

Lesson 7:

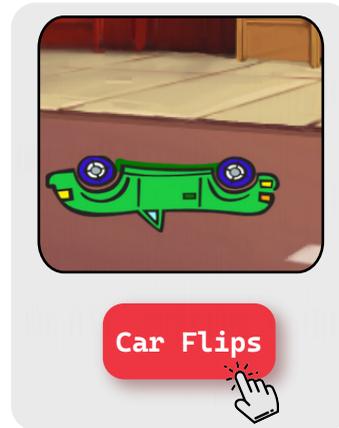
Student Guide

Get Sprites to Broadcast



Let's start with debugging!

As usual, we'll start with debugging.



Getting ready for the lesson

login to your Scratch Account

- 1 Sign into your Scratch account.

Join Scratch

Sign in

- 2 Set to high contrast mode

Original

✓ High Contrast

- 3 Use the backpack to get objects from other projects

Click to view



Let's explore some examples



Play with these projects and see how they are made. Modify them and create something different!



Sanu's boat



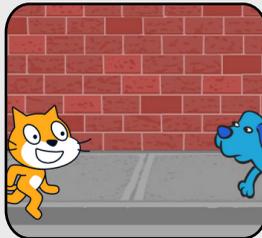
Calf and the apple



To broadcast means to send a message to everyone. All the sprites and backdrops in the project can receive the message.

Hint:

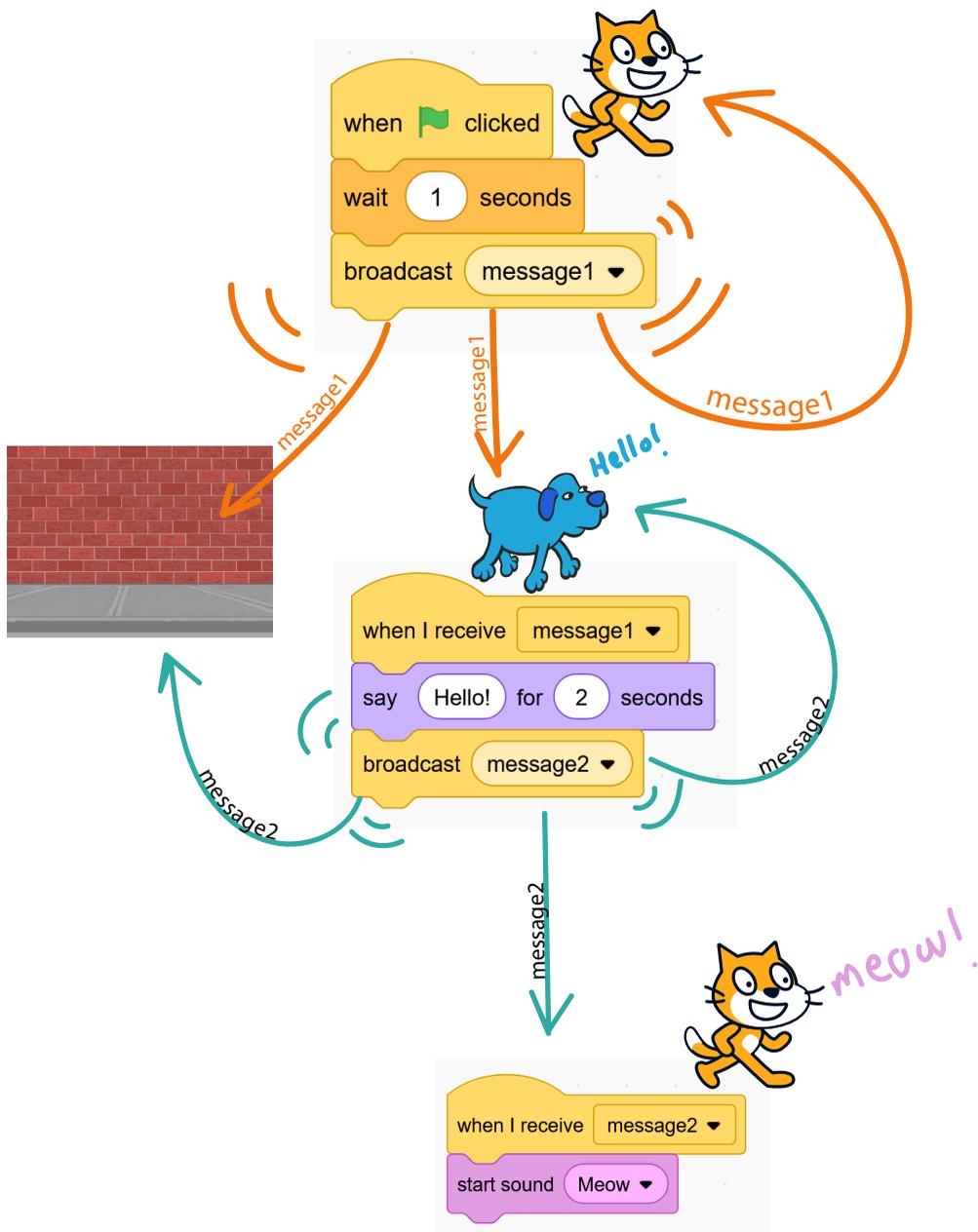
If you are unclear about how broadcast works, go through this simple project and diagram.



