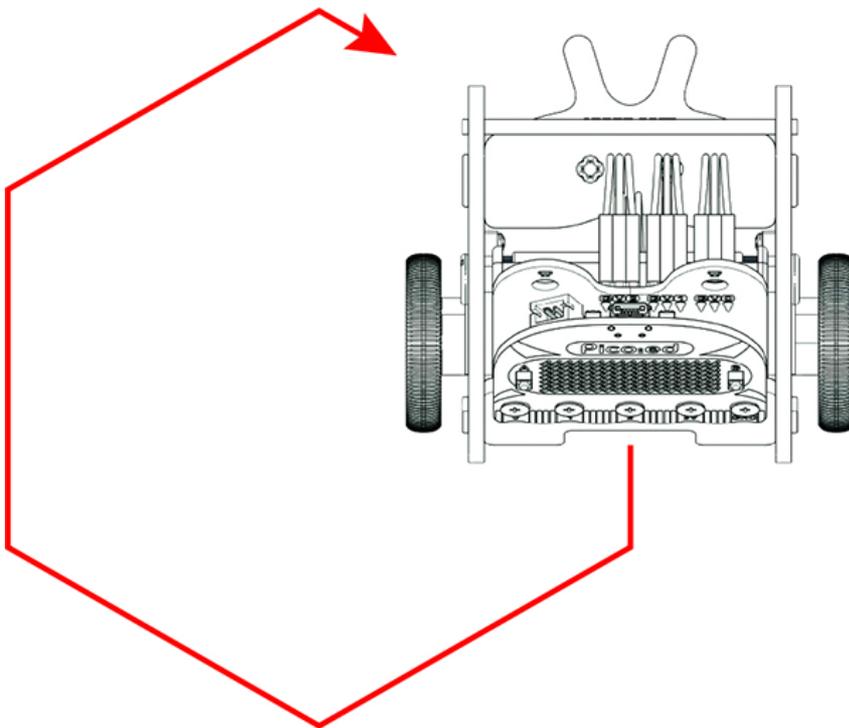


Case 02: Make A Shape

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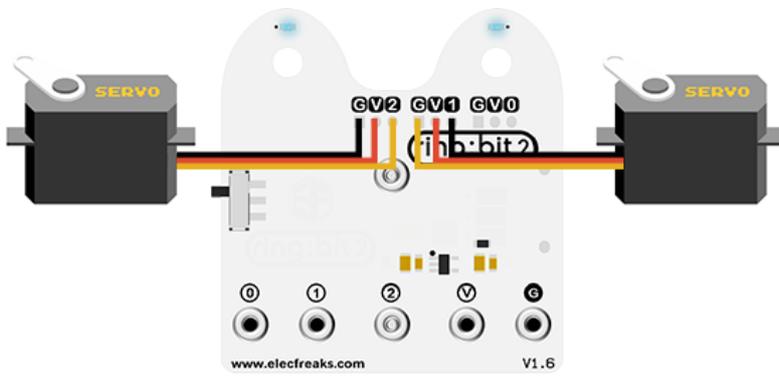


10.1. Introduction

Hi, after the learn of the first lesson, I am sure you understand the programming for [Ring:bit](#) car in a quite simple way, let's move on by making the car run along with a shape.

10.2. Hardware Connection

Just as what we do in the first lesson, connect the left wheel servo to P1 of the [Ring:bit](#) expansion board and the right wheel servo to P2.



10.3. Software Programming

You should prepare the programming platform ready, if not, please can refer to this essay:

[Preparation for programming](#)

Sample Projects

```
# Import the modules that we need
import board
from ringbit import *
from picoed import *
from time import *

# Set the pins of the servos
ringbit = Ringbit(board.P2, board.P1)

# While true, set the [Ring:bit]
(https://shop.electfreaks.com/products/electfreaks-pico-ed-ring-bit-v2-car-kit-with-pico-ed-board?pos=2&sid=18032a345&ss=r) car run along with a square-like routine
while True:
    ringbit.set_speed(-100, -100)
    sleep(1.5)
    ringbit.set_speed(-50, 0)
    sleep(1.2)
```

Details of program:

1. Import the modules that we need. `board` is the common container, and you can connect the pins you'd like to use through it; `ringbit` module contains classes and functions for [Ring:bit](#) smart car operation; `picoed` module contains the operation functions to button A/B and `time` module contains the operation functions to time.

```
import board
from ringbit import *
from picoed import *
from time import *
```

2. Set the pins of the servos.

```
ringbit = Ringbit(board.P2, board.P1)
```

3. Set the [Ring:bit](#) car run along with a square-like routine.

```
while True:
    ringbit.set_speed(-100, -100)
    sleep(1.5)
    ringbit.set_speed(-50, 0)
    sleep(1.2)
```

10.4. Result

The car runs along with a square-like routine.



10.5. Exploration

If we want the [Ring:bit](#) car to travel with a square pentagon routine, how can we program it?

10.6. FAQ

10.7. Relevant Files