

Hellobot car handle remote control

1.Learning goals

In this lesson we will learn to use the Handle to remotely control the car.

2.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/HelloBot> and <https://github.com/lzty634158/GHBit> to programming.

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/HelloBot> and <https://github.com/lzty634158/GHBit>, you can start programming.

3.About code

About Hellobot carcode, please refer to the [Hellobot-XXX-code.hex](#).

About handle code, please refer to the [Handle-gravity-control-code](#) and [Handle-rocker-control-code.hex](#)

4.Steps:

4.1.1 Handle rocker control basic Hellobot



First, we need to download the [Hellobot-Basic-code.hex](#) to micro:bit board of micro:bit car. Open the power switch, you can see that the micro:bit dot matrix shows an smile, then display “1”. As shown in Figure 1.1.

we need to download the [Handle-rocker-control.hex](#) to micro:bit board of Handle. Open the power switch, you can see that the micro:bit dot matrix shows an “heart”, as shown in Figure 1.2.

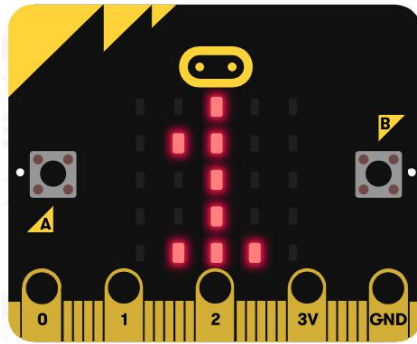


Figure 1.1

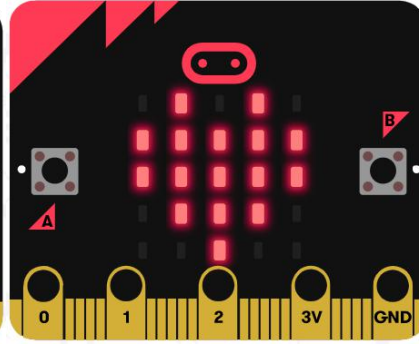


Figure 1.2

They will automatically pairing, then, we can start remote control the car by handle.

Push the rocker to forward -- Car advance

Push the rocker to back -- Car back

Push the rocker to left -- Car turn left

Push the rocker to right-- Car turn right

Press the button B1 -- left arm lay down

Press the button B3 -- left arm rise

Press the button B2 -- right arm lay down

Press the button B4 -- right arm rise

4.1.2 Handle rocker control basic Hellobot

First, we need to download the [Hellobot-Basic-code.hex](#) to micro:bit board of micro:bit car. Open the power switch, you can see that the micro:bit dot matrix shows an smile, then display "1". As shown in Figure 1.3.

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

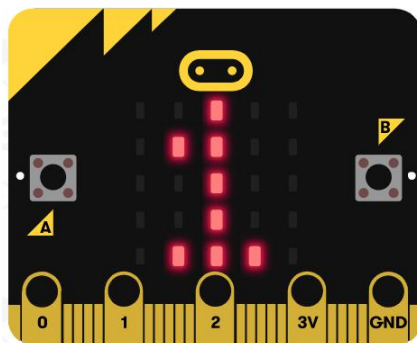


Figure 1.3

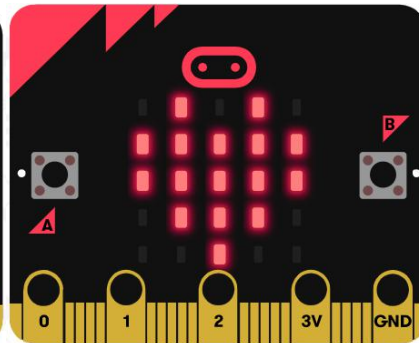


Figure 1.4

They will automatically pairing, then, we can start remote control the car by handle.

Tilt handle to forward -- Car advance

Tilt handle to back -- Car back

Tilt handle to left -- Car turn left

Tilt handle to right-- Car turn right

Press the button B1 -- left arm lay down



Press the button B3 -- left arm rise

Press the button B2 -- right arm lay down

Press the button B4 -- right arm rise