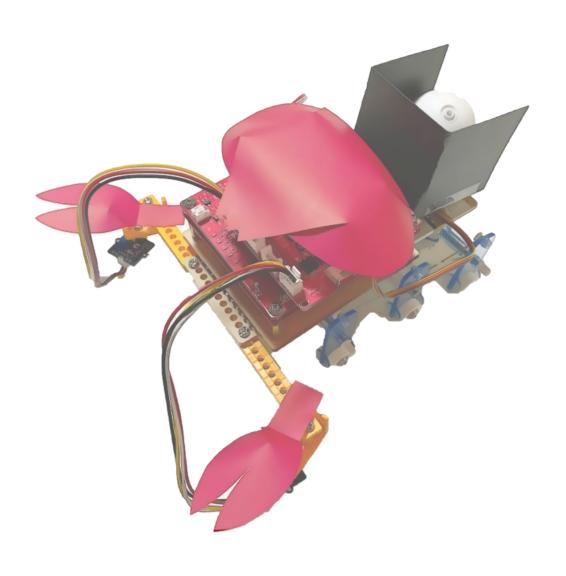
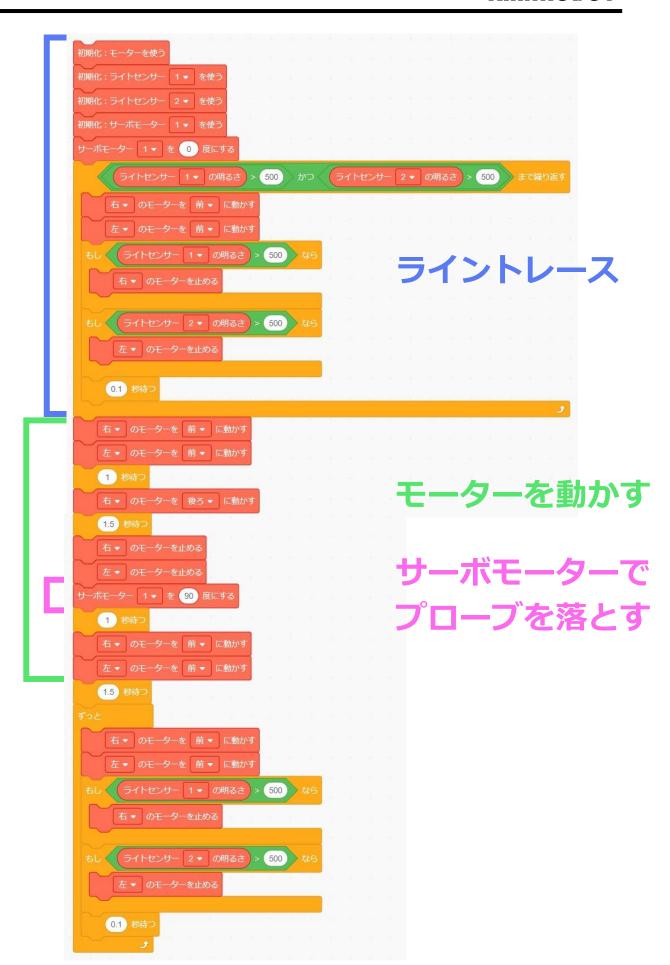
KANIROBOT

サンプルプログラム





71 9

```
motorEn = GPIO.new(12, GPIO::OUT)
   motorEn.on()
 3 m1 = GPIO.new(25, GPIO::OUT)-
 4 m1_pwm = PWM.new(26, ch=0)-
 5 m2 = GPIO.new(32, GPIO::OUT) -
 6 m2_pwm = PWM.new(33, ch=1)-
 8 lux36 = ADC.new(36, ADC::ATTEN_11DB, ADC::WIDTH_12BIT)-
10 lux34 = ADC.new(34, ADC::ATTEN_11DB, ADC::WIDTH_12BIT) -
11
12 servo27 = PWM.new(27, ch=3)
13 servo27.freq(50)-
14 servo27.duty(0)
15
16 servo27.duty((((0.to_f - 90.0) * \cdot 0.95 / 90.0 + 1.45) / \cdot 20.0 * \cdot 1024).to_i)
17 sleep(0.8)-
18 - until·lux36.rawread -> -500 -&& ·lux34.rawread -> -500 ·do-
   -- m1_pwm.duty(500)-
20 -- m1.on()-
                                                    ライントレース
21 sleep(0.01)-
22 -- m2_pwm.duty(500)-
23 ··m2.on()-
24 ··sleep(0.01)-
25 - · if · lux36.rawread -> · 500-
26 --- m1_pwm.duty(0)-
27 ··end-
28 - if lux34.rawread > 500-
29 -- m2_pwm.duty(0)-
30
   · · end-
   ··sleep(0.1)¬
31
32 end-
33 m1_pwm.duty(500)-
34 m1.on()-
35 sleep(0.01)-
                                                    モーターを動かす
36 m2_pwm.duty(500) = 37 m2.on() =
38 sleep(0.01)-
39 sleep(1)-
40 m1_pwm.duty(500)-
41 m1.off()-
42 sleep(0.01) -
43 sleep(1.5) -
44 m1_pwm.duty(0) -
45 m2_pwm.duty(0)-
46 servo27.duty((((90.to_f--90.0)-*-0.95-/-90.0-+-1.45)-/-20.0-*-1024).to_i)-
47 sleep(0.8)-
                                                    サーボモーターで
48 sleep(1)-
49 m1_pwm.duty(500)-
50 m1.on()-
                                                    プローブを落とす
51 sleep(0.01)-
52 m2_pwm.duty(500)
53 m2.on()-
54 sleep(0.01)-
55 sleep(1.5)-
56 - while true do-
57
   --m1_pwm.duty(500)-
58 ·· m1.on()-
59 -- sleep(0.01)-
60 m2_pwm.duty(500)-
61 m2.on()-
