Programming Fundamentals Lab

Lab # 02
Scratch (advanced)
Instructor: Fariba Laiq
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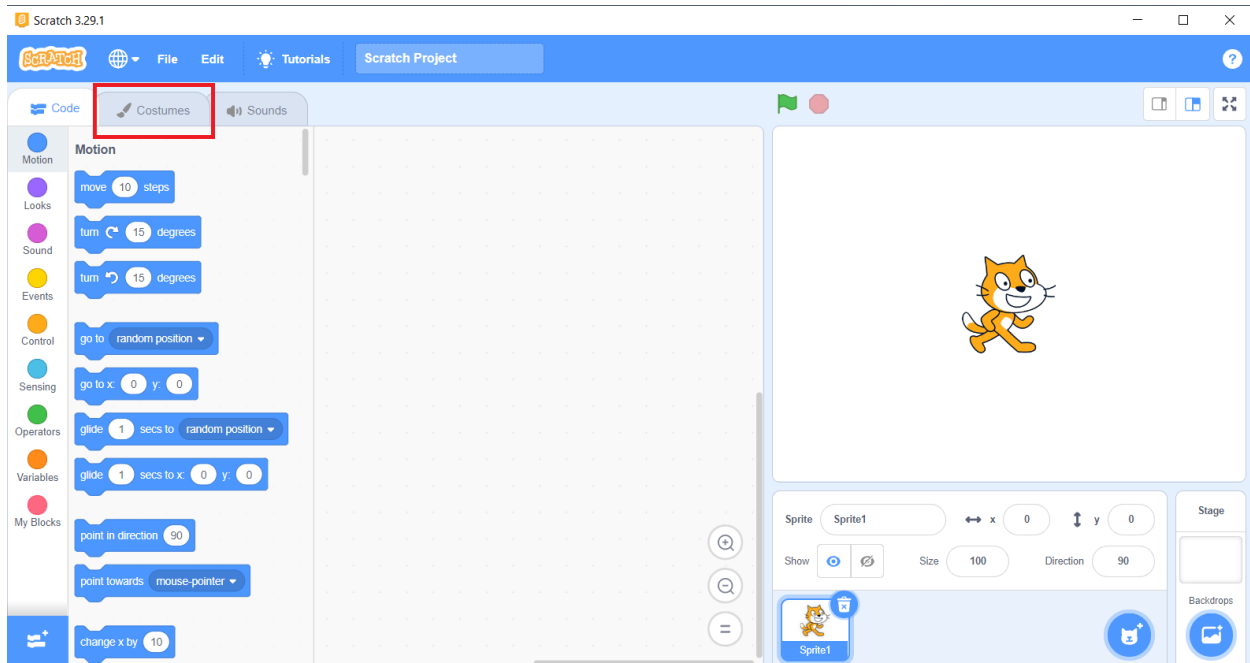Course Code: CL1002
Semester Fall 2022

