

# Internet de las c@sas

## {codemotion}

MAD · NOV 24-25 · 2017

#CodemotionMadrid

# Isa y Juliet



Trabajamos en **Microsoft** como SE

Isabel Cabezas – **Software Engineer**

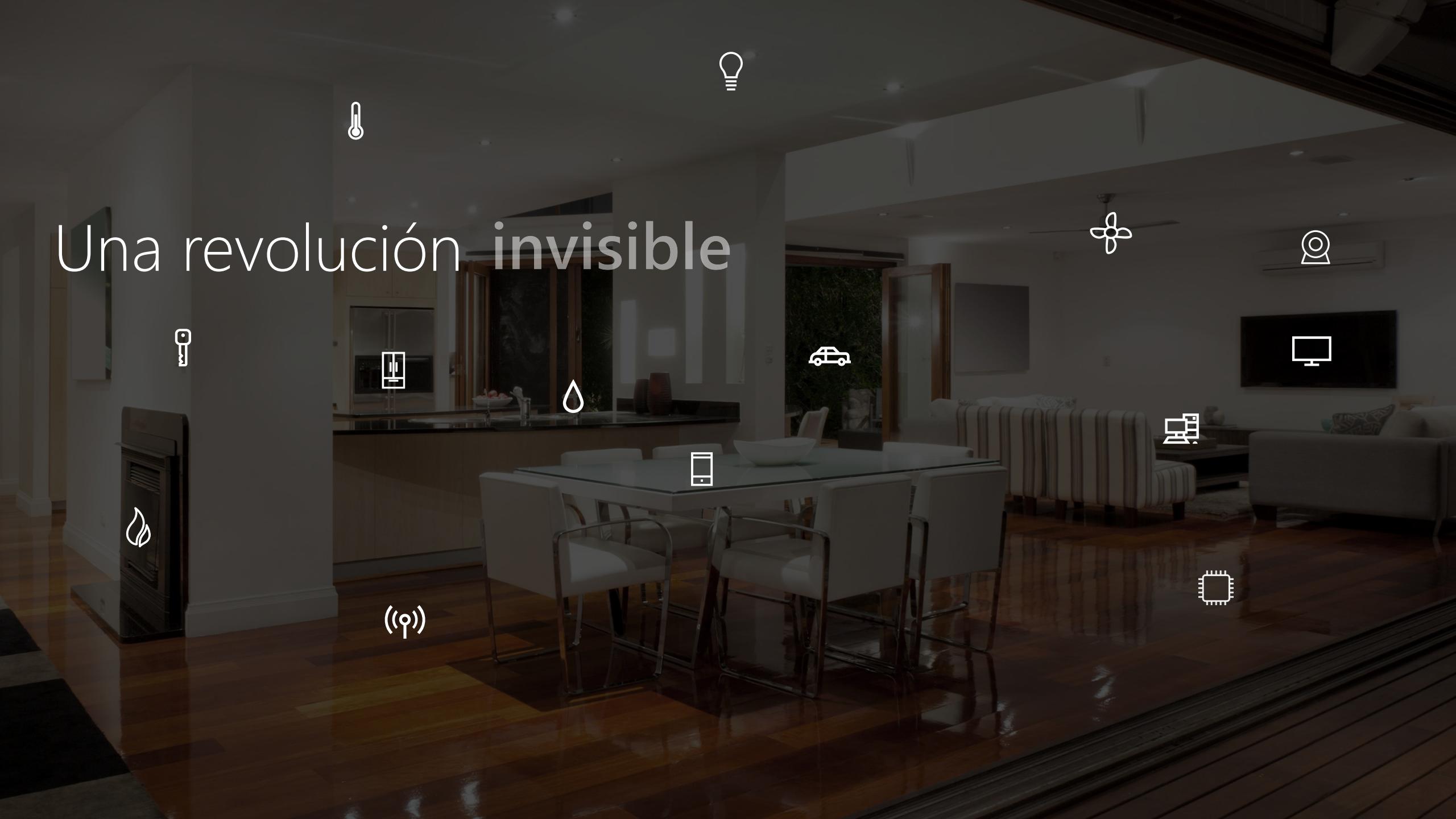
**@isabelcabezasm**

Juliet Moreiro - **Support Engineer**

**@julietsvq**

#GuauWalker en nuestros ratos libres

**@el\_refugio**



# Una revolución invisible



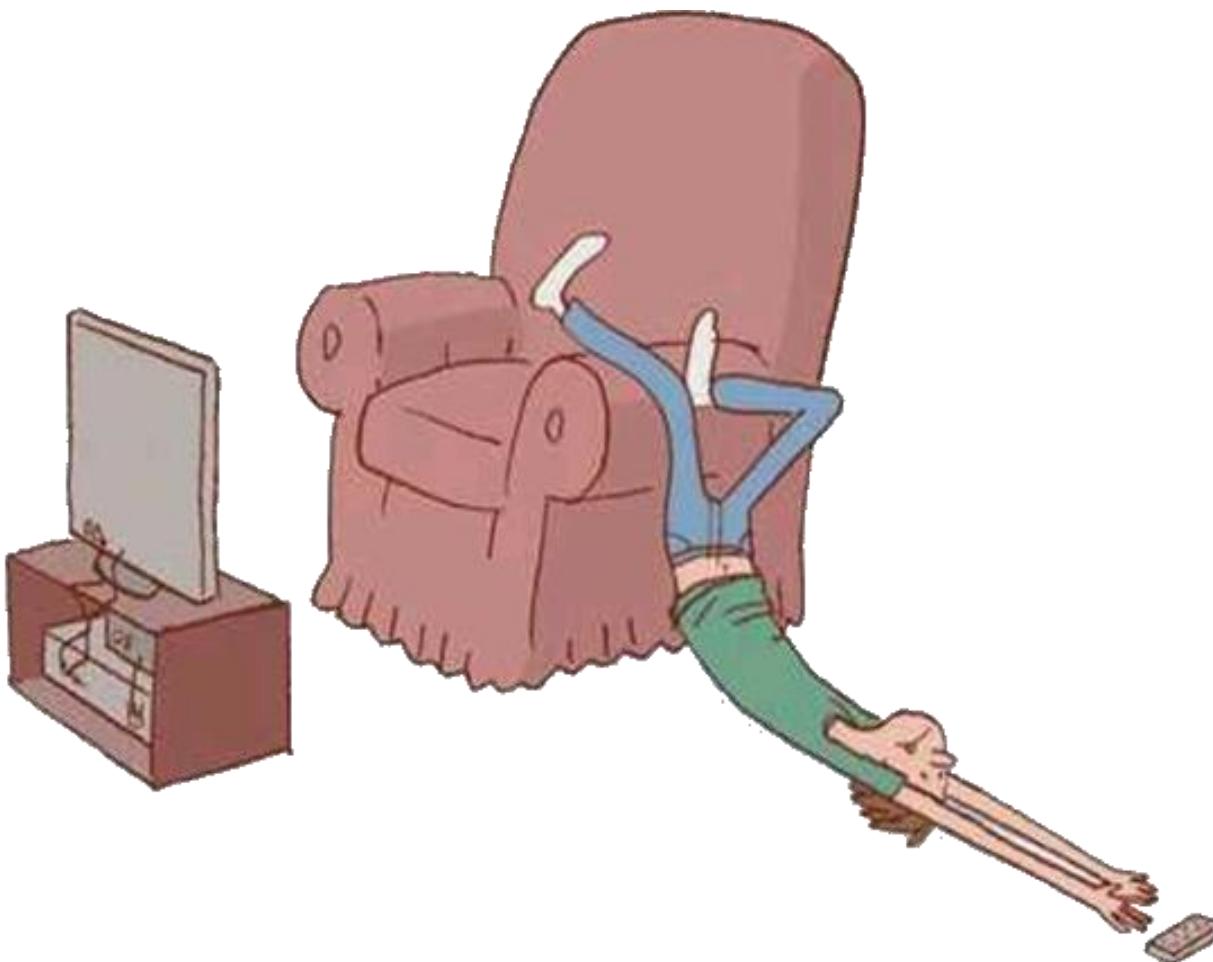


id



Say it. Scan it.  
It's in your cart.





#CodemotionMadrid

# Cuando quiero encender una luz...

Solución lógica



Me levanto y la enciendo

Mi solución



Me quedo sentada y espero descubrir un nuevo poder telepático que encienda la luz.

#CodemotionMadrid



