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- **Introducción**

- Cadena de valor de IoT

- **Blynk**

- Aplicación móvil
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- Demo



INTRODUCCIÓN



March 27th
day.arduino.cc
[#ArduinoD21](https://twitter.com/ArduinoD21)

- **Cadena de valor de Internet of Things (IoT)**
 - 50000 millones de dispositivos conectados para 2025



- Dispositivos



ESP8266



ESP32



Raspberry Pi

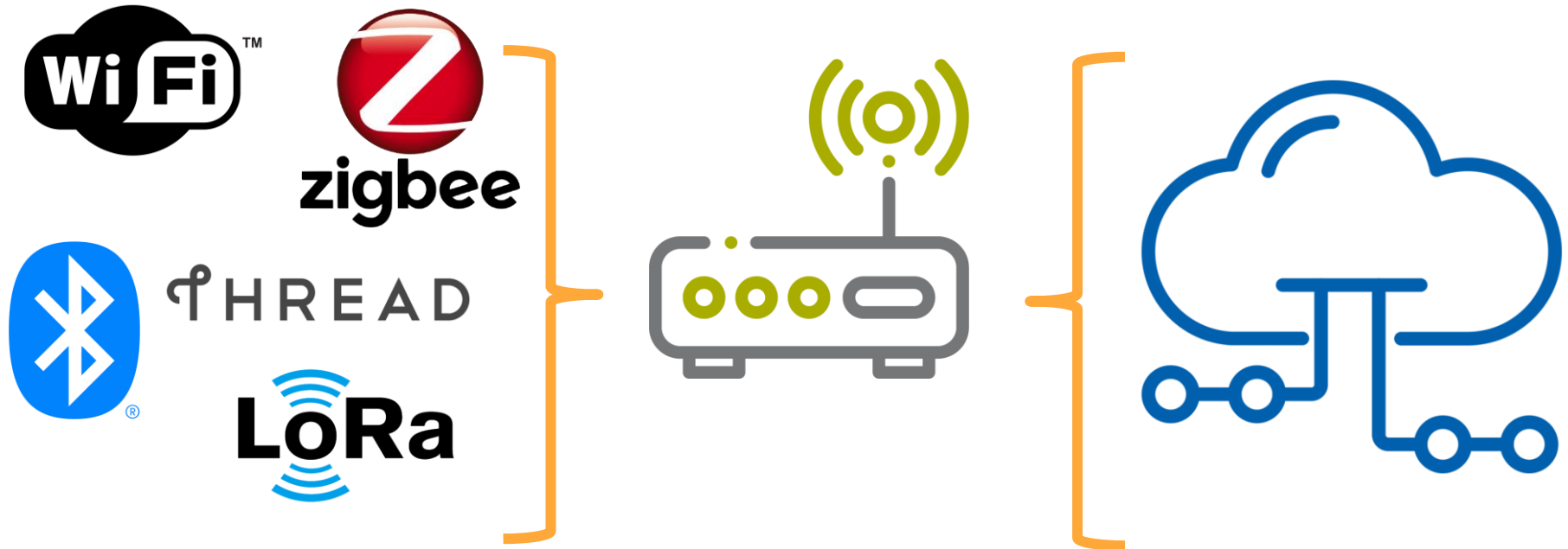


Thunderboard



Arduino Nano 33 IoT

- Pasarelas/*Gateways*



- Plataformas *cloud*