Department of Computer Science,

National University of Computer and Emerging Sciences FAST
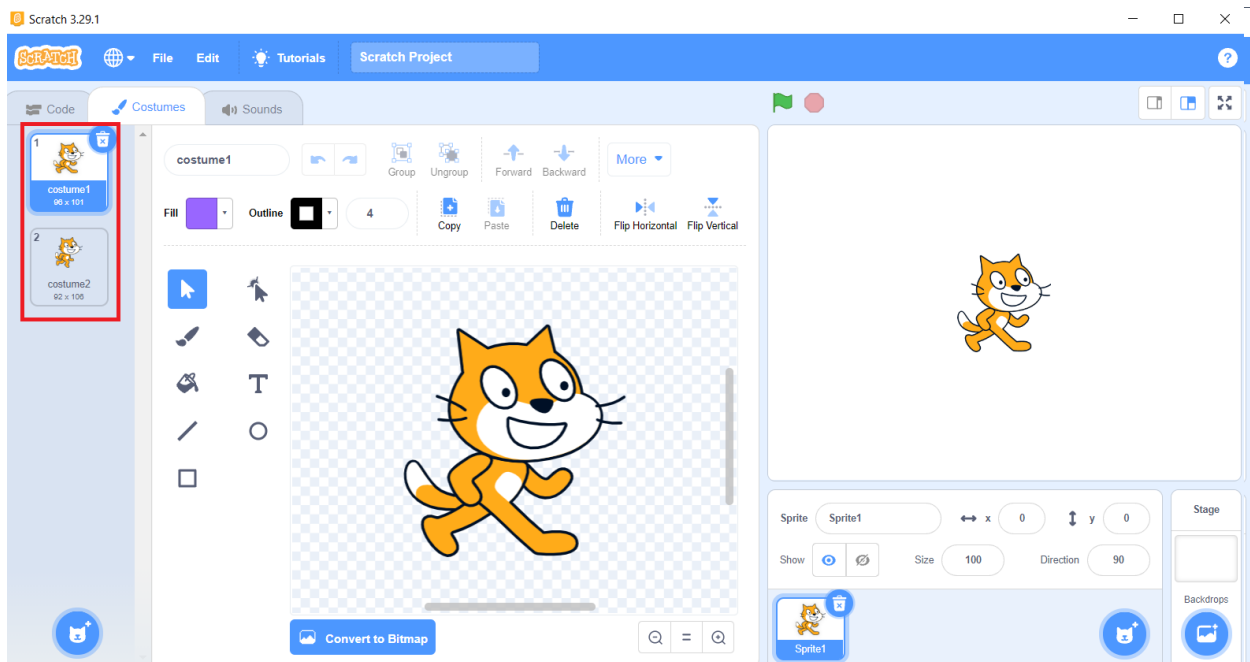
Peshawar Campus

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Animate a character in Scratch

You can see all the costumes (sprites) of a sprite by clicking on the **Costumes** button.

The cat has two costumes named **costume1** and **costume2**.

