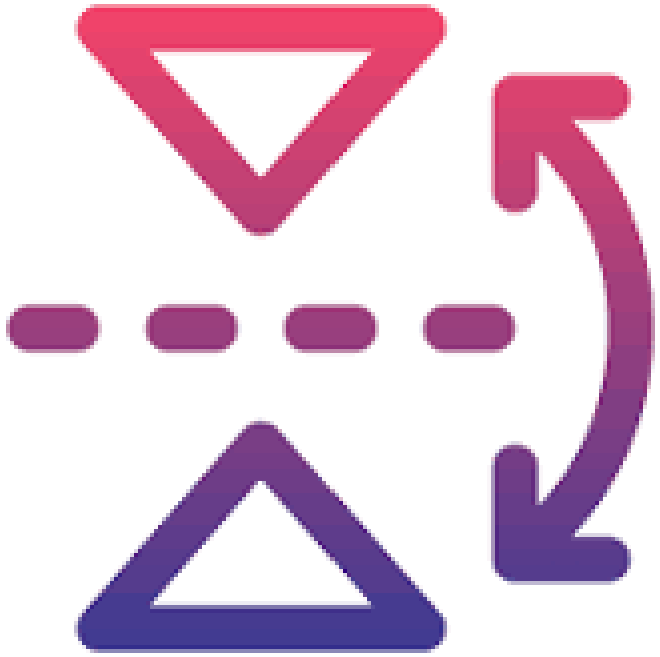
micro:bit

First lessons with MakeCode
and the micro:bit

