

Button control loading platform

1.Learning goals

In this lesson, we mainly learn how to control building block servo by micro:bit and Super:bit expansion board.

2.Programming method

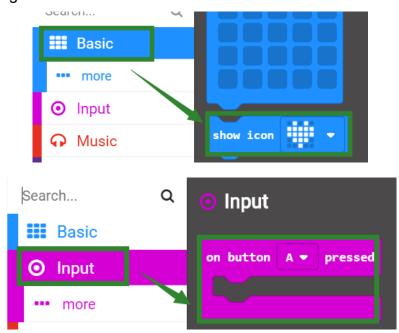
Mode 1 online programming: First, we need to connect the micro:bit to the computer by USB cable. The computer will pop up a USB flash drive and click on the URL in the USB flash drive: http://microbit.org/ to enter the programming interface. Add the Yahboom package https://github.com/lztv634158/SuperBit 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.

3.Looking for blocks

The following is the location of the building blocks required for this programming.

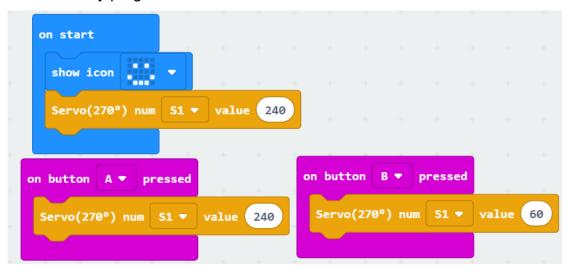






4.Combine building block

The summary program is shown below:



5.Assembly steps

Please refer to the **Skilled remover assembly steps in the Assembly instructions** folder for building blocks assembly steps.

6.About wiring:

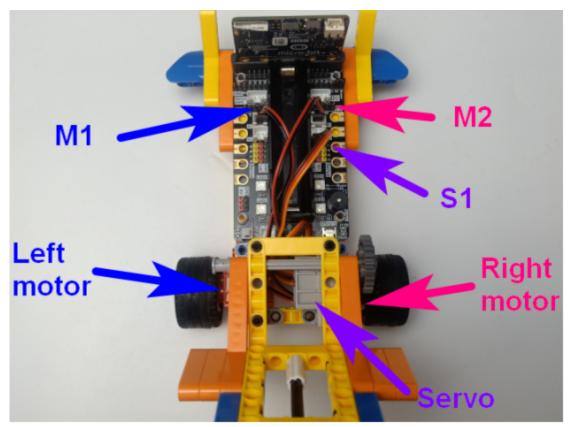
As shown below,

Left motor connect to M1 interface of super:bit.

Right motor connect to M3 interface of super:bit.

Servo connect to S1 interface of super:bit.





!!!Note:When using the program related to the building block servo for the first time.

First, we need to remove the gear on the building block servo. Then, download the program to micro:bit. Next, turn on the power of the Super:bit expansion board and wait for the building block servo to turn to the initial position and turn off the power. Finally, we need to open the trolley clip to the widest point, and then install the gear on the building block servo.

7. Experimental phenomena

After the program is successfully downloaded, the micro:bit dot matrix will display the smile pattern and the loading platform of the car will flat. Press the A key of micro:bit board, the loading platform of the car flat, Press the B key of micro:bit board, the loading platform of the car dump.

If you need to start over, press the reset button on the back of the micro:bit board.