

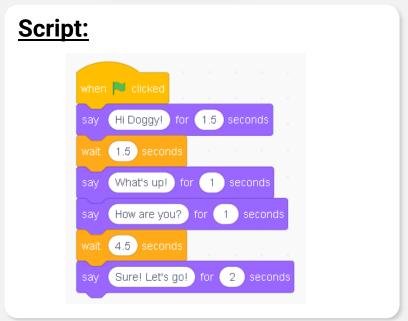
Scratch Programming Lesson 4 Animation & Scene Transition

Presented by Advaspire Team



Revision - Conversation Arrangement







```
when clicked
wait 1.5 seconds
say Hi Catty! for 1.5 seconds
wait 2.5 seconds
say Quite busy lately... for 1 seconds
say I'm going to have my lunch for 1.5 seconds
say Wanna grab some food together? for 1.5 seconds
```

Arrange the conversation accordingly.

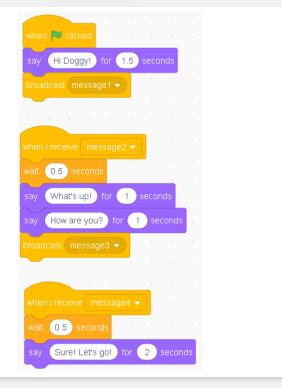
For example, cat will be the first one to talk, then it will say "Hi Doggy!" for 1.5 seconds, then dog will wait for 1.5 seconds until cat finishes its speaking, then only say "Hi Catty!", so and so on.



Revision - Conversation Arrangement

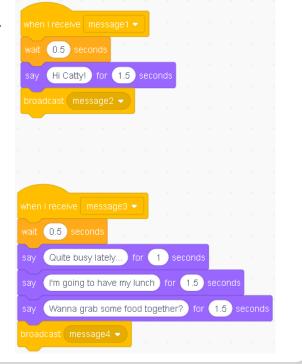


Script:





Script:



We can also arrange the conversations with Broadcast function.

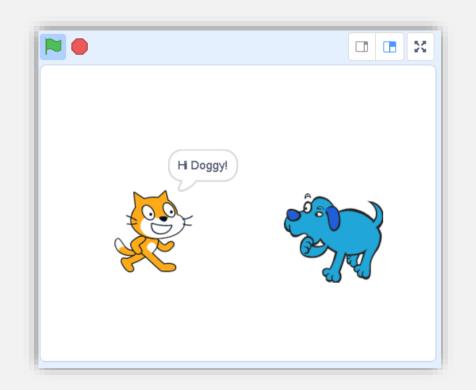
Broadcast function is like acting based on cues.

If Catty is the conversation starter, after first sentence, Catty will send a message to Doggy as it's Doggy's turn.

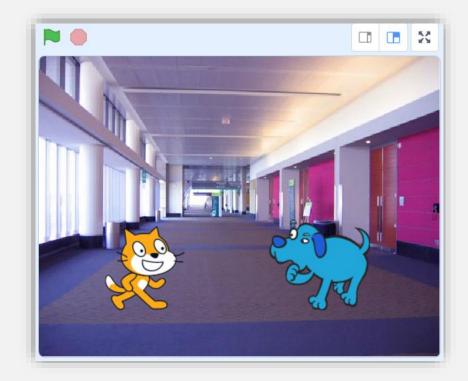
Then after Doggy ends it turn, it will tell Catty to start it's turn.