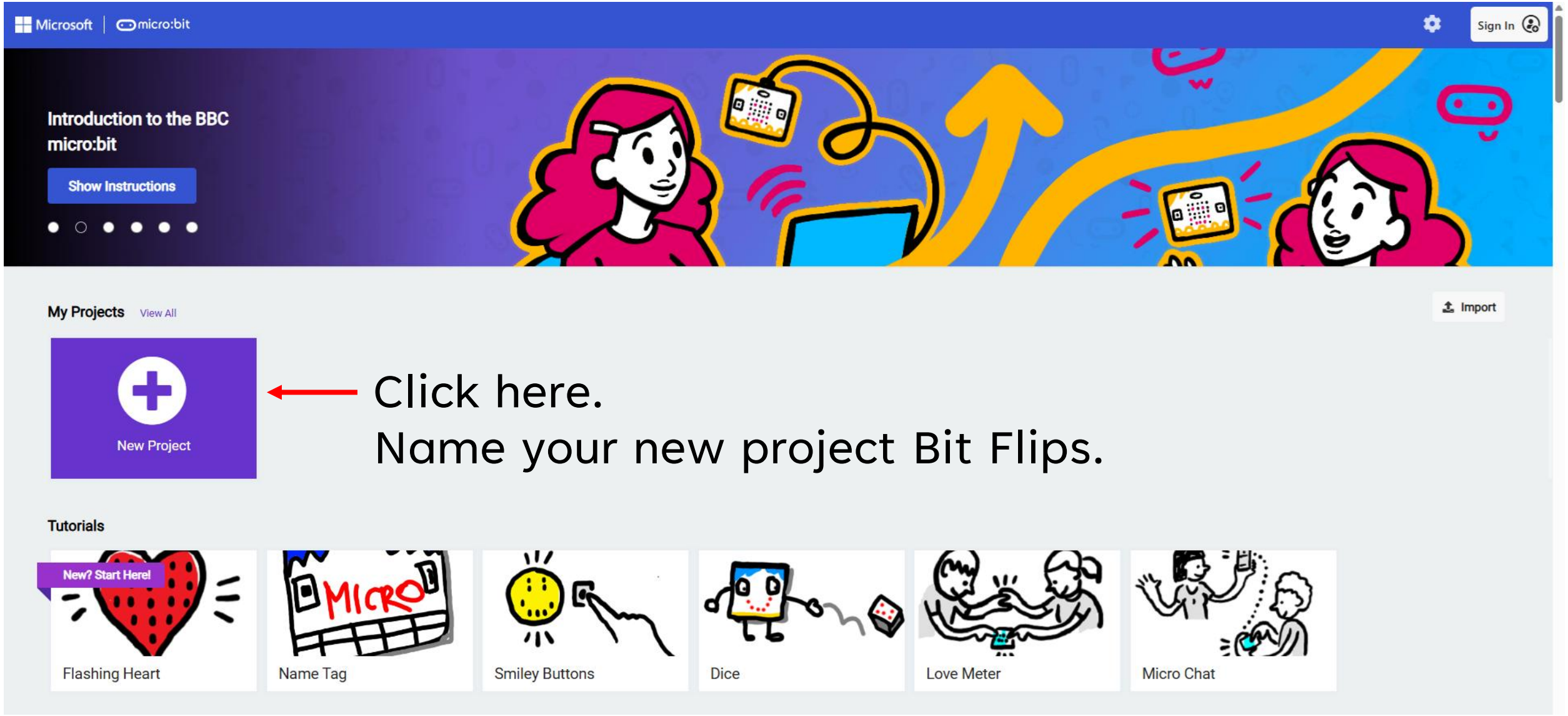
Lesson 5
Bit Flips



SD

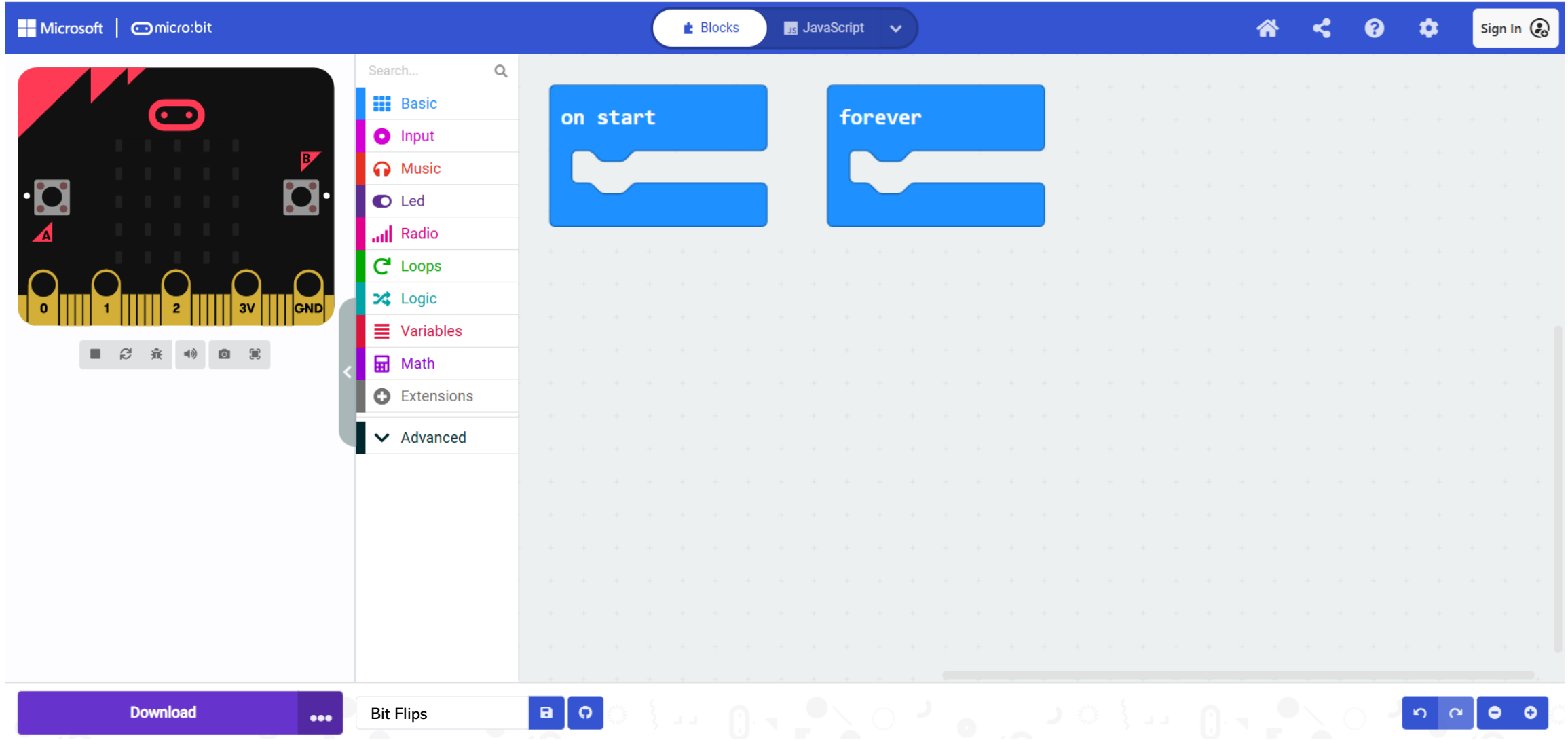
Open a new MakeCode project.