<https://www.amazon.es/iMounTek-E27-base-16-colores-cambiantes-distancia-infrarrojos/dp/B01BX9RQS0/>



<https://www.amazon.es/gp/product/B06XQK3DY3/>



<https://www.amazon.es/LEBRIGHT-Backlight-Powered-iluminaci%C3%B3n-impermeable/dp/B06Y6D65K6/>

#CodemotionMadrid

odem  
id



# Philips Hue



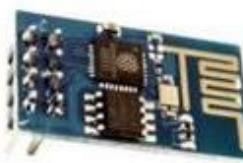
<https://www.amazon.es/gp/product/B01LZ8QYPI/>

#CodemotionMadrid



#CodemotionMadrid

**ESP01**



**ESP02**



**ESP03**



**ESP04**



**ESP05**



**ESP06**



**ESP07**



**ESP08**



**ESP09**



**ESP10**



**ESP11**



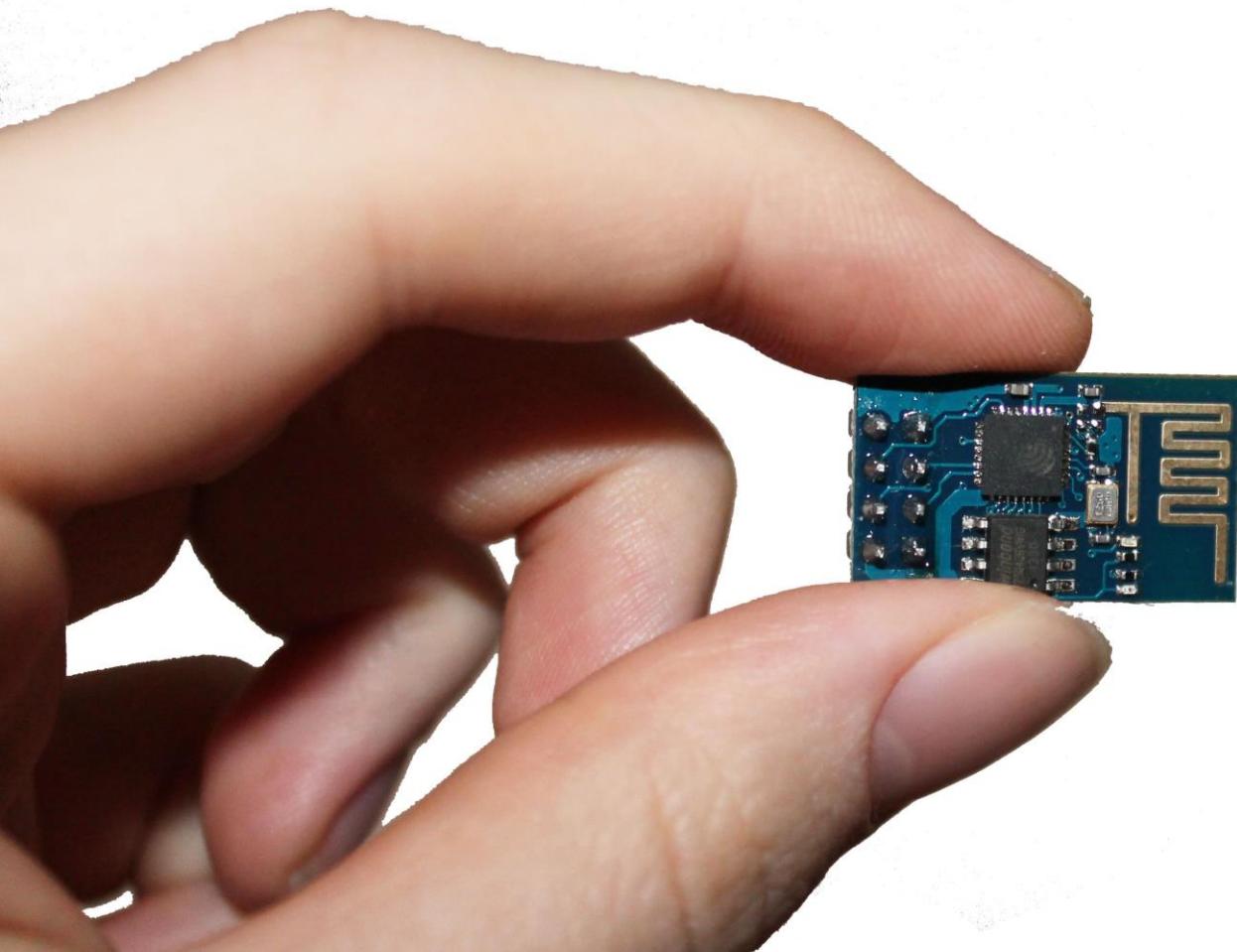
**ESP12**



#CodemotionMadrid

# ESP8266

- Pequeñita
- Baratita!



