All kinds light up RGB light ring

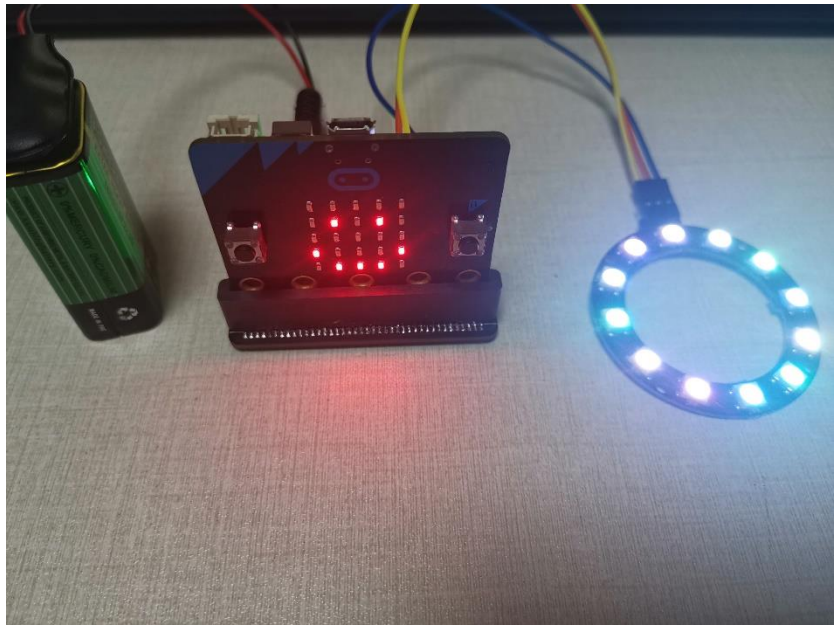
1、Achieve the goal

2、Preparation before class

3、Wiring

4、Block programming

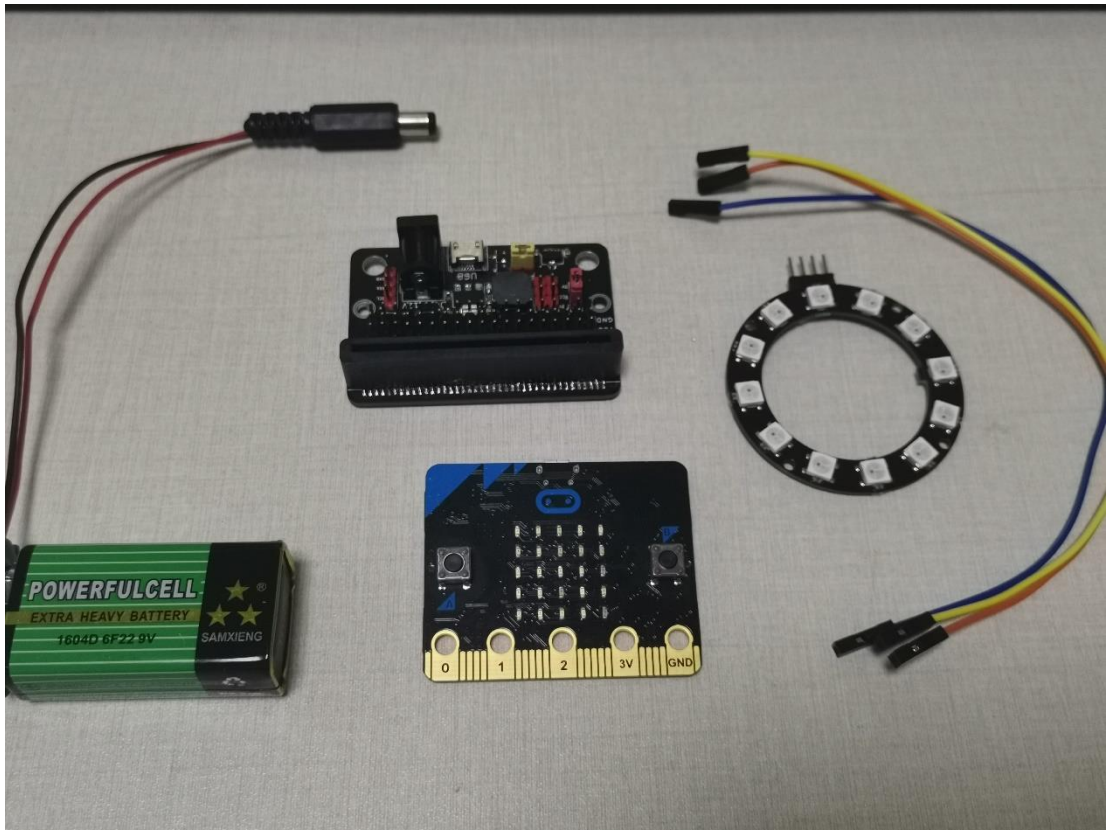
All kinds light up RGB light ring



1、Achieve the goal

When the RGB lamplight module is connected to the microbit extension board, the RGB lamplight of the RGB lamplight will turn on all RGB colored lights in a sequential cycle from top to bottom, bottom to top, top left to bottom right, bottom left to top right

