

### Biped bit handle remote control

In this lesson we will learn to use the Handle to remotely control the building blocks Biped:bit .

#### 1.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 <https://github.com/lzty634158/SuperBit> 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/SuperBit>, you can program.

#### 2.About Pretty car code:

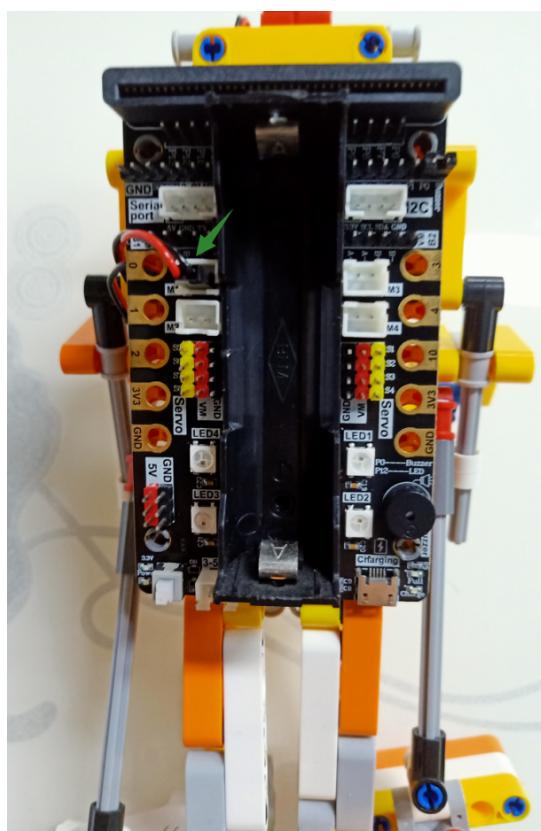
Please refer to the [Handle code](#) file of this experiment.

Please refer to the [Biped bit code](#) file of this experiment.

#### 3.Assembly steps

Please refer to the [Assembly instructions](#) folder for building blocks assembly steps.

#### 4.About wiring:



## 5 Steps:

### 5.1 Handle rocker control

First, we need to download the [microbit-Biped-bit-handle-remote-control.hex](#)

to micro:bit of Pretty car, you can see that the micro:bit dot matrix shows an pattern as shown in Figure 1.1.

we need to download the [microbit-Handle\\_rocker\\_control.hex](#) to micro:bit of Handle, you can see that the micro:bit dot matrix shows an “heart” as shown in Figure 1.2.

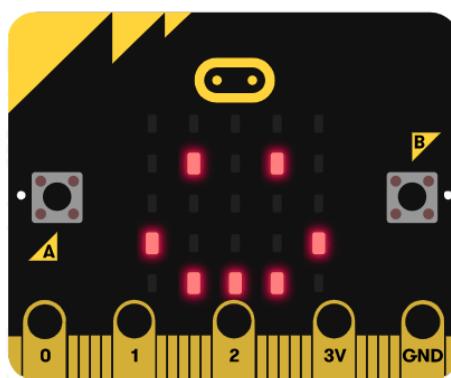


Figure 1.1

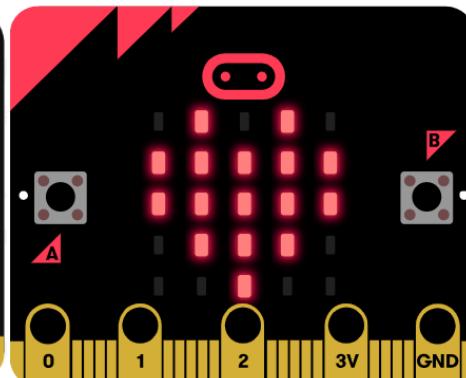


Figure 1.2

Then, open the micro:bit handle. After the handle is connected with the micro:bit building block Pretty car, you can use the joystick to control the forward, backward, turn left, and turn right .

And use the handle button to switch the Color of RGB light. Press the rocker to turn off the RGB light.

### 5.2 Handle gravity control

First, we need to download the [microbit-Biped-bit-handle-remote-control.hex](#) to micro:bit of Pretty car, you can see that the micro:bit dot matrix shows an pattern as shown in Figure 1.3.

we need to download the [microbit-Handle-gravity-control.hex](#) to micro:bit of Handle, you can see that the micro:bit dot matrix shows an “heart” as shown in Figure 1.4.

