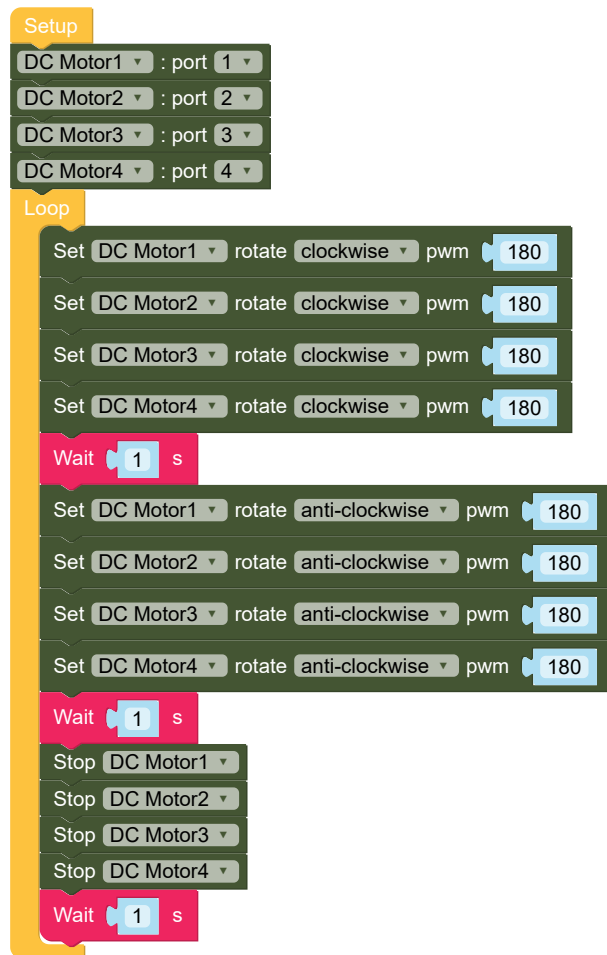


Module DC Motor

Example

Control four DC motors to rotate clockwise for a while, then rotate counterclockwise, and finally stop all motors.



```

from m5stack import *
from m5ui import *
from uiflow import *
import module

import time

setScreenColor(0x111111)

lego_motor = module.get(module.LEGO)
LegoM1 = NXT_Motor(1)
LegoM2 = NXT_Motor(2)
LegoM3 = NXT_Motor(3)
LegoM4 = NXT_Motor(4)
while True:
    lego_motor.M1.set_pwm(180)
    lego_motor.M2.set_pwm(180)
    lego_motor.M3.set_pwm(180)
    lego_motor.M4.set_pwm(180)
    wait(1)
    lego_motor.M1.set_pwm(-180)
    lego_motor.M2.set_pwm(-180)
    lego_motor.M3.set_pwm(-180)
    lego_motor.M4.set_pwm(-180)
    wait(1)
    lego_motor.M1.stop()
    lego_motor.M2.stop()
    lego_motor.M3.stop()
    lego_motor.M4.stop()
    wait(1)
    wait_ms(2)

```

API

Clear DC Motor1 encode

```
lego_motor.M1.encode_clear()
```

- Clears or resets the encoder value associated with the DC motor. Encoder values are typically used to track the motor's rotational position.

Read DC Motor1 encode

```
lego_motor.M1.encoder_read()
```

- Reads the encoder value of the DC motor. The encoder value is usually returned as an integer, representing the angle or steps the motor has rotated.

Set DC Motor1 rotate clockwise pwm 0

```
lego_motor.M1.set_pwm(0)
```

- Sets the rotation direction and PWM (Pulse Width Modulation) value of the DC motor. The direction can be set to clockwise or counterclockwise, and the PWM value controls the motor's speed, usually ranging from 0 to 255.

Stop DC Motor1

```
lego_motor.M1.stop()
```

- Stops the rotation of the DC motor.