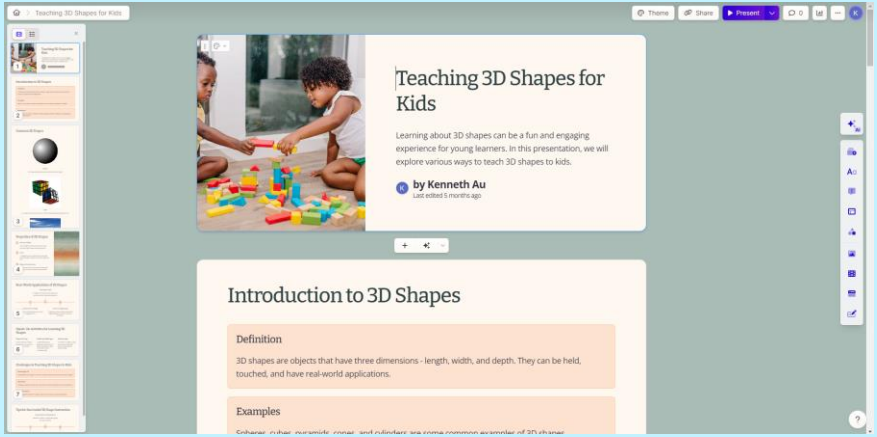
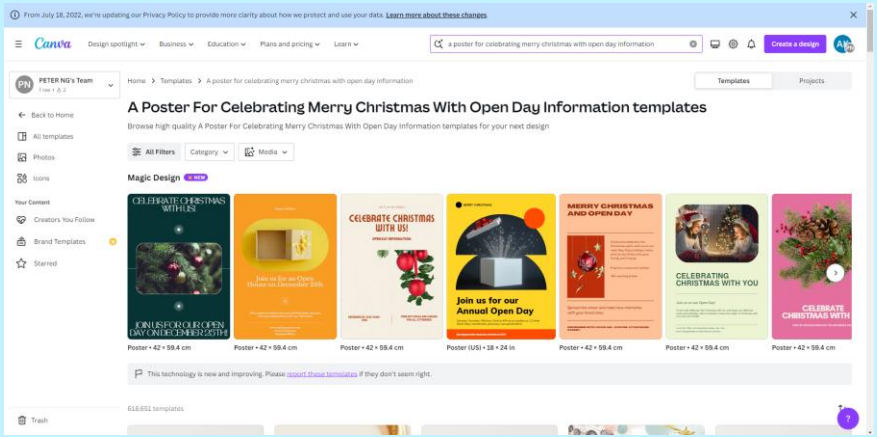
01

Can AI be integrated into curriculum?


Poe
Cat Play
StableDiffusionXL
Bot details
Generates high quality images based on the user's most recent prompt.
Cats running around at home, exam paper style


Teaching 3D Shapes for Kids
Learning about 3D shapes can be a fun and engaging experience for young learners. In this presentation, we will explore various ways to teach 3D shapes to kids.
by Kenneth Au
Introduction to 3D Shapes
Definition
3D shapes are objects that have three dimensions - length, width, and depth. They can be held, touched, and have real-world applications.
Examples

Generative fill
Upgrade
Download
Share
Insert
Remove
Pan
Cancel
Keep


Canva
A Poster For Celebrating Merry Christmas With Open Day Information templates
Browse high quality A Poster For Celebrating Merry Christmas With Open Day Information templates for your next design
Magic Design
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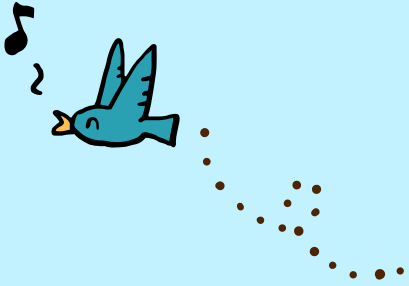
02

Students' Sharing

5D Winnie Kwok / 5D Katherine Leung

5E Jessen Lee/ 5E Anton Yeung

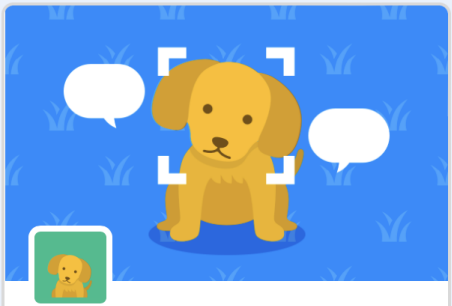


03

Scratch X AI Demonstration

Why Stretch3?