 ThingSpeak

 aws

 Blynk

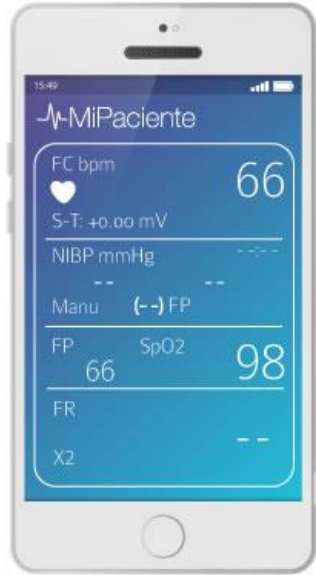
 Azure



 heroku

 ubidots

• Aplicaciones



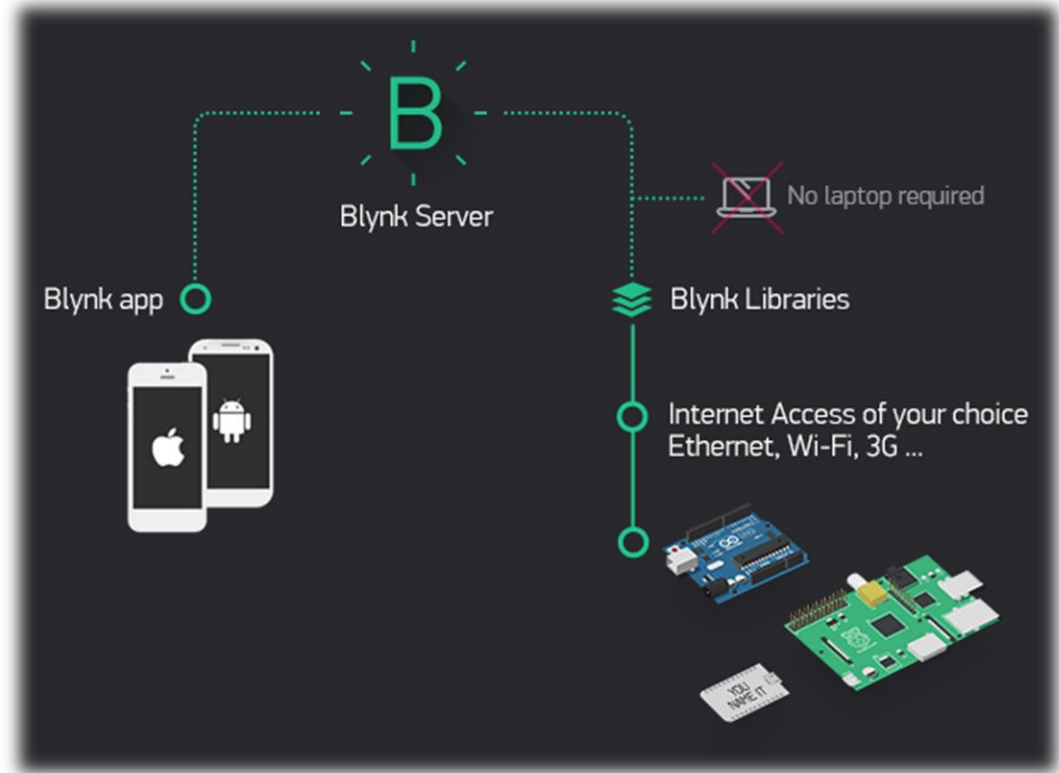
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BLYNK

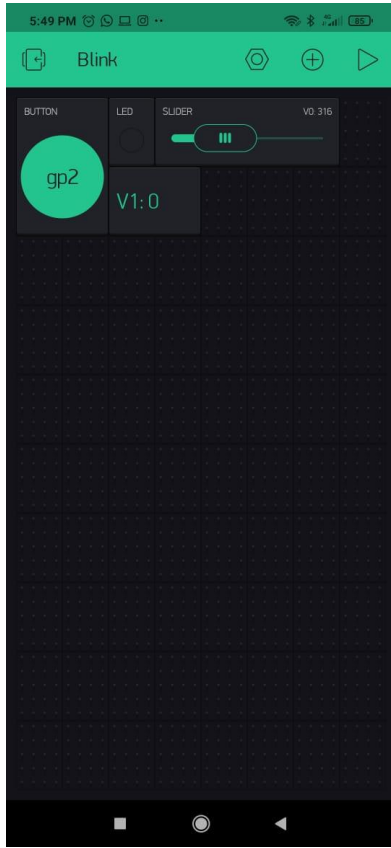


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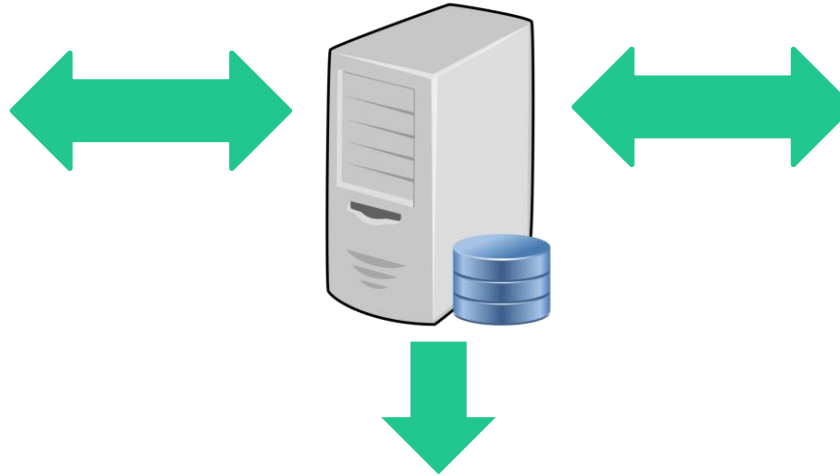
- No se requieren conocimientos previos de HTTP, API REST o bases de datos
 - **Noob proof**
- Rápida construcción de aplicaciones IoT
- Soporte para diferentes plataformas hardware: **ESP32**, ESP8266, RaspBerry PI, Arduino



