3.2 RGB Searching light RGB light-1.hex http://www.yahboom.net/xiazai/Tiny_bit/3.Light%20of%20Tiny%20bit/RGB%20light-1.hex RGB light-2.hex http://www.yahboom.net/xiazai/Tiny_bit/3.Light%20of%20Tiny%20bit/RGB%20light-2.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: http://microbit.org/ 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 lights with the red wire frame are the RGB Searching 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 Searching lights graphically program building blocks
- 2-2.In this lesson, we will learn to light up red RGB Searching lights on the Tiny-bit robot.

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:

Method 1 :



Method 2 :

on start							
show icon	-						
	+						
forever							
RGB Car Big2 value1 255 value2 0 value3 0							
	+	+	+	+	+	+	+

5.Experimental phenomena

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