https://makecode.microbit.org/



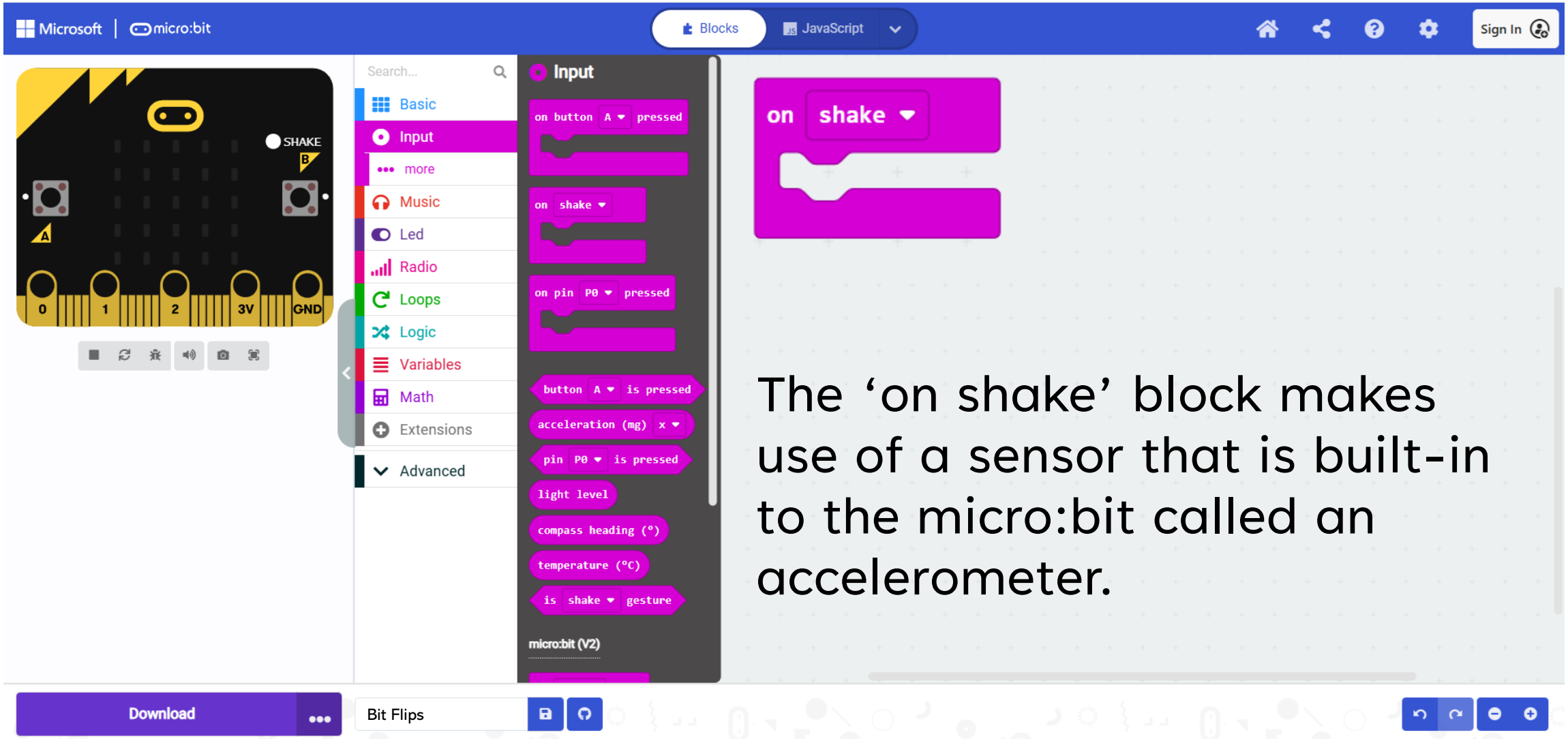
SD

Remove the ‘forever’ block.



