

Seojun Yoon

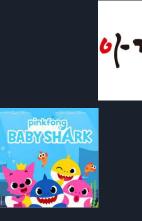


Agenda

- Background
- Project introduction
- Robot Used
- Development process
- Project code
- Video

Background

Llisten to Korean music from Tik Tok videos and Youtube a lot because there are lots of famous Korean artist like BTS and blackpink, and many Kpop songs like Butter, Gangnam style, Kill this love, baby shark, and Korean traditional songs like arirang (아 리랑). So I want to introduce those music to the users with simple dance movement of Hamster Robot in the project code.









Project introduction

The Code utilizes JoyStick so that users can move the Hamster Robots to the picture of Korean song that user wants to listen to.

Then, the AI Camera is used to detect the picture of Korean Songs. When the pictures are found, the Scratch begins to play the music and Hamster Robot dances.

The users would be able to enjoy Korean musics with hamster Robot dancing



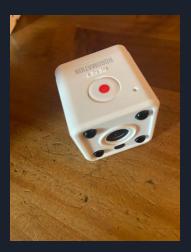
Robots Used

Cheesestick with Joystick

Al Camera













Supplies (pictures)











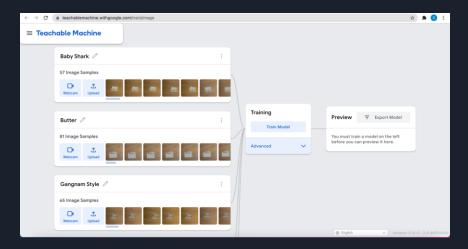




Development Process

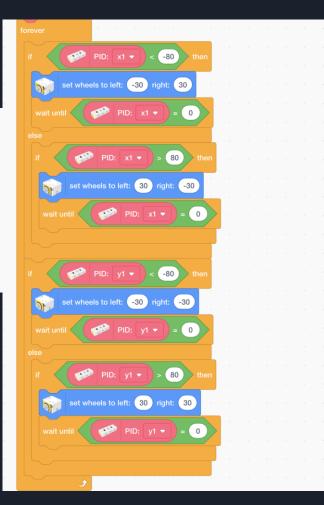
- 1. Make Code of Hamster Robot Controller with Joystick
- 2. Record Korean songs on Scratch
- 3. Make image Model for Korean song pictures with 60-80 samples
- 4. Make code for AI Camera and Hamster Dance movement

🕿 Code 🛛 🏒 🕻	Costumes	v Sounds									
1 (1) Butter 64.65	Sound Bu	itter		-	Сору	Paste C	Copy to New	X Delete			
2 ((1)) Baby Shark 83.85	une M	MMMM MMMM	1) 1) 1) 1) 1) 1) 1)	MA.A . Ax			WWW		o till a ti	MMMMM	
Gangnam St	nut M	II-MINIM	/ Mw	IMARVALA	WMM	MANNA	MMAN	WWW W	WINNA	MMMMM	WI
4) Arirang 40.34	0	Faster	Slower			Fade in	Jo Fade out	S Reverse	Robot		
Kill This Love											





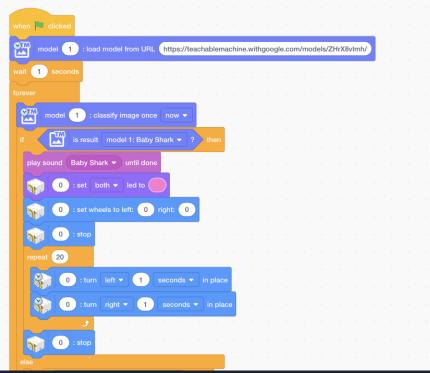
Code for controlling the Hamster Robot with Joystick



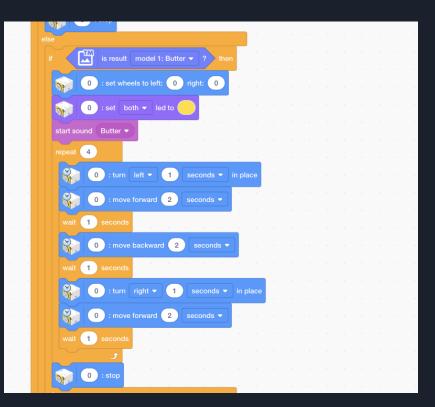


Project Code

Load Teachable model and classify model



Code for AI Camera and Hamster Dance movement



Project Code 2

Code for AI Camera and Hamster Dance

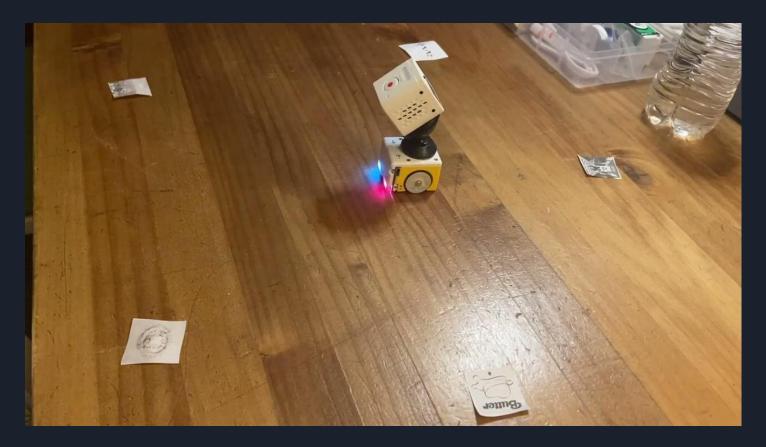
movement





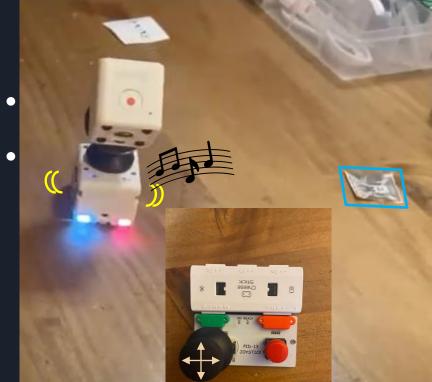


Project Video





Limitation of the project



ally cool with limited hamster

was not 100 percent accurate



Thank you