Adding a backdrop

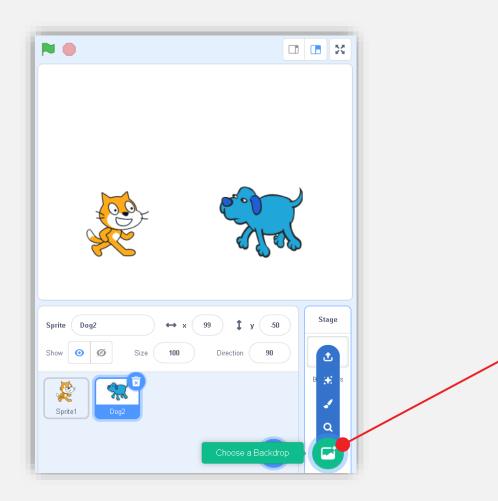








Add a backdrop to your scene

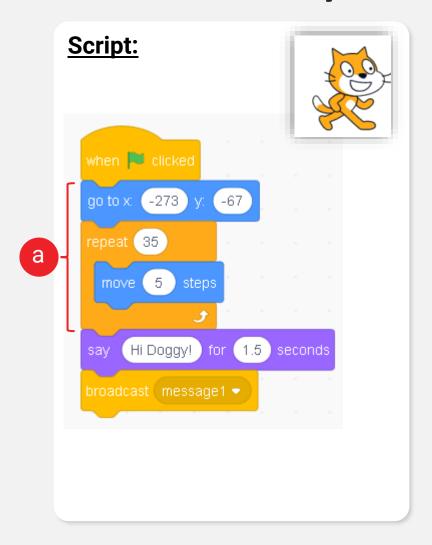


Click "Choose a Backdrop" to add a backdrop to your scene.

I will add "Hall" as my backdrop.



Add motion to your character





Let's add a motion to the cat and make it walk from outside from the left to the stated position, we remain the dog static in this case.



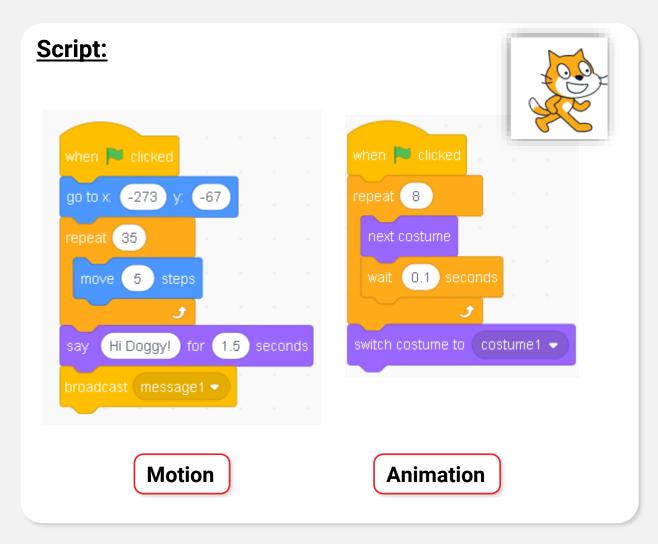
Adding animation to the Cat



We will want to keep switching the costume when we move the cat into the scene, so you will see the cat walking into the scene.



Adding animation to the Cat



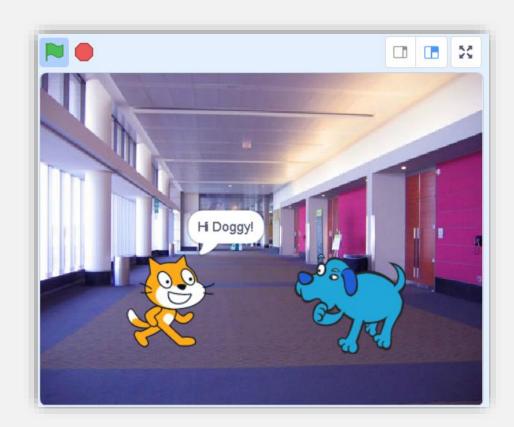
I will add another event next to the first event, which is to animate the cat.

This is like making the frames of animation and make the cat like moving its leg, and here I want to make sure the last frame stops at costume 1.





Setup the conversation (as previous lesson)



Conversation:

Cat: Hi Doggy!

Dog2: Hi Catty!

Cat: What's up!

Cat: How are you?

Dog2: Quite busy lately...

Dog2: I'm going to have my lunch

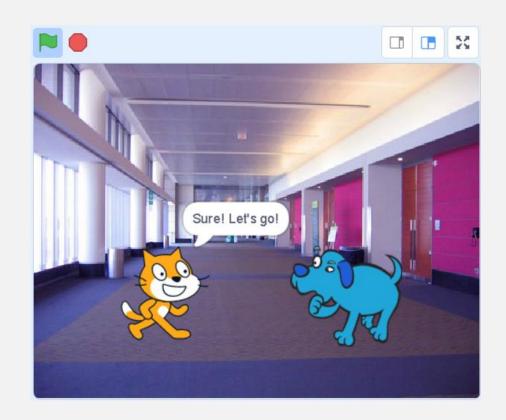
Dog2: Wanna grab some food

together?

Cat: Sure! Let's go!



