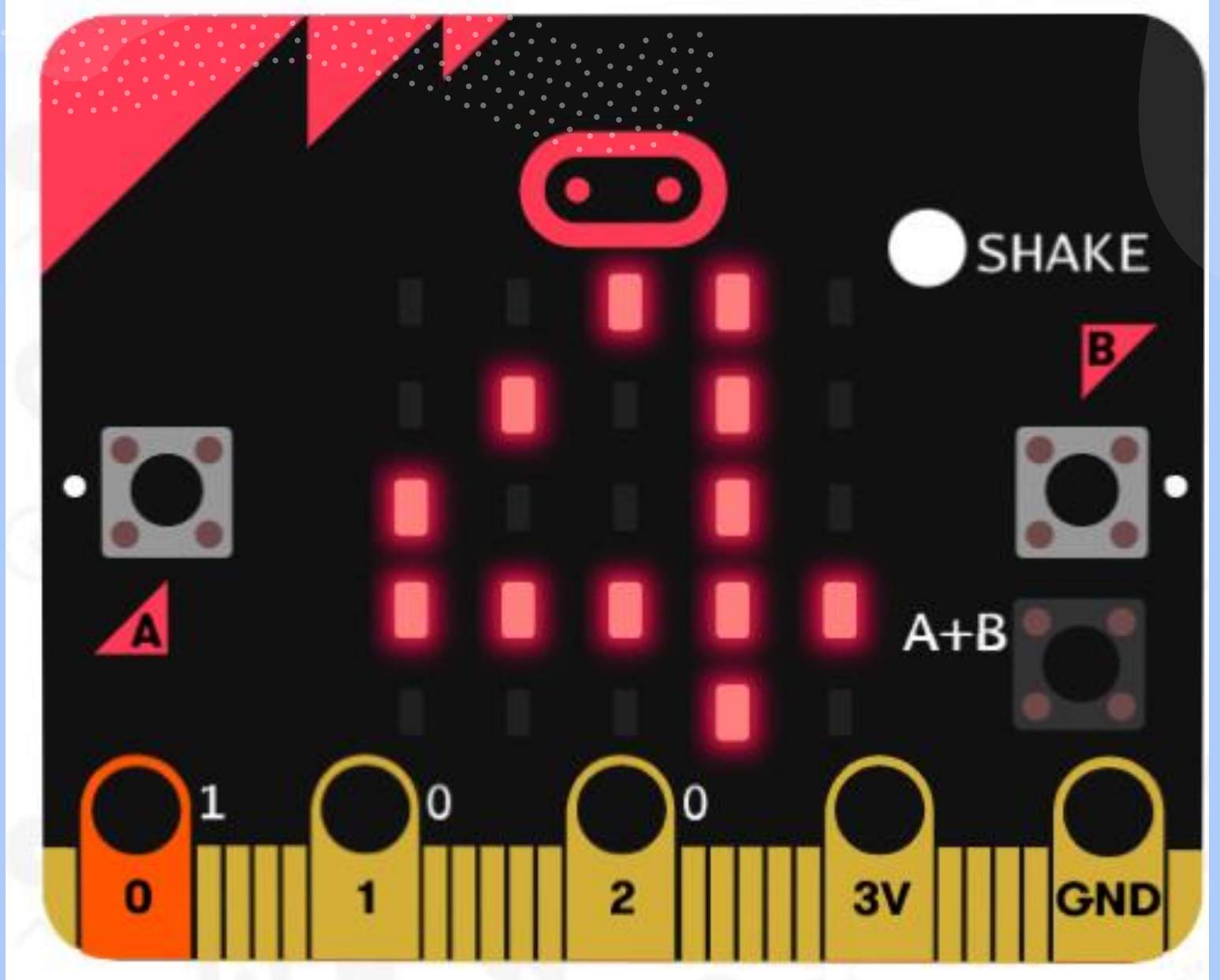# Micro:bit Movement Counter

Shared Projects Remix of Movement Counter

- Rotation counter
  https://makecode.microbit.org/_av8fCgLu12W5

- Step on tin foil step pad
  https://makecode.microbit.org/_LFF37PRCq7V7

- Stop:bit coloured lights
  https://makecode.microbit.org/_Y4LPC7LH1iV1

- Steps with sound and buzzer
  https://makecode.microbit.org/_FybdyeJpwJ5L

- Graphing steps with Excel & simulator
  https://makecode.microbit.org/_09RYfwXz80C7

- and https://makecode.microbit.org/00489-74772-72964-00579

Wheel Rotation Counter

Wheel rotation counter.