SD

Click on the Input blocks menu.
Drag out the ‘on shake’ block.



The ‘on shake’ block makes use of a sensor that is built-in to the micro:bit called an accelerometer.

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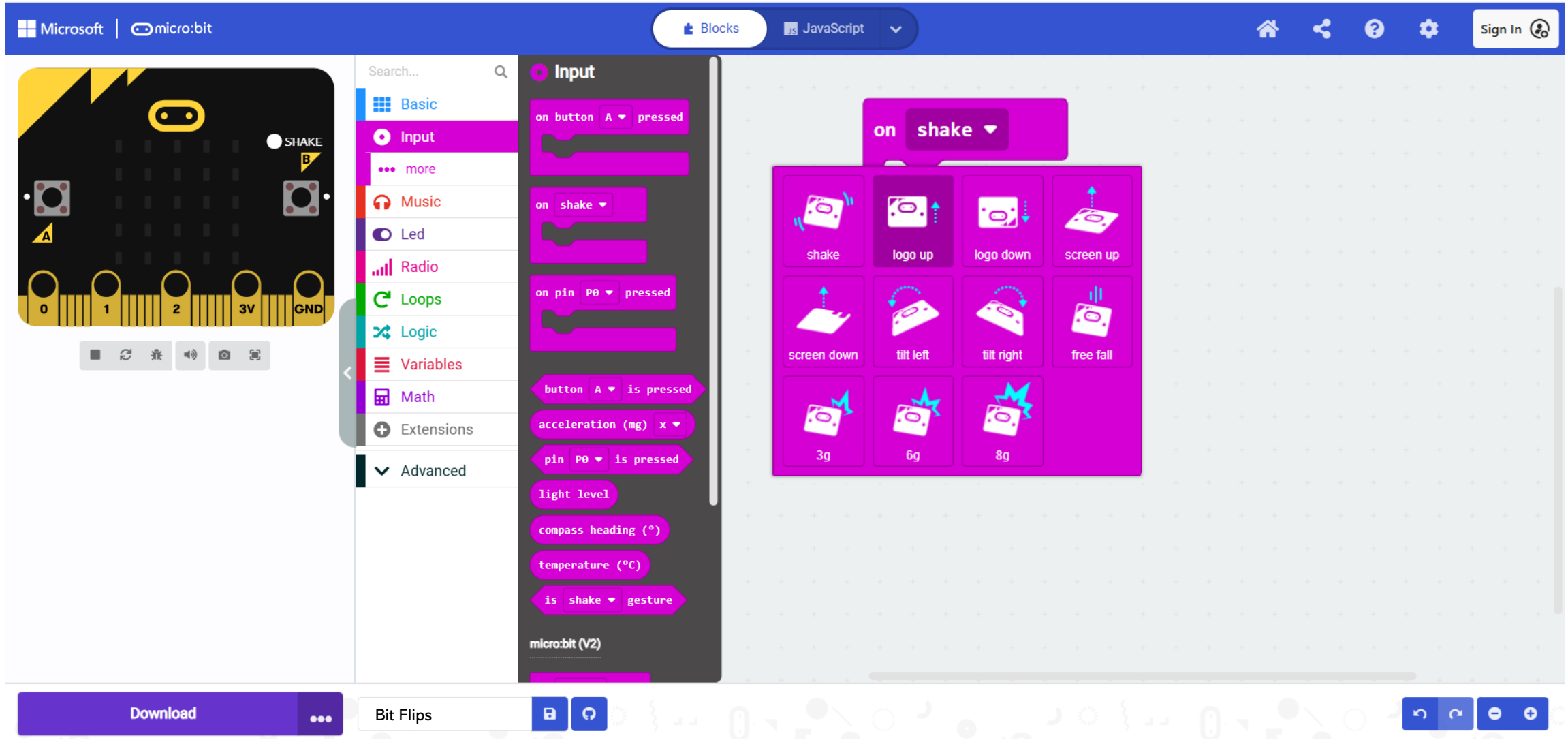
Change the ‘on shake’ block to “logo up”.