Stretch3 is a version of Scratch that easily incorporates machine learning models created with Teachable Machine.



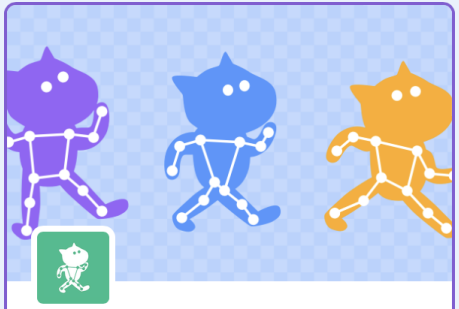
TM2Scratch

Recognize your own images and sounds.

Requires

Collaboration with

Tsukurusha, YengawaLab and Google



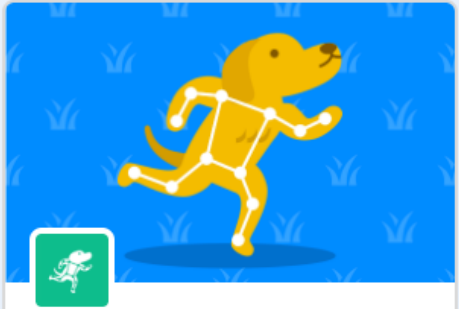
Posenet2Scratch

PoseNet2Scratch Blocks.

Requires

Collaboration with

champierre



TMPose2Scratch

Recognize your own poses.

Requires

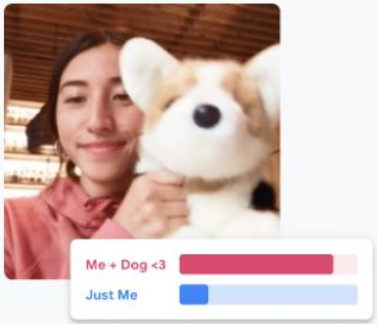
Collaboration with

Tsukurusha, YengawaLab and Google

And more...

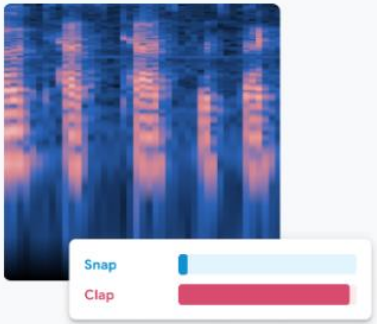
What can I use to teach it?

Teachable Machine is flexible – use files or capture examples live. It's respectful of the way you work. You can even choose to use it entirely on-device, without any webcam or microphone data leaving your computer.



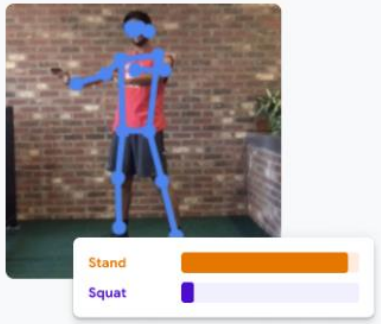
Images

Teach a model to classify images using files or your webcam.