To animate the cat, you can use the **switch costume** block with **wait** to see the cat in animation.
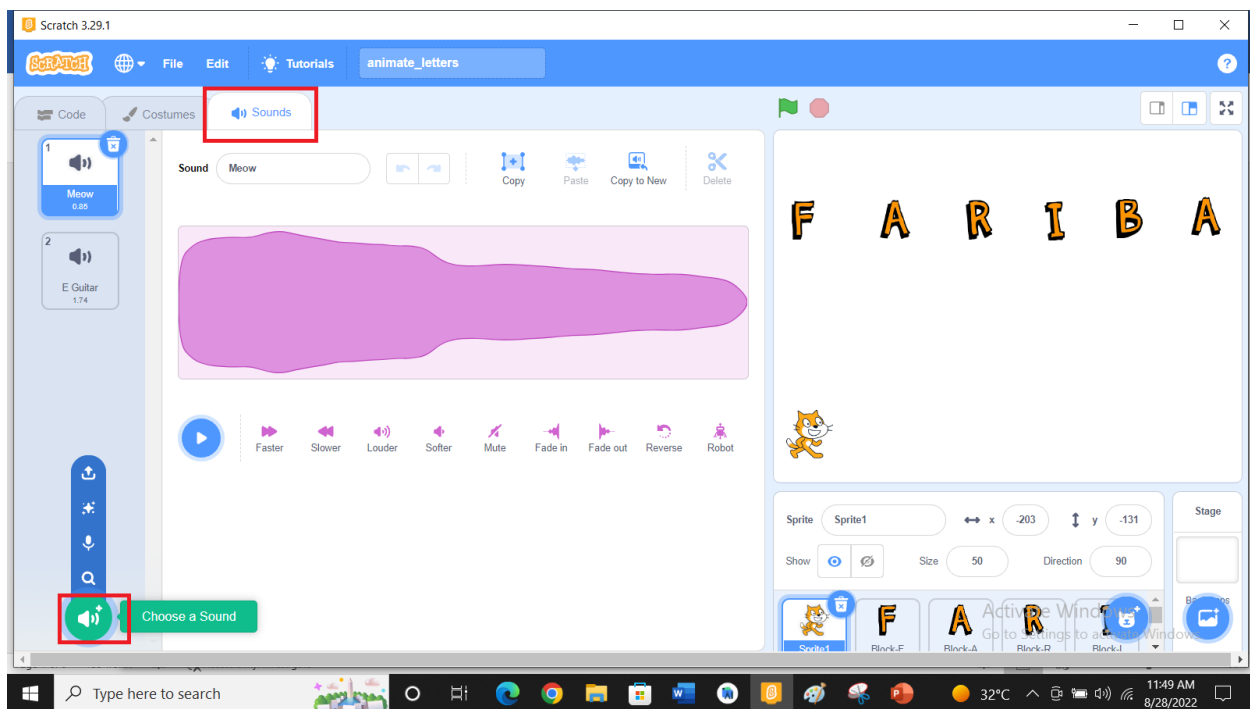
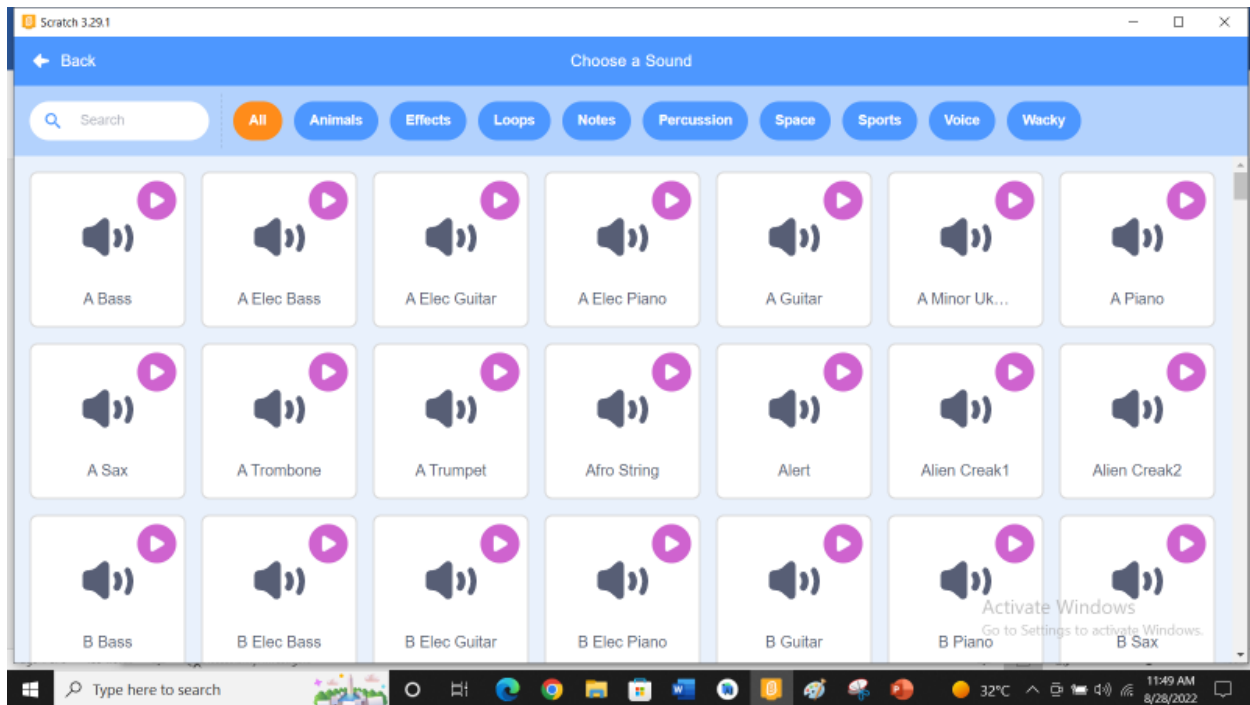The following code blocks will animate the cat.

