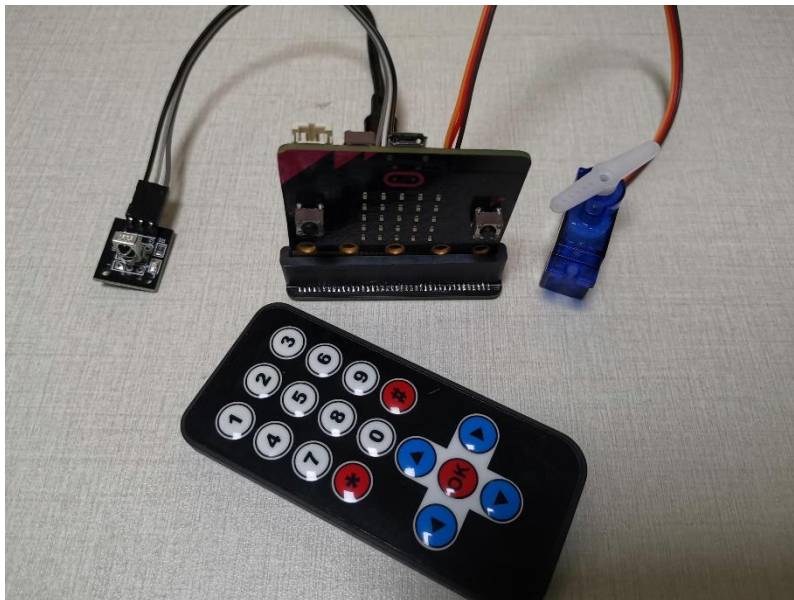


# Infrared remote control steering gear rotation

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

# Infrared remote control steering gear rotation



## 1、Achieve the goal

When the remote control button  $\leftarrow \rightarrow$  OK is pressed, the PWM steering gear will rotate to the corresponding position, and the screen will display the corresponding icon.

# Infrared remote control steering gear rotation

## 2、Preparation before class

Prepare microbit motherboard, USB cable, battery, infrared receiver module, infrared remote control, PWM steering gear, expansion board, dupont line.