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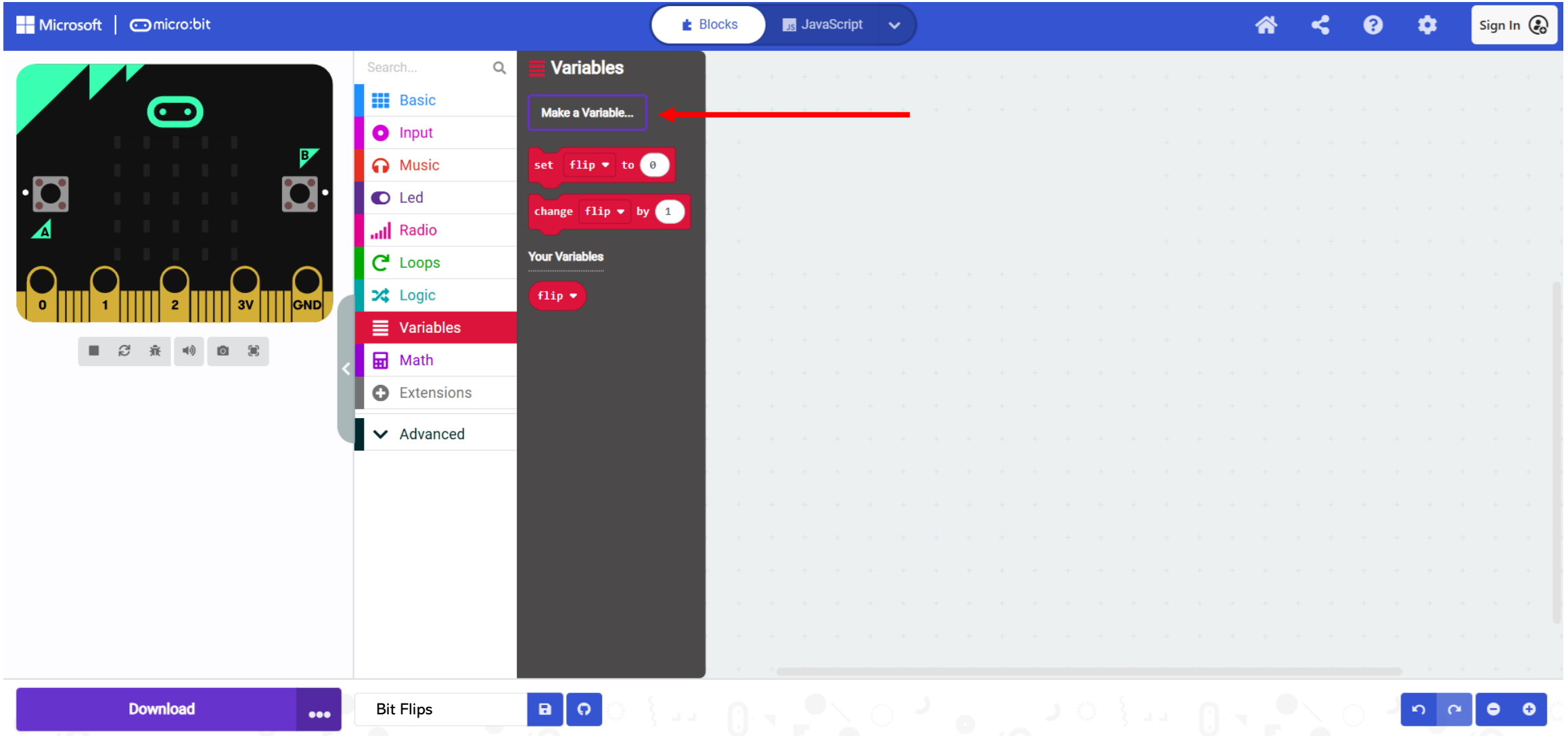