Add Sounds

To add built-in or external sounds, you can click on the Sounds button.

On the bottom left corner, you can see the sounds icon. From there you can add the built-in or external sounds to your sprite.
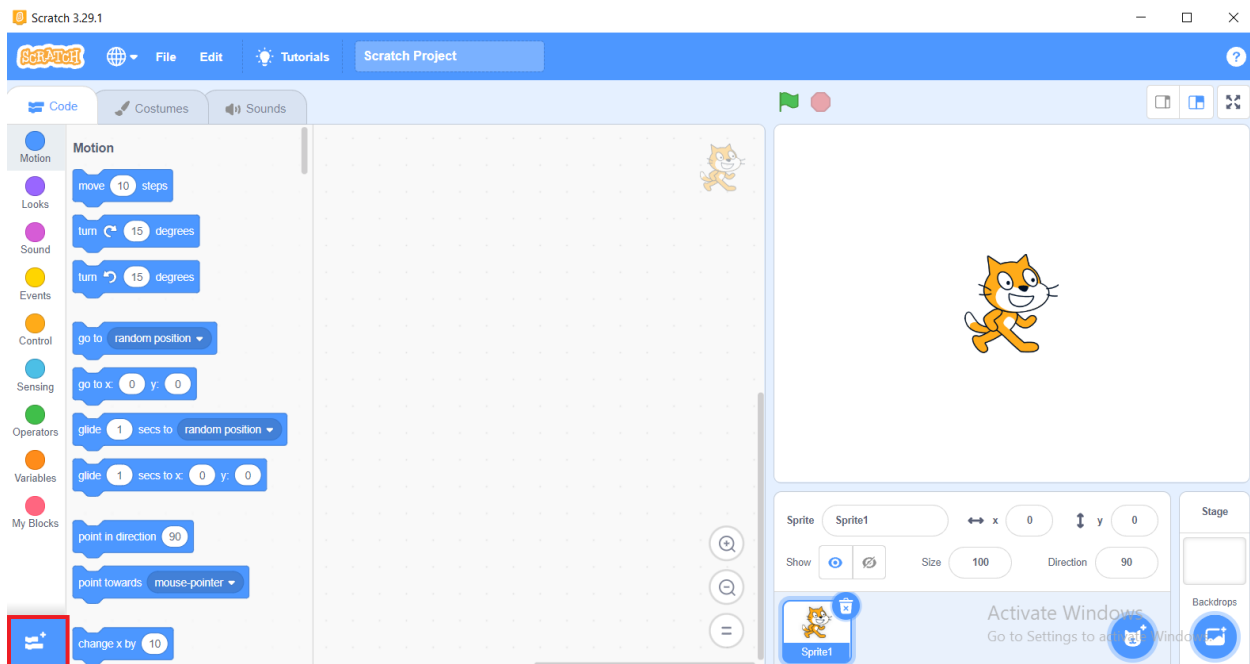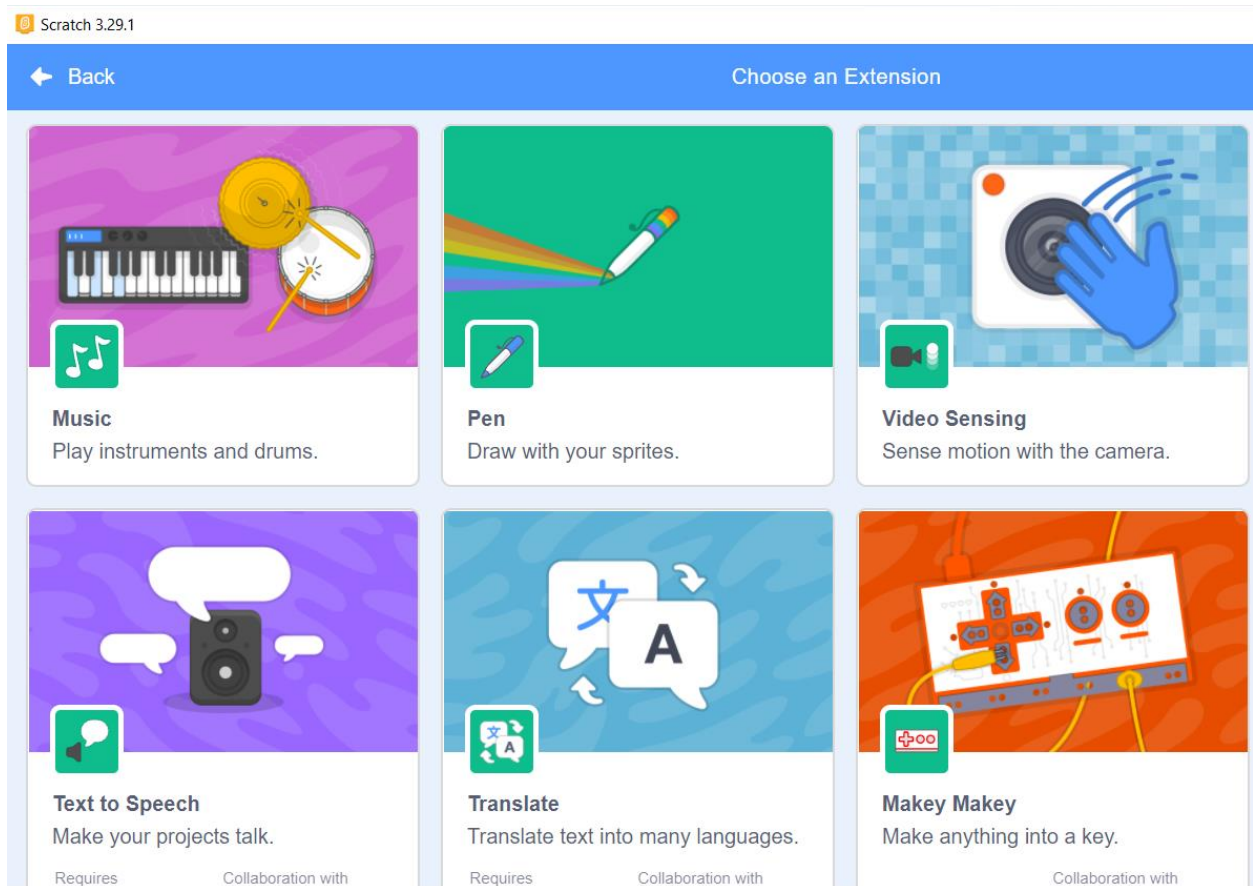
Extensions

