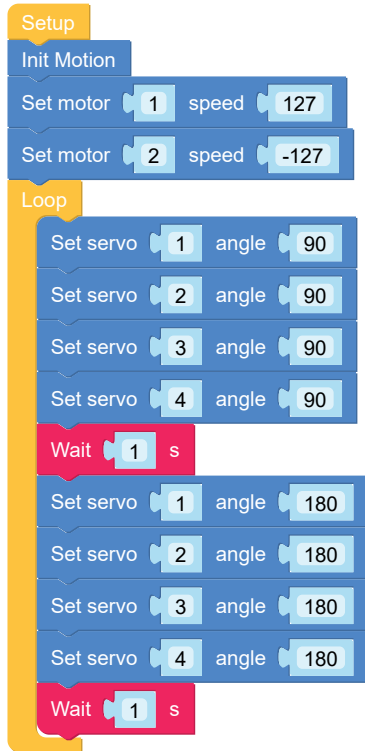


Atomic Motion Base

| Example

Realize the continuous rotation of the motor and the periodic swing of the servo



```
from m5stack import *
from m5ui import *
from uiflow import *
from base.Motion import Motion
import time

motion = Motion()
motion.set_motor_speed(1, 127)
motion.set_motor_speed(2, -127)
while True:
    motion.set_servo_angle(1, 90)
    motion.set_servo_angle(2, 90)
    motion.set_servo_angle(3, 90)
    motion.set_servo_angle(4, 90)
    wait(1)
    motion.set_servo_angle(1, 180)
    motion.set_servo_angle(2, 180)
    motion.set_servo_angle(3, 180)
    motion.set_servo_angle(4, 180)
    wait(1)
    wait_ms(2)
```

Init Motion

```
from base.Motion import Motion
motion = Motion()
```

- Initialize Atomic Motion.

Set motor speed

```
motion.set_motor_speed(ch, speed)
```

- Control DC motor speed::
 - ch: 1-2
 - speed: -127 ~ +127, with 0 to stop.

Get motor speed

```
motion.get_motor_speed(ch)
```

- Get the DC motor speed configuration:
 - ch: 1-2

Set servo angle

```
motion.set_servo_angle(ch, angle)
```

- Control the servo rotation angle
 - ch: 1-4
 - angle: 0-180

Get servo angle

```
motion.get_servo_angle(ch)
```

- Get the servo rotation angle:
 - ch: 1-4

Set servo pulse

```
motion.set_servo_pulse(ch, pulse)
```

- Control the servo pulse time (us):
 - ch: 1-4
 - pulse: 500-2500



```
motion.get_servo_pulse(ch)
```

- Get the servo pulse time (us):
 - ch: 1-4