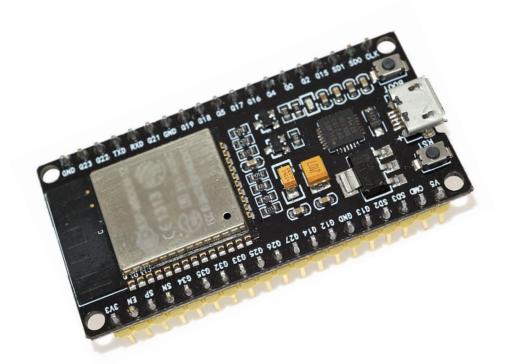
Agenda

Arduino y Protocolo MQTT:

- Manejo avanzado de Arduino
- Sensores, actuadores y microcontroladores
- Taller de conectividad
 - Tracking usando GPS y RFID
 - Bluetooth Low Energy
- Creación de Cliente/Servidor con MQTT
 - Contralando dispositivos mediante MQTT

2

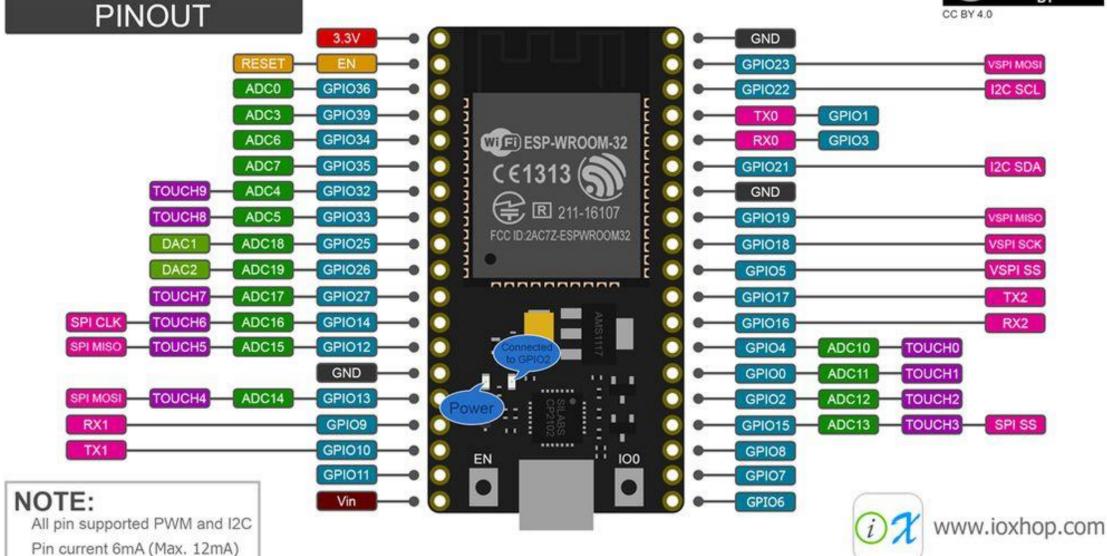
WIFI





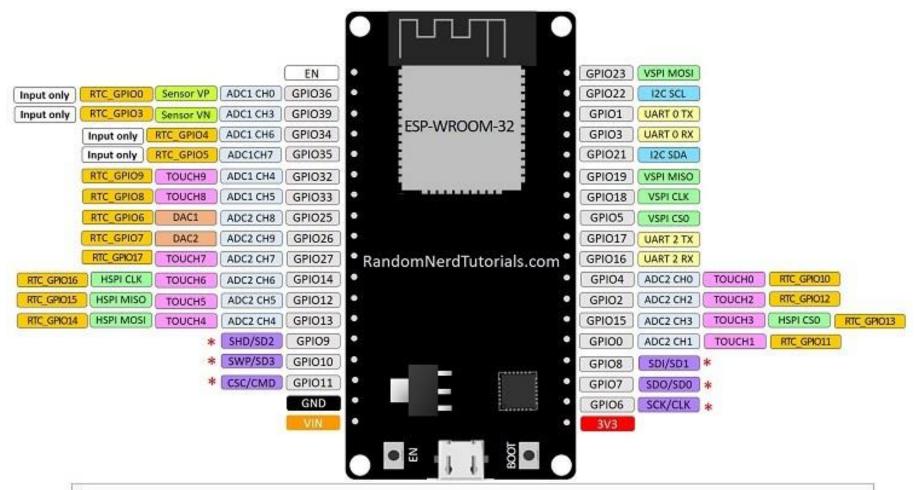