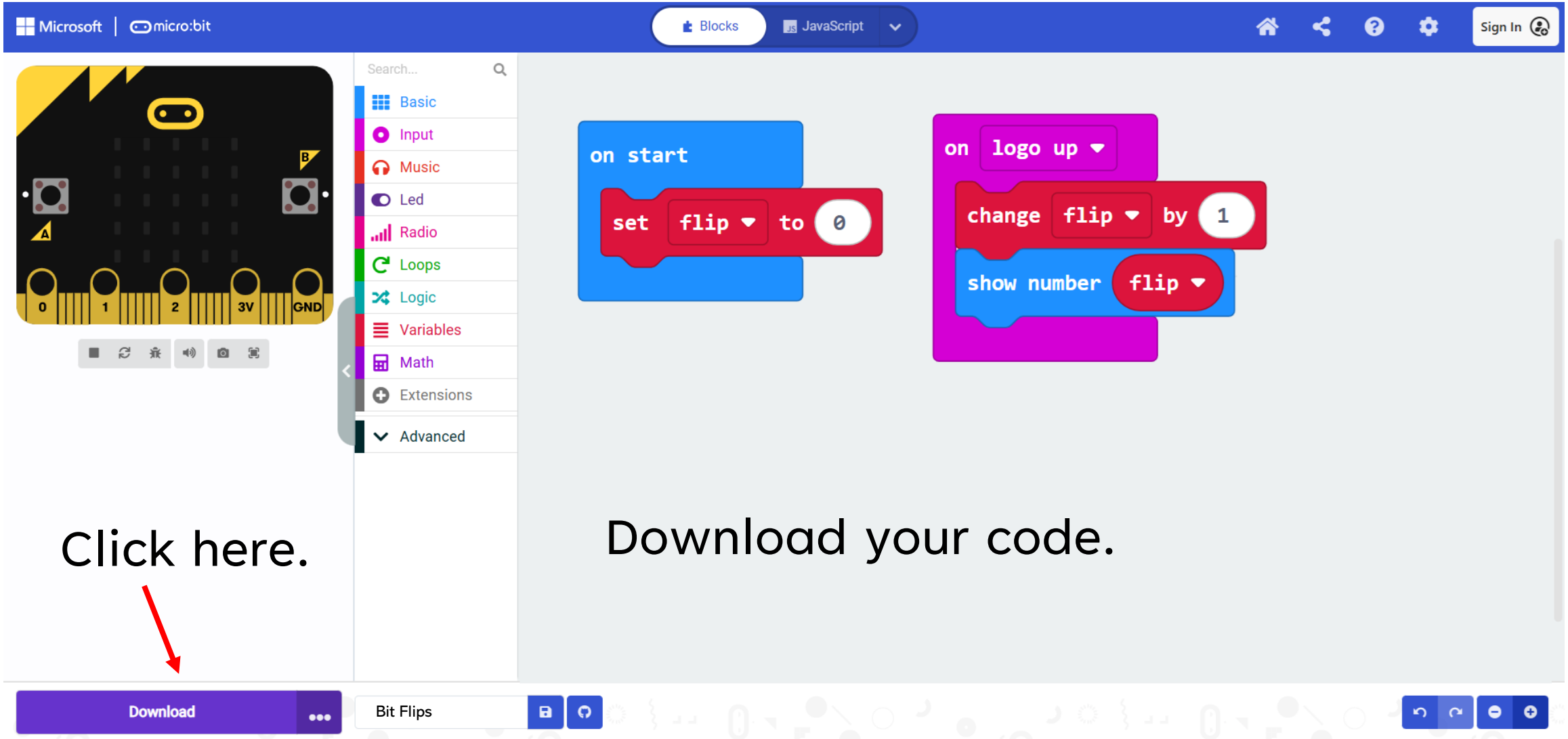
Click “Make a Variable”.
Create a variable called flip.



