



Name Badge

Code your micro:bit so your name scrolls across the screen.

1) Run your code continuously from the start of the program until the end.

Use a “forever” loop.

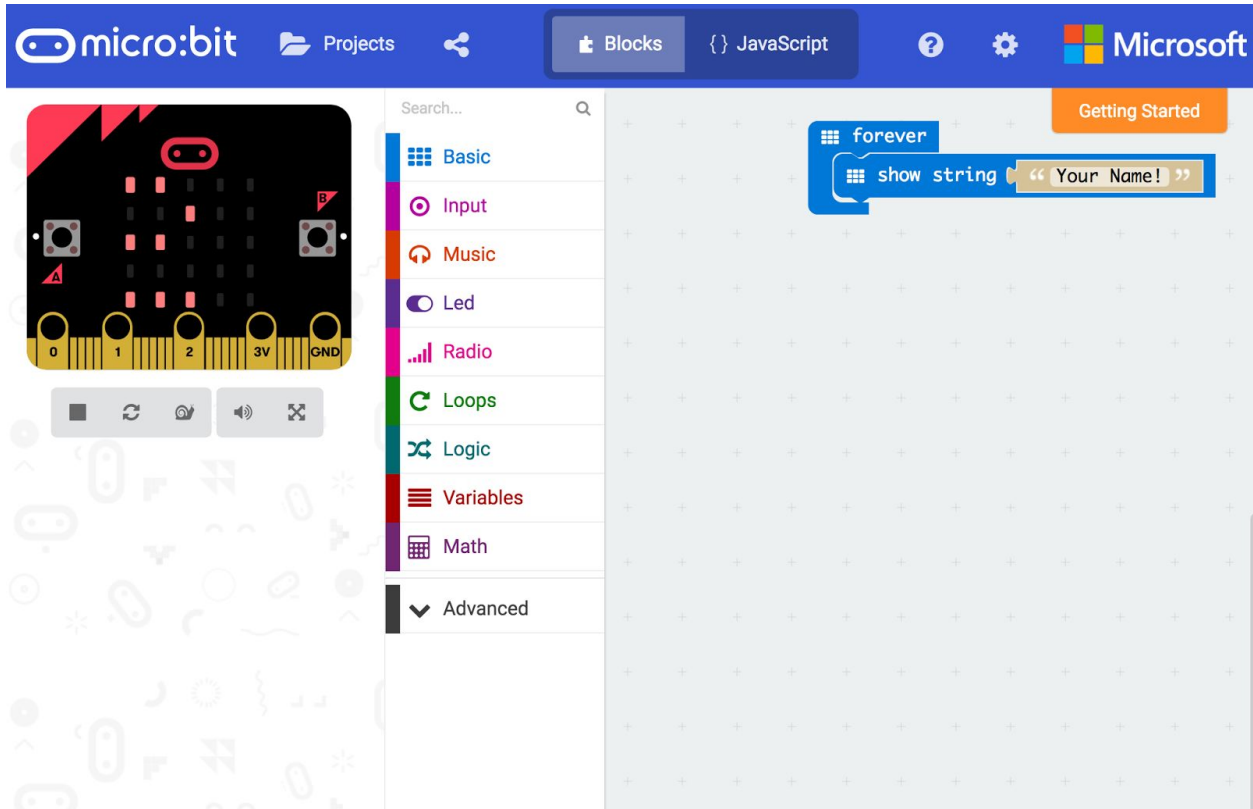
This will ensure that the code within it runs continuously.

2) Animate the LEDs to display your name.

Your name is composed of a series of letters forming a word or sentence. In programming this is called a ‘string’.

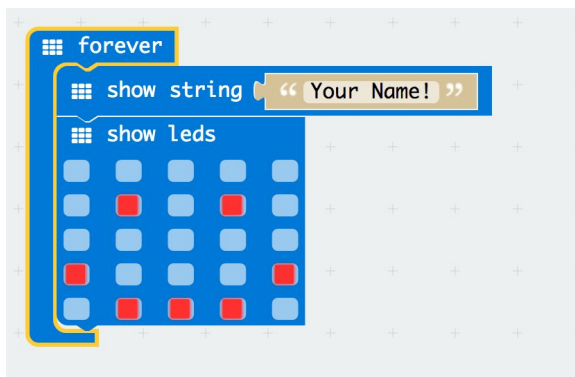
Find the right basic input in order to show your string and drag it in the main window inside your forever loop.