NodeMCU-32S



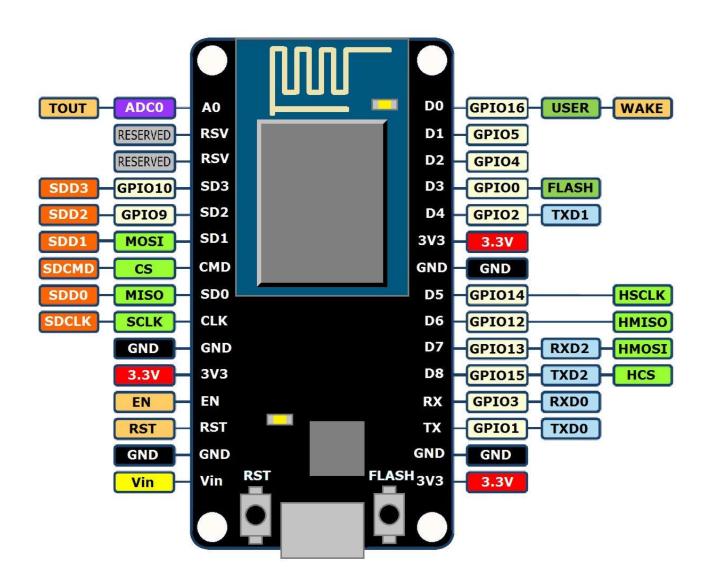


ESP32 DEVKIT V1 - DOIT

version with 36 GPIOs

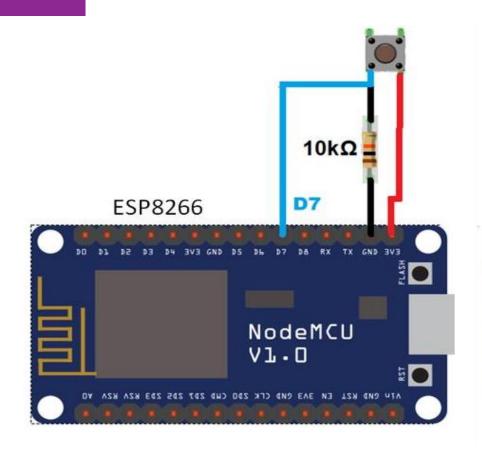


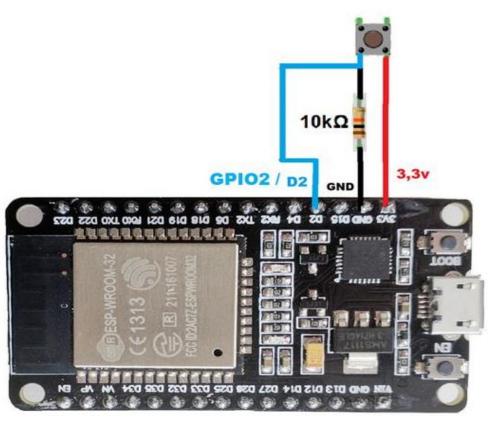
^{*} Pins SCK/CLK, SDO/SD0, SDI/SD1, SHD/SD2, SWP/SD3 and SCS/CMD, namely, GPIO6 to GPIO11 are connected to the integrated SPI flash integrated on ESP-WROOM-32 and are not recommended for other uses.