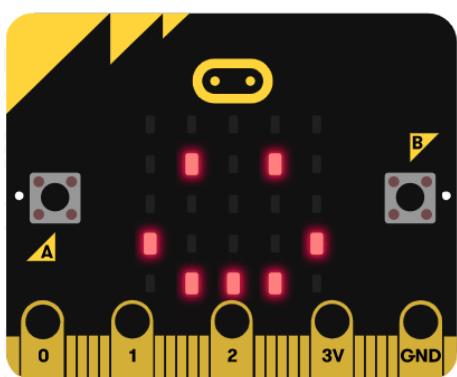


Figure 1.3

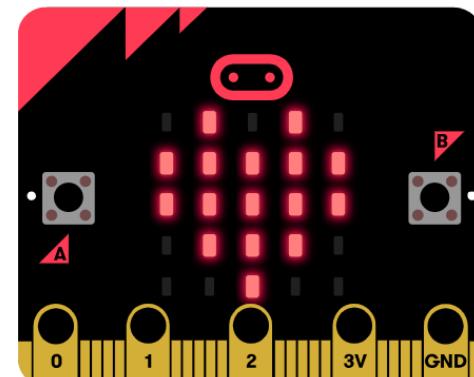
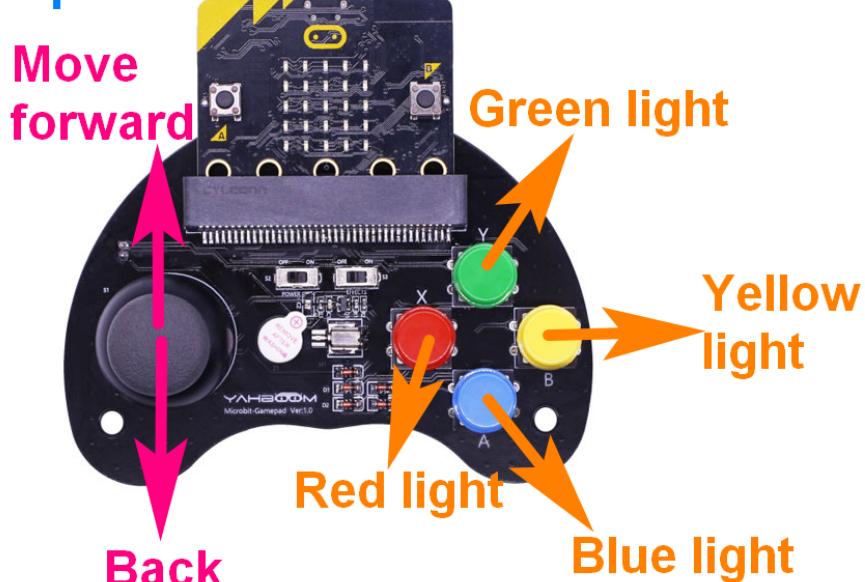


Figure 1.4

Then, open the micro:bit handle. After the handle is connected with the micro:bit building block Biped:bit, you can shake handle to control the forward, backward, turn left, and turn right .

And use the handle button to switch the Color of RGB light. Press the rocker to turn off the RGB light.

## Press the rocker can change mode of Biped:bit



1. Press the rocker to switch mode, if the mode switch successfully, the buzzer of biped:bit will sound, and micro:bit dot matrix will display the current mode(number 1 or number 2); at the same time, RGB lights will off;
2. The rocker pushes forward to control the biped:bit to advance;  
**mode 1:** release and stop;  
**mode 2:** release to continue forward, if you need to stop, press the rocker to switch mode;  
 The rocker pushes back to control the biped:bit to back;  
**mode 1:** release and stop;  
**mode 2:** release to continue back, if you want to stop, press the rocker to switch mode;
4. Press the red button to control the RGB lights of the biped robot to become red;
5. Press the green button to control the RGB lights of the biped robot to become green;
6. Press the blue button to control the RGB lights of the biped robot to become blue;
7. Press the yellow button to control the RGB lights of the biped robot to become yellow.