

## **Adjust Speed**

## 1.Learning goals

In this lesson, we mainly learn how to control motor by micro:bit and Super:bit expansion board.

### 2.Programming method

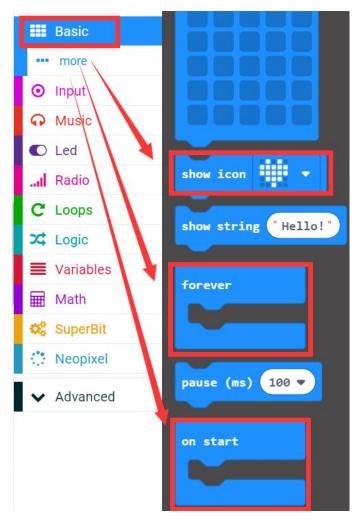
**Mode 1 online programming:** First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: <a href="http://microbit.org/">http://microbit.org/</a> to enter the programming interface. Add the Yahboom package <a href="https://github.com/lzty634158/SuperBit">https://github.com/lzty634158/SuperBit</a> to program.

**Mode 2 offline programming:** We need to open the offline programming software. After the installation is complete, enter the programming interface, click 【New Project】, add Yahboom package:

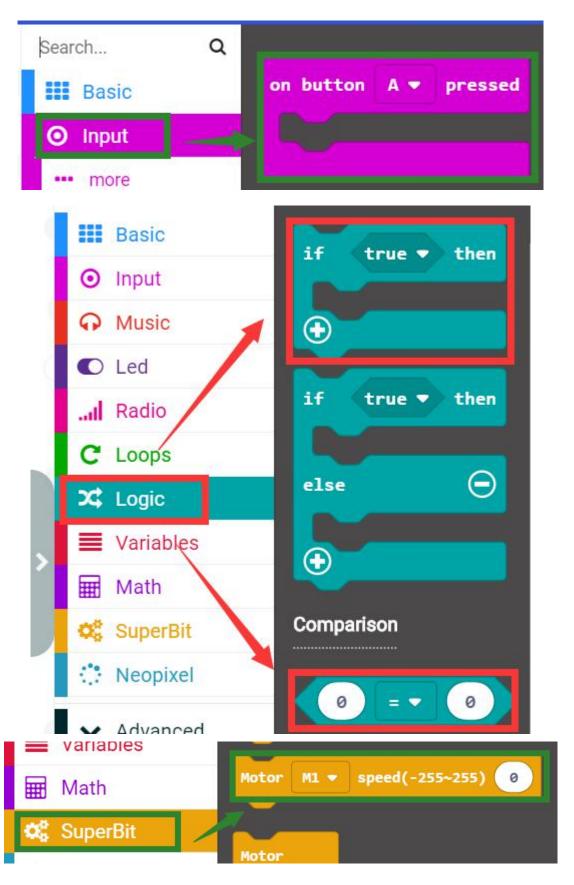
https://github.com/lzty634158/SuperBit, you can program.

### 3.Looking for blocks

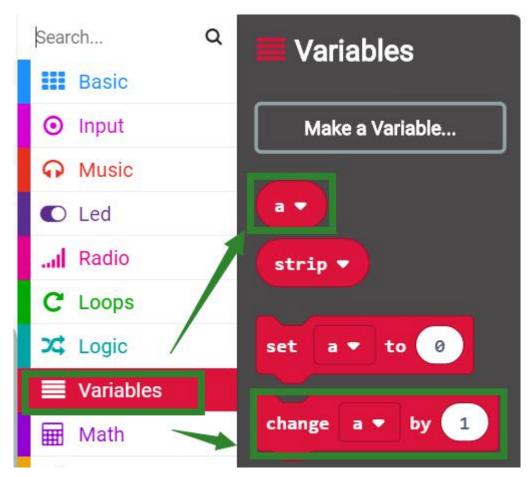
The following is the location of the building blocks required for this programming.





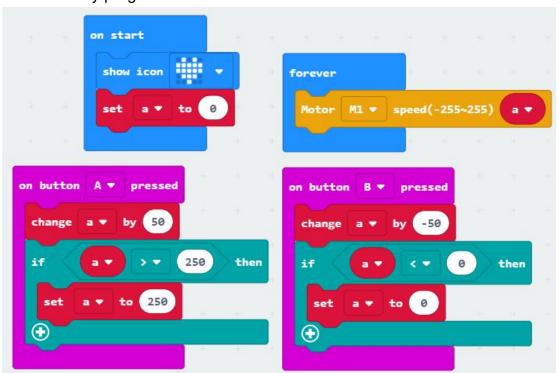






# 4.Combine building block

The summary program is shown below:





### 5.Assembly steps

Please refer to the **Fan assembly steps** folder in the **Assembly instructions** folder for building blocks assembly steps.

### **6.About wiring**

We need to connect two building block motors to the **M1** interfaces of the Super:bit expansion board.

### 7. Experimental phenomena

After the program is successfully downloaded, open the power switch, the building block motor stops; press the micro:bit A button to increase the speed, the maximum speed is 250; press the micro:bit B button to decrease the speed, the lowest speed is 0.

If you need to restart, please press the reset button on the micro: bit board.