Cat and Dog



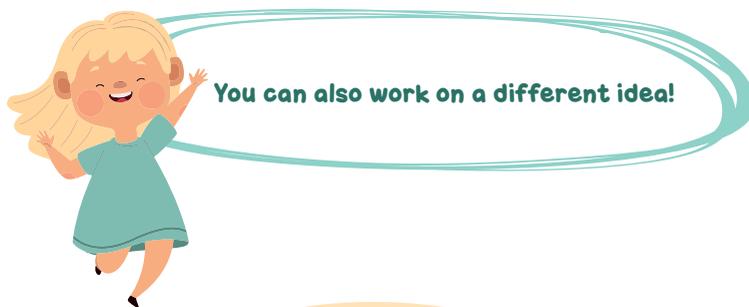
This is how the Cat and the dog communicate with each other:



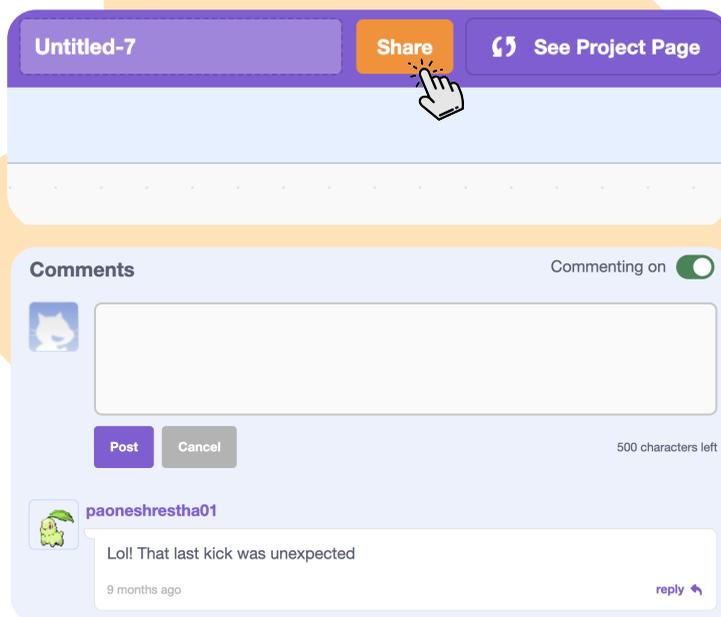
Let's create some stories

Use any of the prompts below to create a story

- A A child calls her dog
- B The sun rises and birds start flying
- C A girl goes inside her house (hint: change backdrop)



Share your project. Explore the projects shared by your friends and leave comments!



Play with these blocks. Use them in your code and see what happens.

Send a message

```

when this sprite clicked
say Sending message
broadcast message1
  
```

Receive a message

```

when I receive message1
glide 1 secs to Sprite name
  
```

Reset the project

```

when green flag clicked
hide
go to x: -159 y: -85
set size to 80 %
  
```

Play with random numbers

```

switch costume to pick random 1 to 4
  
```

```

set x to pick random -240 to 240
  
```

```

repeat pick random 1 to 5
play sound Meow until done
  
```

Add gesture to speech

```

switch costume to SanuPoint
say There it is! for 2 seconds
  
```

Examples

More things to explore

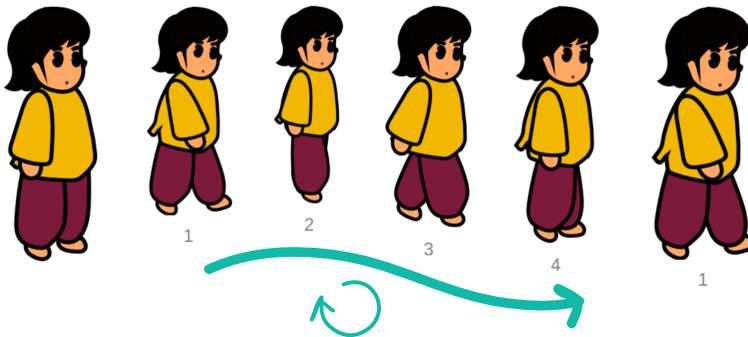
Walk Cycle

A basic walk cycle can be made with only 4 costumes:

1 → 2 → 3 → 4 back to 1 and repeat ↻

Notice the angle of the arm?

The right arm points to left toe and left arm to right toe.



Facial expressions



Our eyes pick up expression very well, even slightest movement of eyebrows and angle gives entirely different expression. You can 100k at these emojis to create expressions for the sprites.

Let's reflect

- 🕒 Tell us about something new that you tried today.
- 🕒 What was different compared to your previous projects?
- 🕒 What new ideas did you get from this lesson?