

Button control speed

1.Learning goals

In this lesson, we mainly learn how to control motor speed by micro:bit button.

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: <http://microbit.org/> to enter the programming interface. Add the Yahboom package

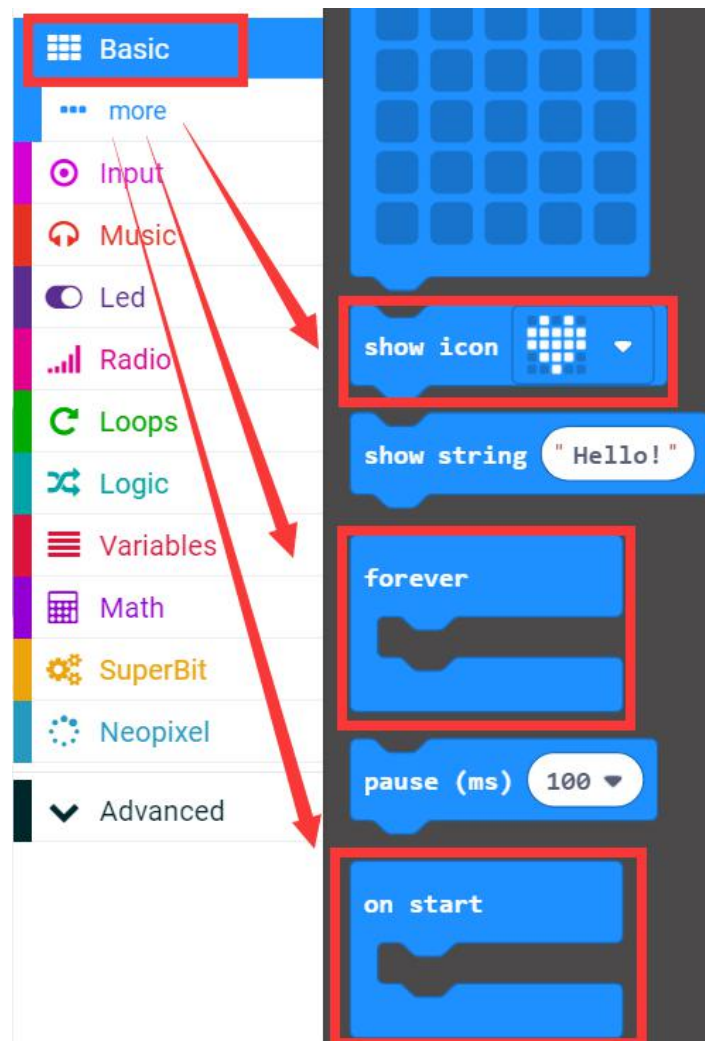
<https://github.com/lzty634158/SuperBit> to program.

