

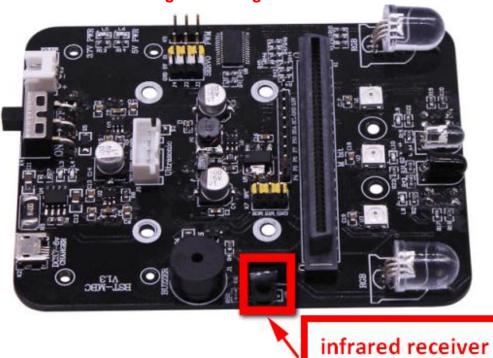
Lesson2 of Building:bit Mini car---"Infrared remote control"





Note:

- 1. When performing infrared remote control, the remote controller should face the infrared receiver on the expansion board.
- 2. There is a plastic piece on the bottom of the infrared remote controller that needs to be taken down for normal use.
- 3. The infrared light emitted by the infrared remote controller and the infrared receiver is invisible to the human eye. It can be seen under the camera without filtering infrared light.



1.Experimental phenomena

After downloading the program, open the power switch of the mini car and press the button of the infrared remote controller. The mini car will have corresponding action. On the Infrared remote controller, small light button, add button, subtract button to control the color of the colorful lights, the red power button to turn off light, 1~7 button represents the music do, re, mi, fa, sol, la, si.



The front, back, left and right buttons control the advance, back, turn left and turn right of the car, the spin left button and spin right button control the car to rotate left and rotate right. 0 and 8, 9 are used to control the image of the dot matrix screen.

2.Preparation before class

We needs to be ready: Building Block Mini car*1 Infrared remote controller*1 USB data cable*1

2-1.Two programming methods:

Online programming:

First,we need to connect the micro:bit to the computer by USB data cable, the computer will pop up a USB flash drive. Then, click on the URL in the USB flash drive: http://microbit.org/ to enter the edit process interface, click to

【Extensions】, and copy the package URL:

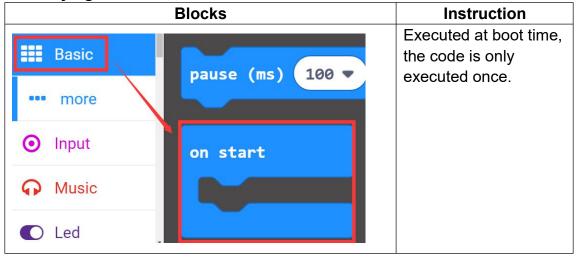
https://github.com/lzty634158/yahboom_mbit_en to the input field, and you can use the building blocks of the Yahboom software package.

Offilne programming:

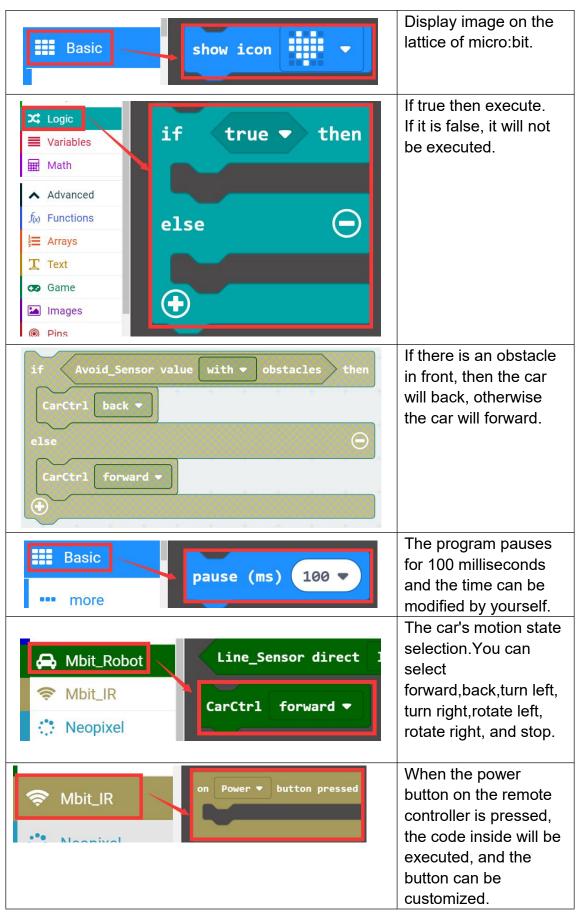
Open the offline programming software Makecode, click to 【Extension】 and copy the package URL: https://github.com/lzty634158/yahboom_mbit_en to the input field, and you can use the building blocks of the Yahboom software package.

For detailed programming, please read the documentation before class [1. Preparation before class] ---- [Introduction of programming method]. We use micro:bit official website for online programming in here.

3.Studying blocks





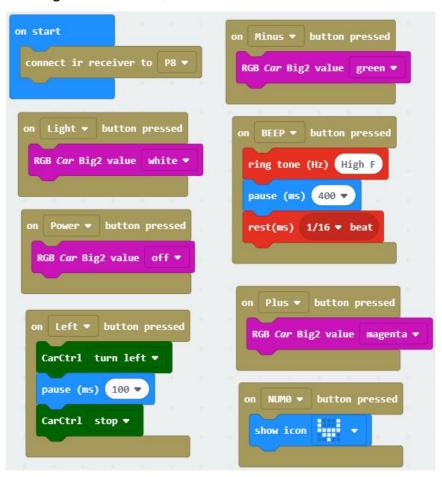




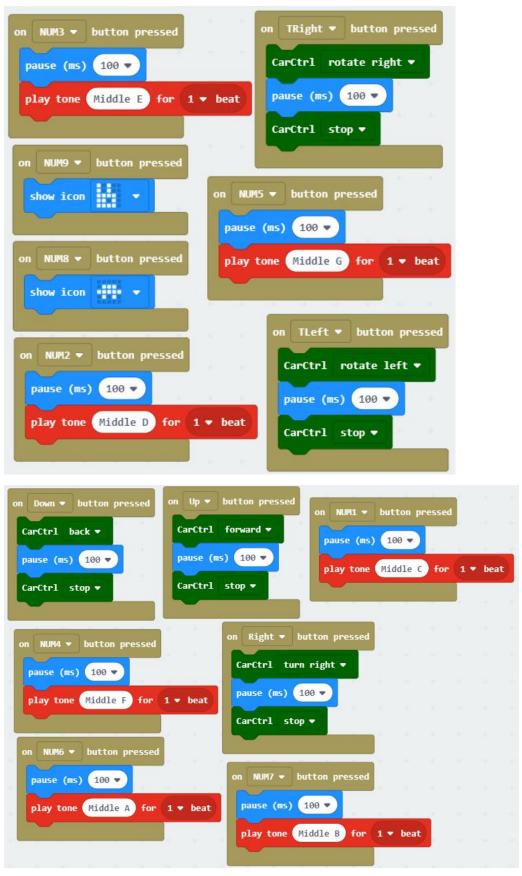


4.programming

Next, we started to write the program for the infrared remote control of the building block Mini car, as shown below:







The above is the program for this Mini car. After writing, we need to download it to the micro:bit board.