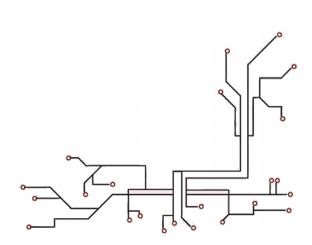
micro:bit Basics

- micro:bit
- <u>micro:mojis Movie</u>
- <u>micro:coding Loops</u>
- <u>micro:mojis Experiment</u>

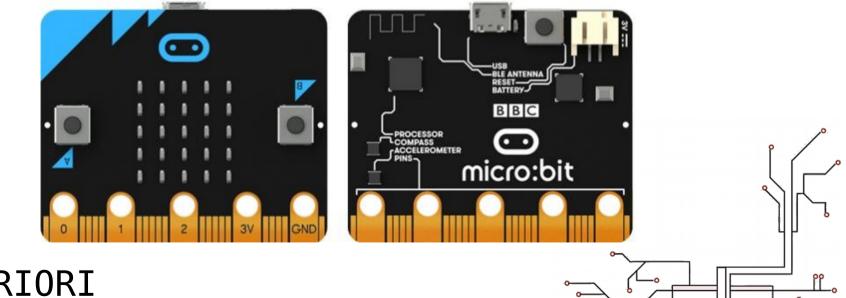




First, meet micro:bit!

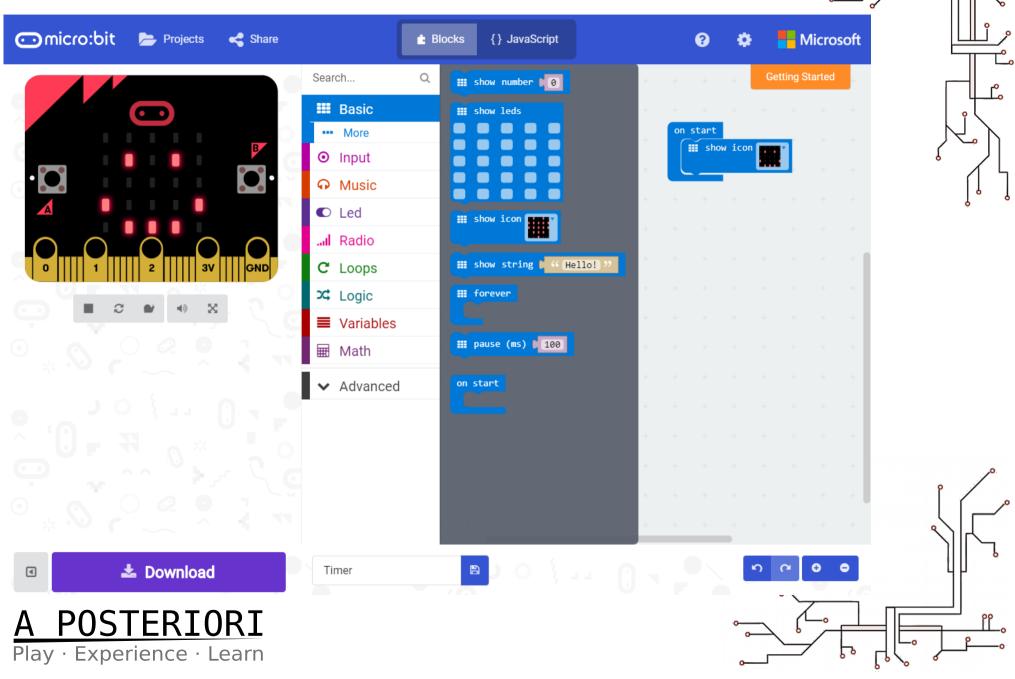
The micro:bit is a pocket computer designed for education purposes. We can use it to help us imagine and design a smarter, future city.