62 sleep(0.01)-
63 - · if lux36.rawread > 500-
64 --- m1_pwm.duty(0)-
65 ··end-
66 - if lux34.rawread > 500-
67 --- m2_pwm.duty(0)-
68 -- end-
69 ··sleep(0.1)-
70 end-
```



```
motorEn = GPIO.new(12, GPIO::OUT)-
 2
   motorEn.on-
 3 motor25 = GPIO.new(25, GPIO::OUT)-
 4 motor26 pwm = PWM.new(26, ch=0)
 5 motor32 = GPIO.new(32, GPIO::OUT)
 6 motor33 pwm = PWM.new(33, ch=1)-
7 lux36 = ADC.new(36, ADC::ATTEN_11DB, ADC::WIDTH_12BIT) -
8 lux34 = ADC.new(34, ADC::ATTEN_11DB, ADC::WIDTH_12BIT)-
9 servo27 = PWM.new(27, ch=3)-
10 servo27.freq(50)-
11 motor25.on-
12 motor32.on-
13 servo27.duty((((0.to_f--90.0) * 0.95 / 90.0 + 1.45) / 20.0 * 1024).to_i)-
14 - until·lux36.rawread > - 500 - && ·lux34.rawread > - 500 · do-
15 - motor26_pwm.duty(500)
                                                ライントレース
16 - motor33 pwm.duty(500)-
17 - · if · lux36.rawread · > · 500-
18 ··· motor26_pwm.duty(0)
20 - - if lux34.rawread > 500-
21 motor33_pwm.duty(0)
22 · · end-
23 -- sleep(0.1)-
24 end-
                                               モーターを動かす
25 motor26 pwm.duty(500)
26 motor33_pwm.duty(500)-
27 sleep(1)-
28 motor25.off-
29 sleep(1.5)-
30 motor26_pwm.duty(0)
31 motor33_pwm.duty(∅)¬
32 servo27.duty((((90.to_f--90.0) * 0.95 / 90.0 + 1.45) / 20.0 * 1024).to_i)-
33 sleep(1)-
                                               サーボモーターで
34 motor25.on-
35 motor26 pwm.duty(500)-
36 motor33_pwm.duty(500)-
                                                プローブを落とす
37 sleep(1.5)-
38 - while true do-
39 motor26_pwm.duty(500)-
40 motor33 pwm.duty(500)-
41 - · if · lux36.rawread > 500-
42 --- motor26 pwm.duty(0)
43 ··end-
44 - · if · lux34.rawread · > 500-
45
   --- motor33 pwm.duty(0)-
46
   · · end-
47 · sleep(0.1)-
48 end-
49
```