Setup the conversation (as previous lesson)

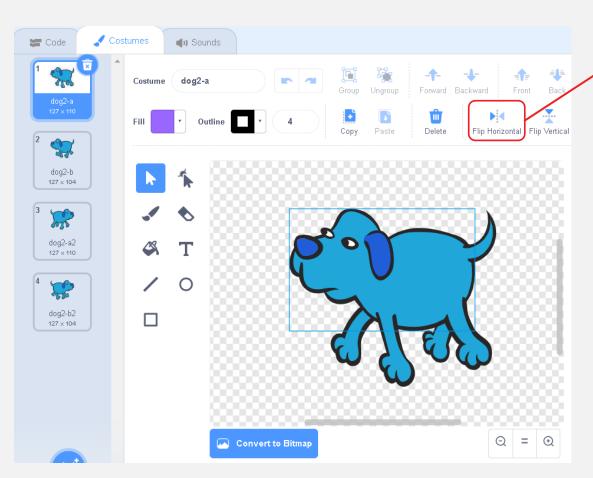


After the last sentence, we will make both of them go to the right, and disappear from the screen.

This is to setup a story like after conversation, it will change scene to other place.

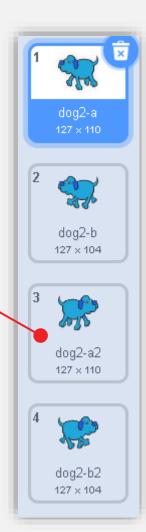


Add Costumes to your Dog (Left & Right)



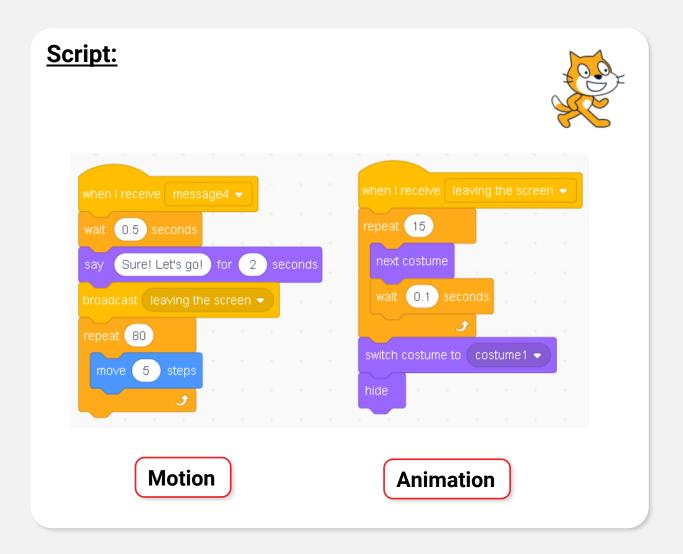
Click this button to flip the costume.

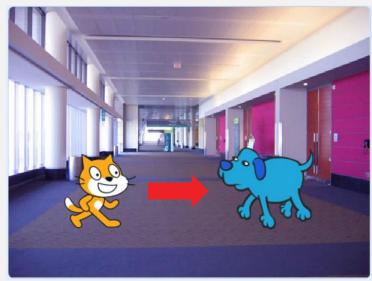
I will duplicate 2 for walking to left and 2 for right.





Add move out screen's animation to the Cat



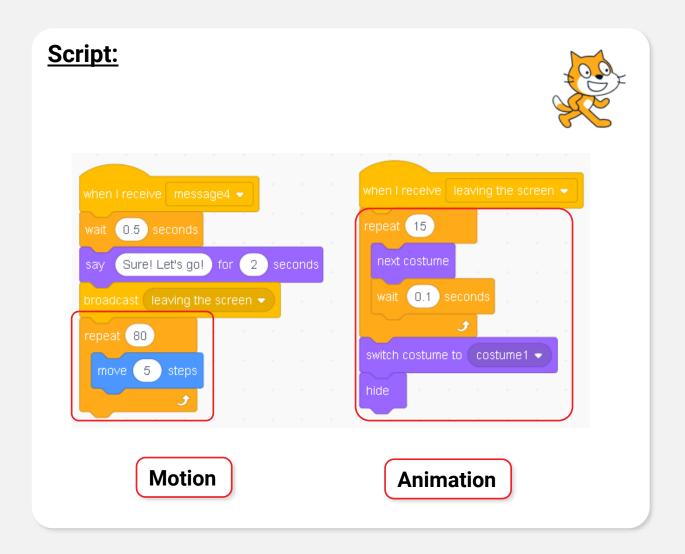


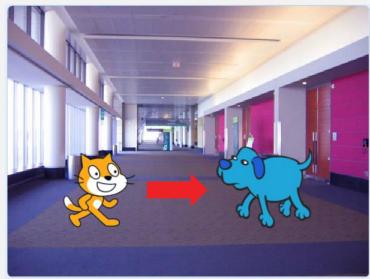
I will add a broadcast "leaving the screen" at the end of the conversation to tell the dog to leave the screen.

