

3.4 LED light exchange lighting

LED light exchange lighting.hex

http://www.yahboom.net/xiazai/Tiny_bit/3.Light%20of%20Tiny%20bit/LED%20light%20exchange%20lighting.hex

1.Preparation

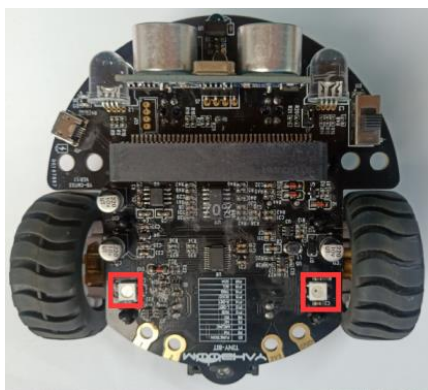
1-1.The position of the LED lights in the robot car

1-2.Learn about the principle of LED

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/Izty634158/Tiny-bit> 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/Izty634158/Tiny-bit>, you can program.In the picture shown below, the two white squares circled by the red wire frame are the colorful lights on the Tiny-bit.



Principle: LED light (red, green, blue) are packaged in the LED module. We can mix different colors(256*256*256) by controlling the brightness of the three LEDs.

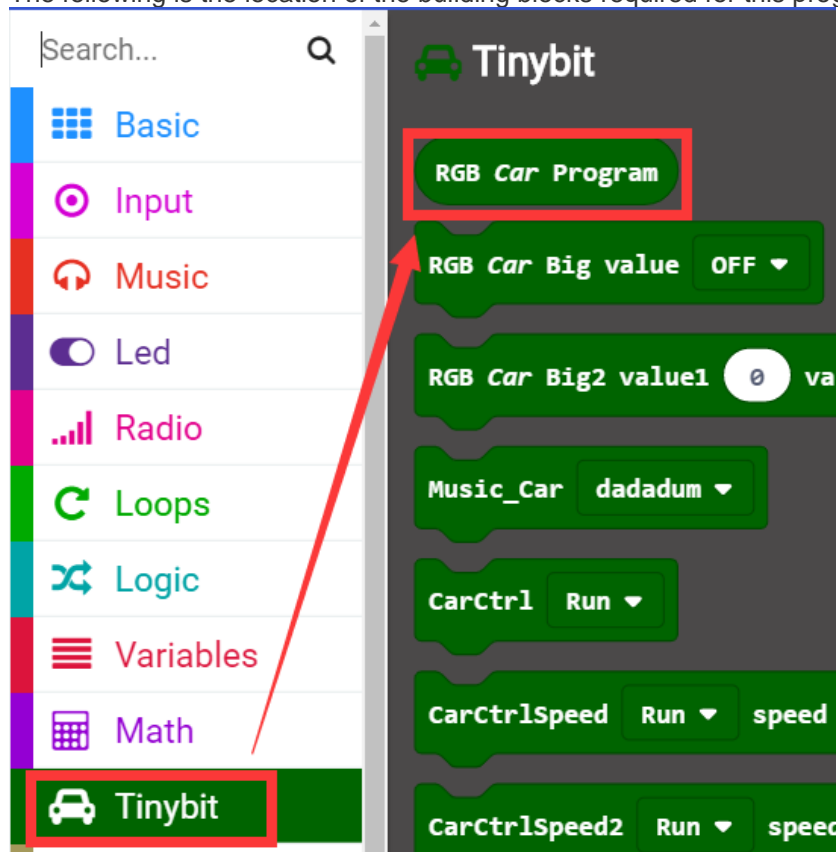
2.Learning goal

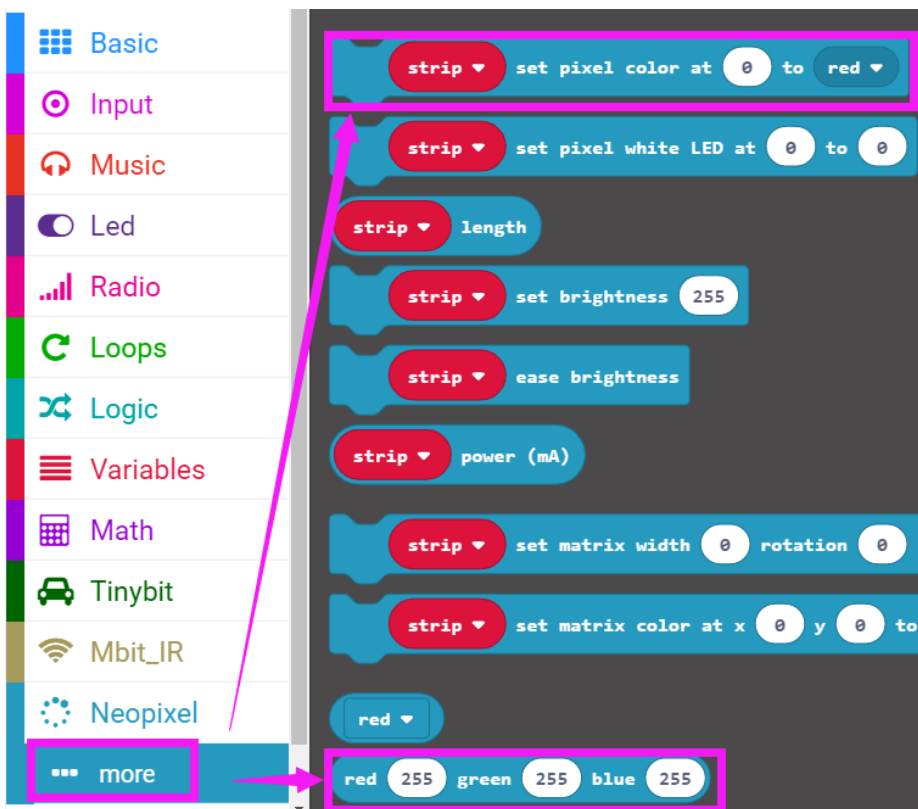
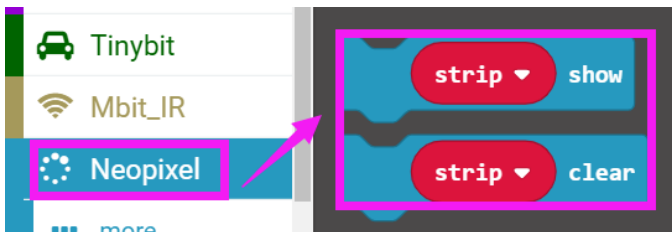
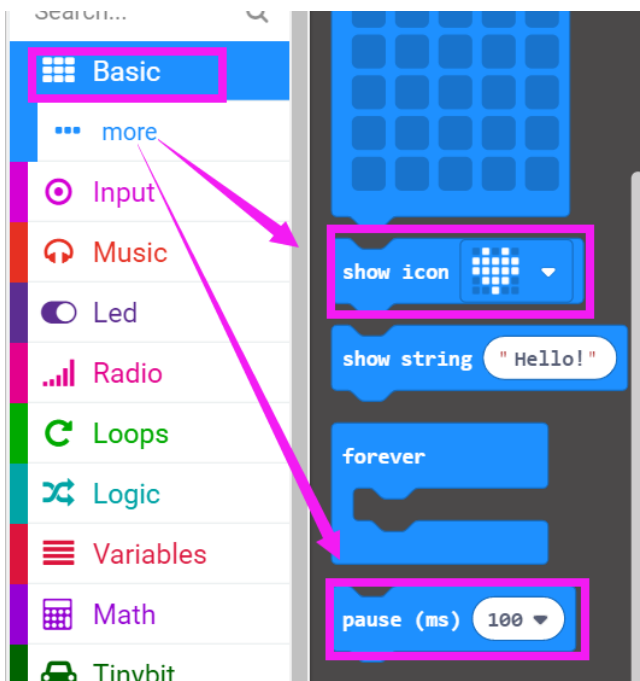
2-1.Learn how to use LED lights graphically program building blocks

2-2.We will make two LED lights of Tiny-bit light up white by programming.