All kinds light up RGB light ring



2、Preparation before class

Prepare microbit mainboard, USB cable, battery, RGB lamp coil module, expansion board, dupont cable.

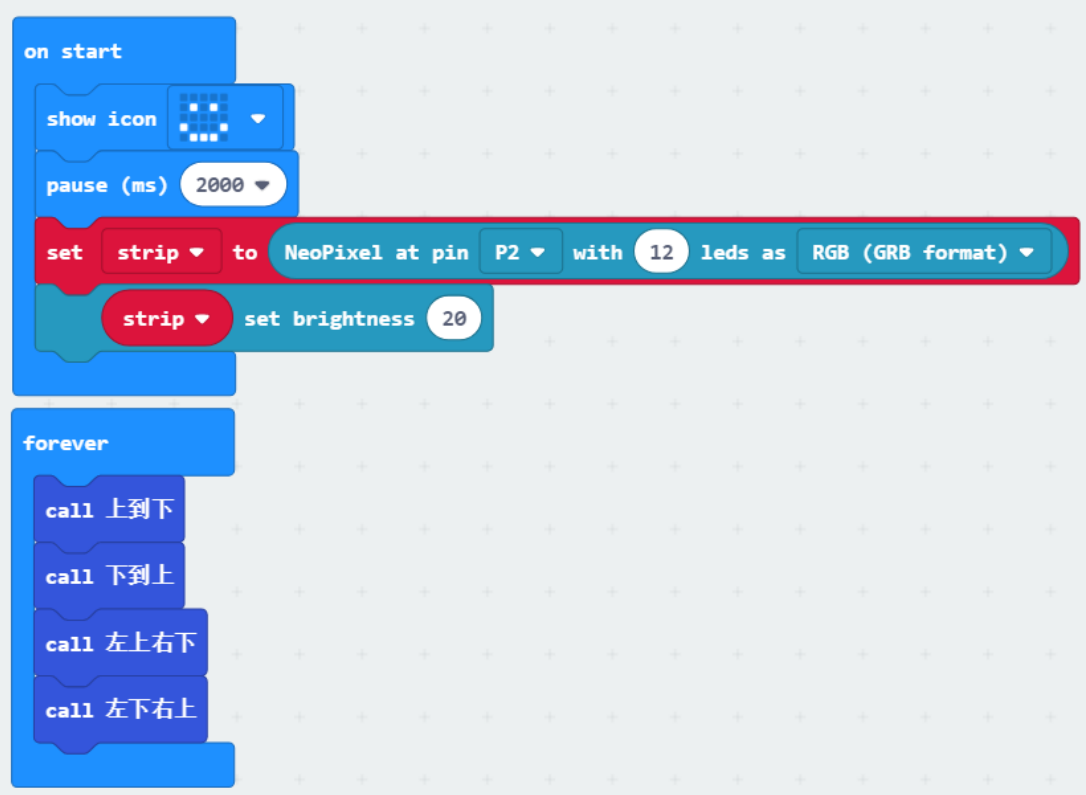
All kinds light up RGB light ring

3、Wiring

The DI pin of the RGB lamp ring is connected to the P2 pin of the extension plate, the 5V pin is connected to the 5V pin of the extension plate, and GND is connected to the GND pin of the extension plate