# Infrared remote control steering gear rotation

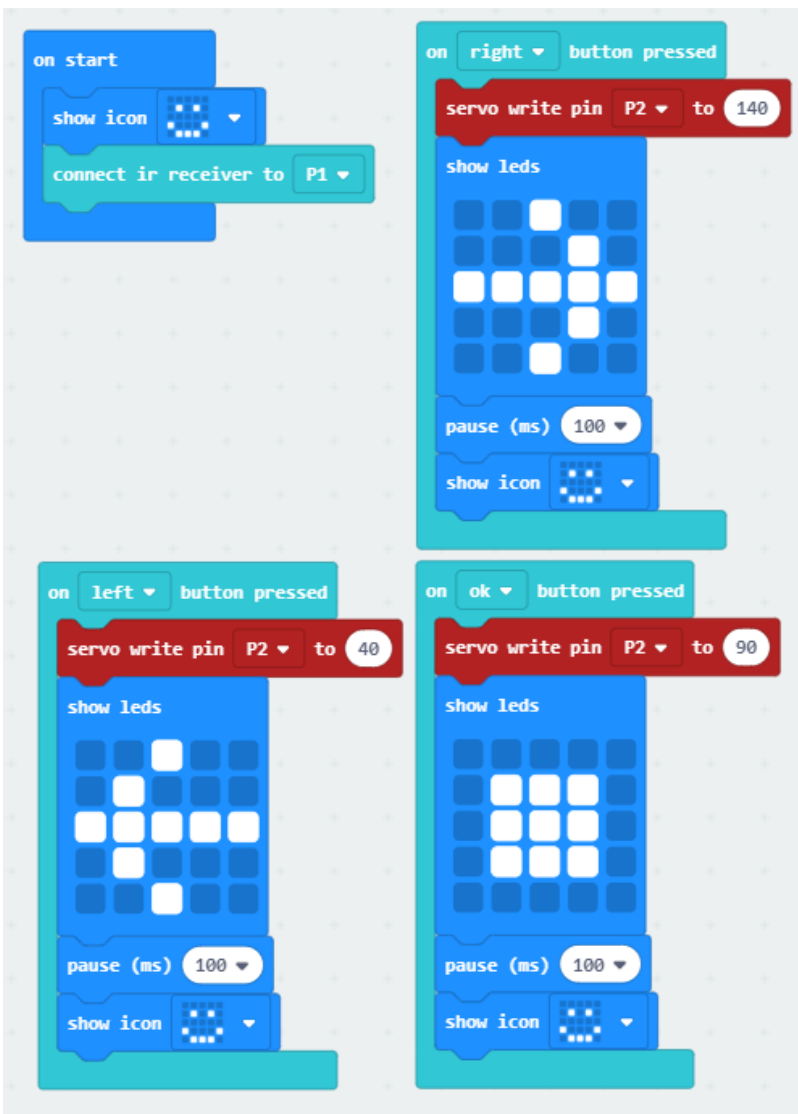
## 3、Wiring

The G pin of the infrared receiver is connected to the GND of the extension plate, the R pin is connected to the VCC of the extension plate, and the Y pin is connected to the P11 pin of the extension plate

The steering gear is connected to P2 in yellow, to VCC in red and to GND in brown

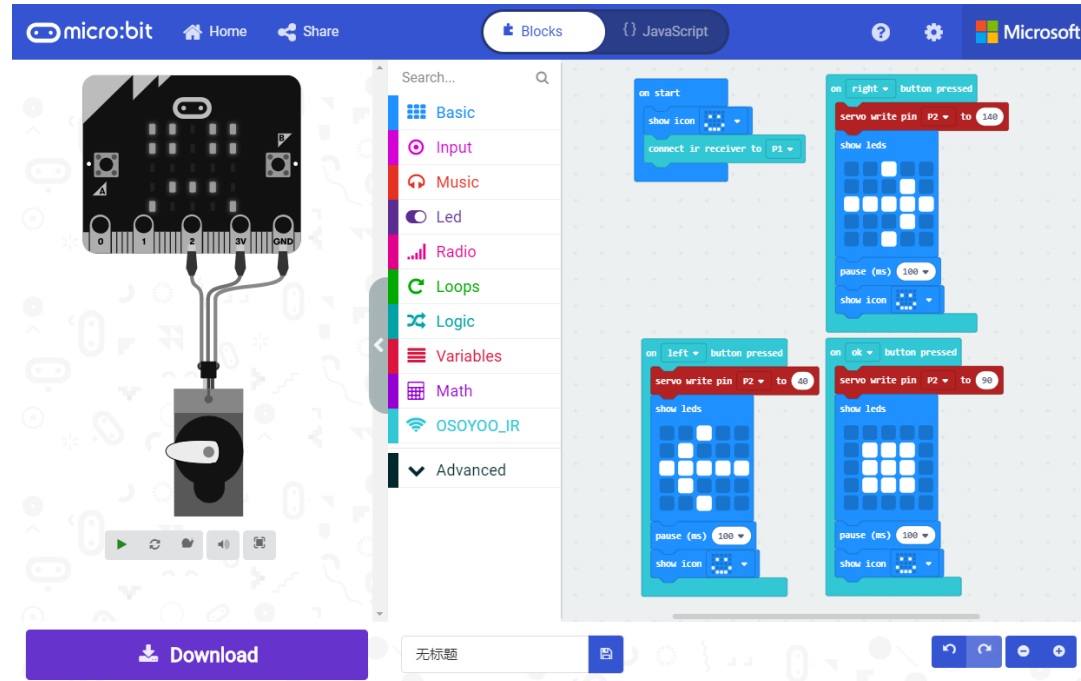
# Infrared remote control steering gear rotation

## 4、Block programming



1. When starting up, initialize the infrared. Receive the header and select the corresponding pin
2. When the button is pressed, the screen will display the box and the steering gear will rotate to the middle position; When the button left is pressed, the screen displays ←, and the steering gear turns to  $40^{\circ}$ ; When the button right is pressed, the screen will display →, and the steering gear will rotate to the position of  $140^{\circ}$ . Every time you press it, a smiling face will be displayed at last, indicating that you can press it again

# Infrared remote control steering gear rotation



## 5、Download experience

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