3.Search for block

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

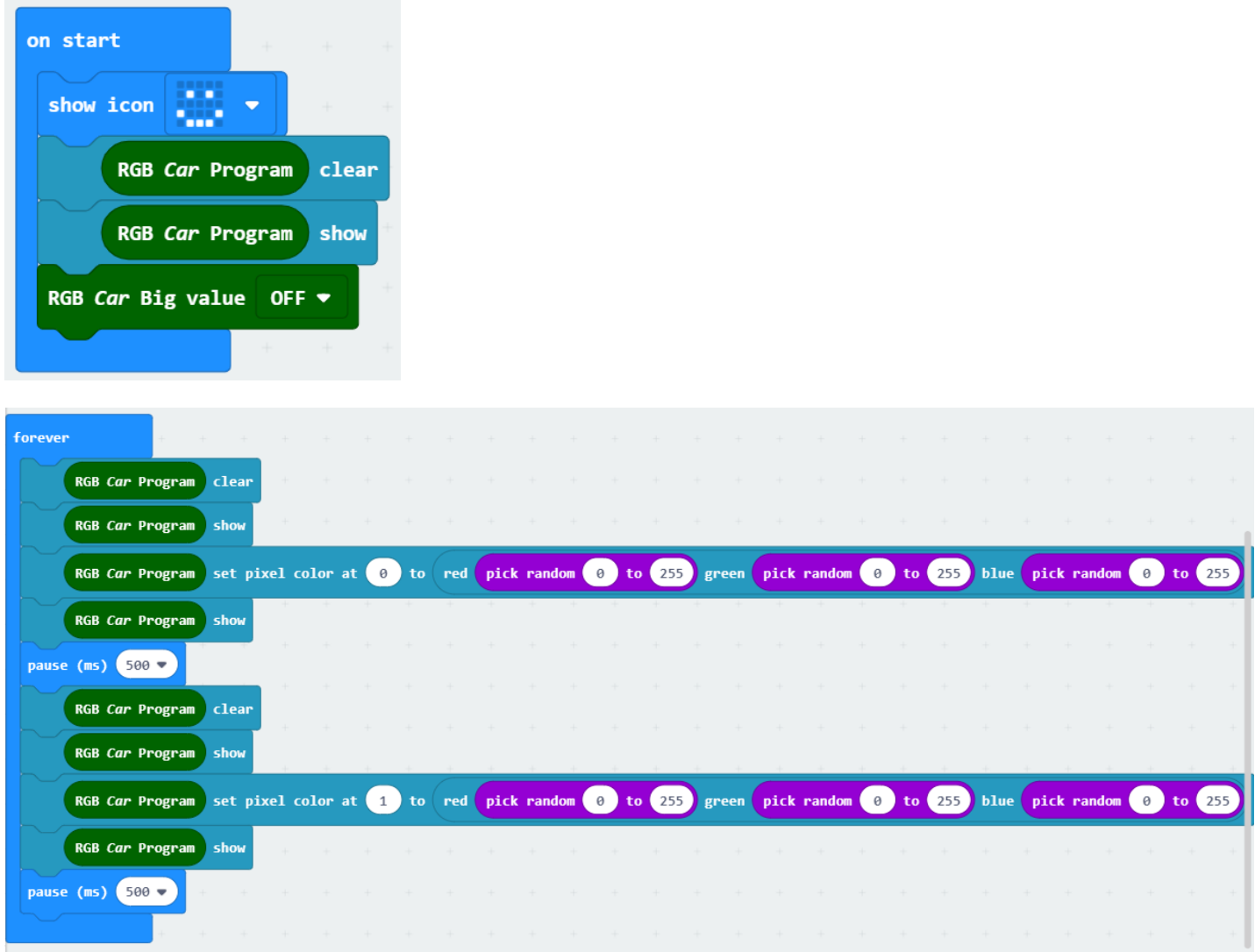






4.Combine block

The summary program is shown below:



5.Experimental phenomena

After the program is downloaded , we can see that a smile pattern is displayed on the dot matrix of micro:bit board. The two LED lights alternately light up different colors, as shown below.

