Adjust Speed

Learning goals

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

Code

```
from microbit import *

import microbit
import superbit

display.show(Image.HAPPY)
a = 0

def limit_change():
    global a
    if microbit.button_a.is_pressed():
        a = a + 50
        if a > 255:
            a = 255
    if microbit.button_b.is_pressed():
        a = a - 50
        if a < 0:
            a = 0
    return

while True:
    limit_change()
    superbit.motor_control(superbit.M1, a, 0)
    sleep(500)

```

import superbit, microbit library;

display.show (Image.HAPPY): Micro:bit dot matrix display smile pattern;

superbit.motor_control (superbit.M1, 255, 0): M1 is the interface on the super:bit board, speed is 255.

microbit.button_a.is_pressed(): Determine if button A is pressed.

About wiring

We need to connect two building block motors to the **M1** interfaces of the Super:bit expansion board.

7. Experimental phenomena

After the program is successfully downloaded, open the power switch, the building block motor stops; press the micro:bit A button to increase the speed, the maximum speed is 250; press the micro:bit B button to decrease the speed, the lowest speed is 0.

If you need to restart, please press the reset button on the micro: bit board.