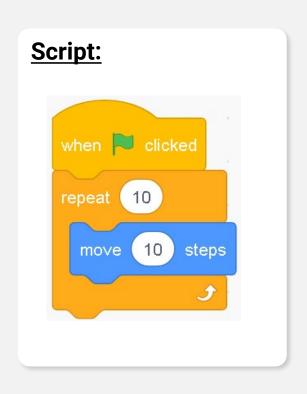


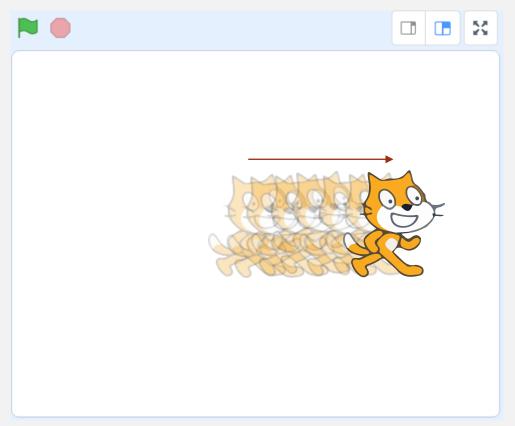
Scratch Programming Topic 1.2 Conversation Story

Presented by Advaspire Team



Review Last Topic – Animation move





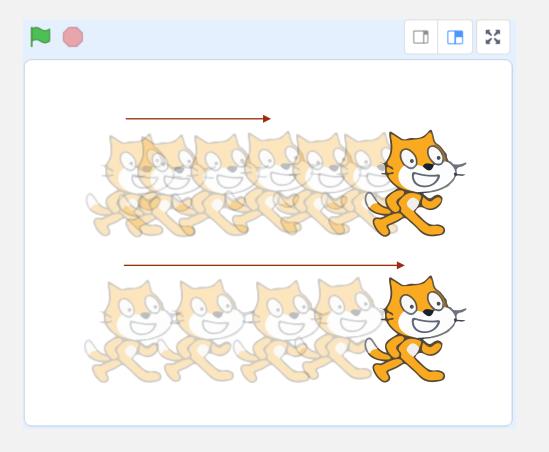
To make animation move, you need to make the steps repeat for few time.

>> Move forward for 10 times, each time moving 10 steps. Total travelling distance = 100 steps.

1 repeat block processing time = 0.03 second



Review Last Topic – Move steps







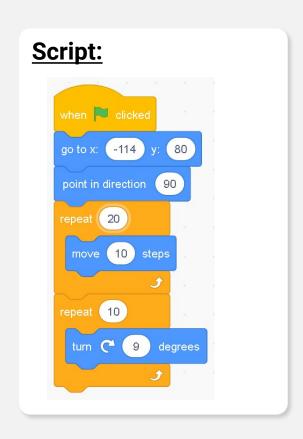
If you put higher value in repeat block (without changing the move steps), the cat should move further.

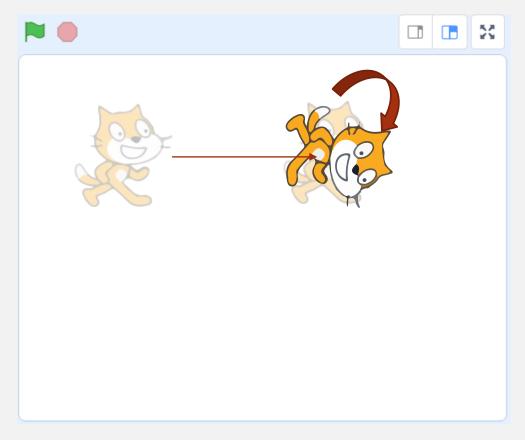
If you put in higher value for move steps, the cat will move faster. Lower value will make it move slower.

*Let's put your hands on and test the effect on this.



Review Last Topic – Combining action





You can combine the blocks together to make the motions.