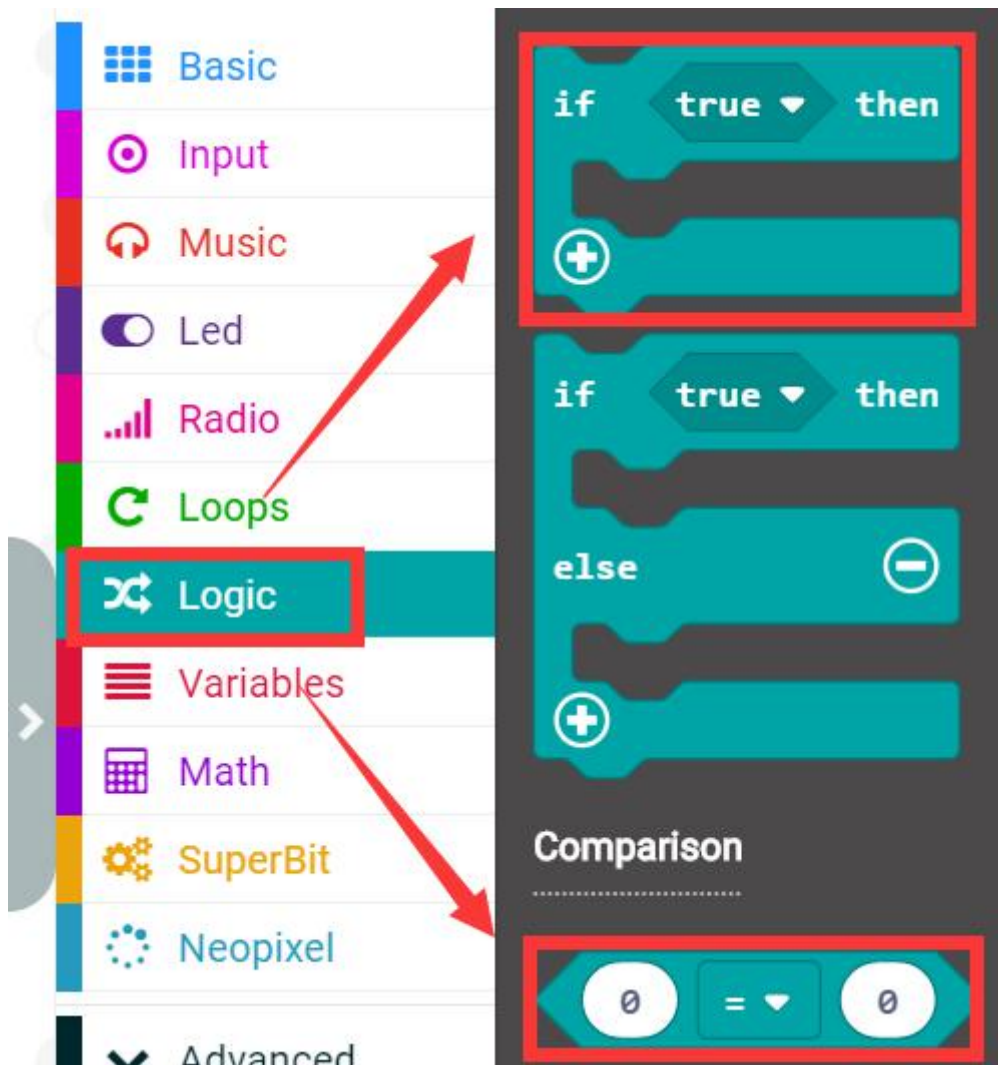
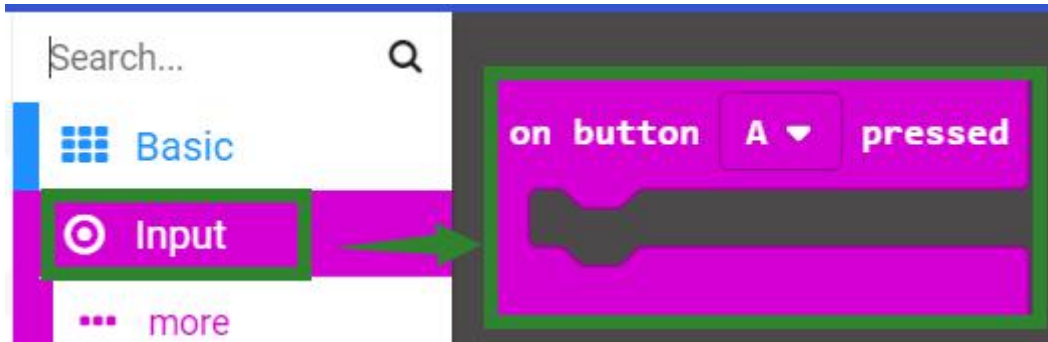
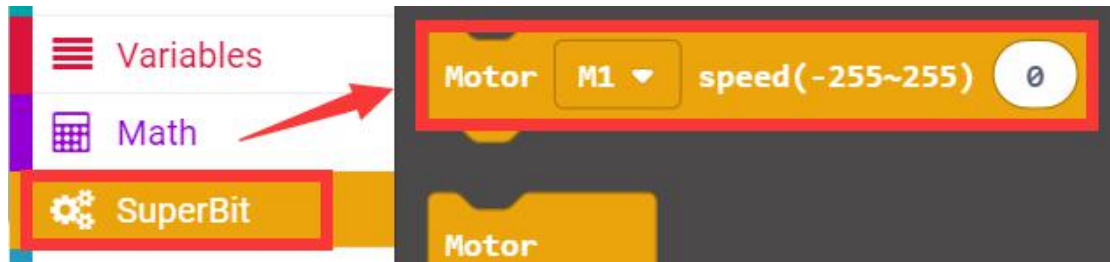
Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click **【New Project】**, add Yahboom package:

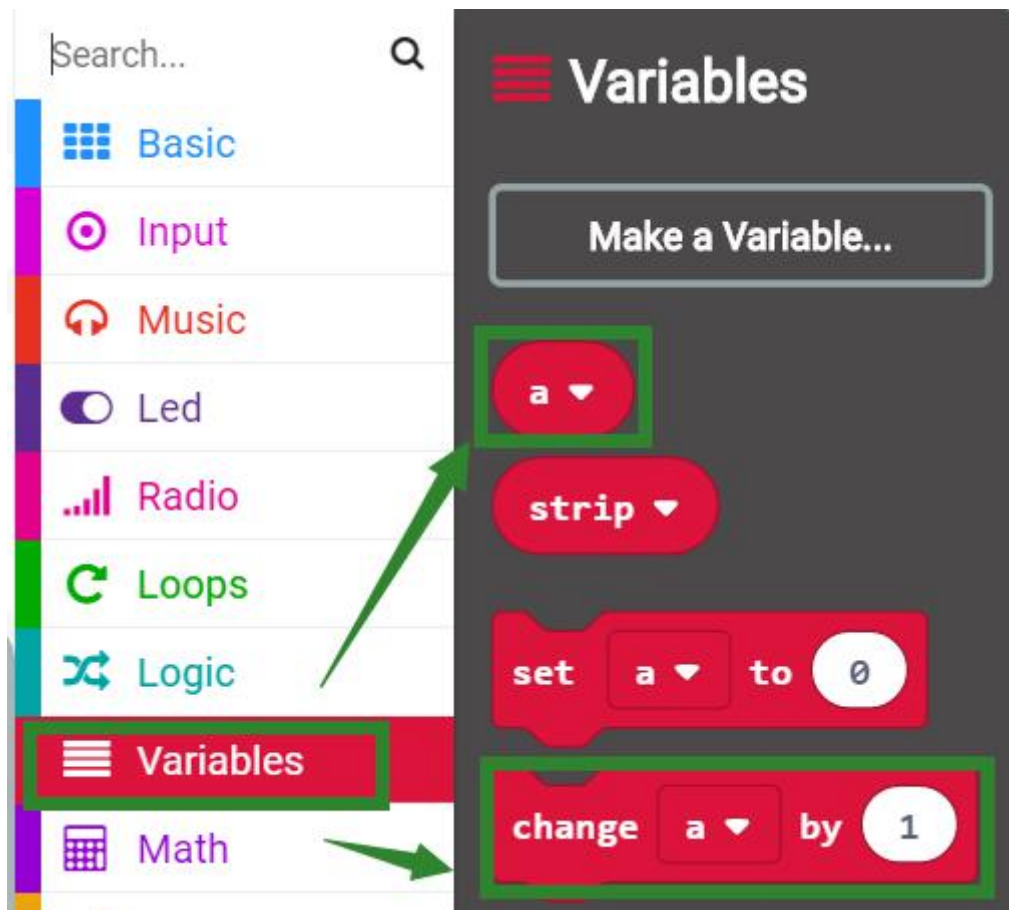
<https://github.com/lzty634158/SuperBit>, you can program.

3.Looking for blocks

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

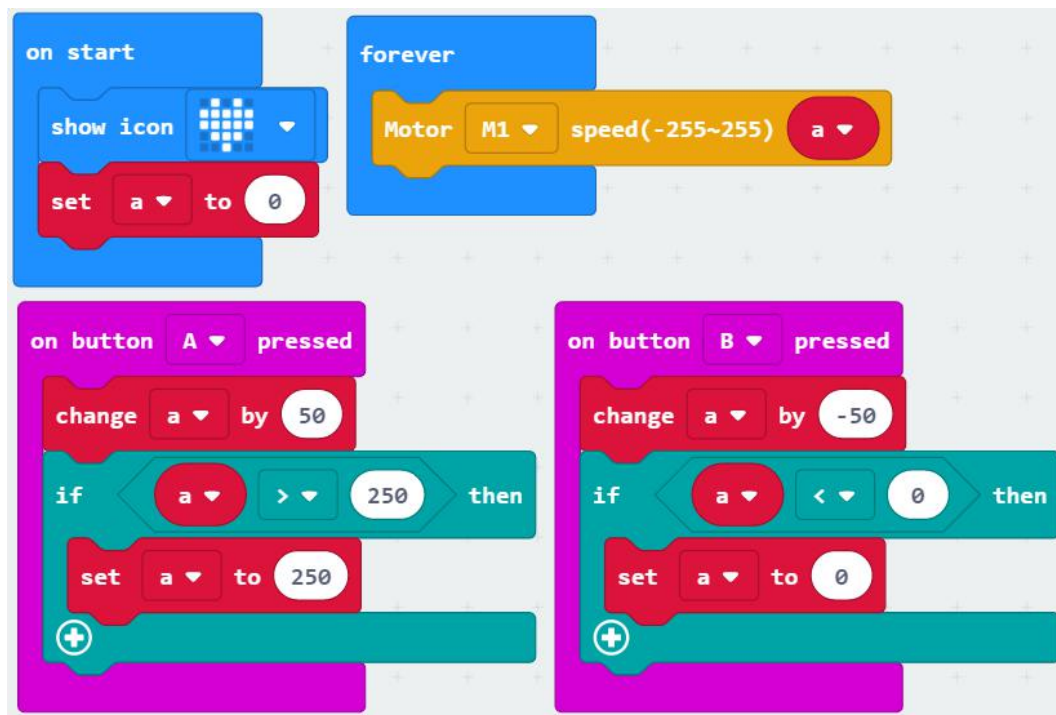






4. Combine building block

For details of the program, please import the [microbit-Button-control-speed.hex](#) file into the MakeCode editor for viewing.



5.Assembly steps

Please refer to the **Ferris wheel 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.