

Swimming_robot

1.Learning goals

In this lesson, we mainly learn how to control building block 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: <http://microbit.org/> to enter the programming interface. Add the Yahboom package <https://github.com/lzty634158/SuperBit> to program.

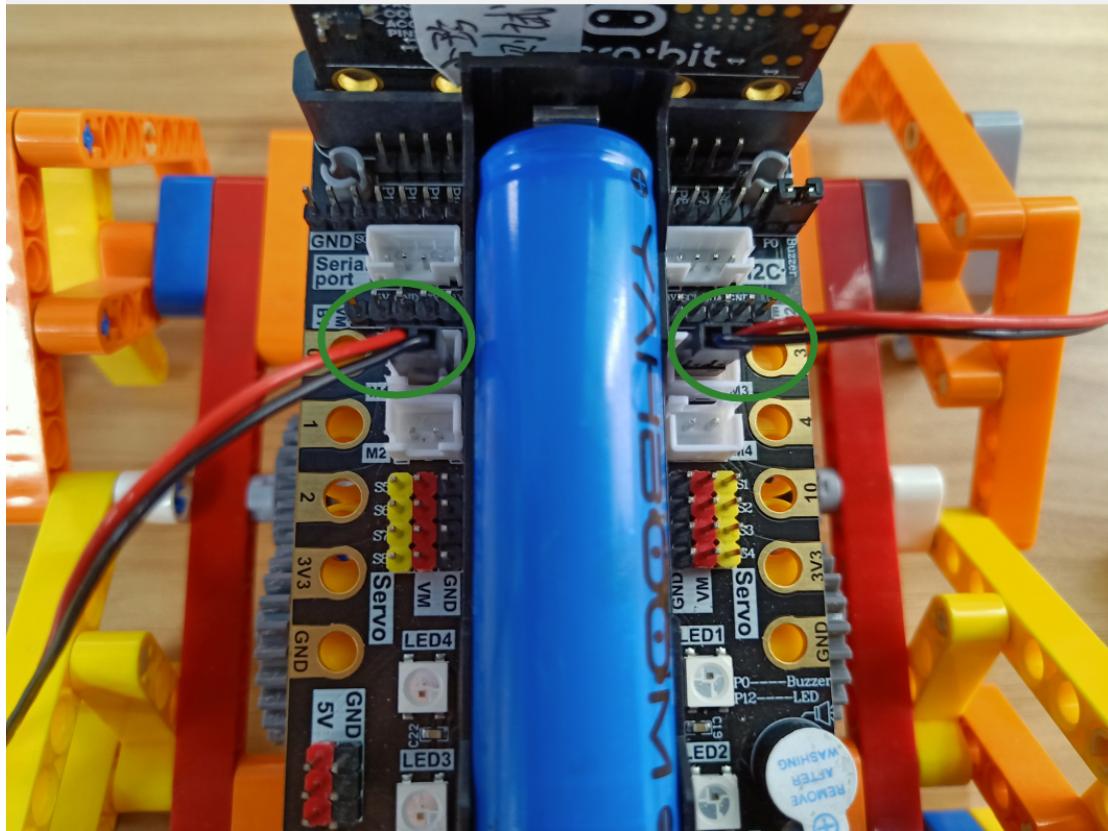
Mode 2 offline programming: We need to open the offline programming software. After the installation is complete, enter the programming interface, click 【New Project】 , add Yahboom package:

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

3.About wiring

We need to connect two building block motors to the M1 and M3 interfaces of the Super:bit expansion board.