This is to make the cat move front 200 steps from the starting position then turn 90°



Today's Topic

- 1. Looks Block Say Something
- 2. Rotation Style Left/Right
- 3. Use Wait Block for timing conversation
- 4. Broadcast Function

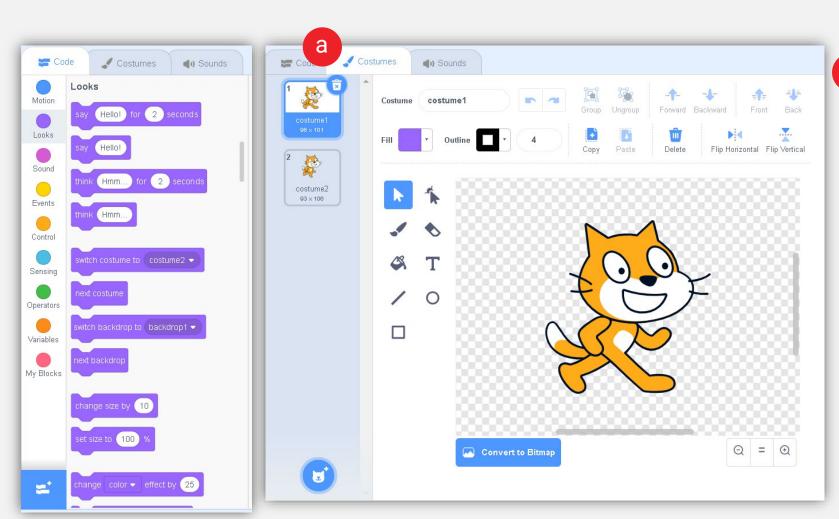


Learning Outcome

- 1. Able to make story with conversation
- 2. Able to code dialog using say block and wait for block
- 3. Understand how to make dialog story using broadcast function



Looks → make it talk



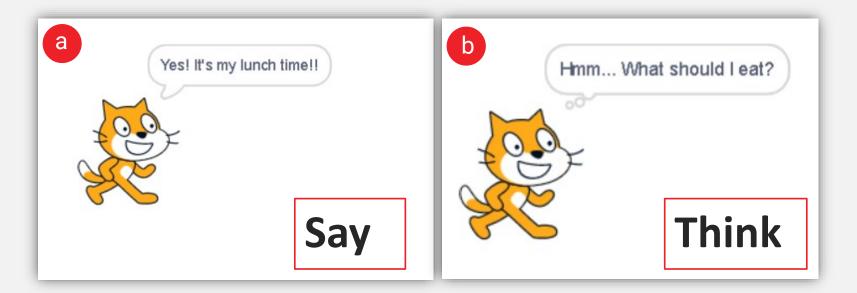
You can transform your object into animation by changing the costumes of the sprites.

Click costumes tab to edit or draw your costumes.

The concept is like a flipping comic, by changing the costumes very fast, it gives us an optical illusion that the object is moving.



Looks → make it talk



Script:

when clicked

say Yes! It's my lunch time!! for 2 seconds

wait 1 seconds

think Hmm... What should I eat? for 2 seconds b

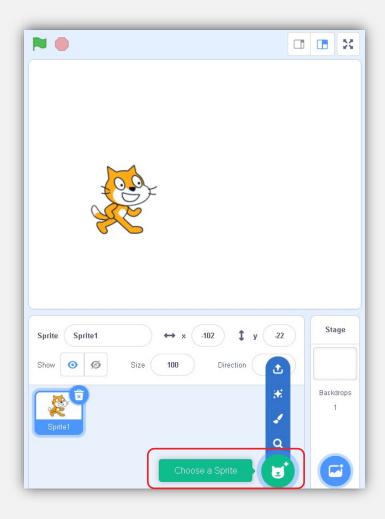
You can either make your cat say something or think about something.

"say _____ for __ seconds" block is to make your cat to say a sentence for certain seconds.

"think ____ for __ seconds" block is to make your cat think about something for certain seconds.