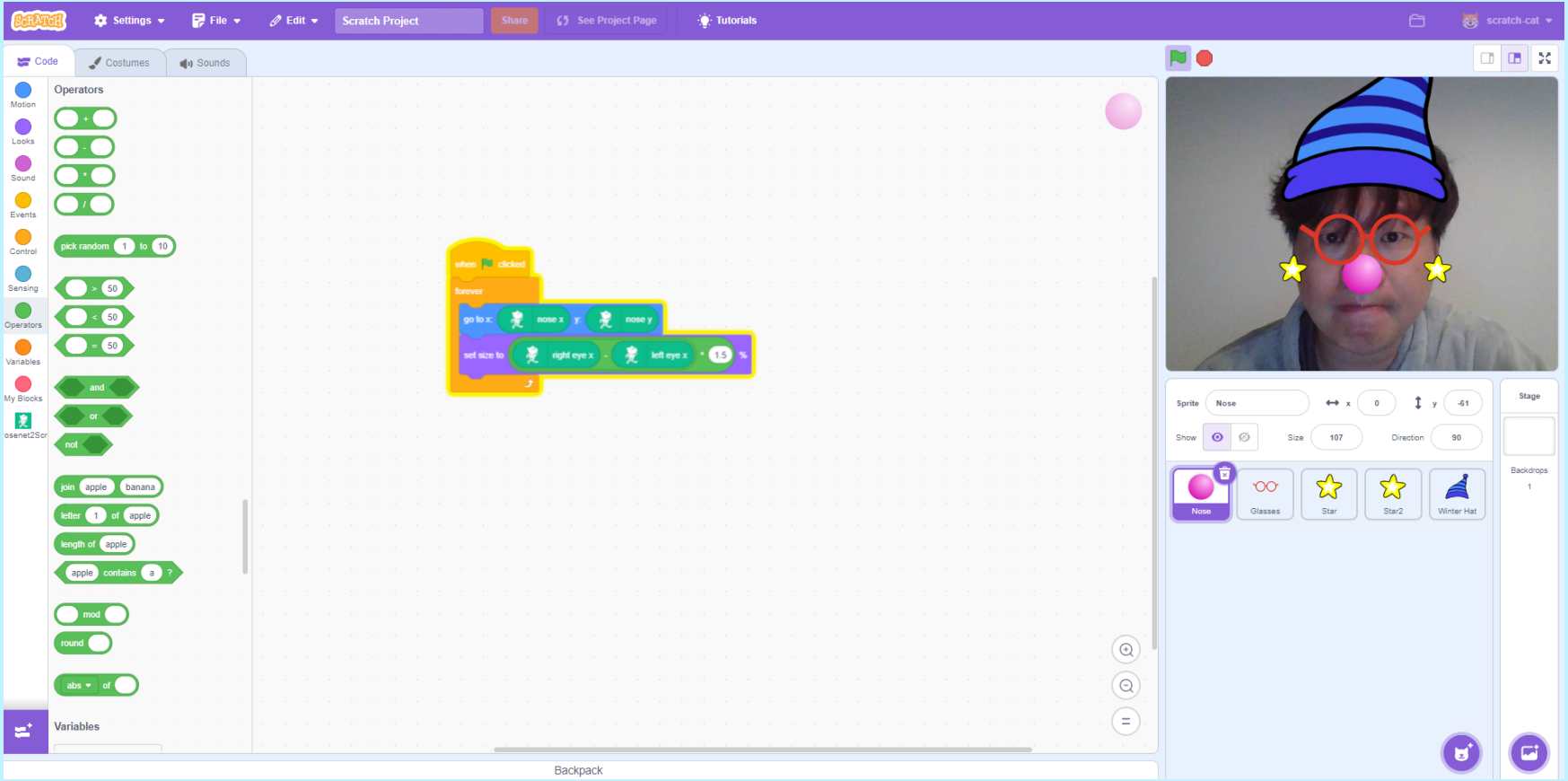
Sounds

Teach a model to classify audio by recording short sound samples.



Poses

Teach a model to classify body positions using files or striking poses in your webcam.