You can add extensions to use additional functionalities like music, pen, text to speech, translate, etc.

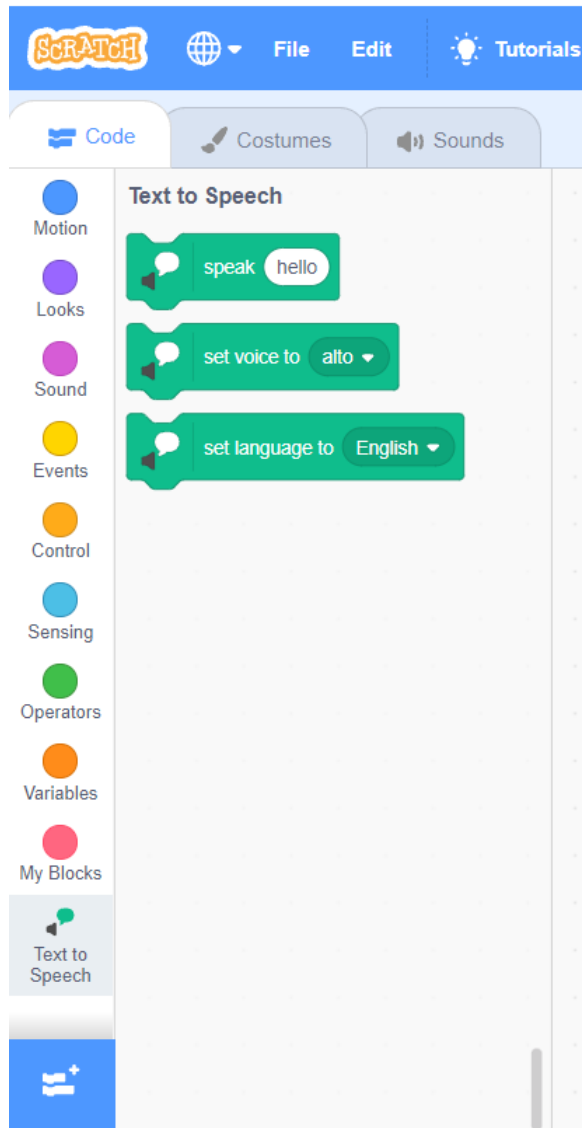To add extensions, click on the **extensions** icon on the bottom left.