Add a New Sprite or Character



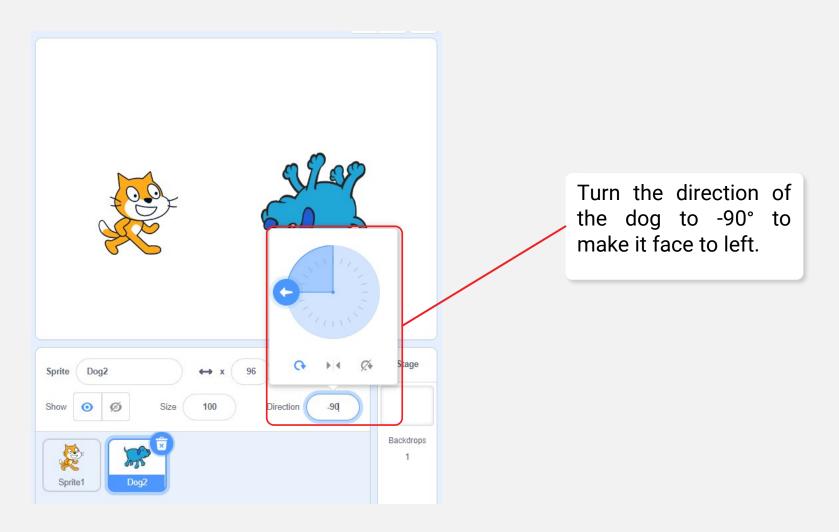


Click "Choose a Sprite" (bottom right icon) to add a new character.

I will add "Dog2" as a new sprite.

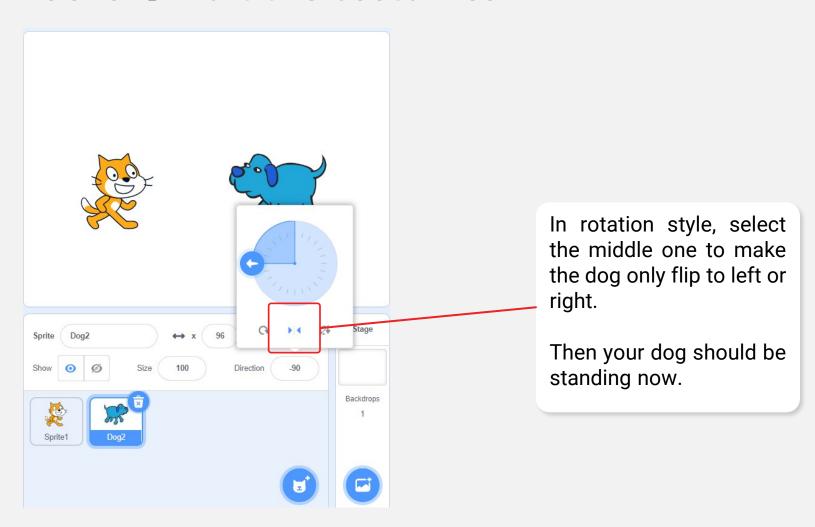


Looks → Edit the costumes



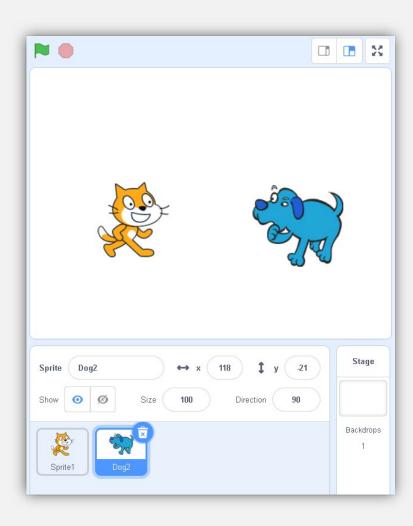


Looks → Edit the costumes





Starts a conversation



Lets make a conversation like below:

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

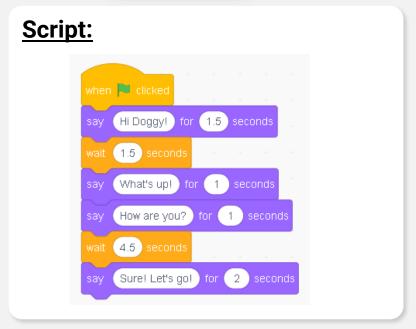
together?

Cat: Sure! Let's go!



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.

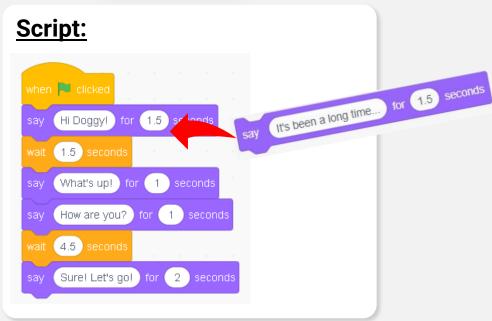
For example, cat will be the first one to talk, then it will say "Hi Doggy!" for 1.5 seconds, then dog will wait for 1.5 seconds until cat finishes its speaking, then only say "Hi Catty!", so and so on.