Play · Experience · Learn

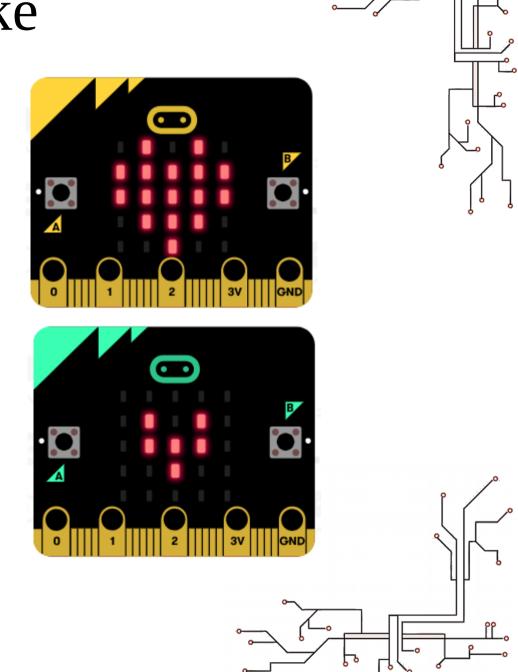
micro:bit Programming



8

Let's Make

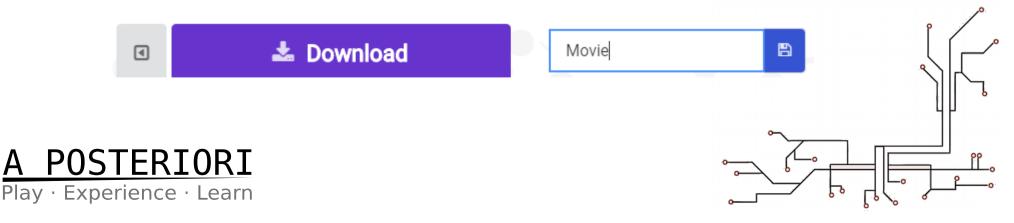
A micro:bit Emoji Movie

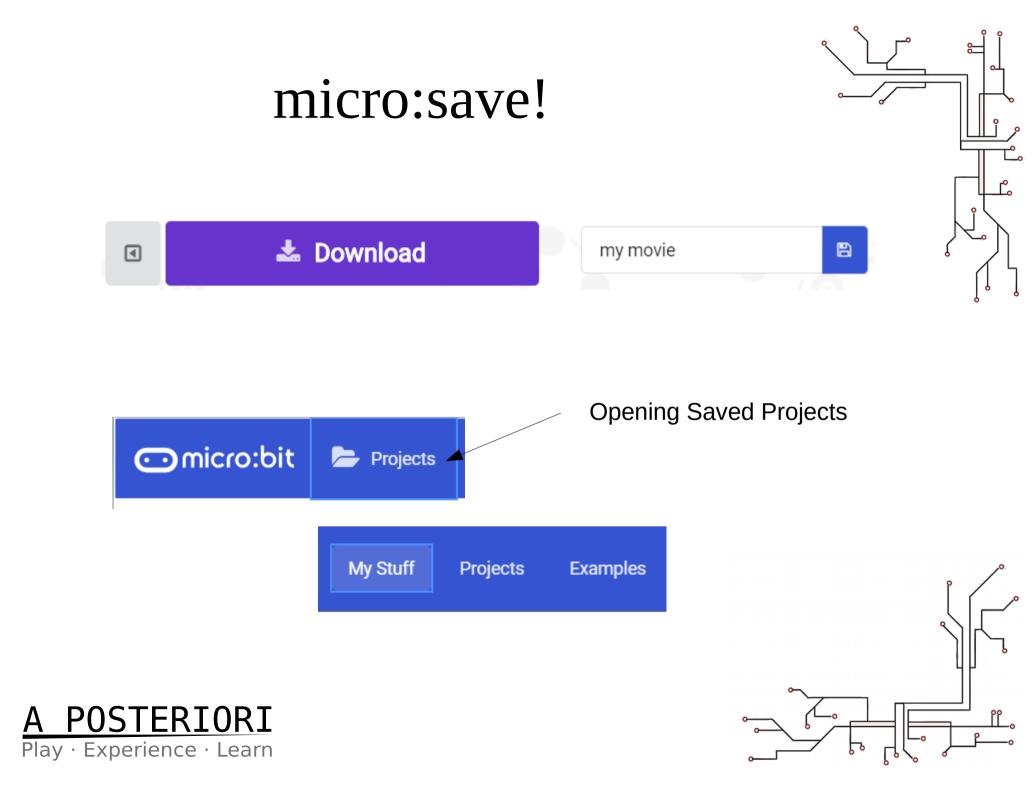




micro:Movie

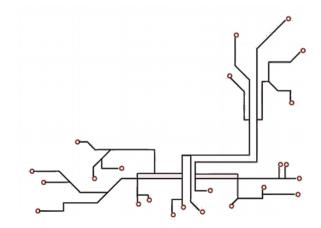
- Animate a Sustainability issue you care about:
 - Pick/create LED images
 - Show them **in order**
 - Can add text (like in a silent movie)
- Simulator vs. physical micro:bit
 - Test in Simulator
 - **Download** to see micro:bit come to life





micro:Wha?

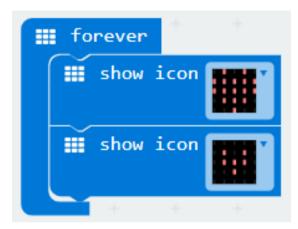
What is the **difference** between putting your movie sequence inside **on start** vs. inside **forever** block?

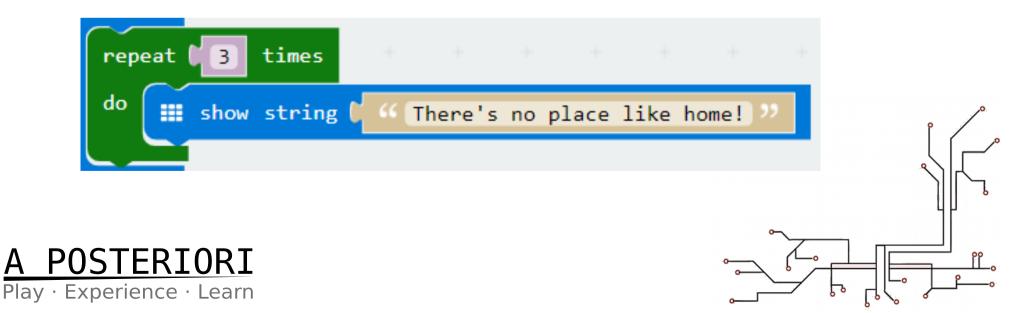




micro:Loops

- Loops
 - A way to repeat instructions
 multiple times





micro:mojis Timing

Slowing things down:

• **Pause** between images to slow the movie down...

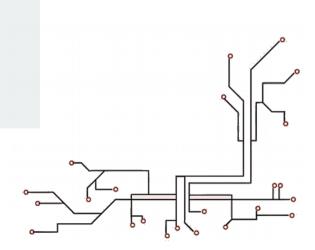


Speeding things up (advanced):

• In **JavaScript**, use *intervals* to speed animation...







micro:Buttons

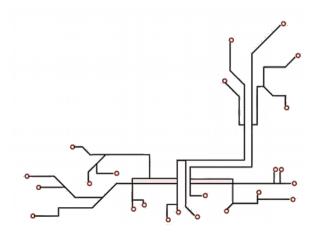
Make two endings of your movie, or two different movies.

Play one if you press 'A' button.

Play the other if you press 'B' button.



⊙ on button A ▼ pressed				
show icon				
🏥 show string 🕻 " Today	/ I'm	Нарру	"	
show icon	+	+	+	÷
📰 show string 🕻 " ['ve	got M	lusic d	lass!) "



micro:Free-For-All

Experiment with the micro:bit environment.

What would you like to do?