Fuente: <https://blynk.io/en/getting-started>



 Blynk



```
//Archivos de cabecera
#include <WiFi.h>
#include <WiFiClient.h>
#include <BlynkSimpleEsp32.h>

//Led de usuario del ESP32
#define LED 2

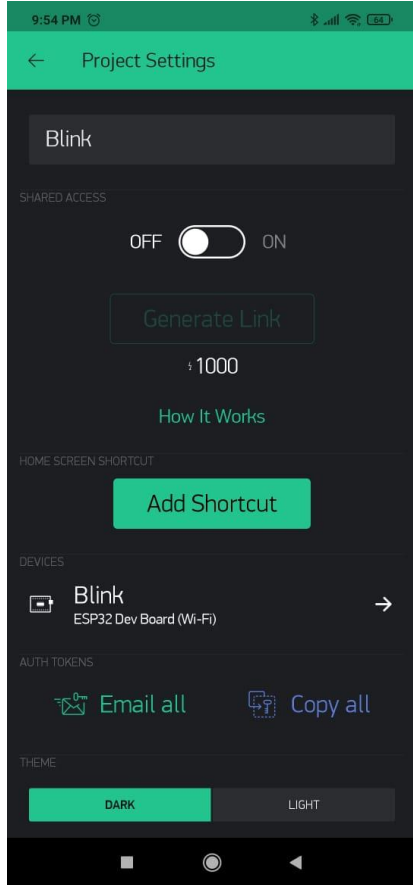
//Pin de entrada analógico
#define AI 34

//Token de la aplicación
char auth[] = "tJTDZhZdQTNAnXH0urINYGnZ_z0XAJSI";

//Credenciales de la red WiFi
char ssid[] = "ALP";
char pass[] = "18399636";
```

Auth Token : tJTDZhZdQTNAnXH0urINYGnZ_z0XAJSI





Auth Token for Blink project and device Blink

Inbox x

Blynk <dispatcher@blynk.io> [Unsubscribe](#)

3:15 PM (6 hours ago)

to me ▾

Auth Token · 9H_AeqFefX_bldxyU-e8QGTGoaCerCb

Happy Blynking!

-

Getting Started Guide -> <https://www.blynk.cc/getting-started>

Documentation -> <http://docs.blynk.cc/>

Sketch generator -> <https://examples.blynk.cc/>

Latest Blynk library -> https://github.com/blynkkk/blynk-library/releases/download/v0.6.1/Blynk_Release_v0.6.1.zip

Latest Blynk server -> <https://github.com/blynkkk/blynk-server/releases/download/v0.41.13/server-0.41.13.jar>

-

<https://www.blynk.cc>

twitter.com/blynk_app

www.facebook.com/blynkapp

• Bibliotecas para Blynk

C++

The most popular library for:

- Arduino boards
- ESP8266, ESP32
- Raspberry Pi
- SparkFun boards
- Adafruit boards

