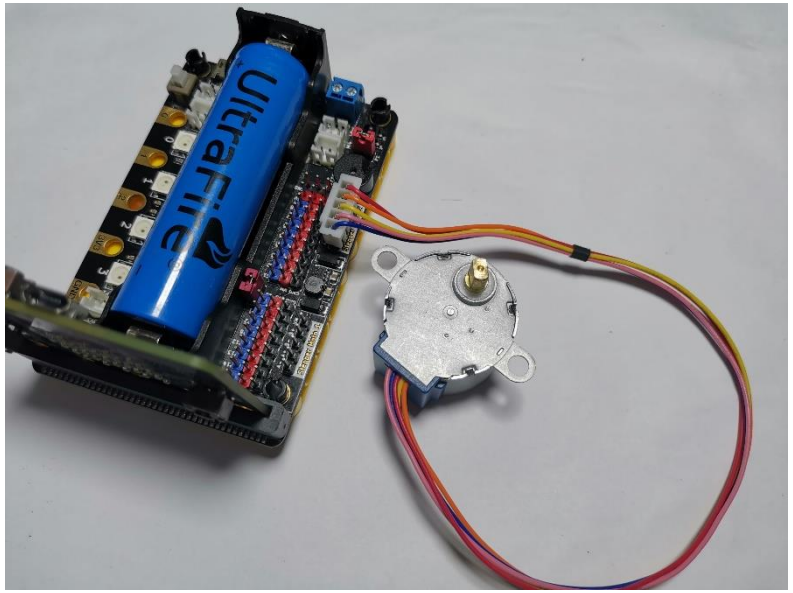
Section 5. Magicbit control stepper motor

1、 Achieve the goal

2、 Preparation before class

3、 Block programming

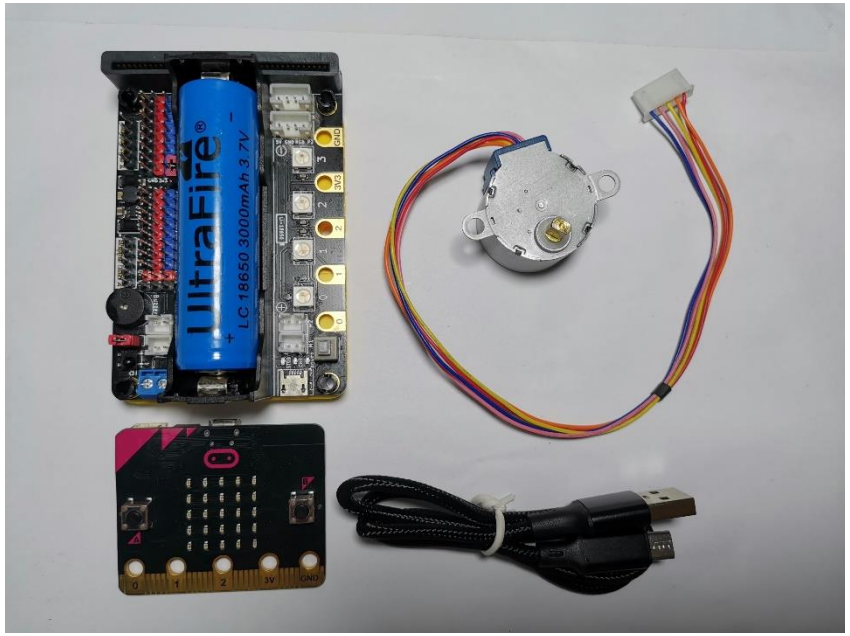
Section 5. Magicbit control stepper motor



1、Achieve the goal

The microbit motherboard is used to drive the stepper motor through the Magicbit extension