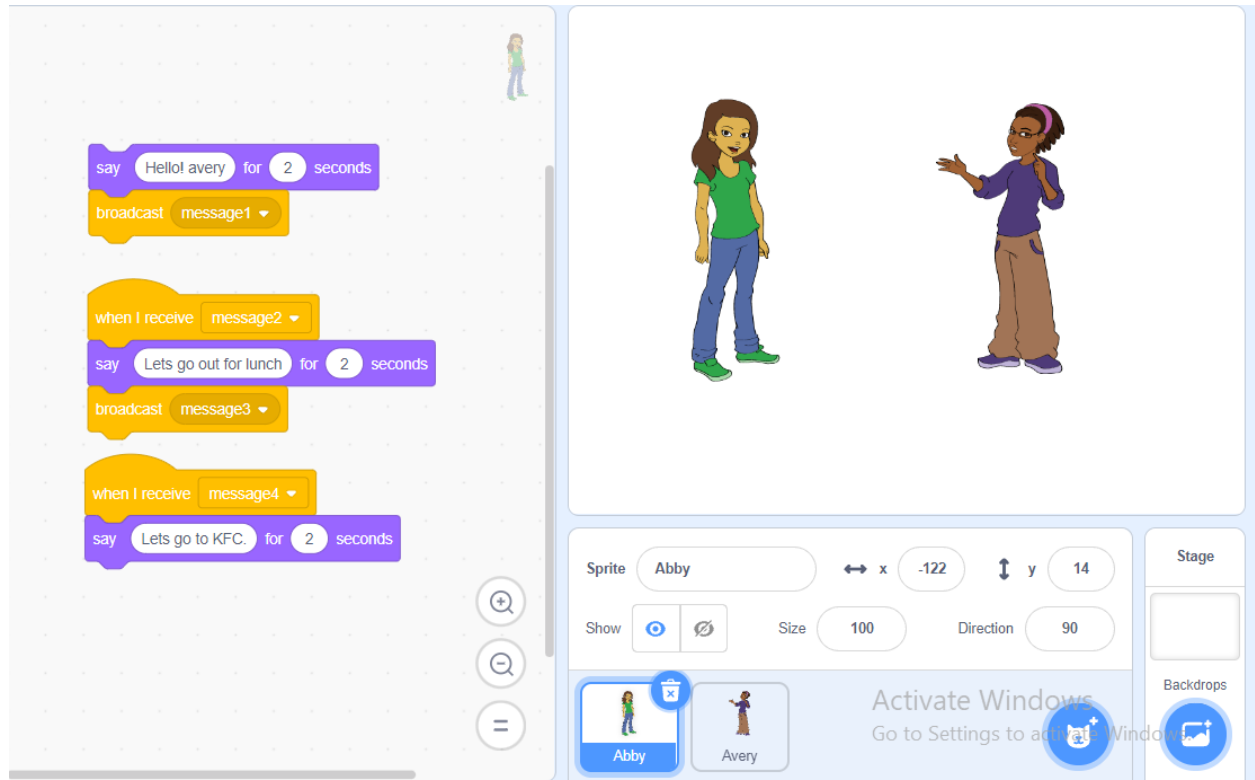You can see all available extensions that we can add. Click on **Text to Speech**.

