

3.1 LED light

LED light.hex

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

1.Preparation

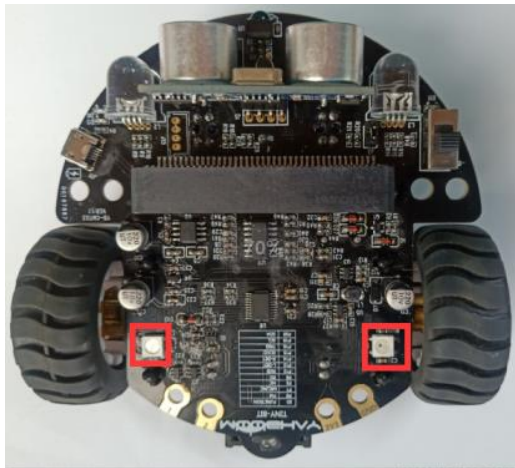
1-1.The position of the LED lights in the robot car

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/lzty634158/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/lzty634158/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.

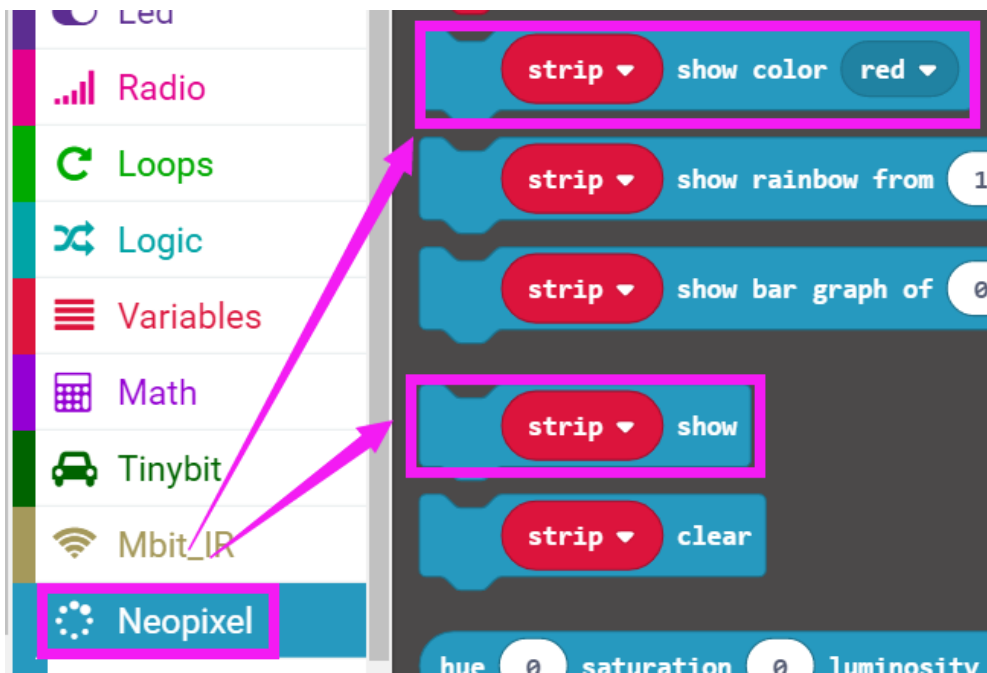
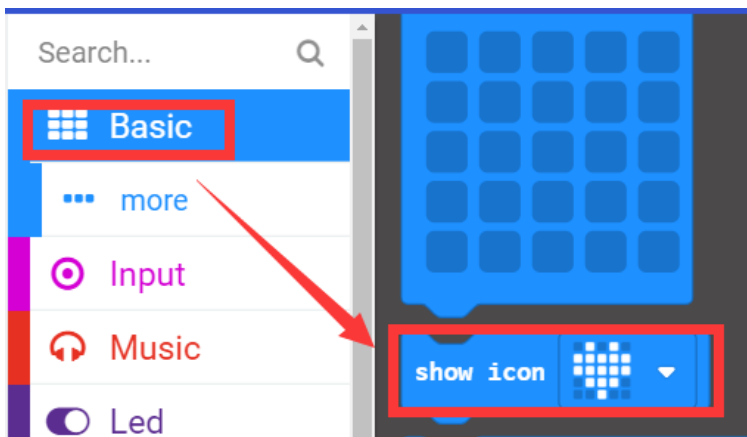
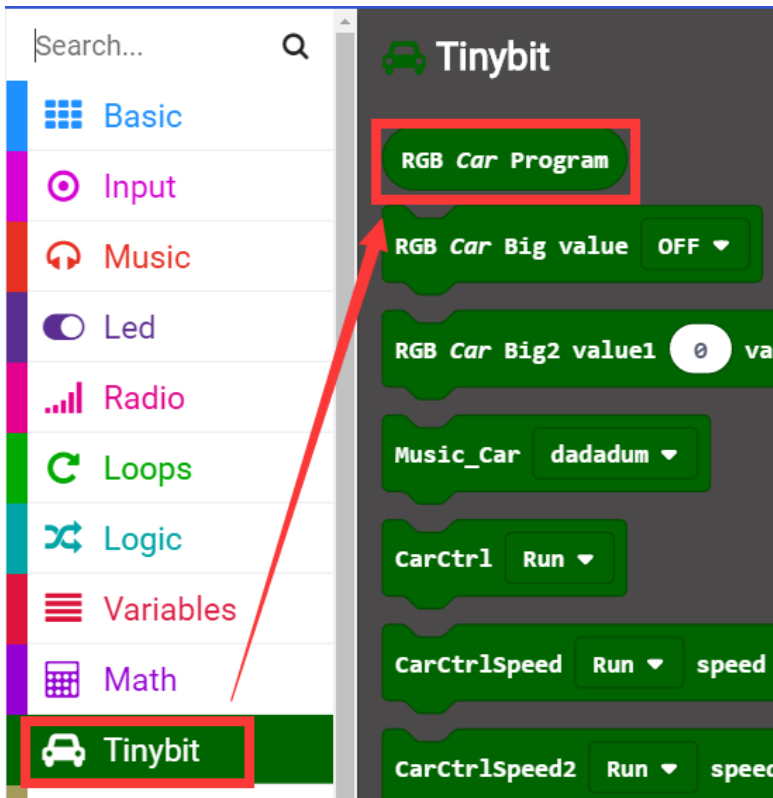
2.Learning goal