Then my cat will keep moving to the right then hide itself.



Add move out screen's animation to the Cat



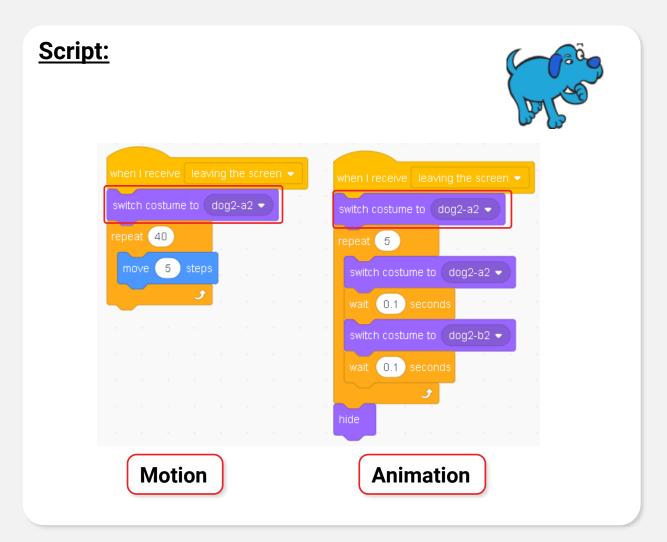


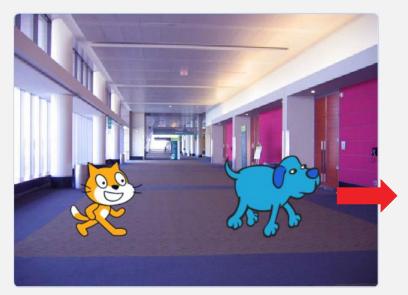
These are the motion and animation for the car to leave the screen.

I will place a "hide" block at the end to make sure the Cat disappear from the stage.



Add move out screen's animation to the Dog

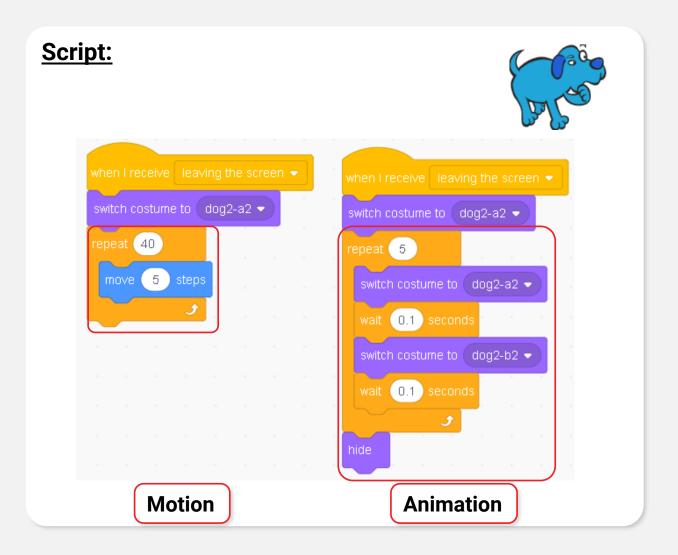




For my dog's script, Once receiving "leaving the screen", my dog will switch the costume to dog2-a2 (facing right) before it starts moving out from the screen.



