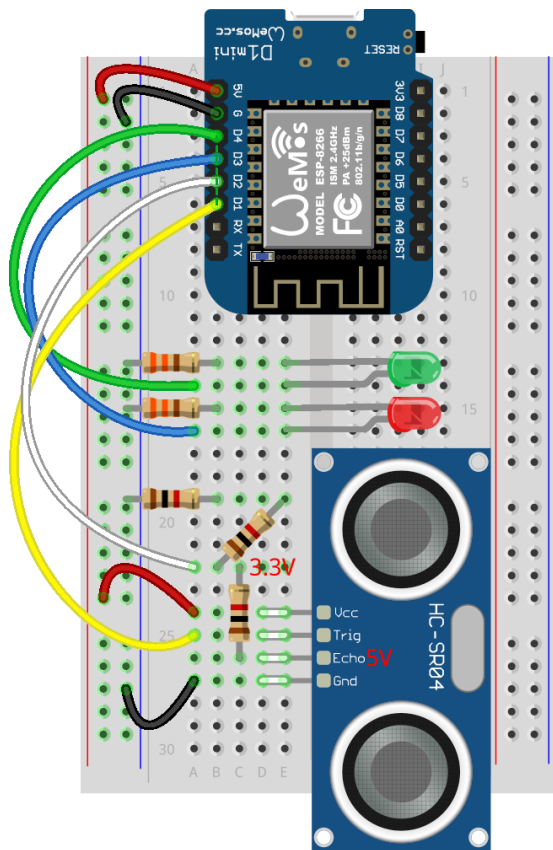


parking radar



fritzing

```
1  from machine import Pin
2  from time import sleep_ms
3
4  D4 = 2 # to connect to the green led
5  D3 = 0 # to connect to the red led
6  D2 = 4 # to connect to ECHO on HC-SR04
7  D1 = 5 # to connect to TRIGGER HC-SR04
8
9  green = Pin( D4, Pin.OUT, value=0 )
10 red = Pin( D3, Pin.OUT, value=0 )
11
12 # Get it from https://github.com/jpedrodias/MicroPython
13 class HCSR04():
14     #End of HCSR04
15
16 ...
17
18 60 sensor = HCSR04( trigger=D1, echo=D2 )
19
20 61 ALERT_DISTANCE = 10
21 62 loops = 10000//50
22 64 while loops:
23     65     sensor.read()
24     66     obstacle = sensor.distance_cm < ALERT_DISTANCE
25     67     green.value( not obstacle )
26     68     red.value( obstacle )
27     69     sleep_ms( 50 )
28     70     loops = loops - 1 # comment this line to run forever
```

WEMOS D1 MINI – PINOUT

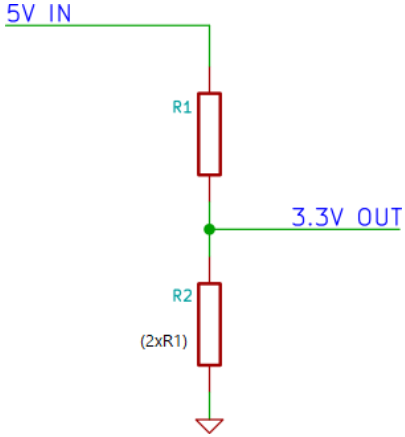
The diagram shows the Wemos D1 Mini board with its pin headers. The top header (pins 1-22) includes: 1 (GND), 2 (5V), 3 (GND), 4 (RX), 5 (TX), 6 (GND), 7 (D4), 8 (D3), 9 (D2), 10 (D1), 11 (RX), 12 (TX), 13 (GND), 14 (D0), 15 (GND), 16 (5V), 17 (GPIO2), 18 (GPIO0), 19 (GPIO4), 20 (GPIO5), 21 (GPIO3), 22 (GPIO1). The bottom header (pins 1-8) includes: 1 (3.3V), 2 (GPIO15), 3 (GPIO13), 4 (GPIO12), 5 (GPIO14), 6 (GPIO16), 7 (ADC0), 8 (RST). The board also features a USB port, a RESET button, and an antenna.

Legend for pin modes:

- Power (Red)
- Control (Yellow)
- Analog (Green)
- SPI (Blue)
- I2C (Pink)

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)

