

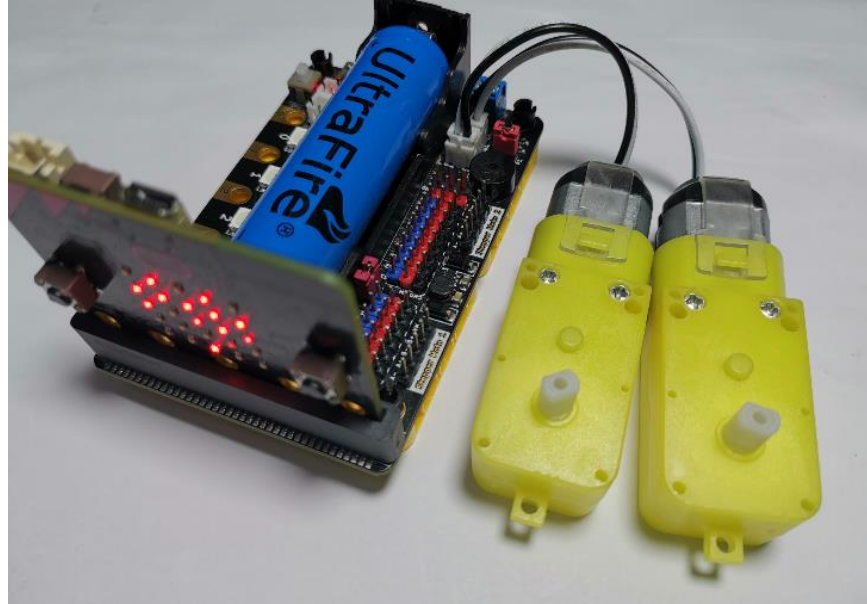
Section 3. Magicbit control of dc motor

1、 Achieve the goal

2、 Preparation before class

3、 Block programming

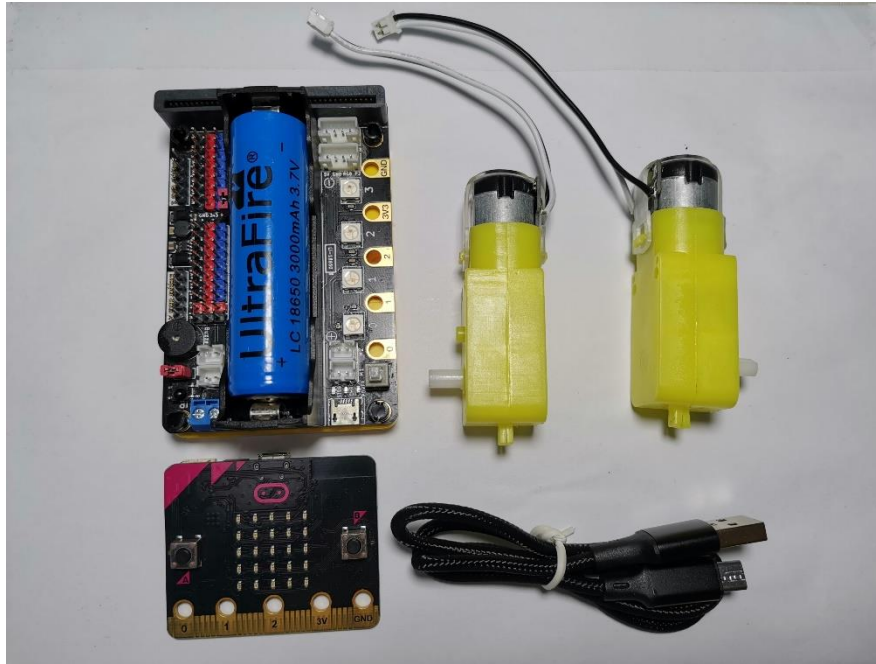
Section 3. Magicbit control of dc motor



1、 achieve the goal

The microbit motherboard is used to drive the dc motor through the Magicbit extension, which speeds up when button A is pressed. When button B is pressed, the motor speed slows down