Install

Python

Python 2, 3, MicroPython

Runs on Linux, Windows, or
MacOS

Install

JavaScript

Works with Browsers, Node.js,
Espruino, Raspberry Pi

Runs on Linux, Windows, or
MacOS

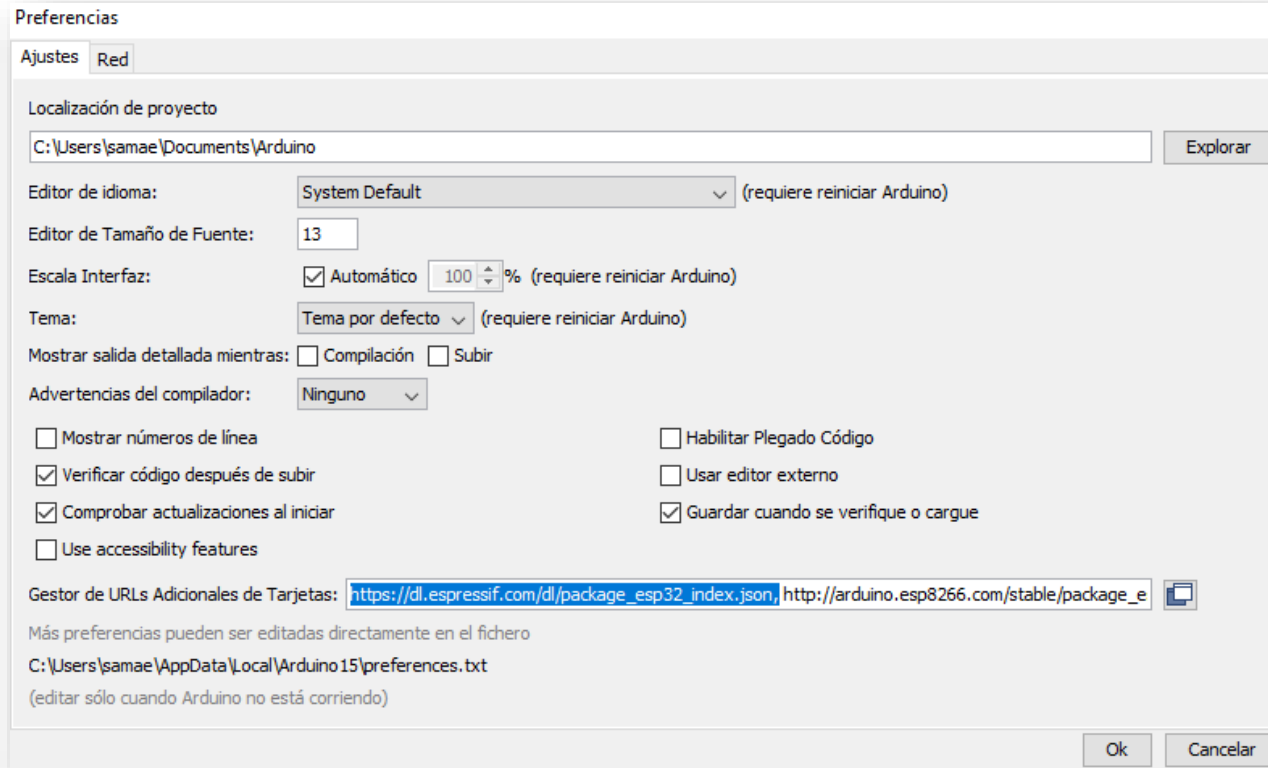
Install

3rd party libraries

Particle
Node-RED
LUA
MBED
LabView

Learn more

Fuente: <https://blynk.io/en/getting-started>



https://dl.espressif.com/dl/package_esp32_index.json

```
//Archivos de cabecera
#include <WiFi.h>
#include <WiFiClient.h>
#include <BlynkSimpleEsp32.h>
#include <ESP32Servo.h>

//Led de usuario del ESP32
#define LED 2

//Pin de entrada analógico
#define AI 34

//Token de la aplicación
char auth[] = "tJTDZhZdQTNAnXH0urINYGnZ_z0XAJSI";
```

Blynk

by **Volodymyr Shymanskyi** Versión **0.6.1** **INSTALLED**

Build a smartphone app for your project in minutes! It supports WiFi, BLE, Bluetooth, Ethernet, GSM, USB, Serial. Works with many boards like ESP8266, ESP32, Arduino UNO, Nano, Due, Mega, Zero, MKR100, Yun, Raspberry Pi, Particle, Energia, ARM mbed, Intel Edison/Galileo/Joule, BBC micro:bit, DFRobot, RedBearLab, Microduino, LinkIt ONE ...

[More info](#)

Seleccione versión ▾

Instalar

WiFi

Built-In by **Arduino** Versión **1.2.7** **INSTALLED**

Enables network connection (local and Internet) using the Arduino WiFi shield. For all Arduino boards. With this library you can instantiate Servers, Clients and send/receive UDP packets through WiFi. The shield can connect either to open or encrypted networks (WEP, WPA). The IP address can be assigned statically or through a DHCP. The library can also manage DNS.

