

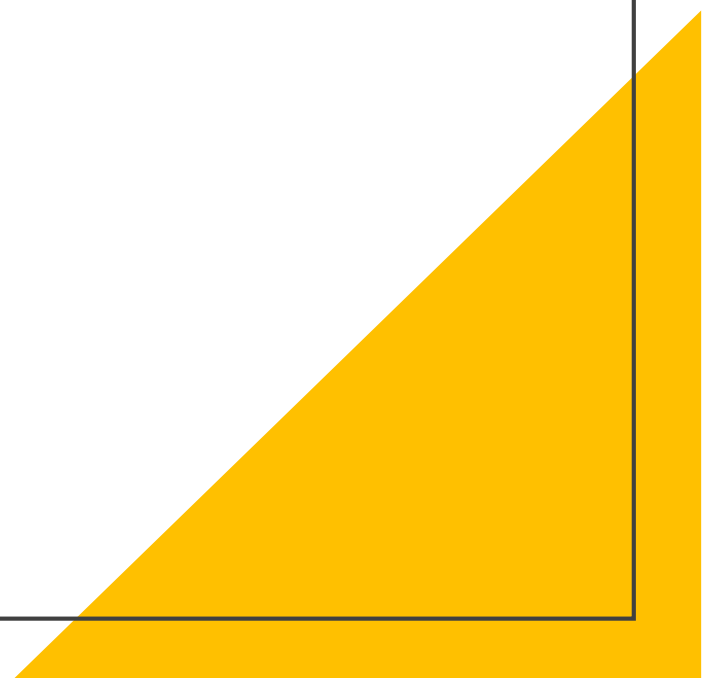
Micro:bit

Introductory projects

Asif Mushtaq

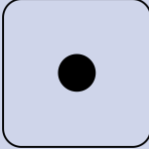


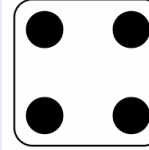
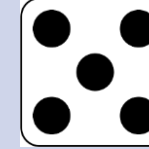
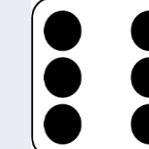
(Associate Professor of Mathematics)

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Challenge (Statistics):
Roll a dice

Roll on dice 20 times and
record each roll as a tally mark.

Number	Tally
1	
2	
3	
4	
5	
6	

Challenge:

Roll a dice with Micro:bit

- The aim of this project is to make a dice on the Micro:bit, using the onboard LEDs.
- The user should be able to shake the Micro:bit to generate a new dice face.

Learning Objects:

- Use a gesture input to control the Micro:bit.
- Create a randomly generated variable.
- Use an IF...THEN...ELSE
- Display own patterns on the LEDs

Micro:bit Step Counter

Do not wish to spend money on step counters and fitness trackers? Why not build your own with the Micro:bit!
Through this project, you will make use of micro:bit onboard accelerometer to make a step counter to track your daily steps!

What do you need? (Other than the Micro:bit)