Micro: bit is taped to the wheel rim upside down.

When sitting in the wheel chair, a person can tilt the Micro: bit to read rotations.

When Micro: bit reaches the bottom of the wheel, rotation count goes up by 1

```
on start
set Rotation to 0
```

```
on button A+B pressed
set Rotation to 0
start melody chase repeating once
```

Reset rotation counter to 0

```
on logo up
change Rotation by 1
pause (ms) 100
```

When the Logo faces up at the bottom of the wheel, rotation count goes up by 1

Show the rotation count.
The Micro bit was mounted upside down so when the person tilts the micro bit, the number appears right side up.

```
forever
show number Rotation
pause (ms) 100
if Rotation ≥ 200 then
start melody power up repeating once
```

Make a Remix of the code at https://makecode.microbit.org/_av8fCgLu12W5

On the spot jogging with tin foil switch

on start
set Steps to 0

Step Counter

for on the spot jogging

forever
show number Steps
pause (ms) 100

on pin P0 pressed
change Steps by 2

When left shoe presses on tin foil and carboard switch then increase steps by 2
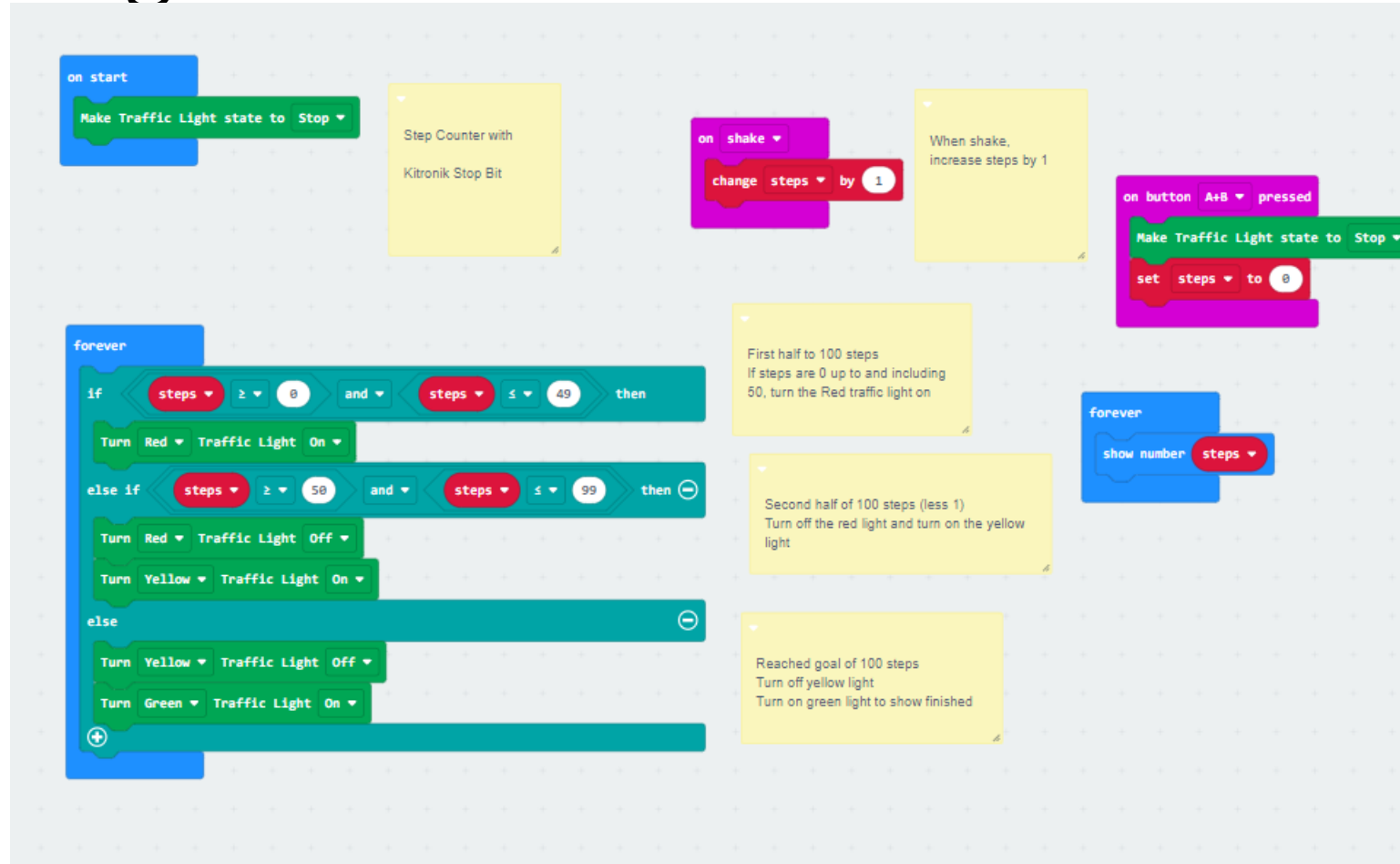
on button A+B pressed
set Steps to 0