[More info](#)

Seleccione versión ▾

Instalar

ESP32Servo

by **Kevin Harrington, John K. Bennett**

Allows ESP32 boards to control servo, tone and analogWrite motors using Arduino semantics. This library can control a many types of servos.

It makes use of the ESP32 PWM timers: the library can control up to 16 servos on individual channels
No attempt has been made to support multiple servos per channel.

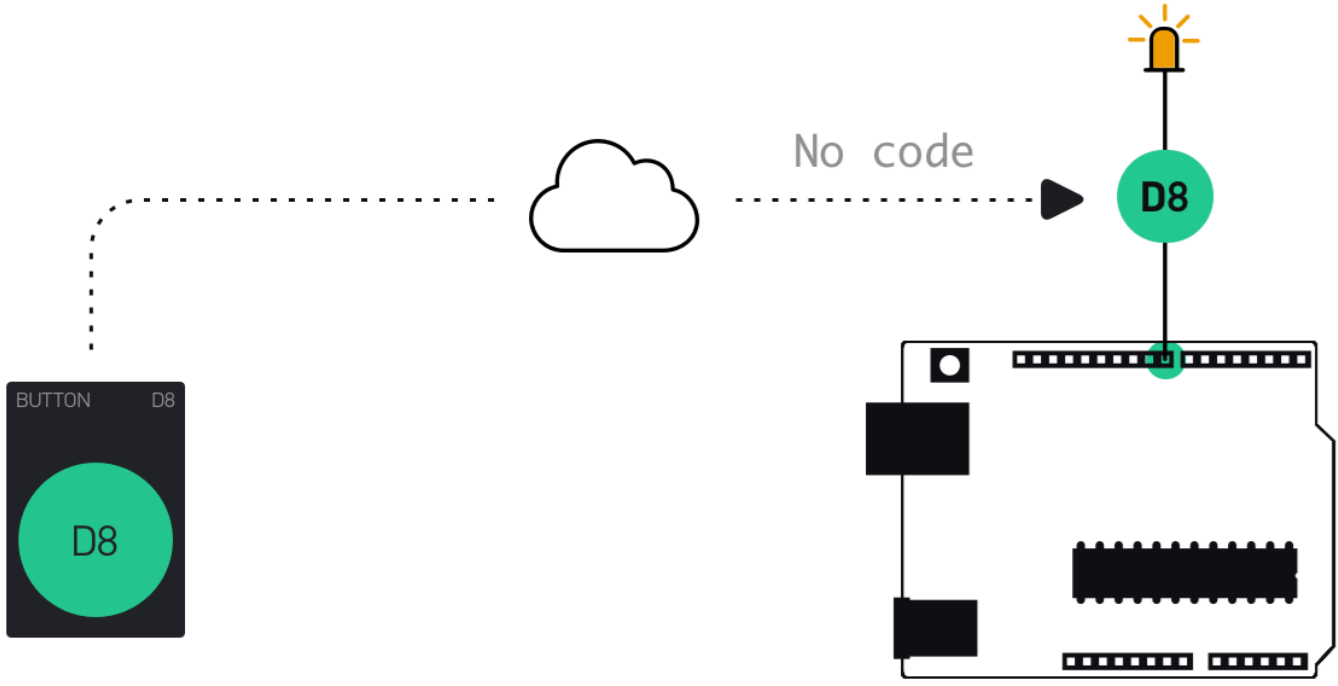
[More info](#)

