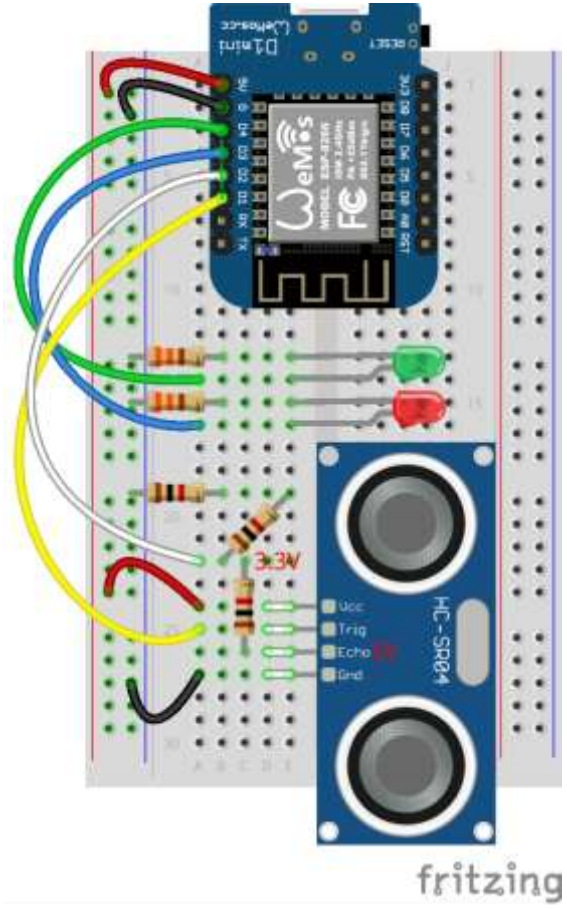
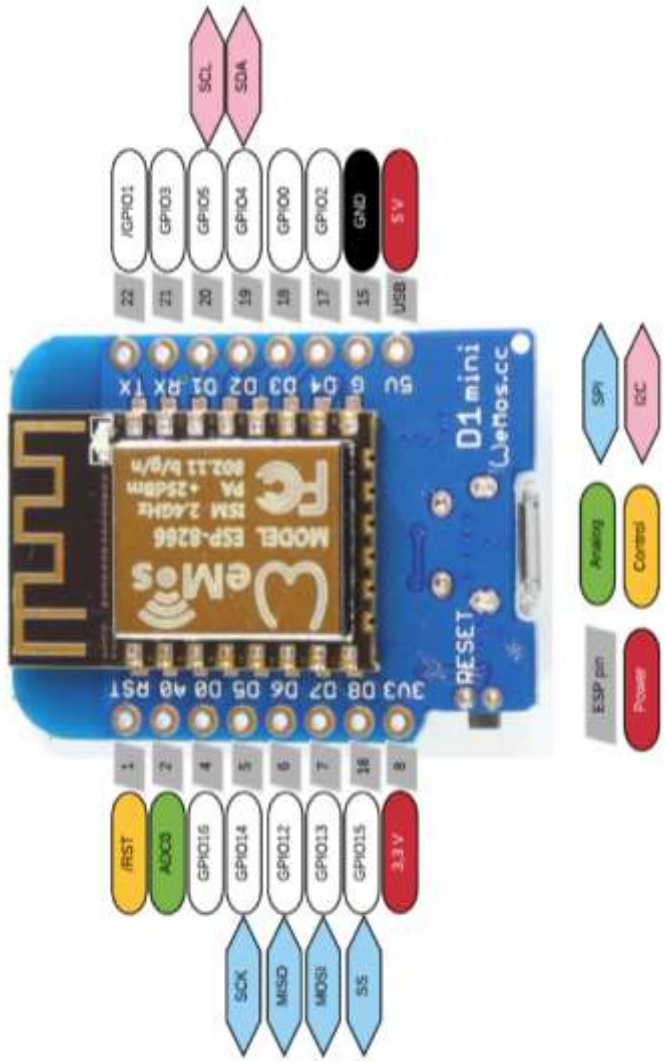
parking radar




```
1   from machine import Pin
2   from time import sleep_ms
3
4   from board_manager import * # D1 to D8
5   from sensor_manager import Sensor_HCSR04
6
7   green = Pin( D4, Pin.OUT, value=0 )
8   red = Pin( D3, Pin.OUT, value=0 )
9
10  sensor = Sensor_HCSR04( trigger = D1, echo = D2 )
11
12  ALERT_DISTANCE = 10
13  loops = 10000//50
14  while loops:
15    sensor.read()
16    d = sensor.distance_cm
17    if d < ALERT_DISTANCE:
18      green.on()
19      red.off()
20    else:
21      green.off()
22      red.on()
23
24    sleep_ms( 50 )
25    loops = loops - 1 # comment this line to run forever
```

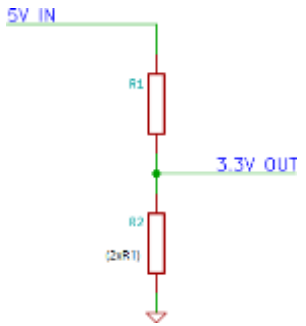
https://github.com/jpedrodias/MicroPython

WEMOS D1 MINI – PINOUT

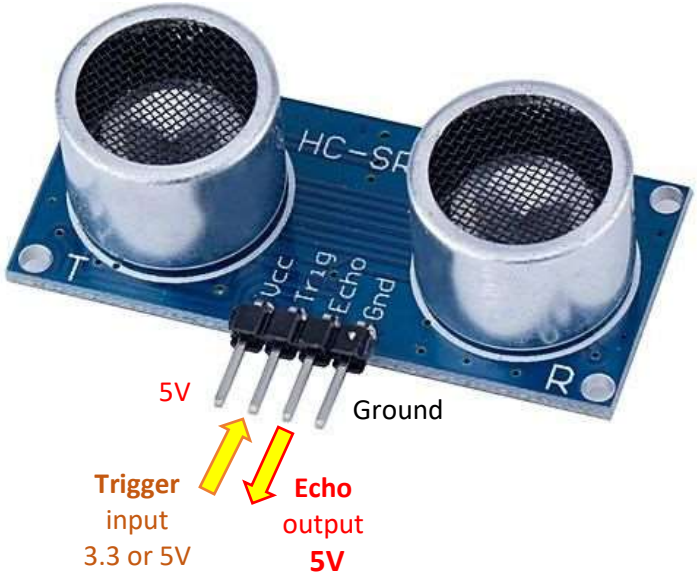


GPIO15	GPIO0	GPIO2	Mode	Description
L	L	H	UART	Download code from UART
L	H	H	Flash	Boot from SPI Flash
H	x	x	SDIO	Boot from SD-card

Voltage divider



Ultrasonic Distance Sensor (HC-SR04)



https://github.com/jpedrodias/MicroPython