Make a remix of the code at https://makecode.microbit.org/_LFF37PRCq7V7

Stop:bit – Light changes at different zones
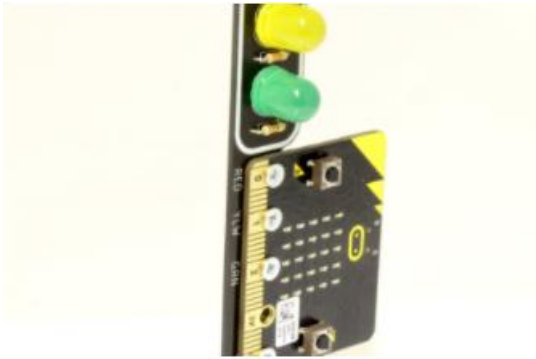
kitronik-stopbit

Custom blocks for STOP:bit for
BBC micro:bit

What is Stop:bit https://www.youtube.com/watch?v=sfh7j-nq8GM

Shared Code https://makecode.microbit.org/_Y4LPC7LH1iV1

Movement Counter with Sound

Micro:bit Step Counter Graphing

Picture view/Graph of steps to goal

Make Code Console Simulator

Step Counter to Excel using MakeCode's Consel Simulator

14	24.31	0
15	26.34	0
16	28.362	0
17	30.391	0
18	32.42	0
19	34.443	0
20	36.473	0.9
21	38.501	1.89
22	40.529	2.97
23	42.552	3.96
24	44.582	4.95
25	46.61	4.95
26	48.633	5.22
27	50.662	6.21
28	52.691	6.3
29	54.713	6.3
30		

Microbit Step Counter

Series2
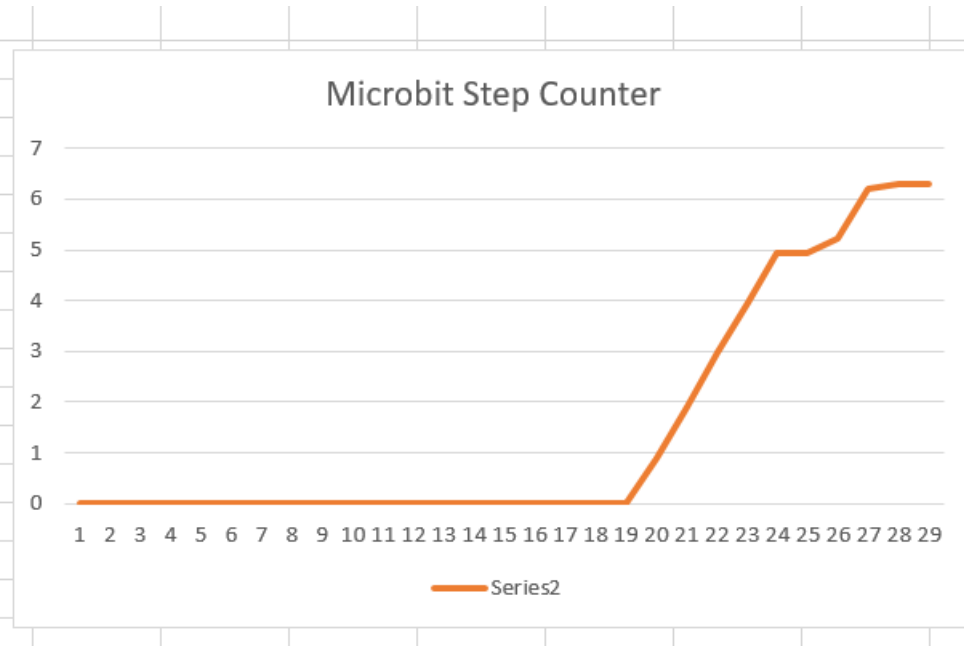
When was the runner resting ?

When did the runner sprint ?

When did the person walk?

How do you know?

In progress – setting time periods to seconds and steps