All kinds light up RGB light ring

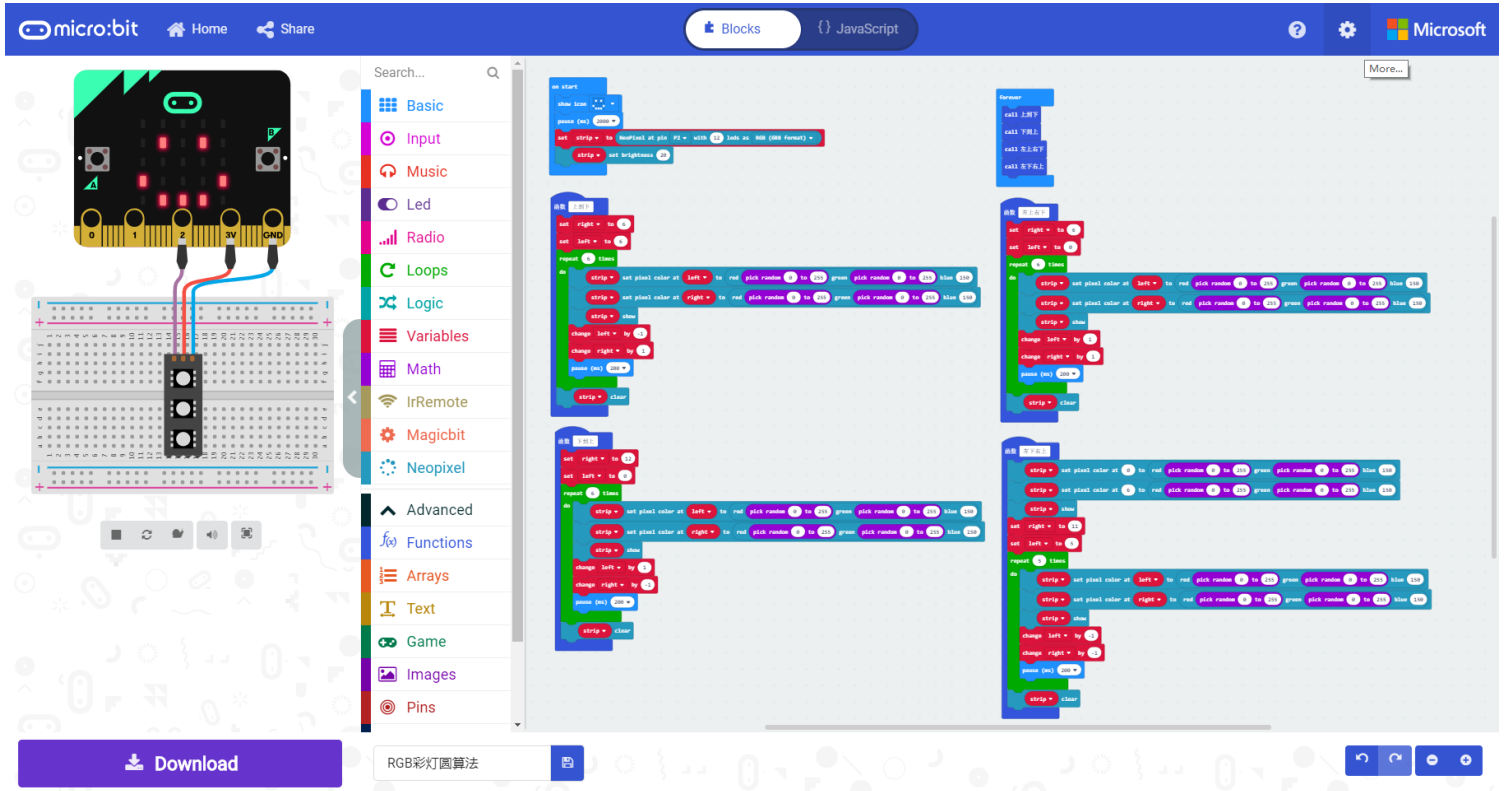
4、Block programming



1. When the it is turned on, the screen will display a smiley face pattern, then pause the 2S, set the lamp ring to connect to the P2 pin, and initialize the number of leds of the lamp ring to be 12, let the strip variable represent the lamp ring, and set the brightness to be 20

2, in the infinite loop, there are four functions, the function contains written simple algorithm, can directly call the function to control the display of different effects

All kinds light up RGB light ring



5、Download experience

1. Click "download", download the program to the microbit, connect the circuit, and you can see the result of your programming