1.5€

#CodemotionMadrid



esp8266



Lista de Deseos

Identifícate | Regístrate  
Mi AliExpress

Inicio &gt; Todas las Categorías &gt; Componentes... &gt; Componentes... &gt; Circuitos... &gt; "esp8266" 4,937 Resultados &gt;

Buscar en los resultados iniciales

## ▼ Categorías relacionadas

&lt; Componentes y sistemas Electrónicos

&lt; Componentes activos

Integrated Circuits

## ▼ Tipo Múltiple

Regulador de voltaje

Circuitos integrados lógicos

Ver más ▾

Más refinamiento...

**i** En base a tus palabras clave, la categoría que hemos encontrado para ti es **Circuitos integrados**. Si esta no es la categoría que deseas, busca en **Todas las Categorías**.Precio:  -   Envío gratis  ★★★★★ o más  Solo en el móvil  Devolución Local

Ordenar por: Relevancia ▾

Se envía desde ▾

Ver:

Versión mejorada ESP-01 **ESP8266 WIFI** de serie del módulo inalámbrico transceptor inalámbrico

€ 1,51 / unidad

Envío gratis

★★★★★ Valoraciones (2510) | Ventas (2232)

Añadir a Lista

2015 Nueva versión 1 UNIDS **ESP-12F (ESP-12E actualización) ESP8266** remoto Puerto serie WIFI módulo inalámbrico

€ 1,78 / unidad

Envío gratis

★★★★★ Valoraciones (2756) | Ventas (2147)

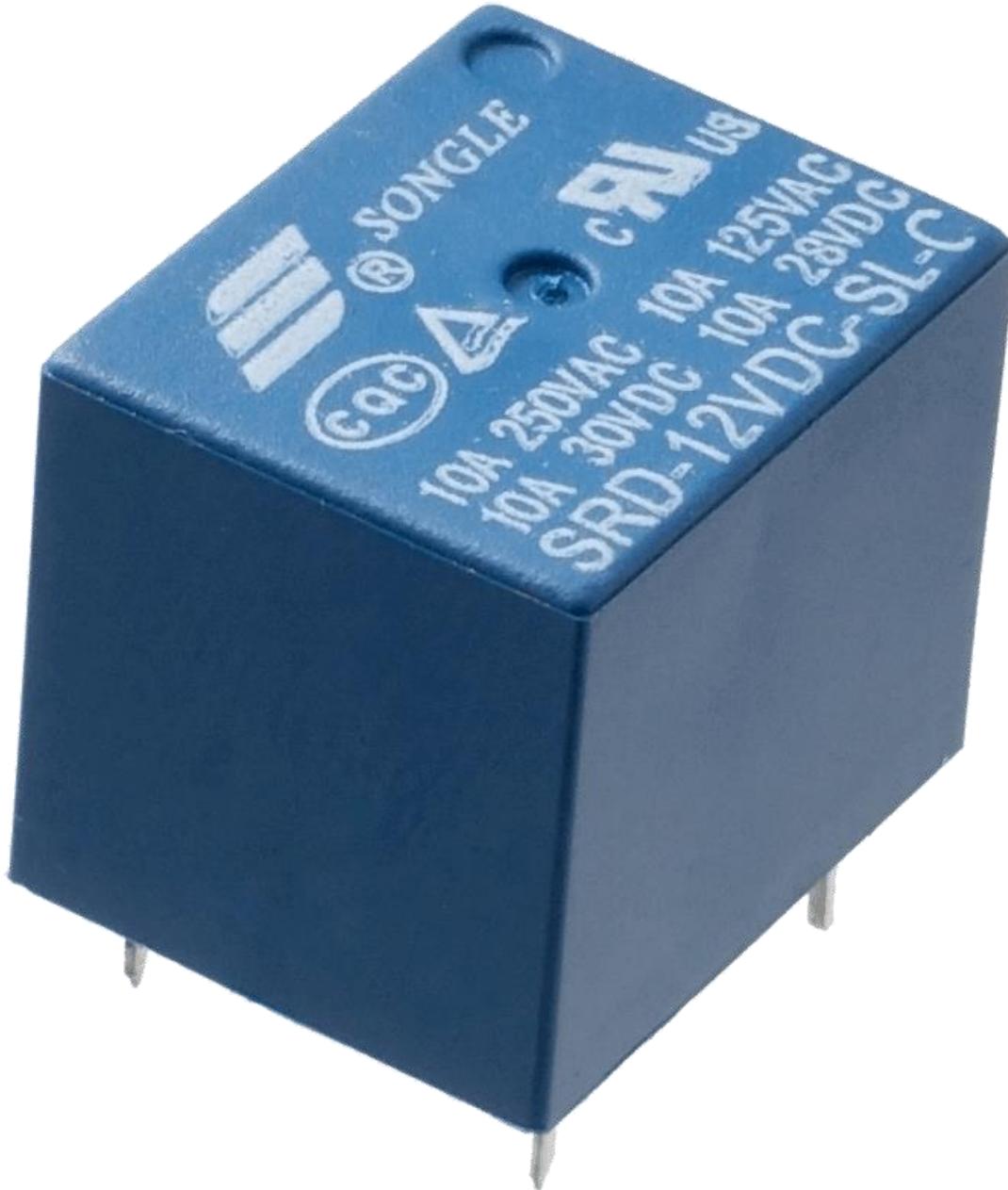
Añadir a Lista

Vistos recientemente

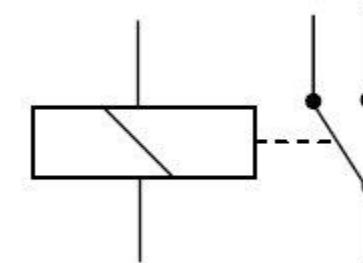
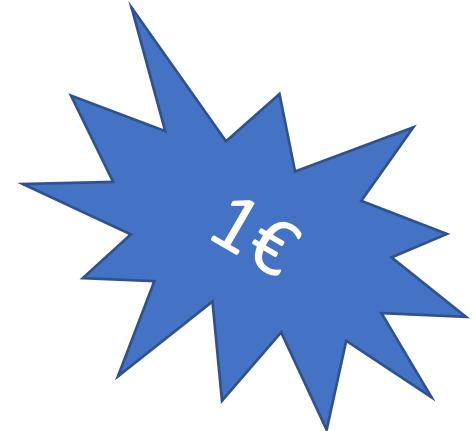
## Artículos vistos recientemente