Text to Speech

Scratch 3.29.1

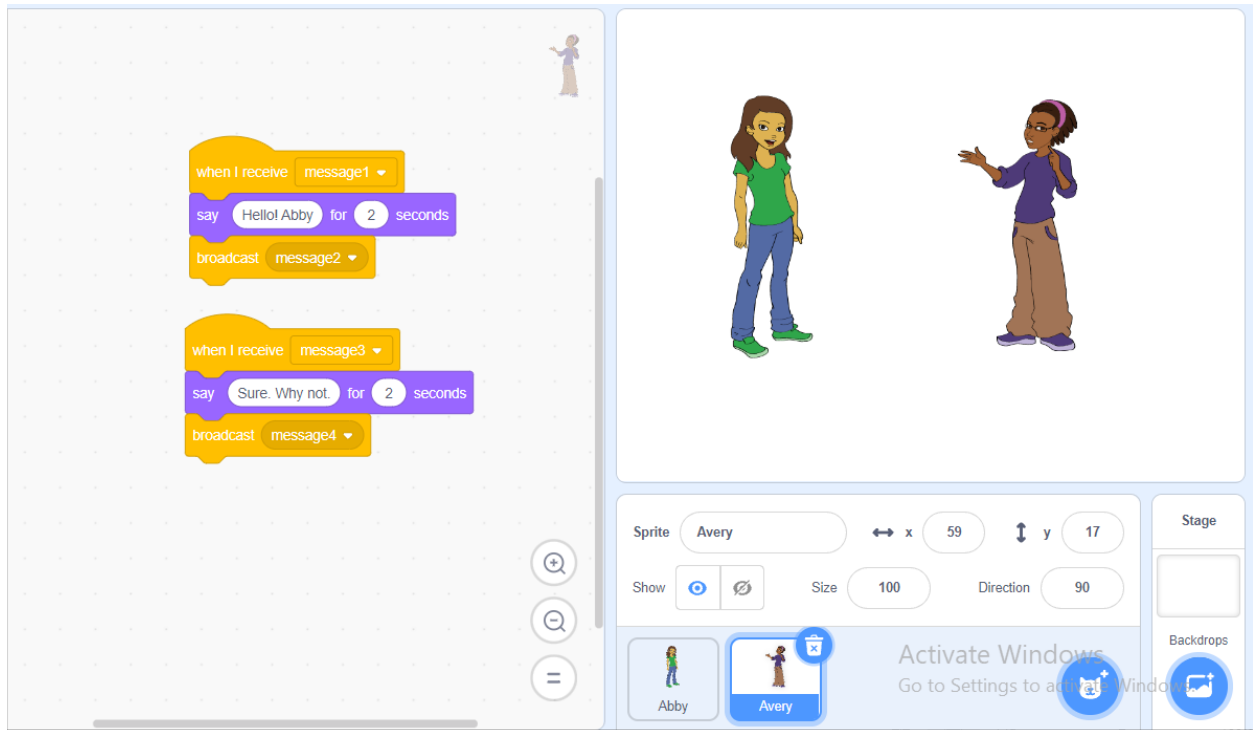# Create a Conversation between sprites

Use Broadcast Message

Use Wait

when 🚩 clicked
wait 2 seconds
say Hello! for 2 seconds
wait 2 seconds
say fine and you? for 2 seconds

Sprite Avery ↔ x 134 ↕ y 5
Show 👁 ⊘ Size 100 Direction 90

Abby Avery

Stage

Backdrops

Activate Windows
Go to Settings to activate Windows