WEEK 1: INTRODUCING SCRATCH

INTRODUCTION

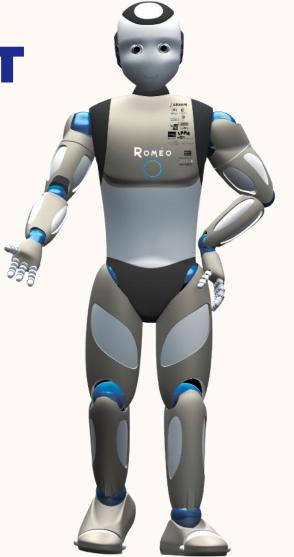
- Name
- School
- Favorite thing you've done so far this summer (or looking forward to do)

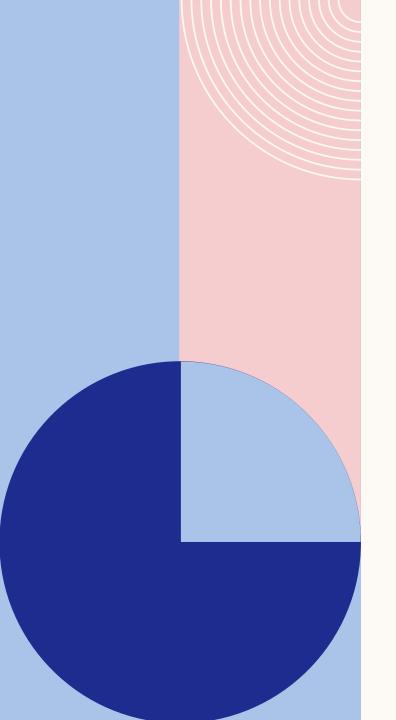
PROGRAM THE ROBOT

• In pairs, assign one student to be A and the other B

 For 3 minutes, A will give verbal "commands" to move or do actions, and B will act them out, or execute them

• Switch roles!





SCRATCH

- Scratch is a coding language with a visual interface
- Allows students to create projects such as stories, games, animations, and more!

CREATING SCRATCH ACCOUNTS

- 1. Go to scratch.mit.edu
- 2. Join Scratch



- 3. Create a username and password WRITE THEM DOWN
- 4. Select country United States of America
- 5. Enter your birth year and month
- 6. Select gender (or prefer not to say)
- 7. Enter email address if you don't have one, let us know!

EXPLORING SCRATCH

Getting Started with Scratch

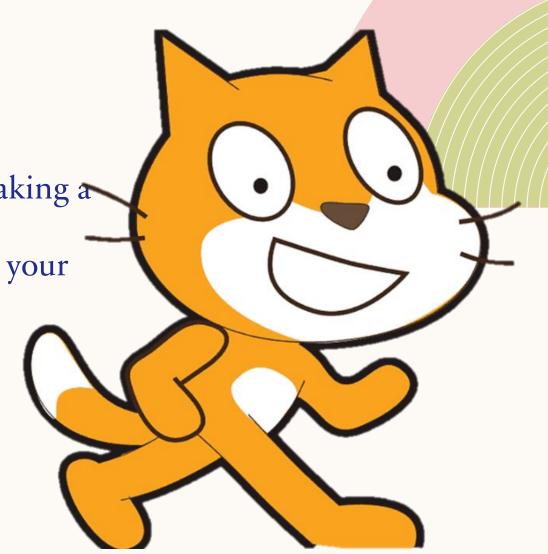
Spend 10 minutes exploring Scratch and playing around with projects!

CREATE A SPRITE

Creating a Sprite

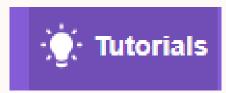
What are the different options when making a sprite?

Try choosing one, and then try drawing your own sprite!

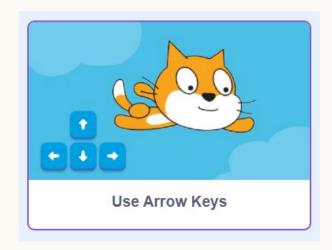


MAKE THE SPRITE MOVE

Click "tutorials" at the top of the screen.



Click the "use arrow keys" tutorial.



CREATE A BACKGROUND

Creating a Background

Trying creating your own background!

If you finish early, add sprites to your background!

ANIMATED NAME

- Make a new project.
- Use sprites for each letter of your name (in the letters category)
- Example: https://scratch.mit.edu/projects/1197095557
- You can make them all move around when the green flag is clicked OR make them do things when you click them.
- Ideas for animations:
 - Spinning around!
 - Going up and down!
 - Changing color!
 - Increasing and decreasing size!
 - Changing backdrop!

BREAK

20 minutes

CREATE A MAZE!

Maze Starter on Scratch

Let's look at the code inside this project.

Let's make our own maze!

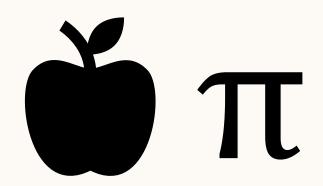
REBUS PUZZLES!

A rebus puzzle is a **puzzle with both pictures and letters** that means a word or phrase.

Here is an example:



Answer: lemonade!



Answer: apple pie!

Who knows what this symbol means?





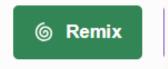
Answer: forty-two years!



Answer: broken promise!

DANCE PARTY

- Create an animation that resembles a 'Dance Party'
- Example: https://scratch.mit.edu/projects/1105113583
- Can work independently on in pairs
- 1. Remix the project



- 2. Add a sprite
- 3. Use "switch costume" and "go to this position" and "wait _ seconds" to make it dance!

MAKING A SPRITE "WALK"

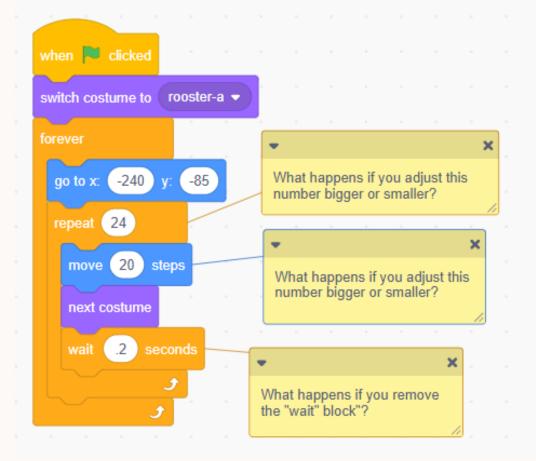
6 Remix

Walk Cycle on Scratch

- 1. Remix the project
- 2. Click "choose a sprite"



- 4. Add the sprite
- 5. Recreate this code → and experiment with the numbers!



REFLECT AND JOURNAL