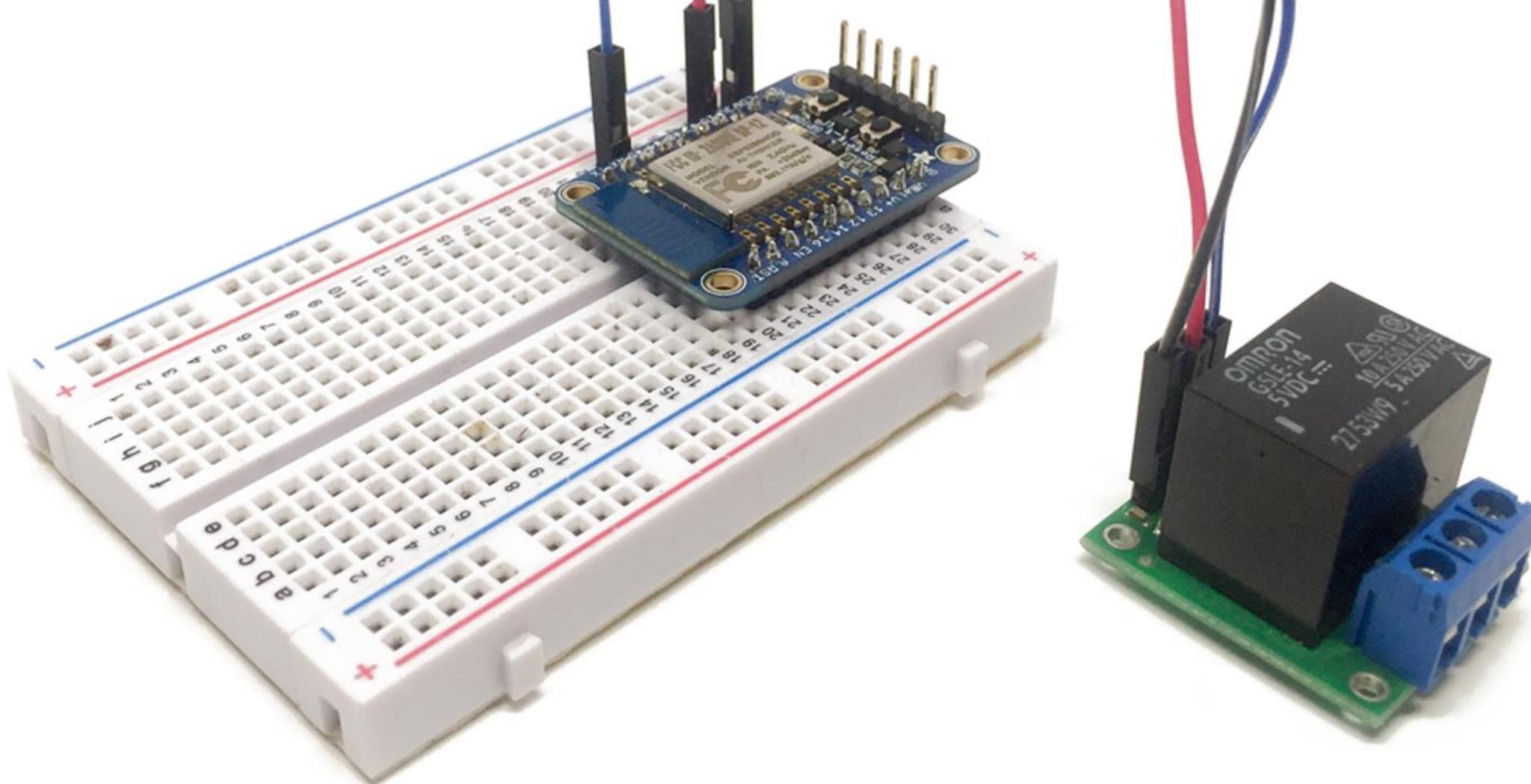
#CodemotionMadrid



Relé,  
Relay  
Relais



#CodemotionMadrid



#CodemotionMadrid

# SONOFF

- ESP8266
- Relay



#CodemotionMadrid

## SONOFF



Sonoff Basic



Sonoff RF



Sonoff TH



Sonoff Dual



Sonoff Pow



Sonoff 4CH



Sonoff G1



Sonoff 4CH Pro

## RESIDENTIAL



S20 Socket