Section 3. Magicbit control of dc mot

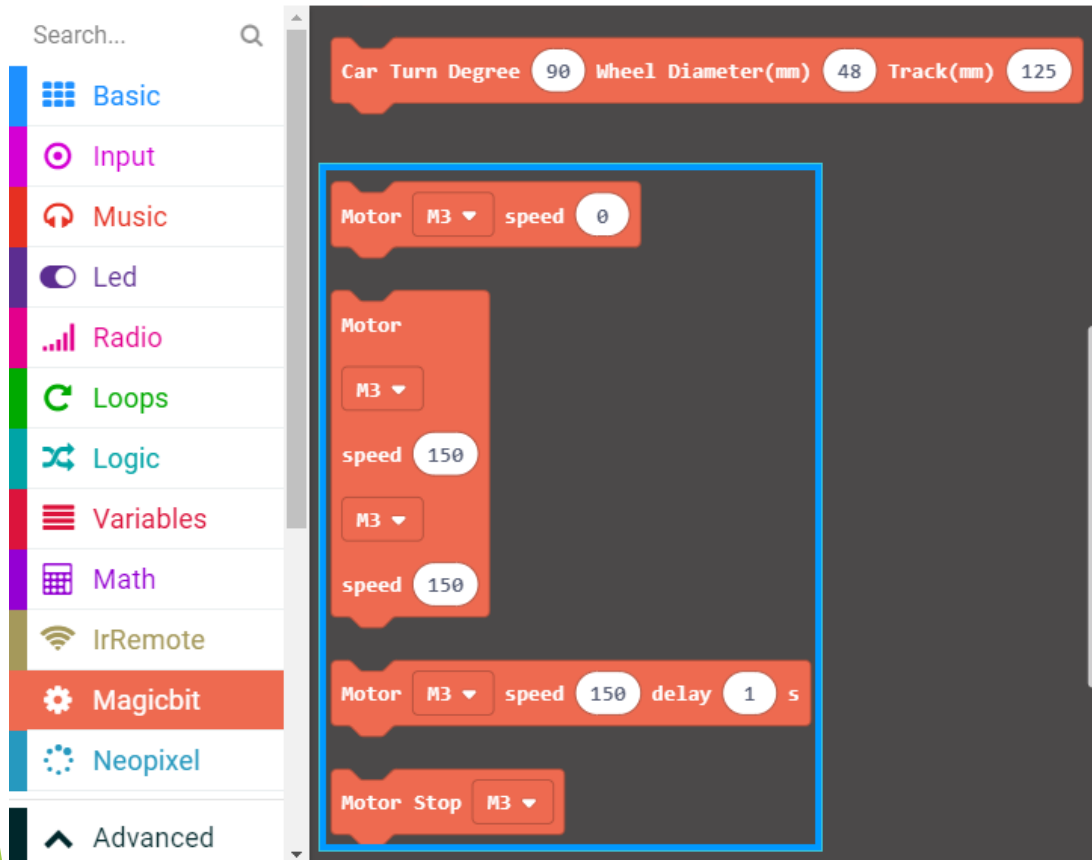


2. preparation before class

prepare a microbit motherboards, a Magicbit extension, a USB cable, a computer, and two dc motors

