Case 05: Crazy Dance

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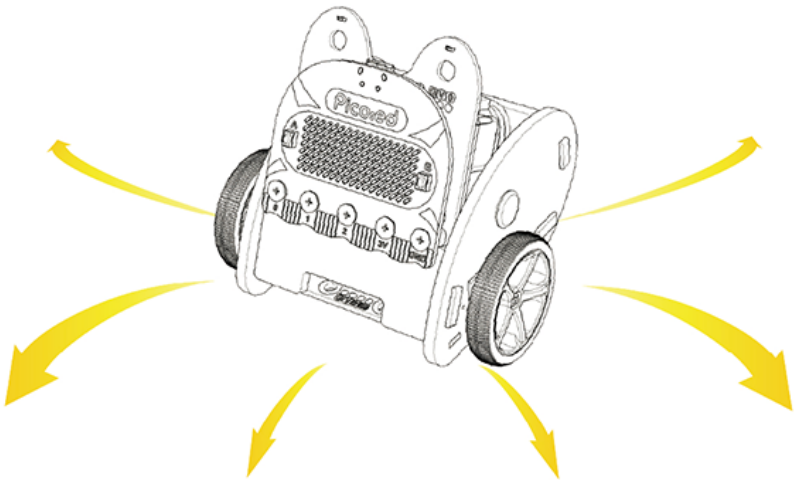


13.1. Introduction

Hello, the Ring:bit car is a powerful kit that can do a lot of things after the 4 former cases, here we will do a relatively simple thing, which is to make a dance car.

13.2. Hardware Connection

Connect the left wheel servo to P1 of the Ring:bit expansion board and the right wheel servo to P2.

13.3. 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 random import *
from ringbit import *

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

# Set the speed value of the both wheels as the random value among (-100,
100)
while True:
    left_wheel = randint(-100, 100)
    right_wheel = randint(-100, 100)
    ringbit.set_speed(left_wheel, right_wheel)
```

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 and the `random` module contains functions to generate random numbers.

```
import board
from random import *
from ringbit import *
```

2.Set the pins of the servos

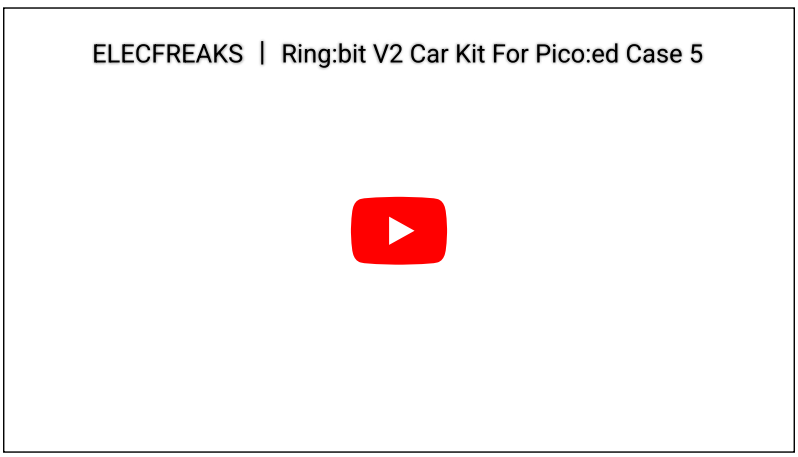
```
ringbit = Ringbit(board.P2, board.P1)
```

3.Set the speed value of the both wheels as the random value among (-100， 100)

```
while True:
    left_wheel = randint(-100, 100)
    right_wheel = randint(-100, 100)
    ringbit.set_speed(left_wheel, right_wheel)
```

13.4. Result

The car runs at different speed.



13.5. Exploration

Design a set of the actions for Ring:bit car with your ideas.

13.6. FAQ

13.7. Relevant Files

By ELECFREAKS Team