Slampher



Sonoff Touch



Sonoff SC

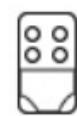
## ACCESSORIES



AM2301



DS18B20



433MHz Remote Control

## APPLIANCE



iFan



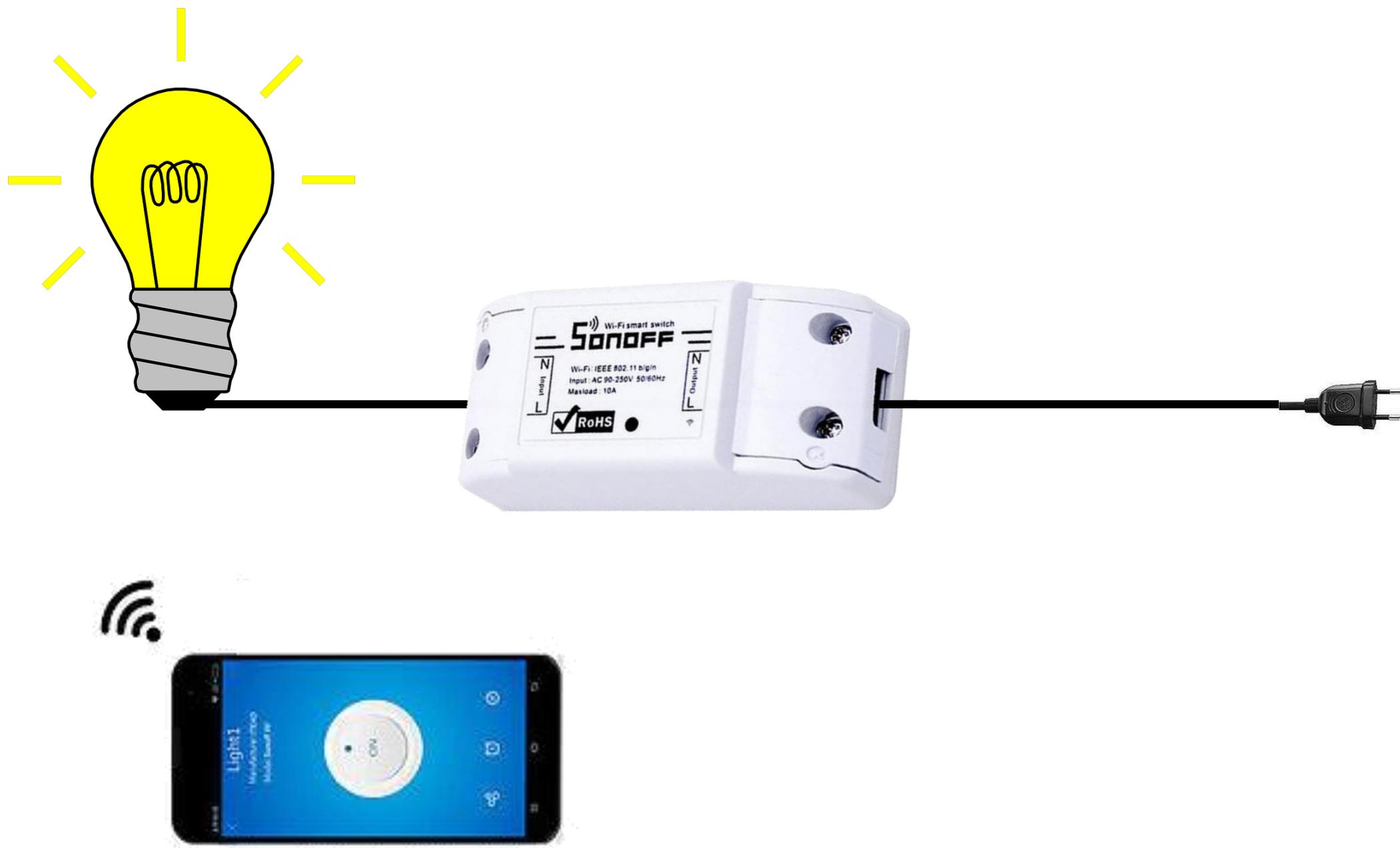
Sonoff LED



Sonoff Hum

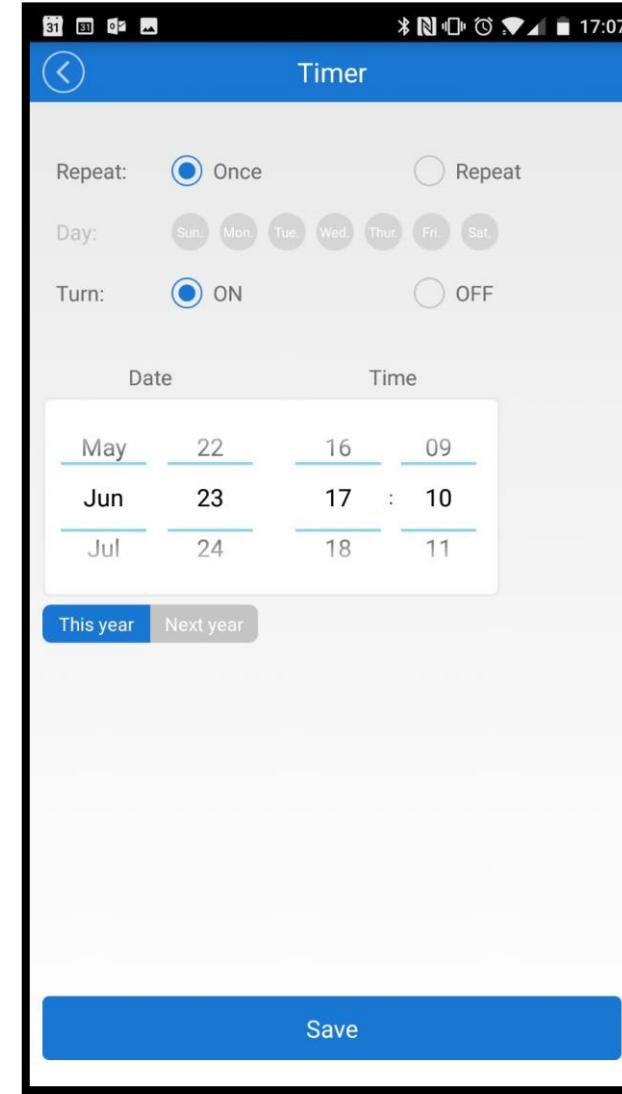
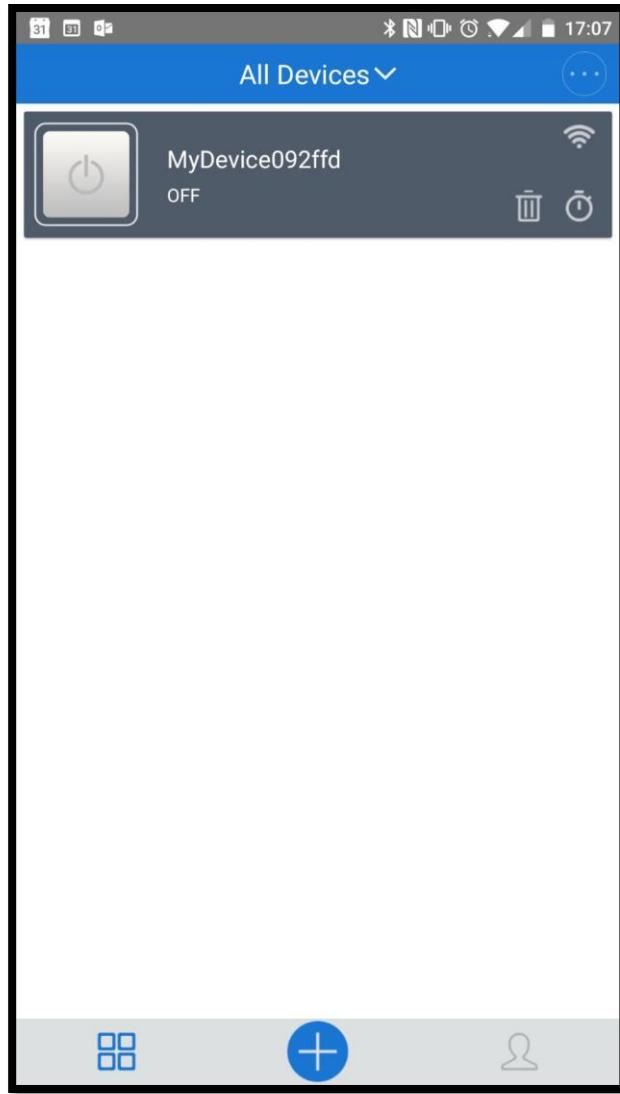