Settings
File
Edit
Scratch Project
Share
See Project Page
Tutorials
scratch-cat
Code
Costumes
Sounds
Motion
Looks
Sound
Events
Control
Sensing
Operators
Variables
My Blocks
Operators
pick random 1 to 10
> 50
< 50
= 50
and
or
not
join apple banana
letter 1 of apple
length of apple
apple contains a ?
mod
round
abs of
Variables
when clicked
forever
go to x: nose x y: nose y
set size to right eye x - left eye x * 1.5 %
Sprite Nose
x 0
y -61
Show
Size 107
Direction 90
Stage
Backdrops 1
Nose
Glasses
Star
Star2
Winter Hat
Backpack

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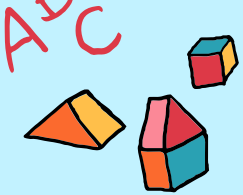

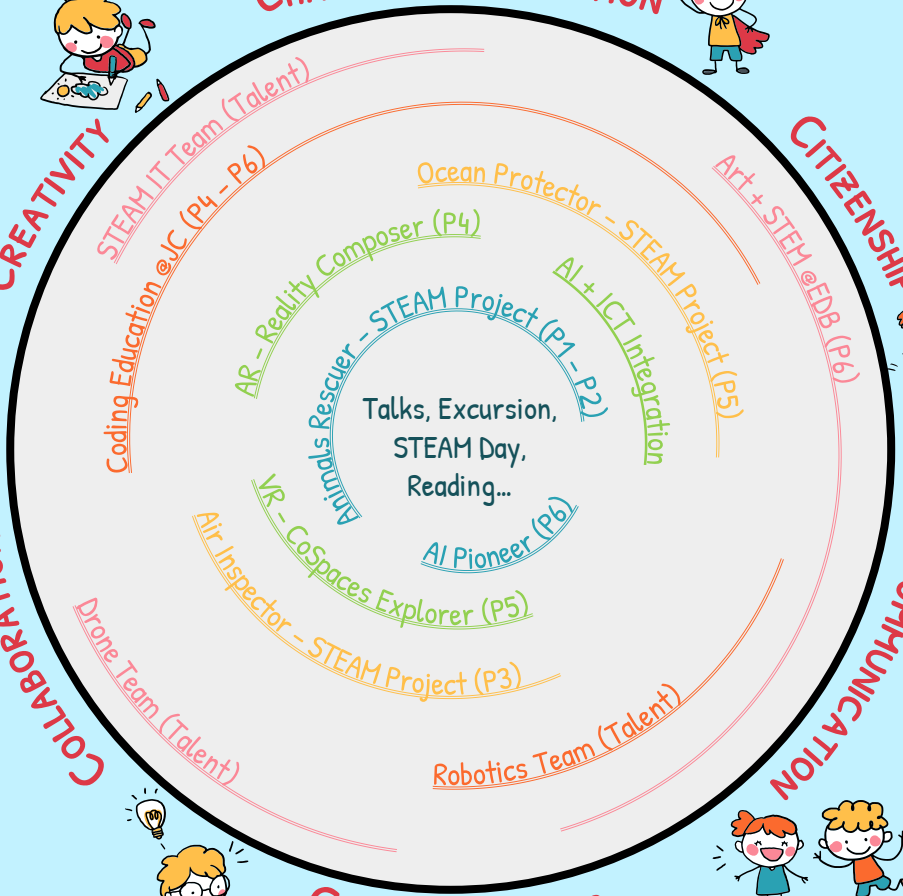

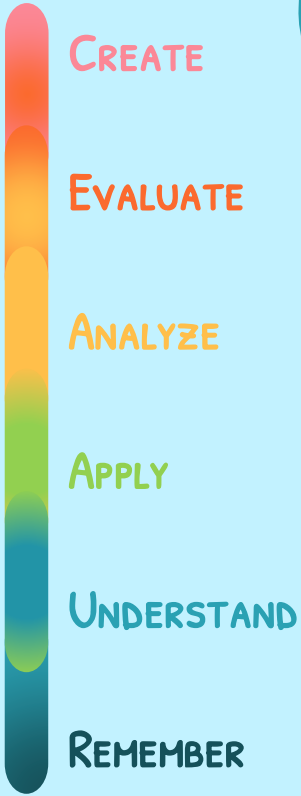

"AI won't replace humans,
but humans with AI will
replace humans without AI."

— Karim Lakhani,
Harvard Business School

THANKS!

Do you have any questions?

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