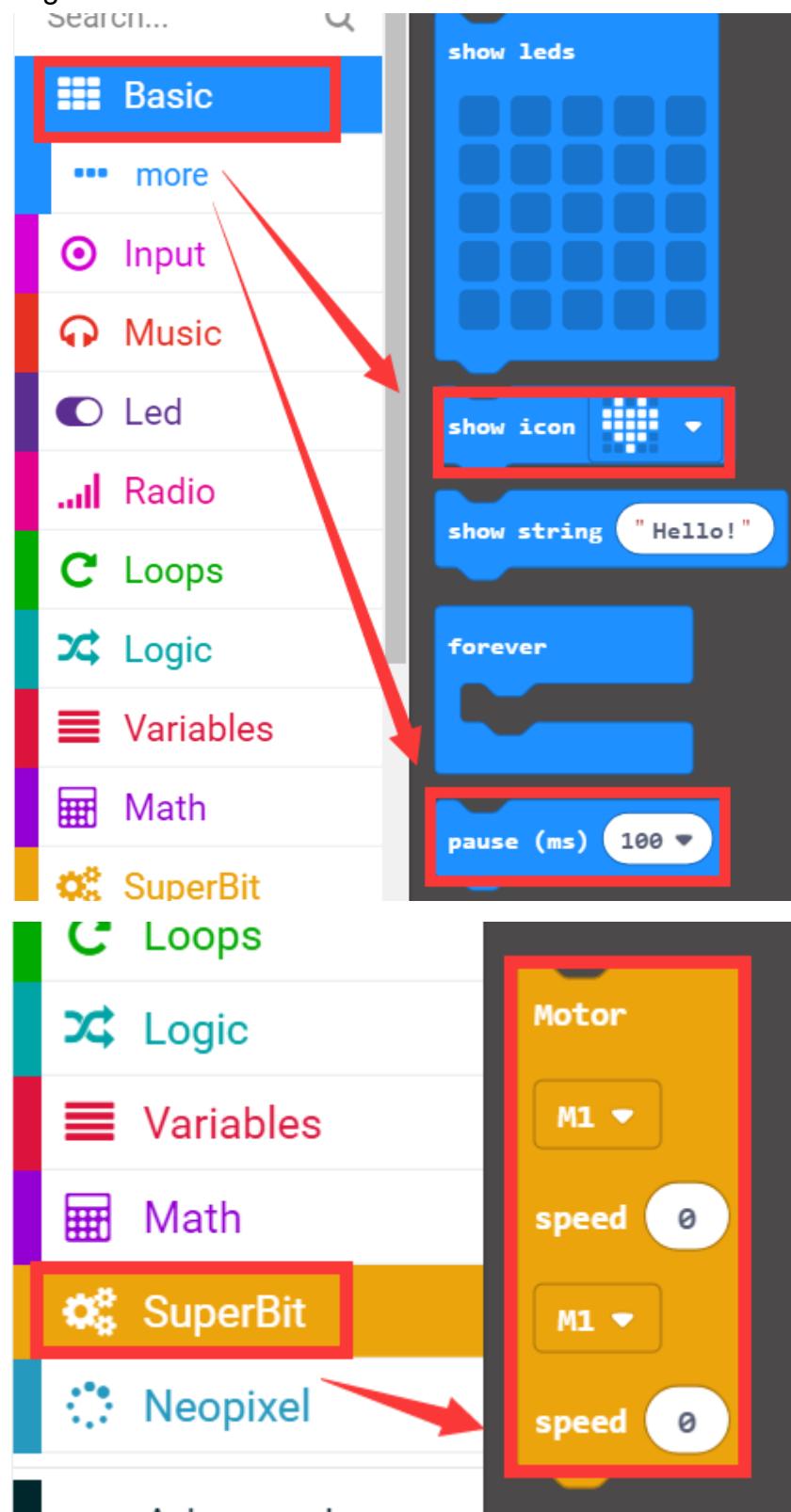
The black wiring of the motor is near the battery side. As shown below.



4.Looking for blocks

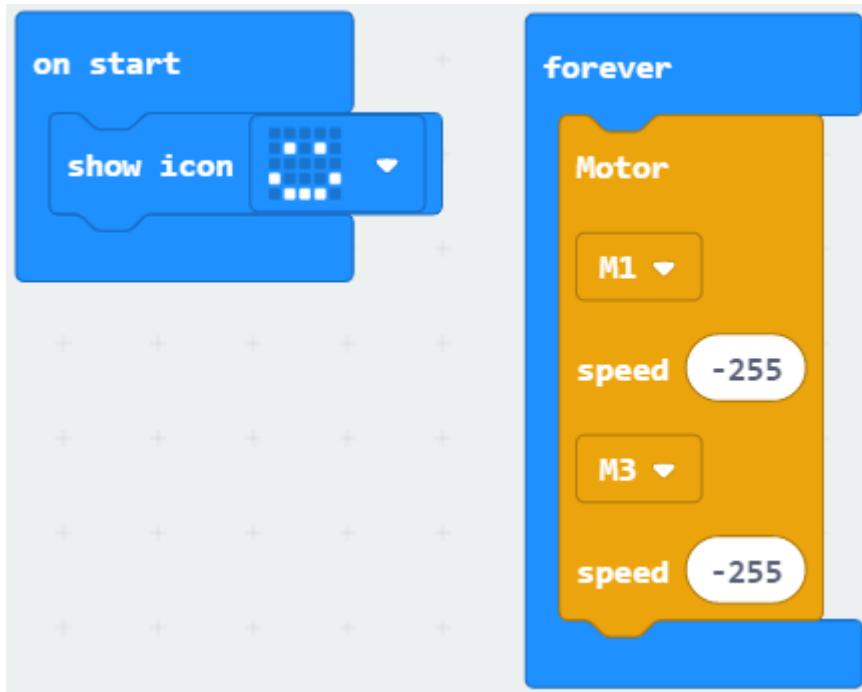
The following is the location of the building blocks required for this

programming.



5. Combine building block

The summary program is shown below:



6. Experimental phenomena

After the program is successfully downloaded, turn on the power switch, the micro:bit dot matrix will display a smile, and the two building blocks will rotate forward at the same time.

If you need to start over, press the reset button on the back of the micro:bit board.