BN-SZ01

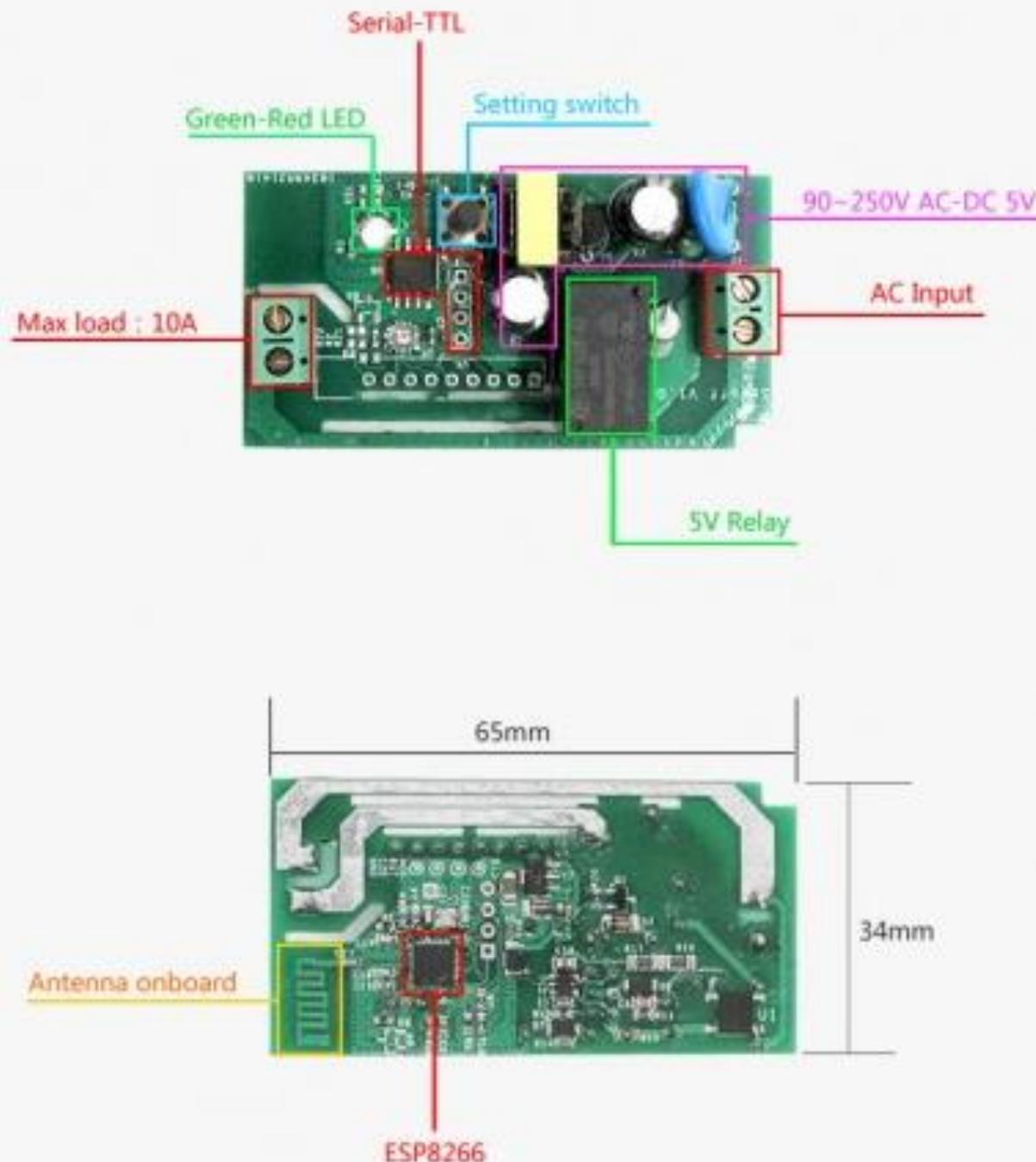


#CodemotionMadrid

# Sonoff App



#codemotionMadrid



## Features

- WiFi
- Status tracking home
- App
- Remotely turn on or off added devices
- N WiFi smart switches one smart phone
- Easy installation
- Easy handling
- Stable

# Sonoff-Tasmota firmware

<https://github.com/arendst/Sonoff-Tasmota>

Code Issues Pull requests Projects Wiki Insights

Watch 129 Star 609 Fork 135

Provide ESP8266 based itead Sonoff with Web, MQTT and OTA firmware using Arduino IDE

119 commits 1 branch 45 releases 2 contributors GPL-3.0

Branch: master New pull request Create new file Upload files Find file Clone or download

arendst v5.2.2 ...

- api v5.1.4
- arduino Add ESP8266-Arduino 2.4.0-rc1 updates
- lib Update library for HVAC
- sonoff v5.2.2
- .gitattributes Add linefeed normalisation
- .gitignore Update platformio info
- .travis.yml v5.1.4
- LICENSE.txt v5.1.0
- README.md v5.2.2
- esp8266.flash.1m0.id Add 1M flash with no spiffs linker script
- platformio.ini Fix typo

Clone with HTTPS Use SSH  
Use Git or checkout with SVN using the web URL.  
<https://github.com/arendst/Sonoff-Tasmota>