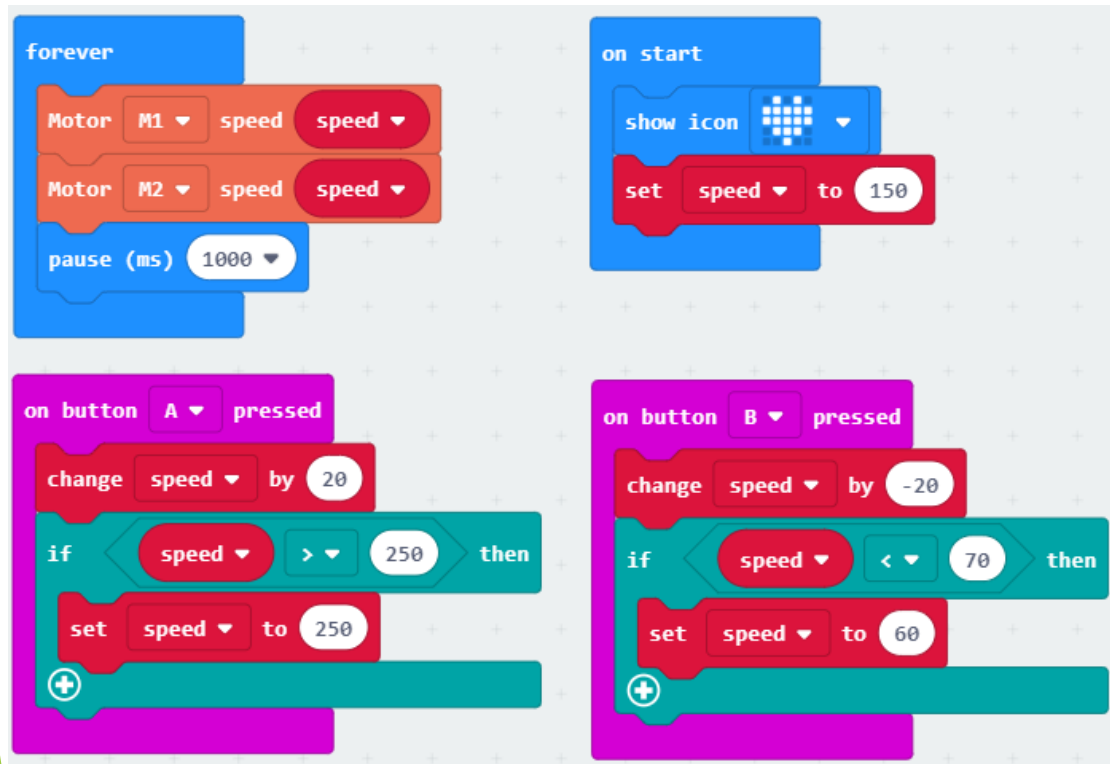
3、block programming

1. In the Magicbit package, motor speed program blocks can control the operation of a single motor. White triangle symbol program blocks are used to select motor connection pins.



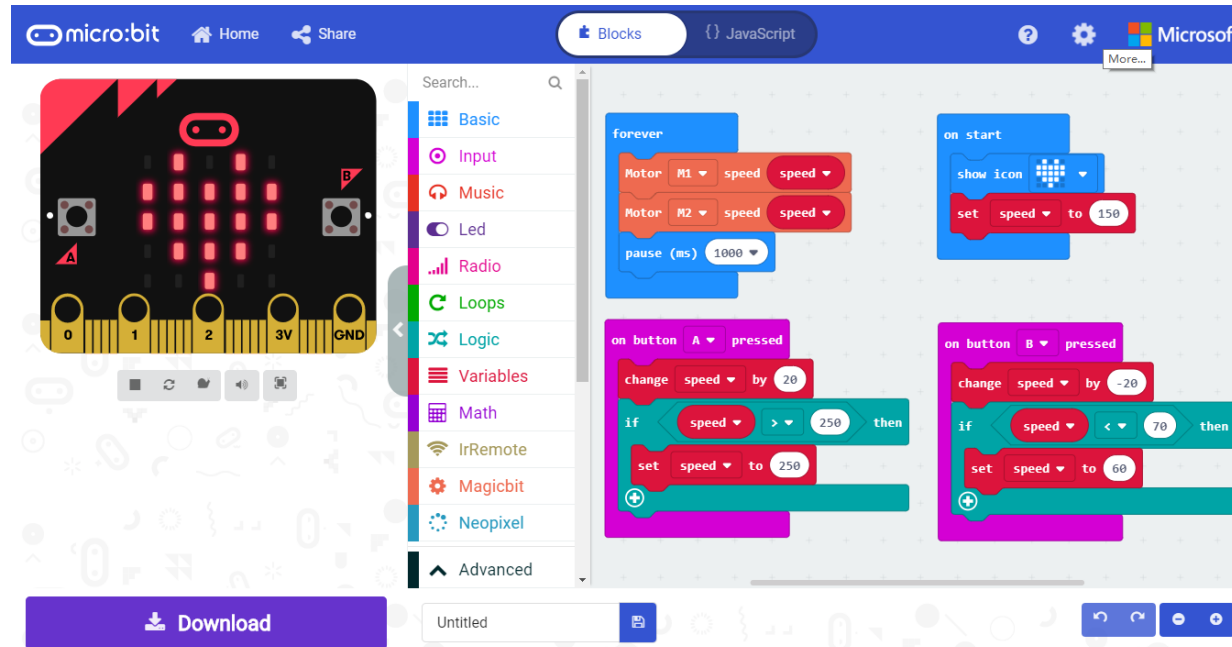
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3、block programming



2. When starting up, display A heart pattern, then set the speed variable speed to 150, adjust the speed of the motor in an infinite cycle, and detect whether there is A button pressed at all times. If button A is pressed, increase the speed variable by 20, and if button B is pressed, reduce it by 20. At the same time two judgment statements to control the motor speed at 60~250

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Download
experience

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



Section3. Magicbit control of dc motor

Did your
program
work ???

Can you show the
motor speed on
the screen? Use
your imagination
and start creating!