



## Section 7. Magicbit infrared remote control RGB lamp

- 1、 Achieve the goal
- 2、 Preparation before class
- 3、 Block programming

# Section 7. Magicbit infrared remote control RGB lamp



## 1、Achieve the goal

Use the emakefun remote to control the extended version of Magicbit. When the remote control A is pressed, the sound is played, and the onboard RGB displays indigo. When the remote control B is pressed, the sound is played and the onboard RGB displays orange; When the remote control C is pressed, the sound is played and the onboard RGB displays purple

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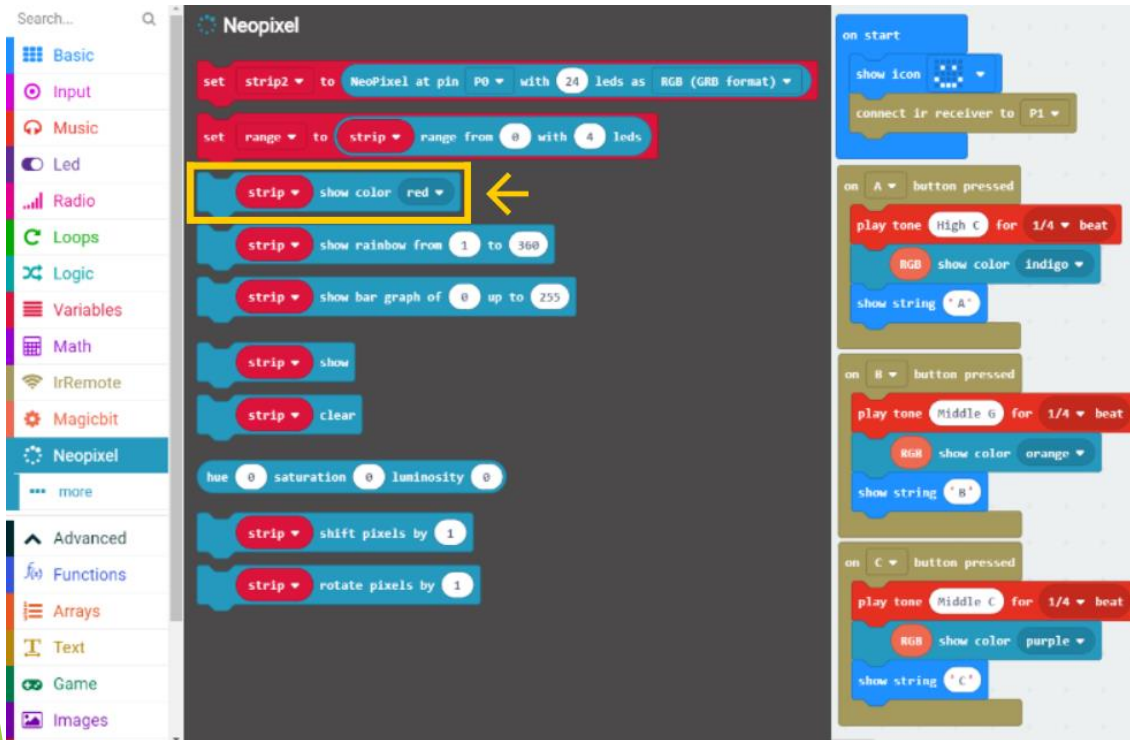
## 2、Preparation before class

Prepare a microbit motherboard, a USB cable, a Magicbit extension, and a computer

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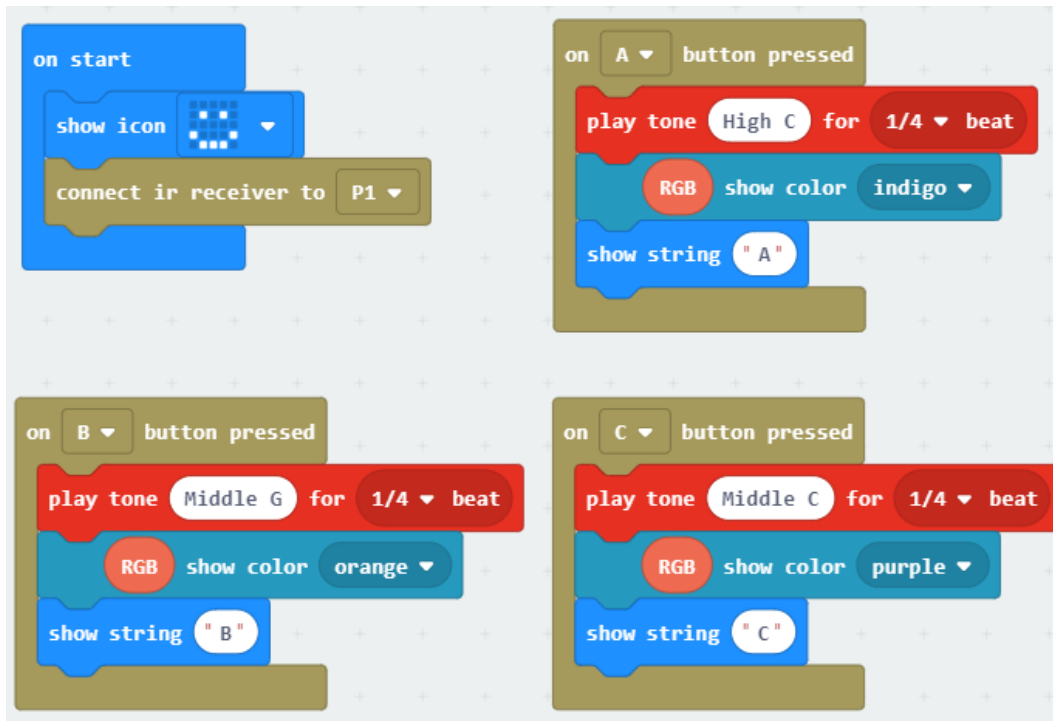
## 3、Block programming

