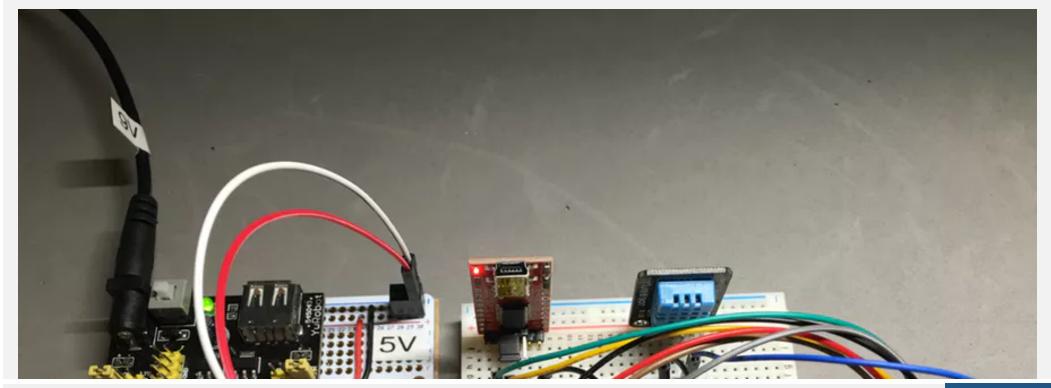
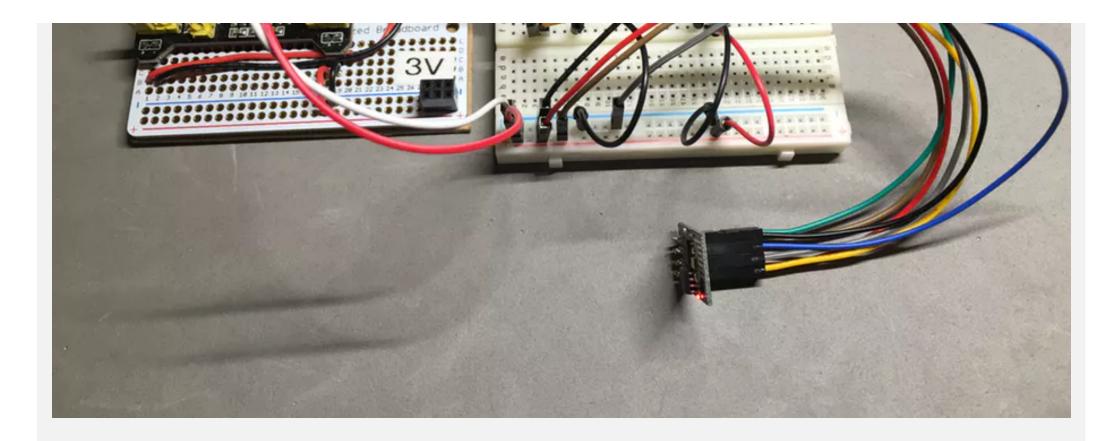
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Temp sensor connected to ESP8266 and upload data using MQTT

Made by Mark Tashiro - Published in Everything ESP





ABOUT THIS PROJECT

This project will show you how to connect a ESP8266 to a USB to Serial TTL adapter and monitor temperature using a DHT11 sensor.

🗣 esp8266 🗣 mqtt

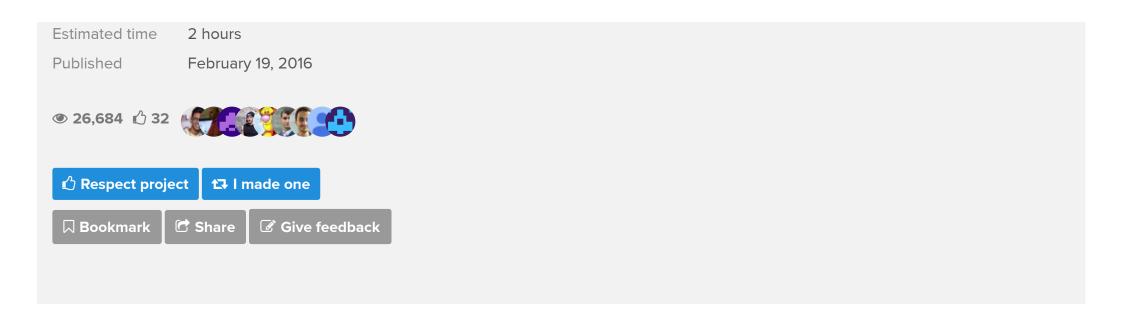
PROJECT INFO

Type

Protip

Difficulty

Intermediate



THINGS USED IN THIS PROJECT

Hardware components:



Intro:

The ESP8266 is a great inexpensive device that gives you WIFI connectivity as well as a couple GPIO ports to connect sensors. In this project I will outline the following:

- Connect the ESP8266 to a USB to TTL Serial adapter to enable you to program the ESP8266 using the Arduino IDE.
- Upload code to take a reading from a DHT11 Temp/Humidity sensor and upload that to Adafurit IO using MQTT.

Parts Needed:

Here are the parts and pieces needed for this project



CODE

```
ESP8266_TEMP_MQTT C/C++

Collect sensor data and sent to Adafruit IO via MQTT

/* Sketch to collect temp and send via MQTT to web.

Must use ESP8266 Arduino from:
https://github.com/esp8266/Arduino

https://github.com/esp8266/Arduino
```

```
10
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13
     #include <ESP8266WiFi.h>
14
    #include <Adafruit MQTT.h>
15
    #include <Adafruit MQTT Client.h>
16
     #include <DHT.h>
17
18
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```

CREDITS



Mark Tashiro

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Thanks to Lady Ada and ESP8266.

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