2-1.Learn how to use RGB 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

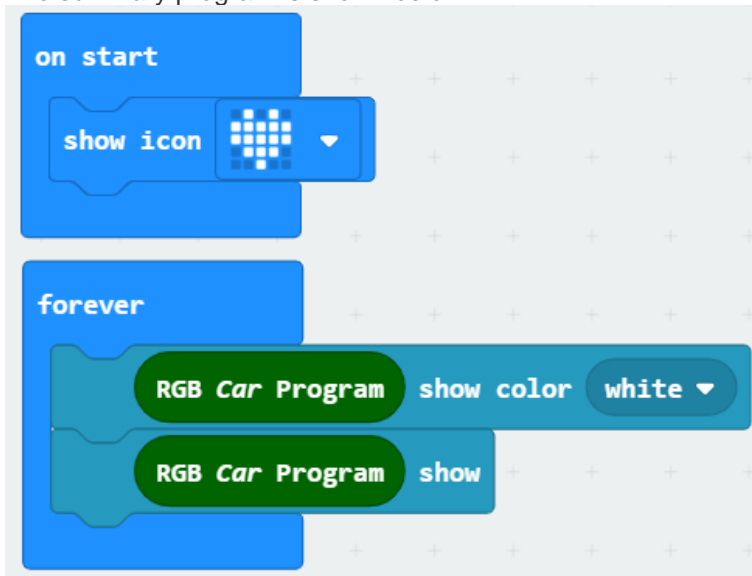
The following is the location of the building blocks required for this programming.





4. Combine block

The summary program is shown below:



5. Experimental phenomena

After the program is downloaded, we can see that a micro:bit board will display a heart pattern on the dot matrix. Two LED lights will be lit white, as shown below.