Open in Desktop Open in Visual Studio Download ZIP

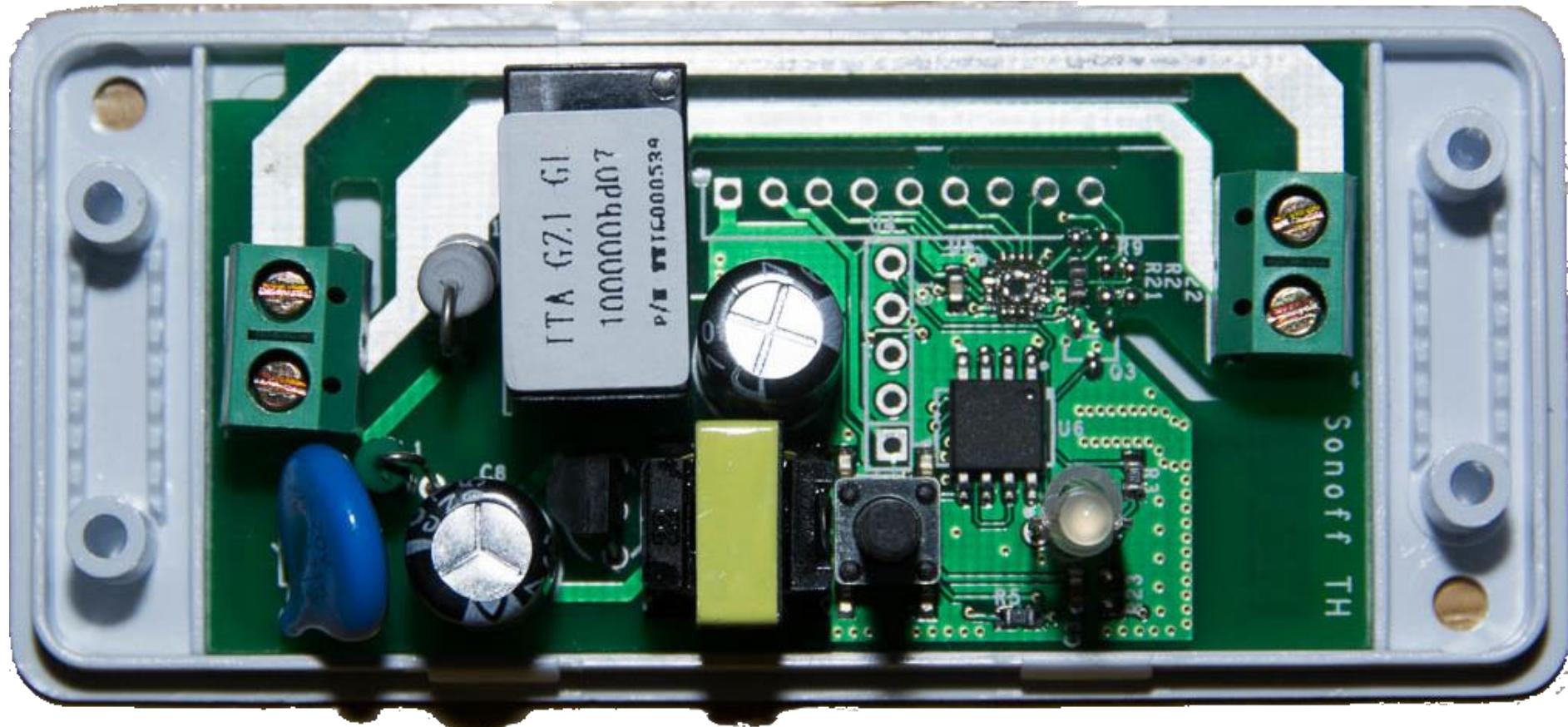
4 months ago 5 months ago  
26 days ago 2 months ago  
2 days ago 2 months ago  
24 days ago



<https://github.com/arendst/Sonoff-Tasmota>

#CodemotionMadrid

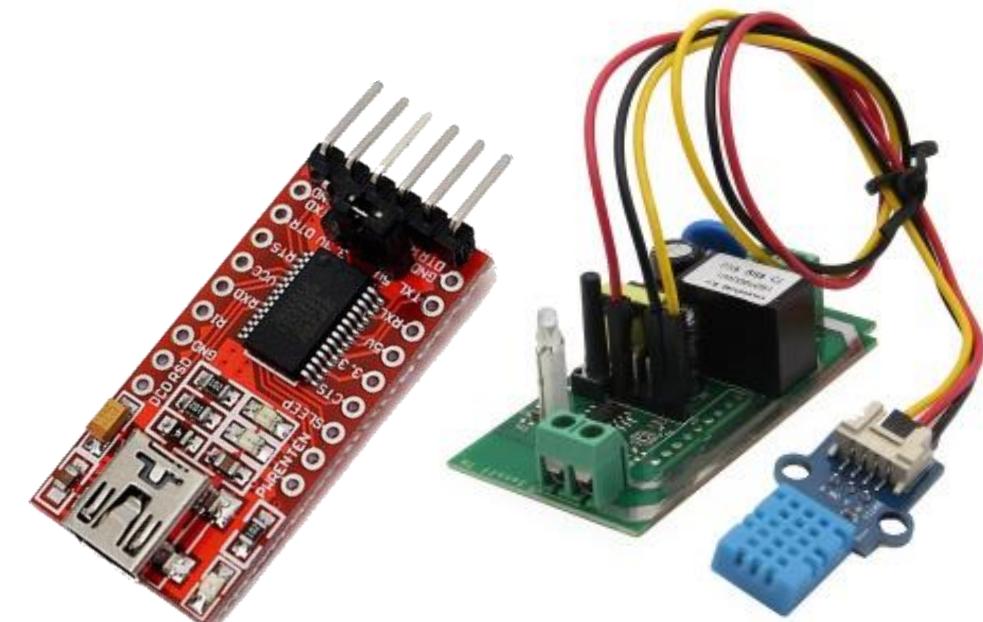
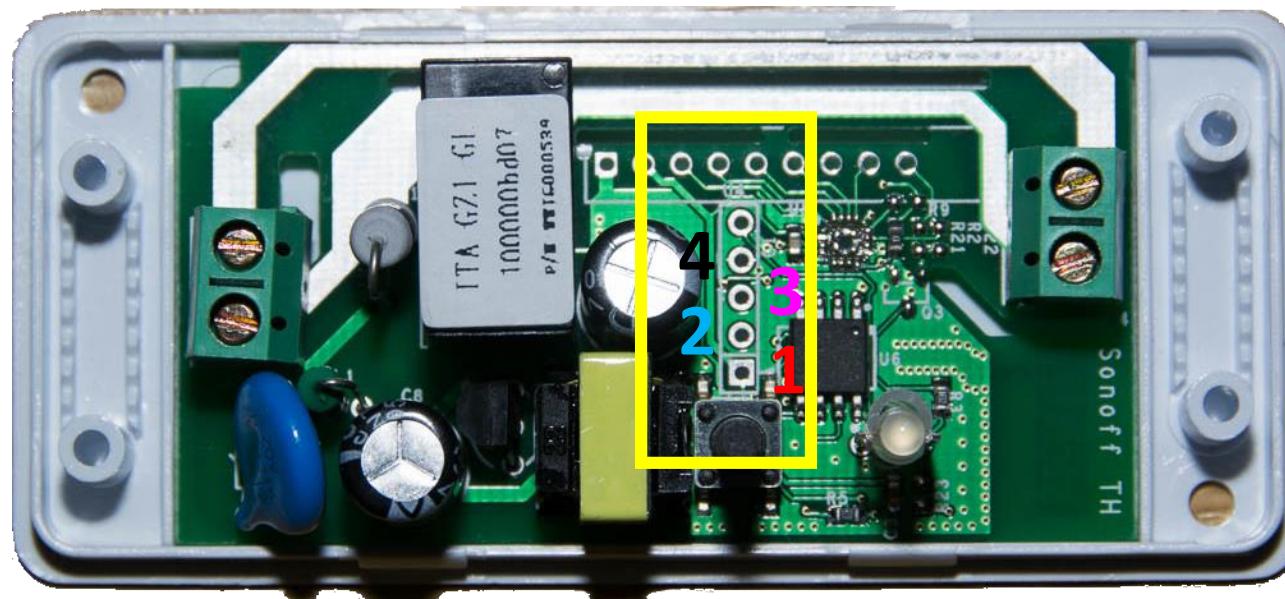
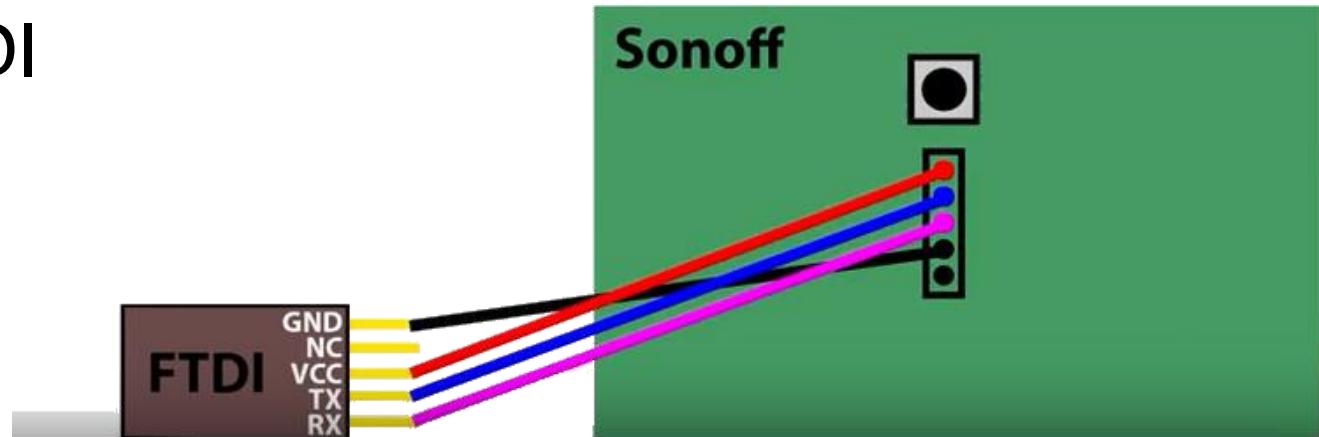
# 1. Desmontar el SONOFF