Create these two code sequences.



Click here.

Download your code.

SD

Test Your Code

Hold the micro:bit device in your hand with the logo facing down.

Change the position of the micro:bit by flipping it up so that the front of the bit is facing toward you and the logo is up.

Look at the micro:bit device. Did it count?

Flip the micro:bit back down and repeat the flip up action.

Repeat the flip down, flip up action six more times.
Each time you flip the micro:bit so that the logo is up it should count.

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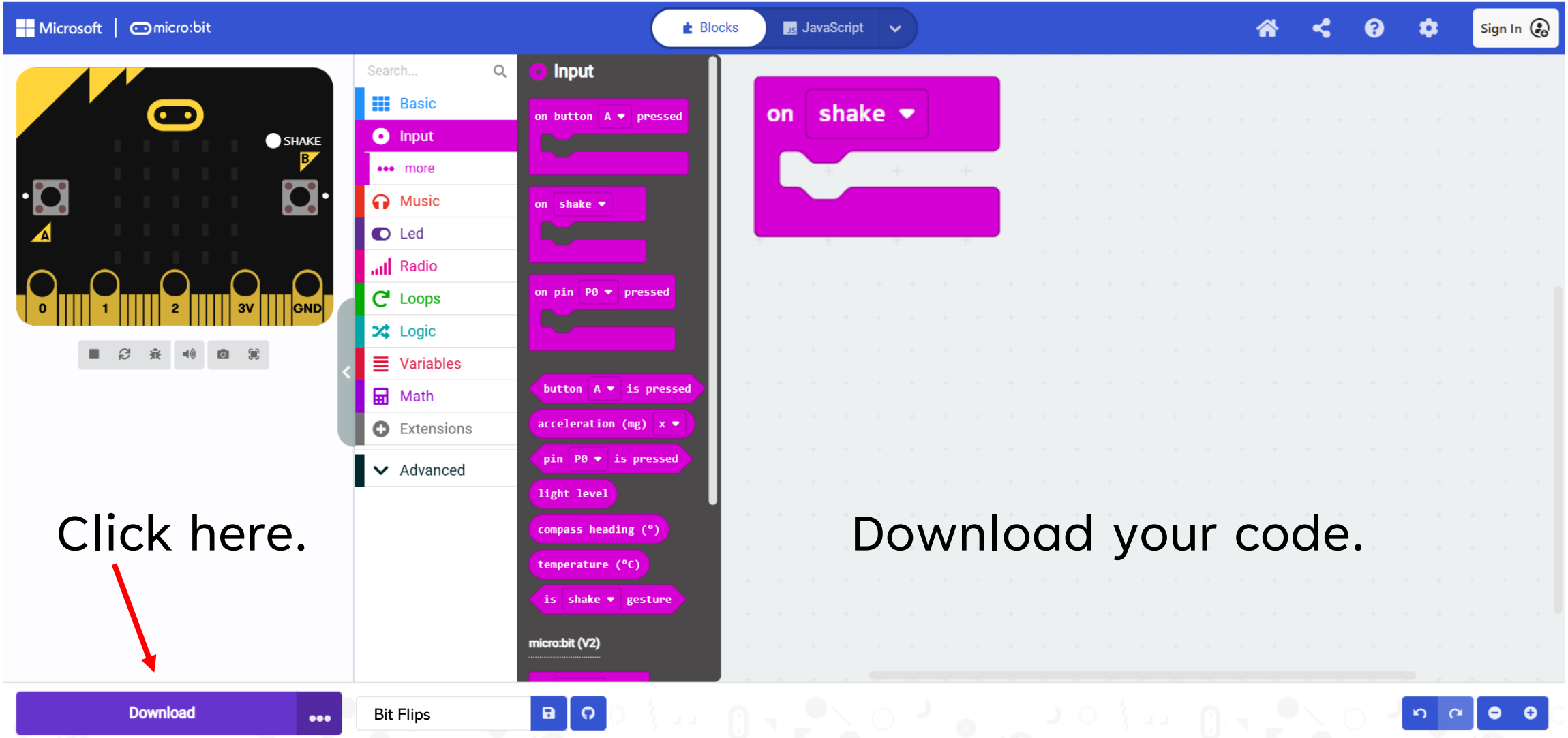
Add a code sequence that uses the ‘on shake’ block to reset the flip count to zero.



SD

Test your code again.

Repeat the flip down, flip up action as you did before.

Reset the count by shaking the micro:bit.

Show Mr. Desmond how your micro:bit device works.