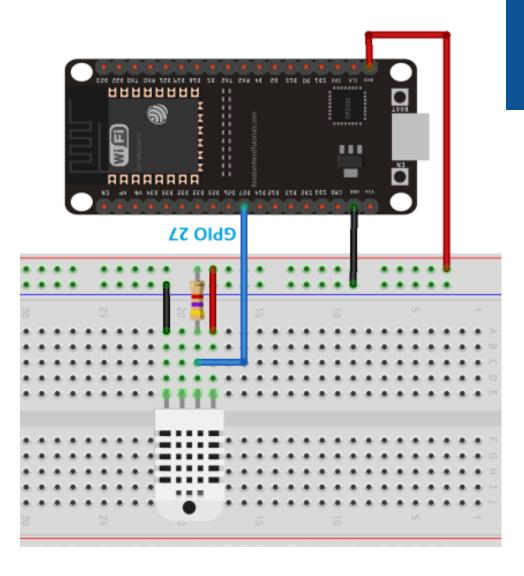


2

AP/Config WIFI







DHT11

2

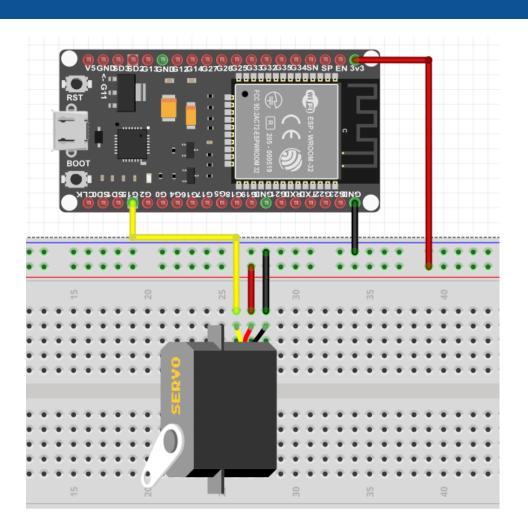
Reto:

Usar el web server para mostrar la información del sensor

Servo

Reto:

Usar la información del sensor para mover el servo



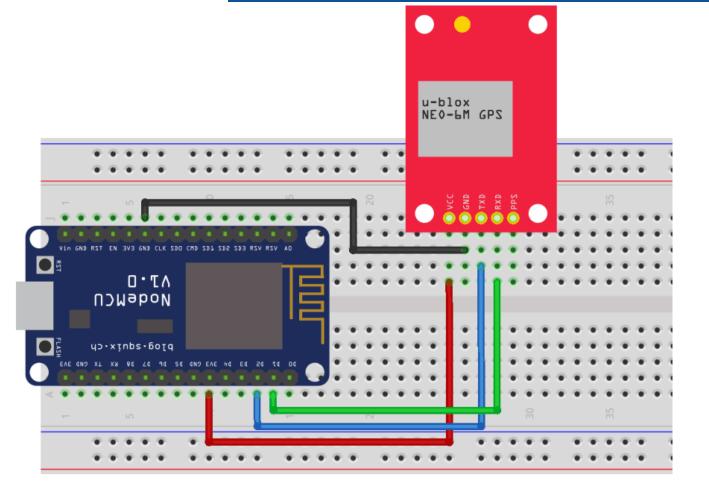
2

Reto:

GPS

Envía la ubicación de tu

dispositivo



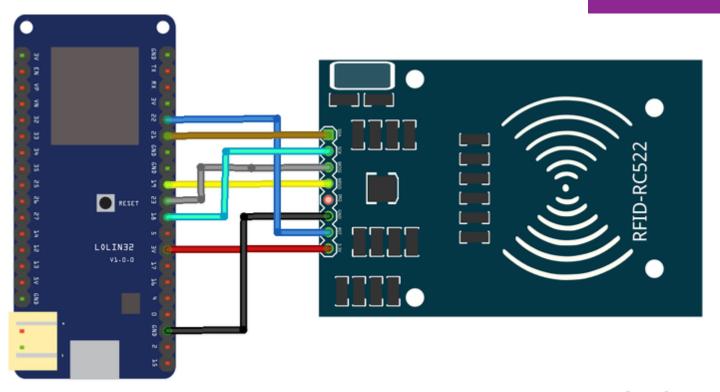
2

RFID

2

Reto:

Obtén información de la tarjeta o el tag



2

Bluetooth Low Energy

