

Control RGB lights

1.Learning goals

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

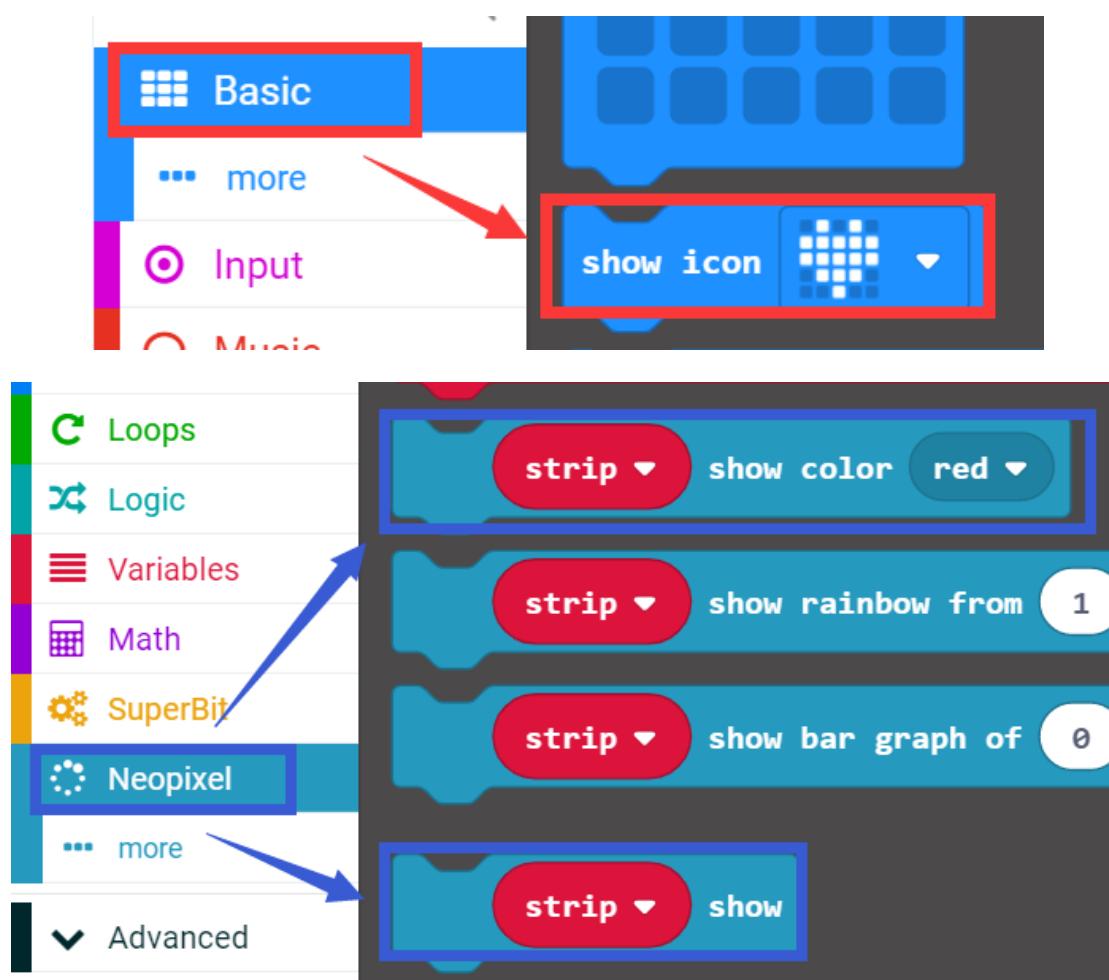
2.Programming method

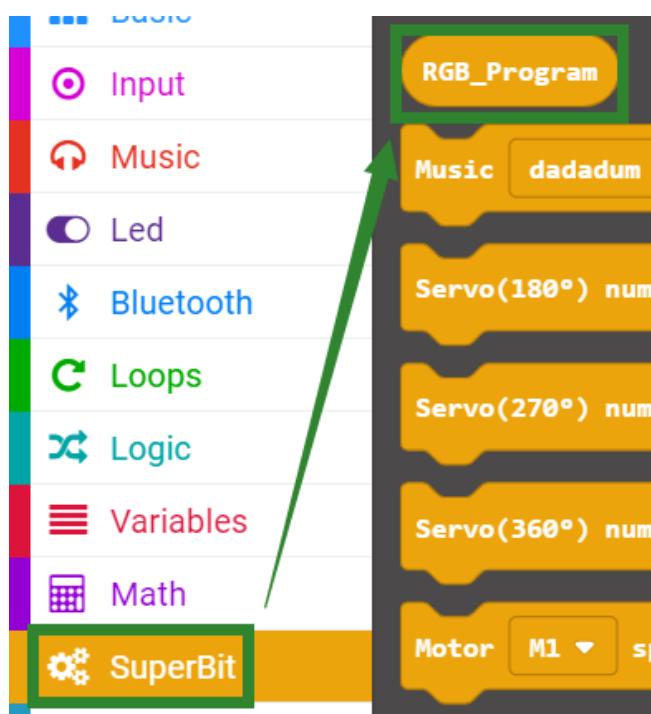
Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: <http://microbit.org/> to enter the programming interface. Add the Yahboom package <https://github.com/lzty634158/SuperBit>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