- [Micro USB Cable](#)
- [AAA Battery Cage](#)
- AAA Batteries

<https://makecode.microbit.org/projects/step-counter>

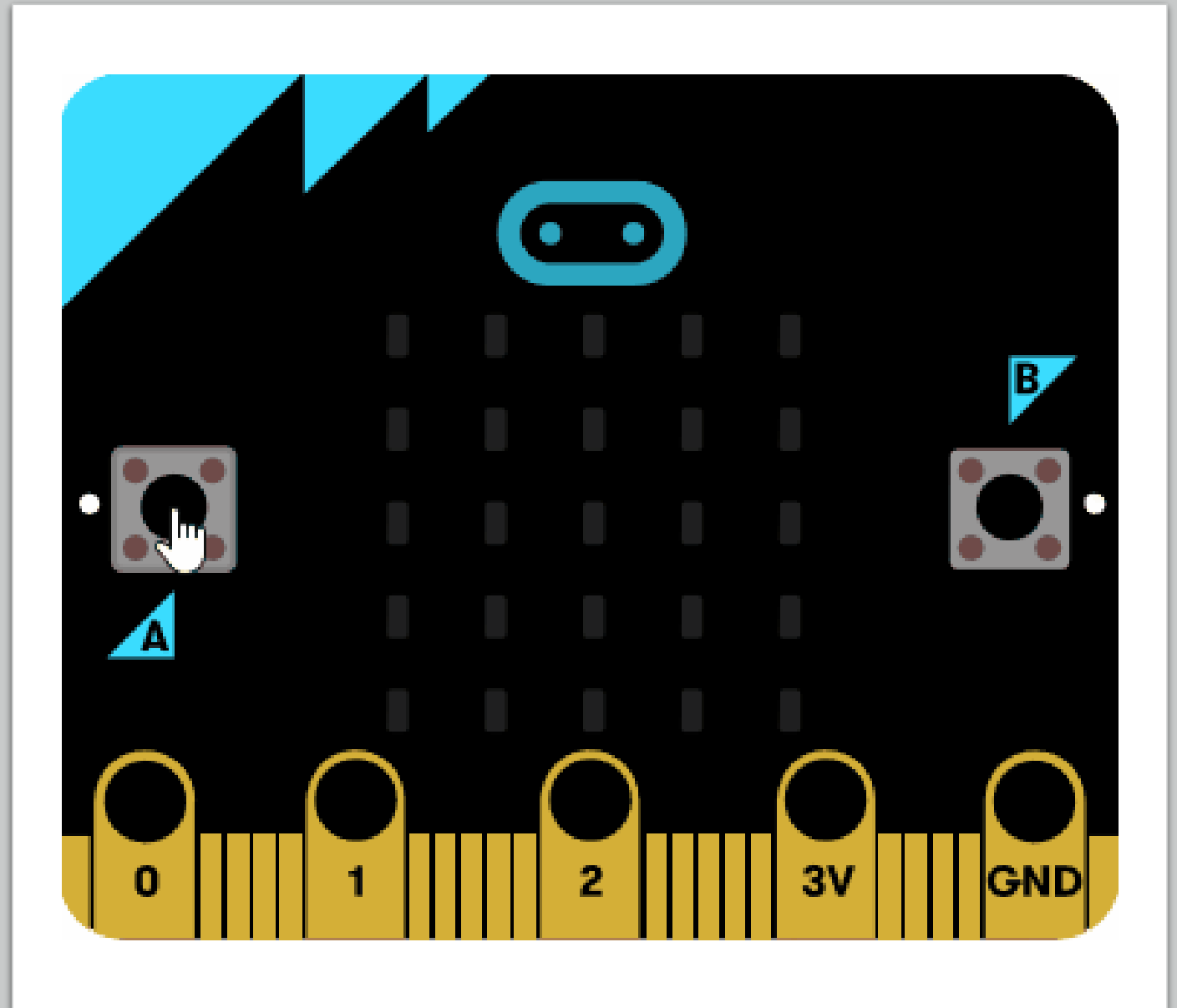


Source: <https://make.techwillsaveus.com/microbit/>

Coin Flipper

Let's create a coin flipping program to simulate an actual coin toss. We'll use icon images to represent a heads or tails result.

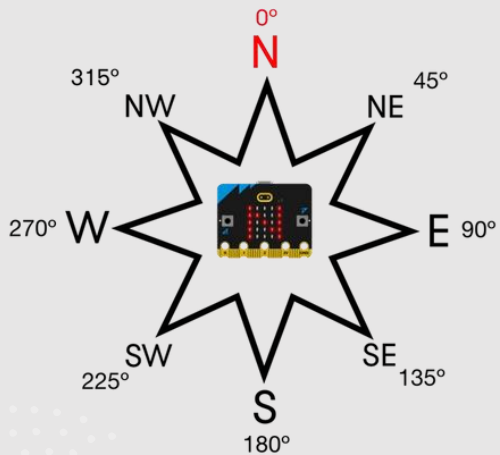
<https://makecode.microbit.org/projects/coin-flipper>



Making Compass:

Compass displays the direction the micro:bit is pointing with compass

- <https://makecode.microbit.org/projects/compass>

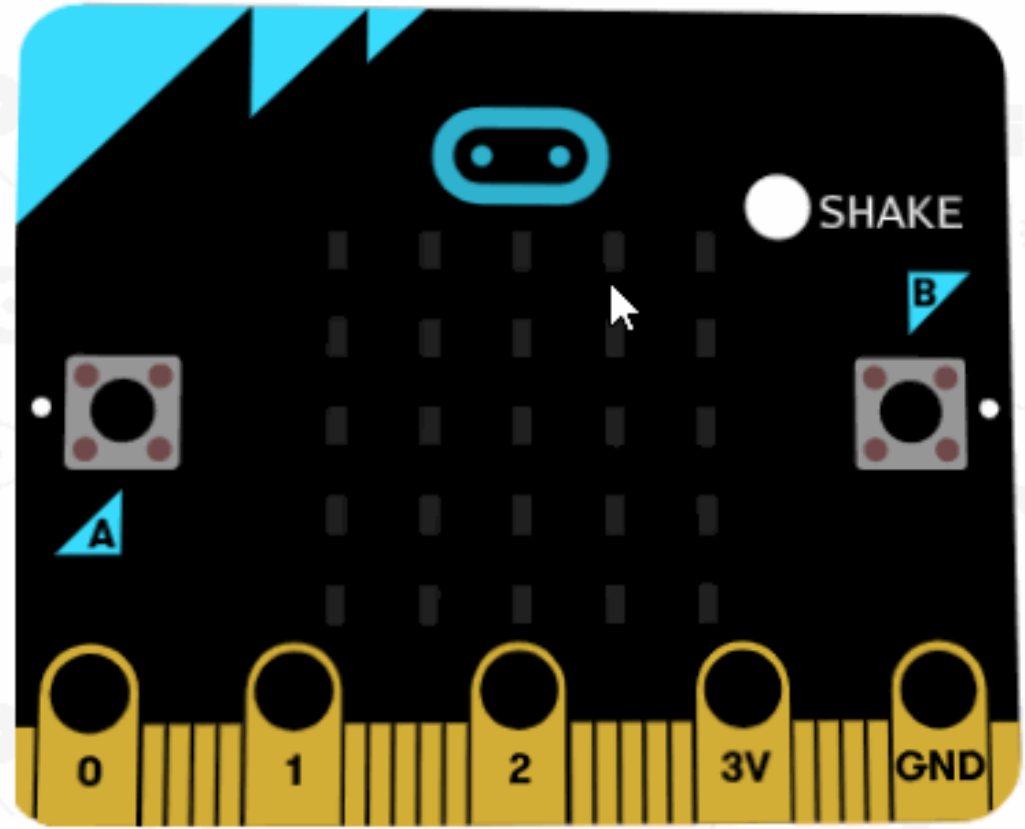


https://www.youtube.com/watch?v=Wu4gi5vYv94&t=2s&ab_channel=NordicSemiconductorStudentProjects