Section 5. Magicbit control stepper motor

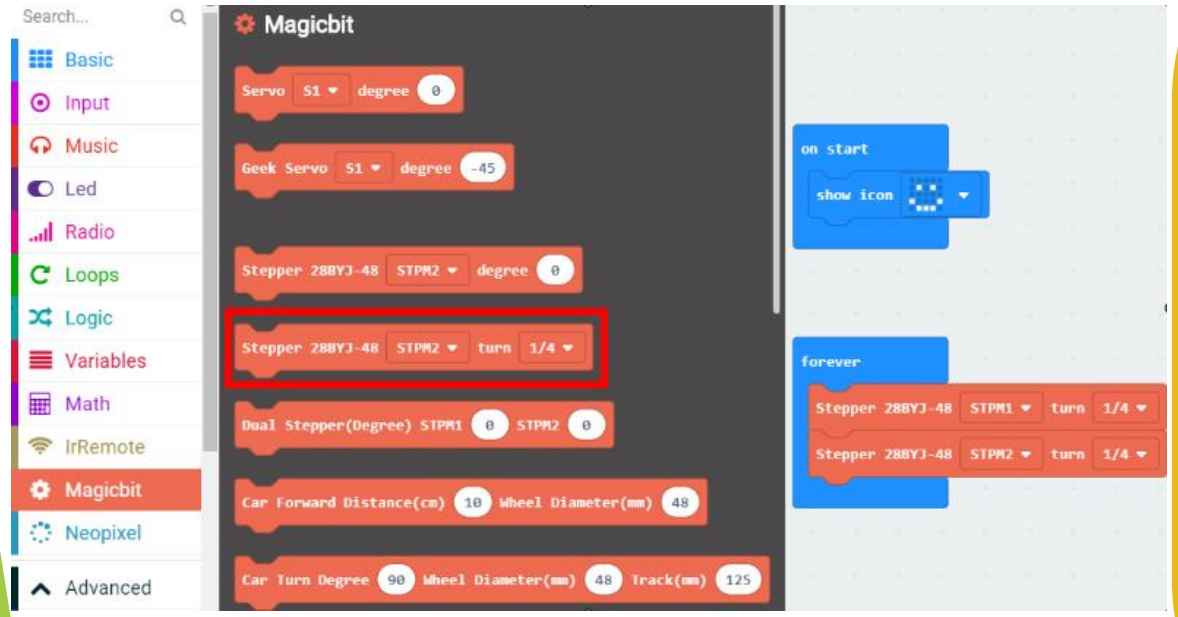


2、Preparation before class

prepare a microbit motherboard, a Magicbit extension, a USB cable, a computer, and a stepper motor

Section 5. Magicbit control stepper motor

3、Block programming



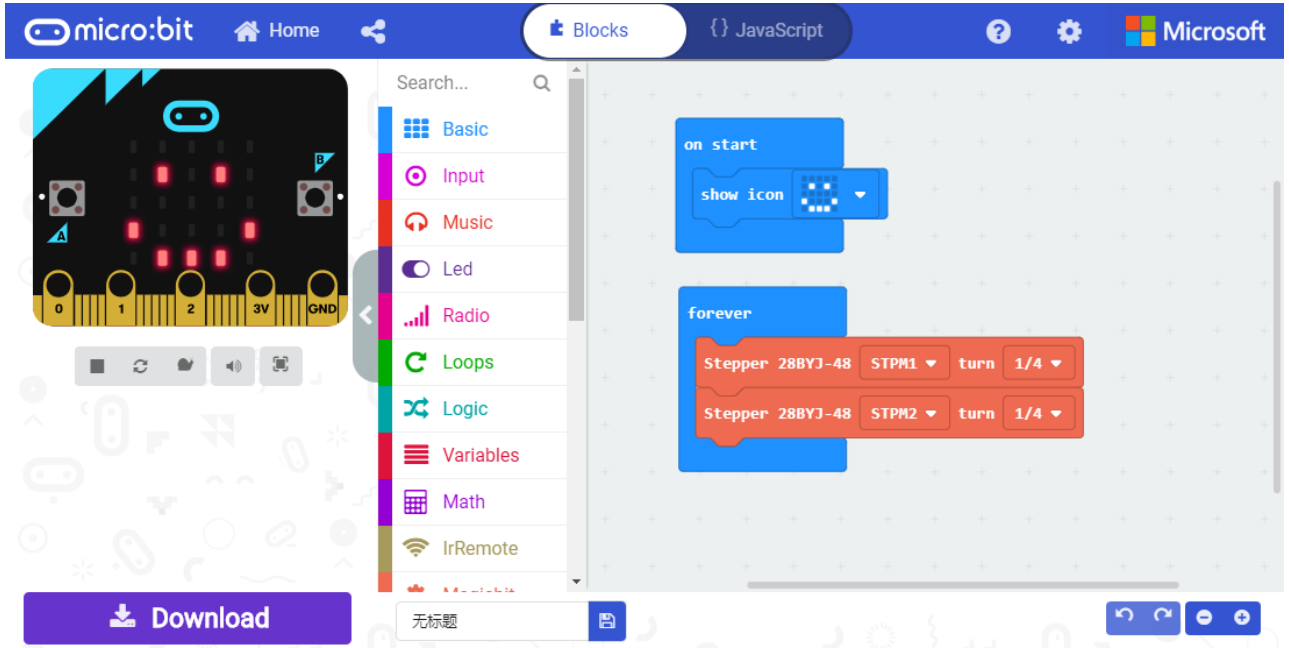
1、In the Magicbit package, select the winding number of the stepper motor to control the winding number of the stepper motor each time it runs. The first white triangle symbol of the program block is used to select the pin connected to the stepper motor, and the second white triangle symbol is used to select the winding number of each turn

Section 5. Magicbit control stepper motor

3、Block programming

2. When the machine is started, the smiley face will be displayed and the program blocks controlling the stepper motor will be executed in an infinite loop. The stepper motor connected to STPM1 pin will rotate 1/4 turn each time it is run

Section 5. Magicbit control stepper motor



Download experience

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

Section 5. Magicbit control stepper motor

Did your program work ???

Can you control the stepper motor by a button? Use your imagination and start creating!