Add move out screen's animation to the Dog



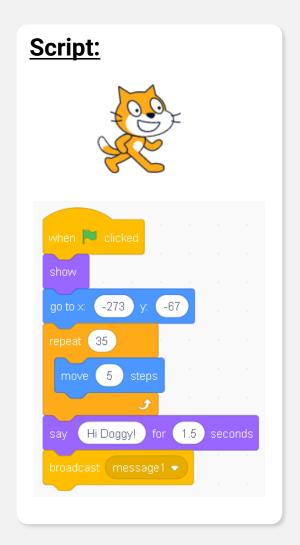


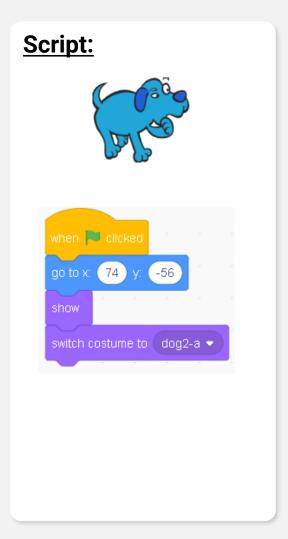
Then the dog will move out from the screen with walking animation.

After my dog fully reach the edge of the stage, it will hide itself. Basically it's the same concept as the cat's script.



Adding Show Block & Setting Starting Position



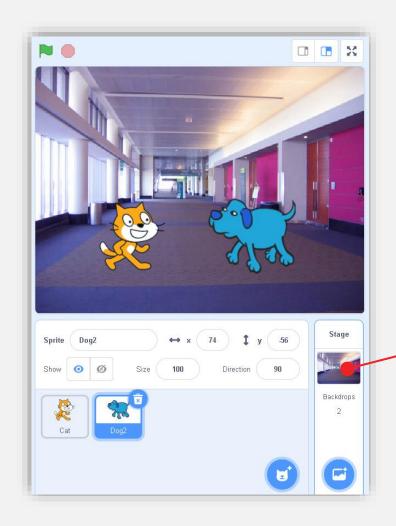




As I hide them at the end when they left the screen, so I need to fix their starting position and put a "show" block after "flag" is clicked so that they will reappear if you click "go" or "flag"



Add sound to the backdrop

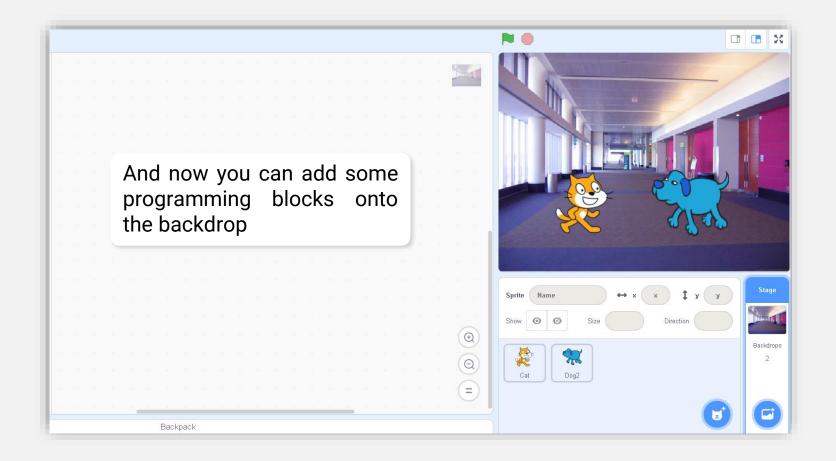


Select your Backdrop by clicking here.