Versión 0.9.0 ▾

Instalar



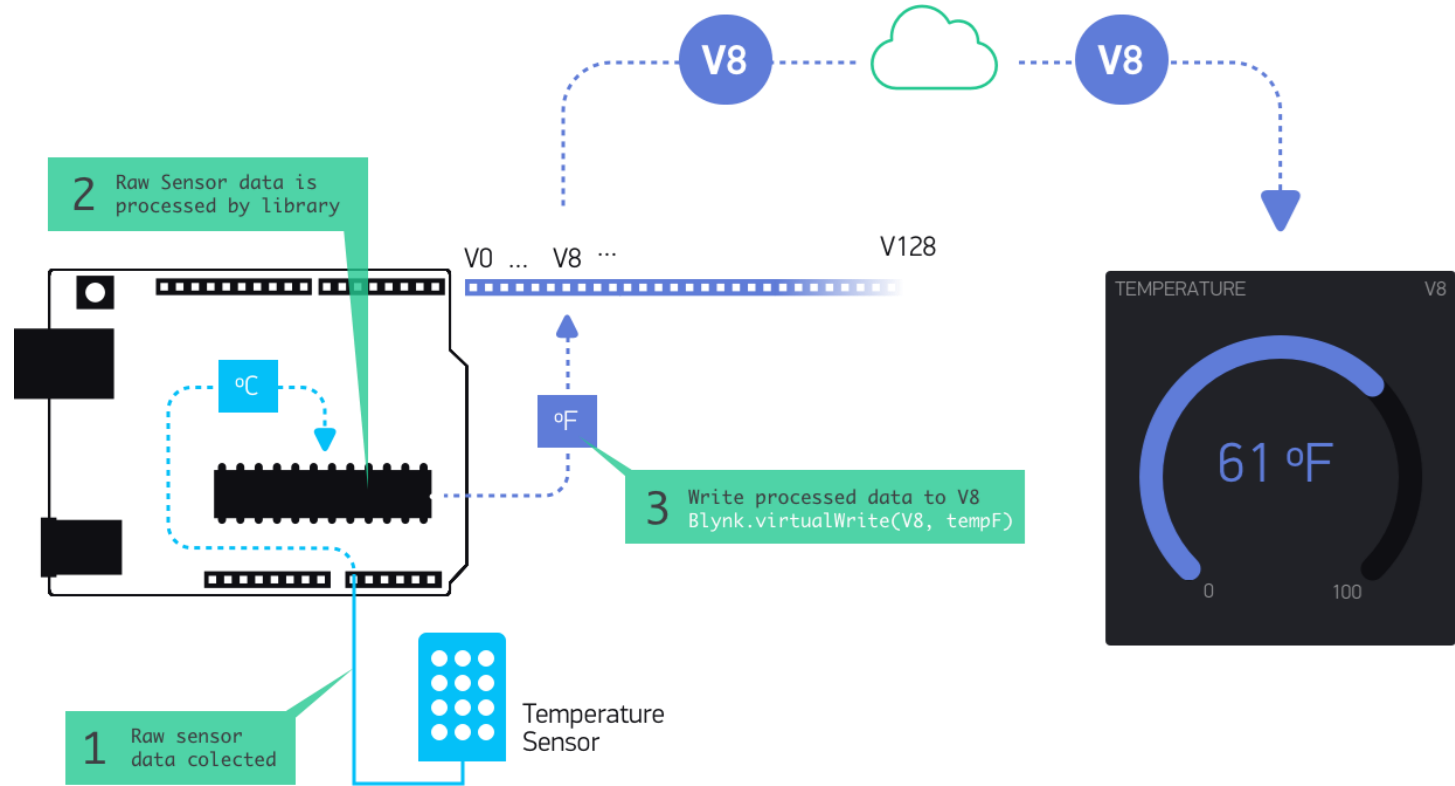
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Fuente: <http://help.blynk.cc/en/>



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#ArduinoD21



Fuente: <http://help.blynk.cc/en/>

DEMOSTRACIÓN



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Arduino-Day-Demo Arduino 1.8.13

Archivo Editar Programa Herramientas Ayuda



Arduino-Day-Demo

```
/Archivos de cabe
include <WiFi.h>
include <WiFiClie
include <BlynkSin
```

```
/Led de usuario c
define LED 2
```

```
/Pin de entrada a
define AI 34
```

```
/Token de la apli
char auth[] = "tJT
```

```
/Credenciales de
char ssid[] = "FLC
char pass[] = "109
```

```
/Temporizador par
lynkTimer timer;
```

Auto Formato	Ctrl+T
Archivo de programa.	
Reparar codificación & Recargar.	
Administrar Bibliotecas...	Ctrl+Mayús+I
Monitor Serie	Ctrl+Mayús+M
Serial Plotter	Ctrl+Mayús+L

WiFi101 / WiFinINA Firmware Updater

Placa: "ESP32 Dev Module"	>
Upload Speed: "921600"	>
CPU Frequency: "240MHz (WiFi/BT)"	>
Flash Frequency: "80MHz"	>
Flash Mode: "QIO"	>
Flash Size: "4MB (32Mb)"	>
Partition Scheme: "Huge APP (3MB No OTA/1MB SPIFFS)"	>
Core Debug Level: "Ninguno"	>
PSRAM: "Disabled"	>
Puerto: "COM3"	>
Obtén información de la placa	

Programador	>
Quemar Bootloader	