Rock Paper Scissors

micro:bit

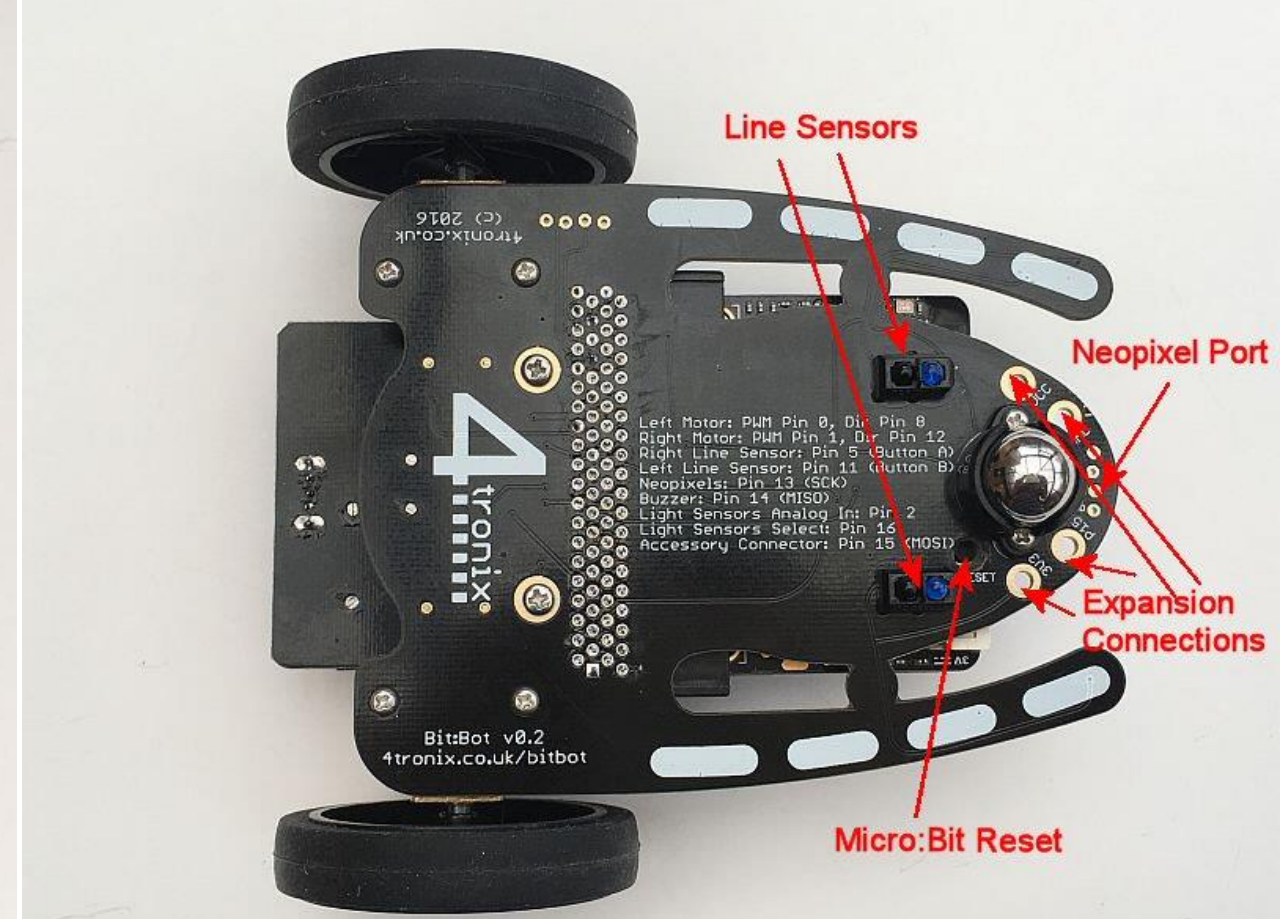
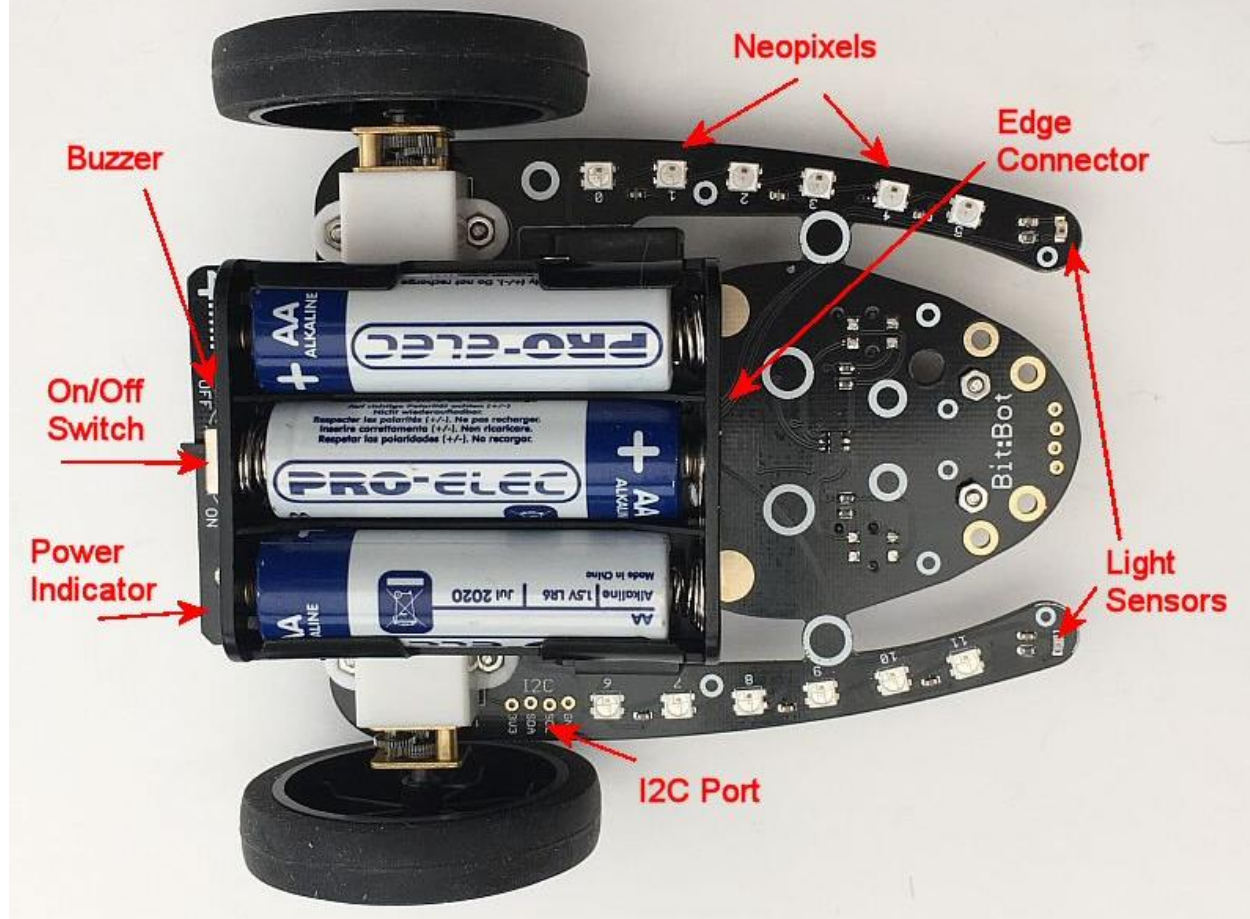
Rock Paper Scissors



<https://makecode.microbit.org/projects/rock-paper-scissors>

Bit:Bot Robot for Micro:bit





Features of Bit:Bot