We will add play "sound" script to your backdrop

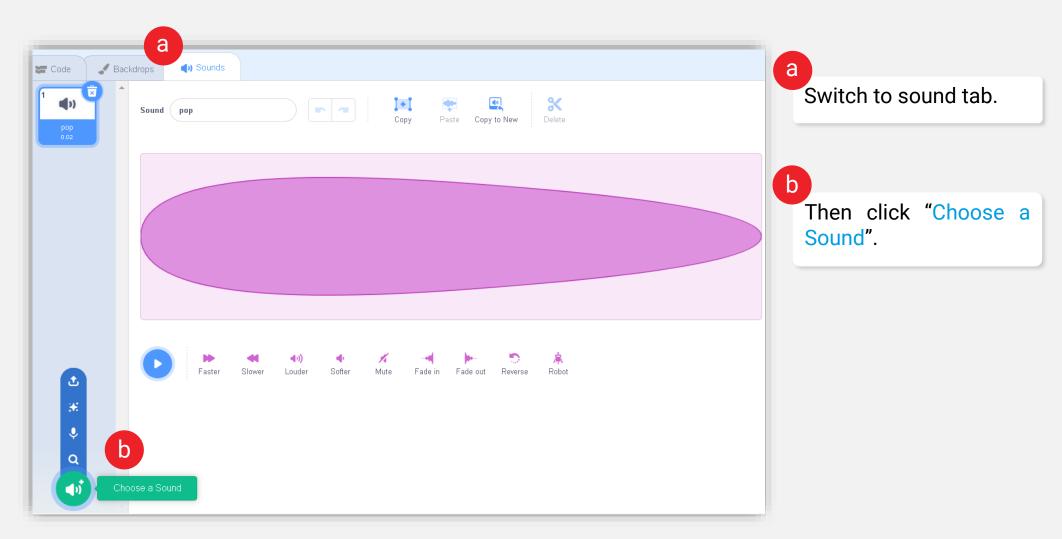


Add sound to the backdrop



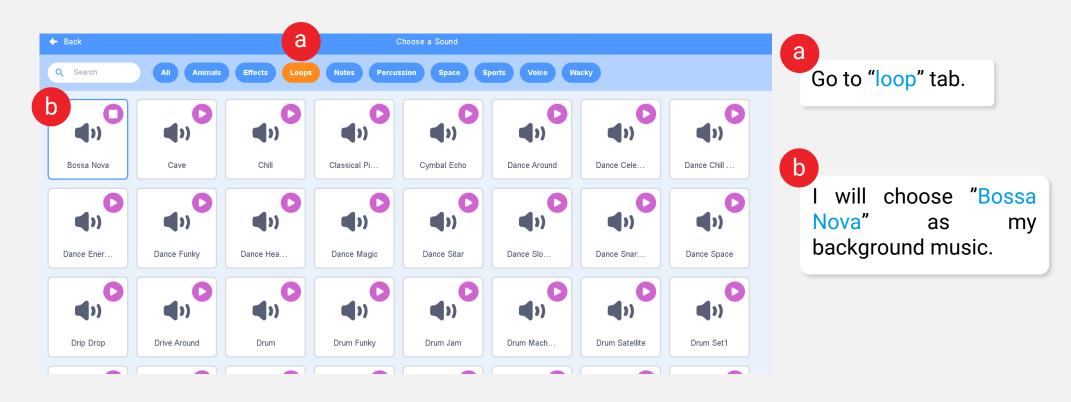


Add Background Music



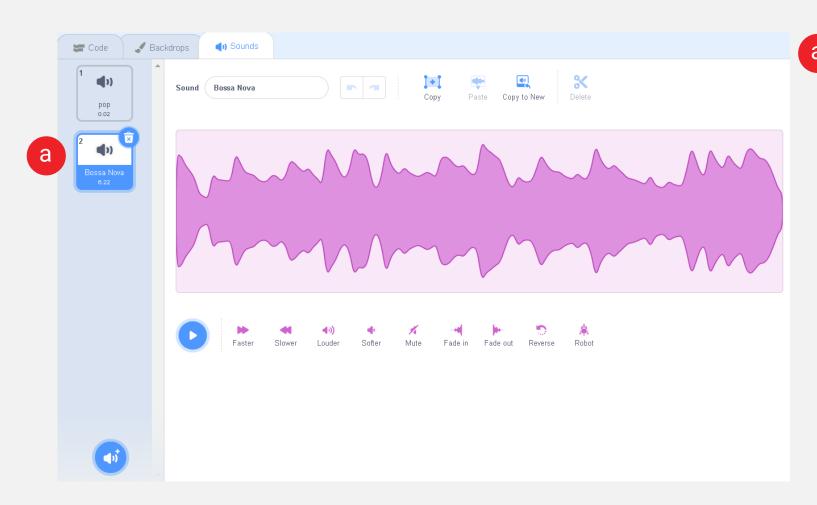


Add Background Music





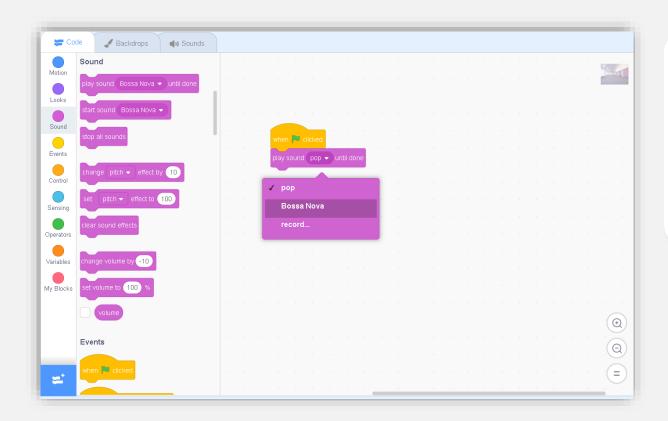
Add Background Music



You will see that you have "Bossa Nova" sound clip on your Sounds tab.