Alter the text to show your name.



3) Challenge 1 - Show an image after your name.

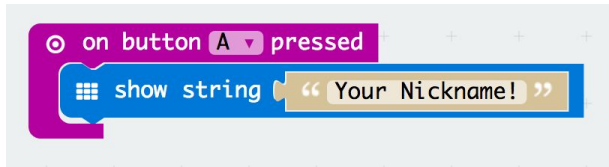
Use another basic input to show a set of selected LEDs or a ready made icon.
 Drag and place within the 'forever loop' but after your 'show string' input.



4) Challenge 2 - Show your nickname on press of button A

Select the input that tracks the event determined when the user has pressed button A. This is called 'on button A pressed' and drag it into the main window.
 Use the basic input 'show string' and drag it within your 'on button A pressed' event.

TIP: At any point you can test your program on the screen without having to first download from website and upload to micro:bit.





Emoji creation

Design a new set of emojis and show them on your micro:bit.

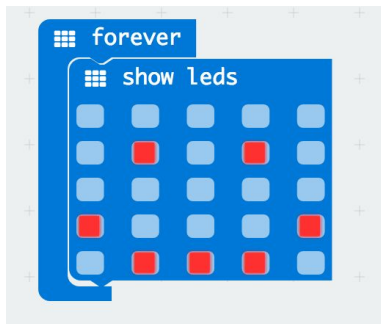
Each emoji could be an image or short animation that repeats.

1) Create a new emoji

Select a 'forever loop'

Select a basic input of 'show LEDs' and draw your chosen emoji.

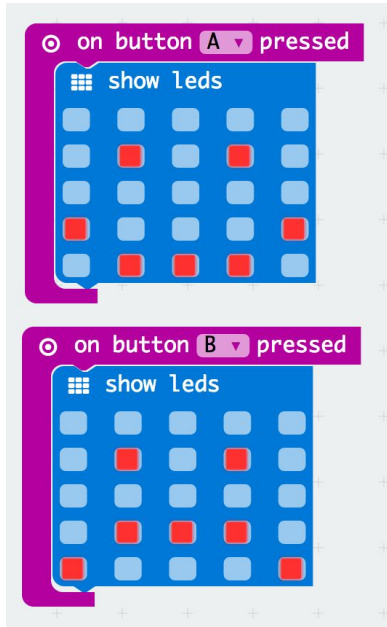
Drag this 'show LEDs' into your 'forever loop'



2) Challenge 1 - Alternate emojis on button press

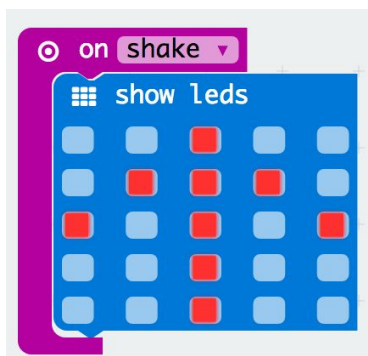
Code a different emoji to be shown on button A pressed.

Code a different emoji to be shown on button B pressed.



3) Challenge 2 - Add an emoji on shake

Code a different emoji to be shown on shake of the micro:bit



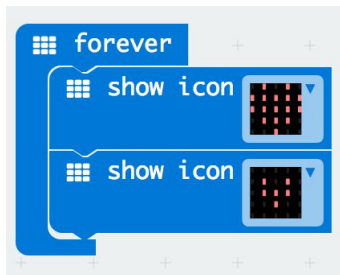


Fireworks

Code your micro:bit to display a virtual fireworks display.

1) Code an animation

Use a series of 'show LEDs' in order to animate your screen.



2) Challenge 1 - Code different animations on the press of different buttons.