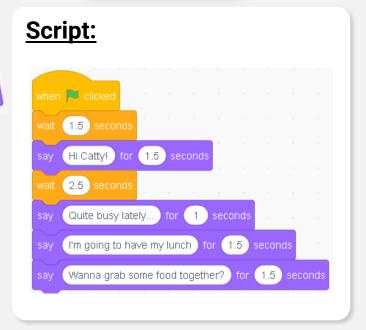


Issue - When the dialog is modified









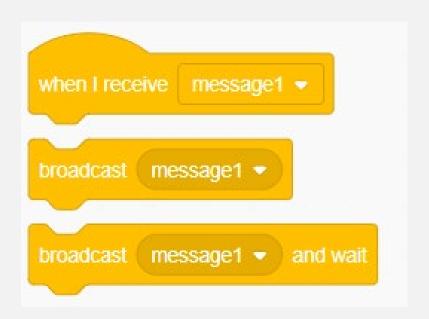
There is a problem if you have your dialog modified (add or remove dialog), unless you recalculate all the timing for wait block and rearrange it.

You will need to add duration if you slot in dialog into to conversation.

If will be confusing when you have a lot of dialogs, you must add duration to correct wait block in order to run it without overlapping.



Broadcast Function



Instead of using wait block to time the conversation for different sprites, there is a better way to arrange the conversation, we will use broadcast method to arrange our conversation story over wait block.



Broadcast Function

Send out Broadcast

broadcast (message1 ▼

This is an event to sent out a broadcast to all sprites including backdrops.

Each of the sprites will receive the message including the sprite that initiate the broadcast.

Receive Broadcast



This is an event that triggers following blocks to do the actions once receive the message stated.

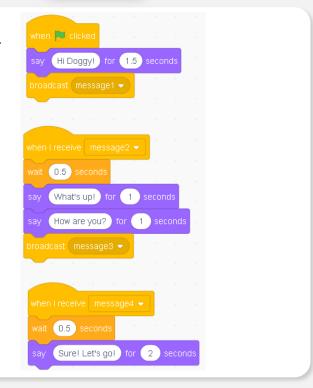
If this block is absence in the sprite, it won't do any action even if it receives message from broadcast.



Broadcast Function



Script:





Script:

```
when I receive message1 \times wait 0.5 seconds

say Hi Catty! for 1.5 seconds

broadcast message2 \times wait 0.5 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

broadcast message4 \times
```

We can also arrange the conversations with Broadcast function.

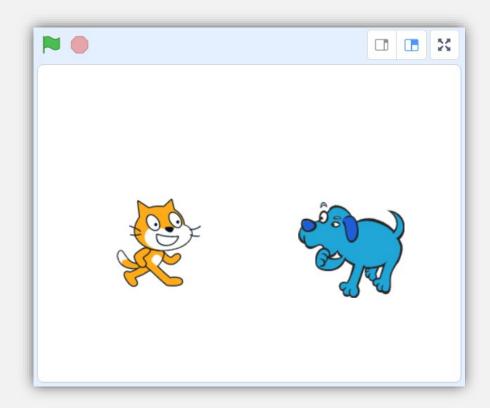
Broadcast function is like acting based on cues.

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.