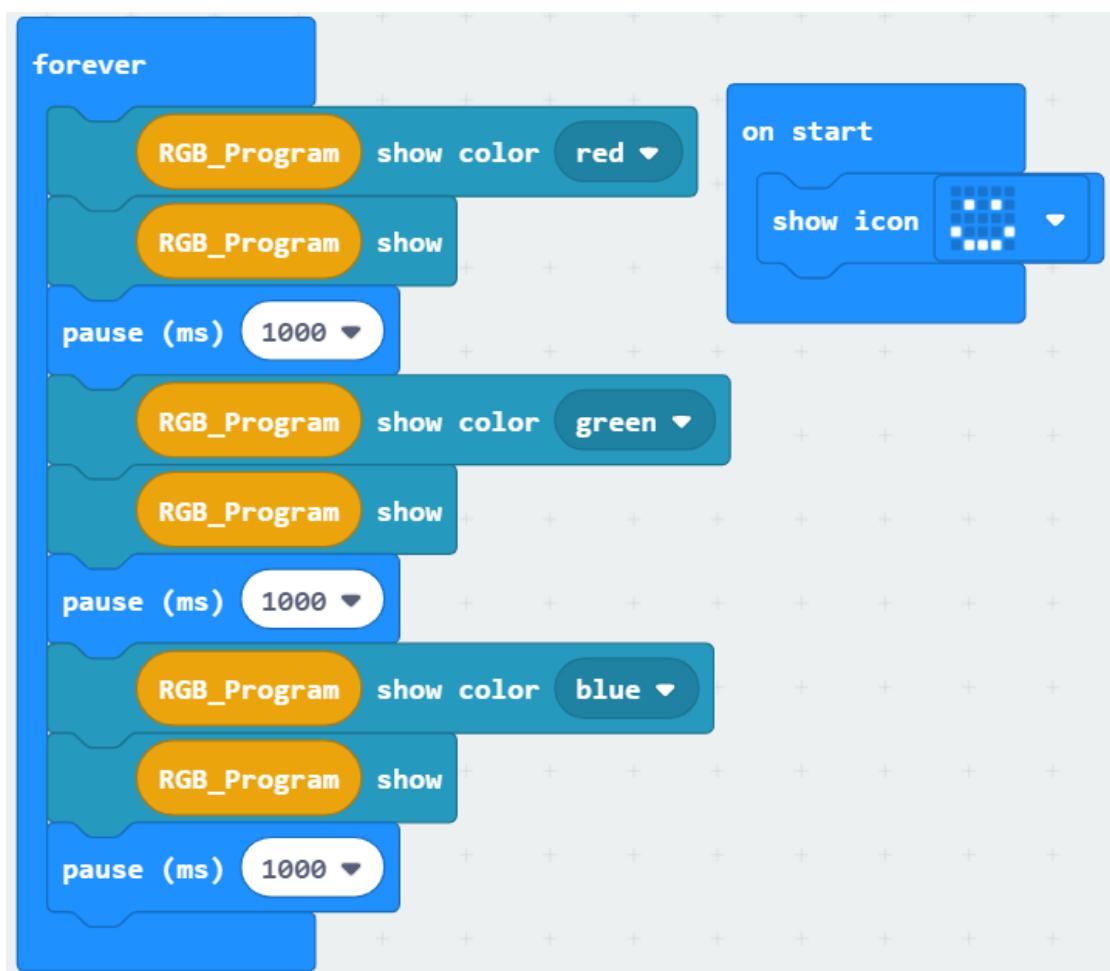
The following is the location of the building blocks required for this programming.





4. Combine building block

The summary program is shown below:

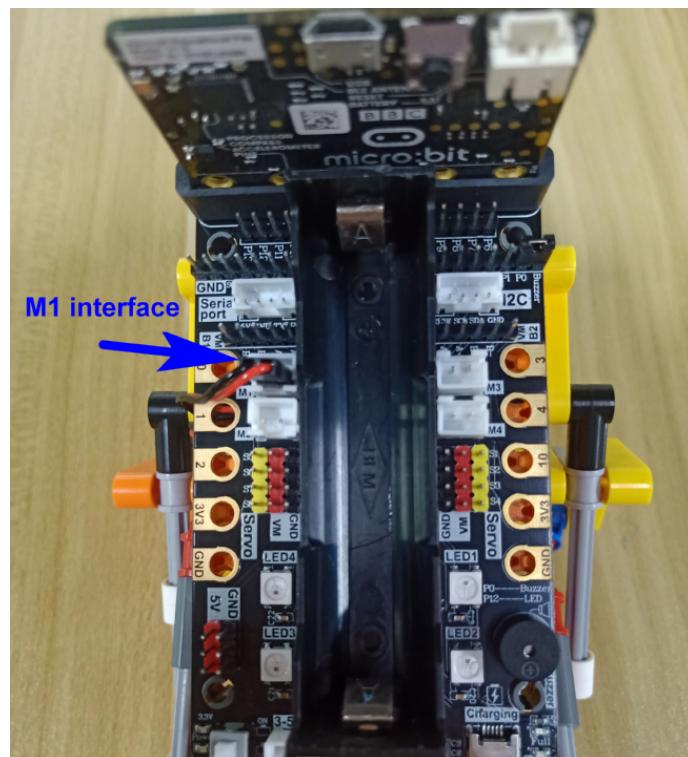


5. Assembly steps

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

6. About wiring:

As shown below,
building block motor connect to M1 interface of super:bit.



7. Experimental phenomena

After the program is successfully downloaded, the micro:bit dot matrix will display the smile pattern and RGB lights will switch color (red-green-blue), the time interval is one second.