1. The on-board RGB lamp is in the Neopixel package, in which the display color program block with serial number 2 is used to control the color of RGB, the first white triangle is used to select which RGB to control, and the second white triangle symbol is used to control the color of RGB.



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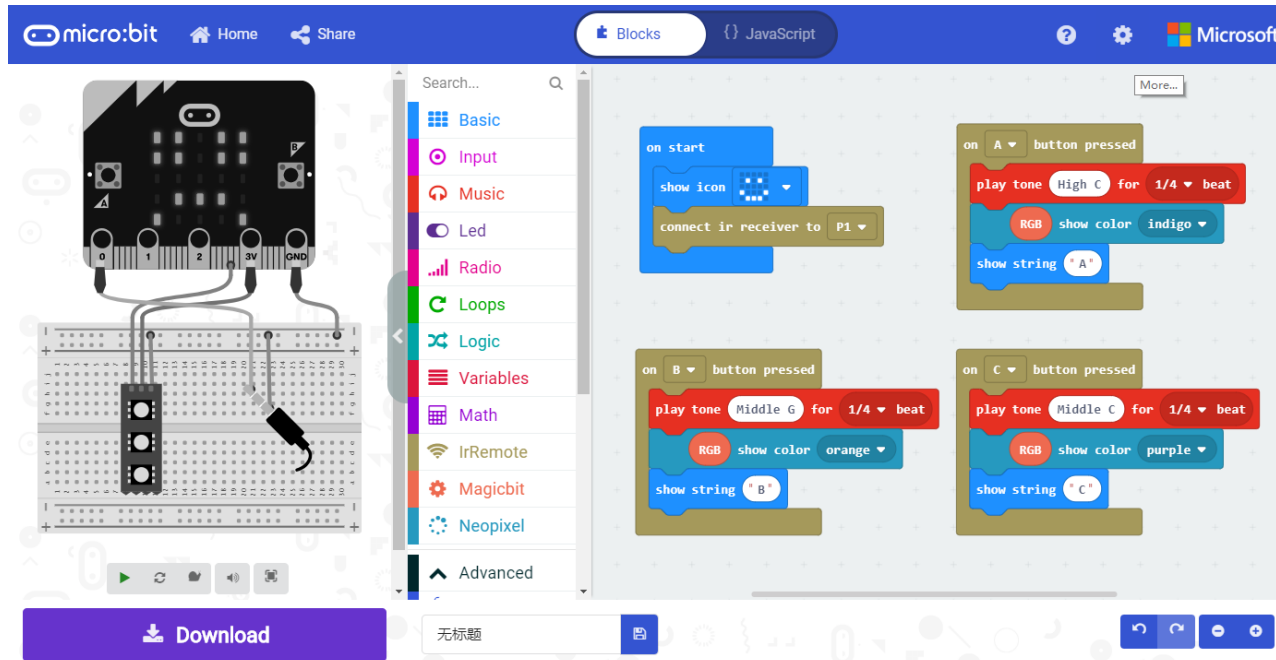
## 3. Block programming



2. When starting up, the microbit screen displays a smiley face, initializes the infrared remote control, and detects in a cycle whether the infrared remote control has buttons pressed.

3. When the button A of the remote control is pressed, the onboard buzzer plays the sound, the onboard RGB displays the color indigo, and the screen displays the character A; When button B is pressed, the onboard buzzer plays sound, the onboard RGB displays color orange, and the screen displays character B; When key C is pressed, the onboard buzzer plays sound, onboard RGB displays purple, and the screen displays character C


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Download  
experience

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

## Section 7. Magicbit infrared remote control RGB lamp

A green circular callout bubble with a yellow border and a yellow triangular tail pointing towards the bottom left. A thin green line connects the bubble to the main content area.

Did your  
program  
work ???

A green circular callout bubble with a yellow border and a yellow triangular tail pointing towards the bottom right. A thin green line connects the bubble to the main content area.

Can you use the  
remote control  
to control the  
motor?? Use  
your creativity  
and give it a try!