Add sound to the backdrop

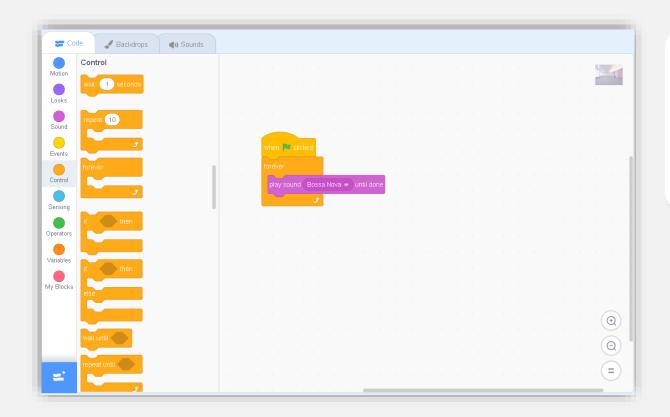


Drag out events block "when flag clicked" followed by "play sound until done".

Then change the "pop" sound to "Bossa Nova".



Add sound to the backdrop

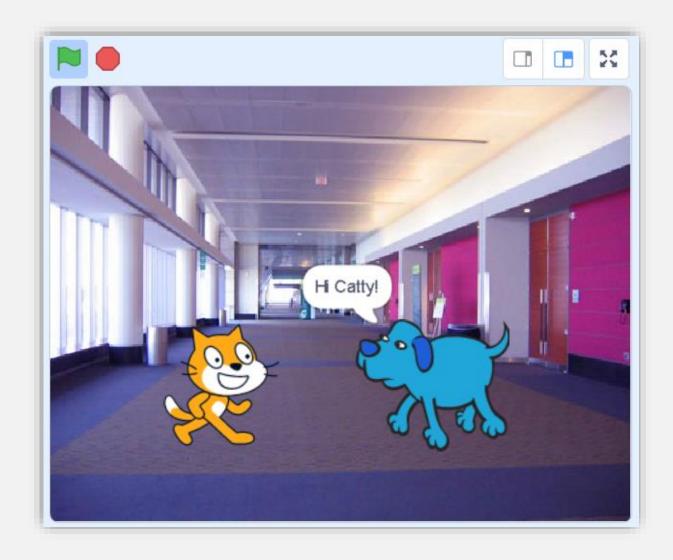


Since "Bossa Nova" only last for 6 seconds.

If you want it to keep repeating, you can add a "forever" loop to it.



Now you can Click Go to watch your Story

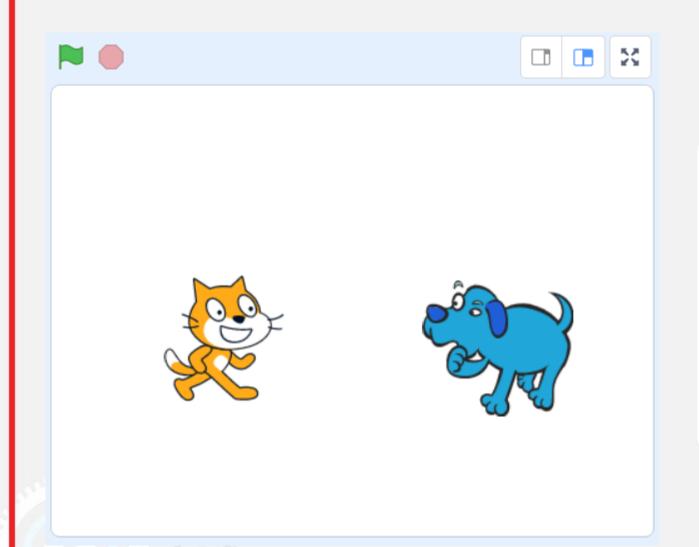




ASSIGNMENT for Lesson 4







L4 – Mission 1

Based on your last mission, add some motions to your sprites:

- 1. Cat walking from outside to the scene.
- 2. After conversation ends, Both leave the screen together.
- 3. Add Backdrop and background music.



You can direct message your teacher and ask your question through Slack Robotene Community or arrange a One-to-One Consultation with your teacher.





Thank you:)