You can try to create your own story

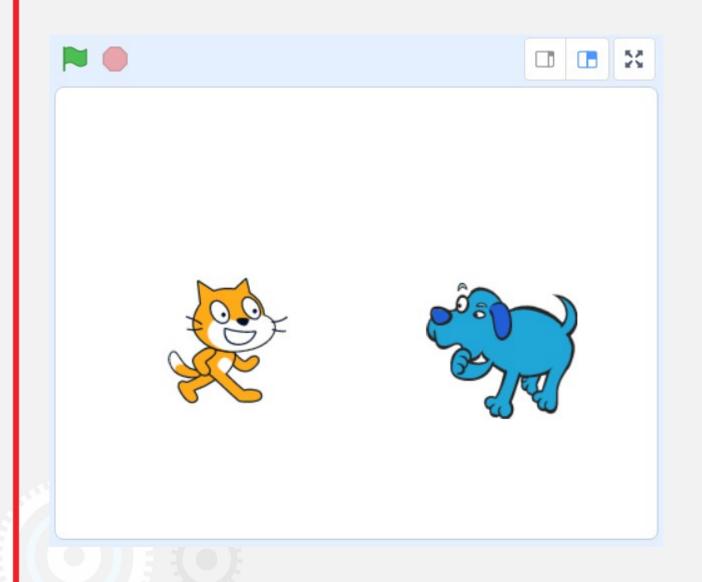




ASSIGNMENT for Topic 1.2







T1.2 – Mission 1

Do a conversation like below:

Cat: Good morning, Doggy!

Dog2: Good morning, Catty!

Cat: How is everything going?

Dog2: I'm good... ... (pause a moment)

Dog2: But I'm quite worried about

my exam

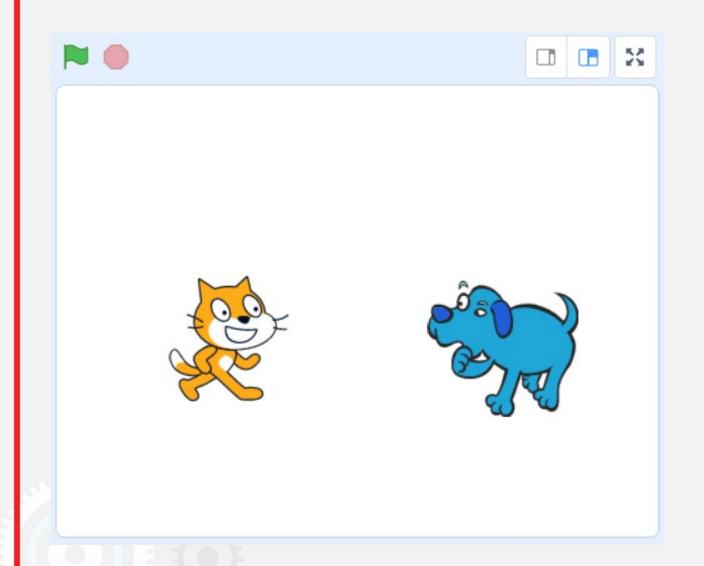
Dog2: I think I screwed the exam.

(pause awhile)

Cat: Don't worry about it, let's catch

some drinks first!





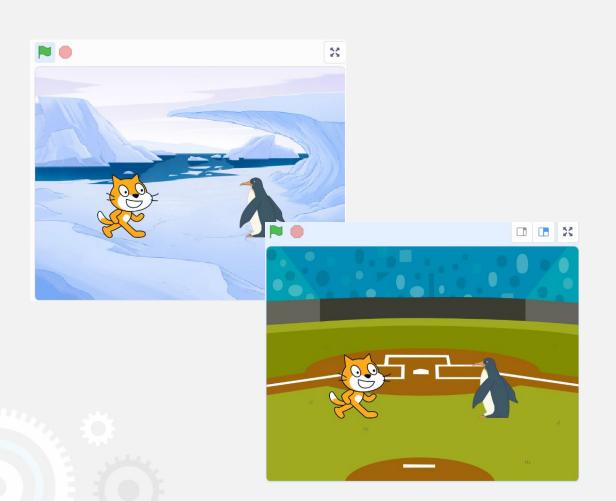
T1.2 – Mission 2

Try to change these 2 characters to other sprites.

Design your own conversations that's talking about Covid-19 things.

Conversation keeps to 6~10.





T1.2 – Mission 3

Make a story with at least 2 different scenes.

Create your own conversation story and use broadcast function for the flow.



Summary

- 1. You can transform your object into animation by changing the costumes of the sprites.
- 2. "say _____ for __ seconds" block is to make your cat to say a sentence for certain seconds.
- 3. Using "wait __ seconds" block can pause the sprite for awhile while waiting other sprites to complete their dialog
- 4. Broadcast method is a better way to arrange conversation when you have a lot of dialogs going on



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:)