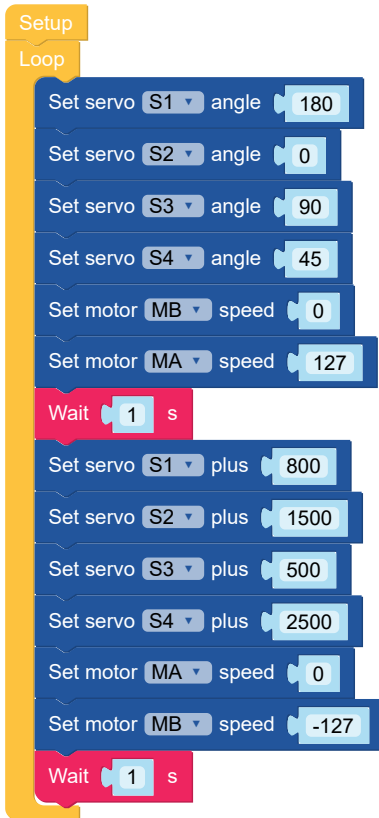


Module13.2 GoPlus2

| Example

Toggle the angle values of 4 servos every second, and change the speed and direction of rotation of the motors.



```

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

import time

setScreenColor(0x222222)

go_plus_2 = module.get(module.GOPLUS2)

label1 = M5TextBox(0, 81, "btnA: Set up Servo and MA", lcd.FONT_UNICODE, 0x19fe46,
rotate=0)
label2 = M5TextBox(0, 123, "btnB: Set up Servo and MB", lcd.FONT_UNICODE, 0xfe6019,
rotate=0)
title0 = M5Title(title="GoPlus 2", x=125, fgcolor=0xFFFFFF, bgcolor=0x0000FF)

def buttonA_wasPressed():
    # global params
    pass
btnA.wasPressed(buttonA_wasPressed)

def buttonB_wasPressed():
    # global params
    pass
btnB.wasPressed(buttonB_wasPressed)

while True:
    go_plus_2.set_servo_angle(go_plus_2.S1, 180)
    go_plus_2.set_servo_angle(go_plus_2.S2, 0)
    go_plus_2.set_servo_angle(go_plus_2.S3, 90)
    go_plus_2.set_servo_angle(go_plus_2.S4, 45)
    go_plus_2.set_motor_speed(go_plus_2.MB, 0)
    go_plus_2.set_motor_speed(go_plus_2.MA, 127)
    wait(1)
    go_plus_2.set_servo_plus(go_plus_2.S1, 800)
    go_plus_2.set_servo_plus(go_plus_2.S2, 1500)
    go_plus_2.set_servo_plus(go_plus_2.S3, 500)
    go_plus_2.set_servo_plus(go_plus_2.S4, 2500)
    go_plus_2.set_motor_speed(go_plus_2.MA, 0)
    go_plus_2.set_motor_speed(go_plus_2.MB, (-127))
    wait(1)
    wait_ms(2)

```

| API

Analog read PB1 ▾

```
go_plus_2.analog_read(go_plus_2.PB1)
```

- Read the analog value of the pin. Returns an analog value representing the voltage.

Digital read PB1 ▾

```
go_plus_2.digital_read(go_plus_2.PB1)
```

- Read the digital value of the pin. Returns a digital value representing the high or low state.

Digital write PB1 ▾ 0 ▾

```
go_plus_2.digital_write(go_plus_2.PB1, 0)
```

- Set the pin to digital output 0 (low level).

Set motor MA ▾ speed 0

```
go_plus_2.set_motor_speed(go_plus_2.MA, 0)
```

- Set the motor speed. The speed value can be positive or negative, used to control the motor's speed and direction.

Set servo S1 ▾ angle 0

```
go_plus_2.set_servo_angle(go_plus_2.S1, 0)
```

- Set the angle of servo S1 to 0. The angle value can be within the servo's range and is used to control the servo's position.

Set servo S1 ▾ plus 500

```
go_plus_2.set_servo_plus(go_plus_2.S1, 500)
```

- Adjust the position of the servo by increasing the specified increment value (PWM).