#CodemotionMadrid

## 2. Conectarlo bien a un FTDI

1. VCC → 3V3
2. RX → TX
3. TX → RX
4. GND → GND



#CodemotionMadrid

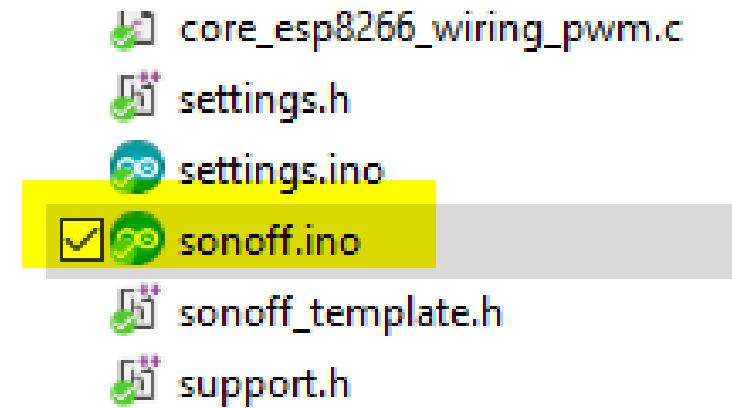
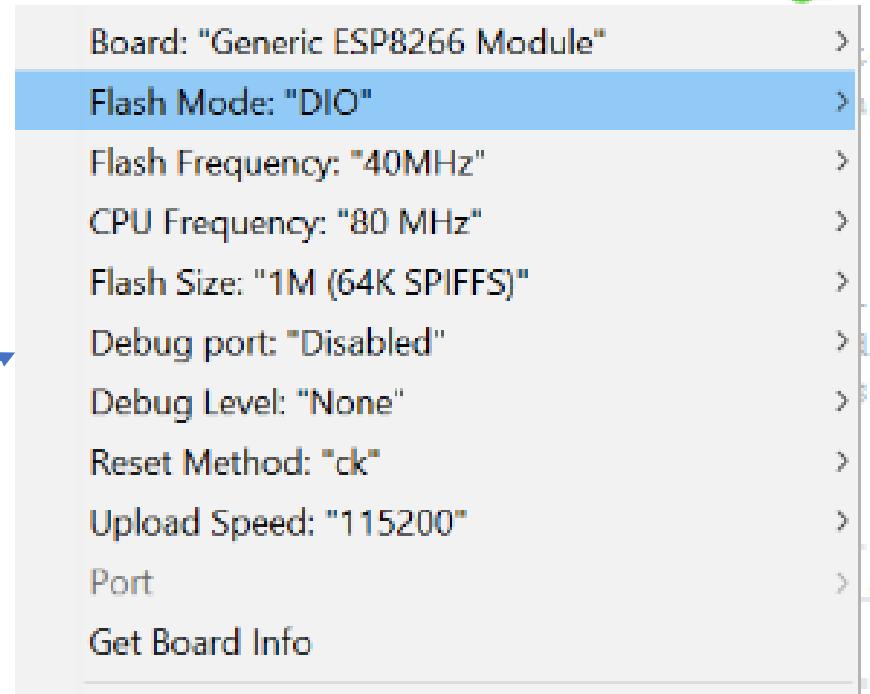
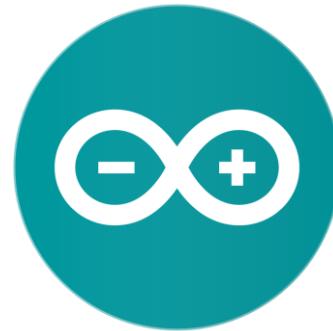
### 3. Configurar Arduino IDE

Configurar WiFi: user\_config.h

File > Preferences > Additional  
Boards Manager URLs  
[http://arduino.esp8266.com/stable/package\\_esp8266com\\_index.json](http://arduino.esp8266.com/stable/package_esp8266com_index.json)

**Tools** > Board Generic ESP8266  
Module  
(Tools Board Generic ESP8285  
Module for CH4 version)

Options



## 4. Enchufa....

1) *Ten cuidado de que siempre haga contacto FTDI + SONOFF*

2) Pulsa el botón del sonoff



2) Enchufa el USB



4) Dale al botón “Upload” del Android IDE



Firmata CLICK generic protocol for from software on a host computer any host computer software packa

To download a host software pack to open the list of Firmata clie

<https://github.com/firmata/arduino>

Copyright (C) 2006-2008 Hans-Chr

Copyright (C) 2010-2011 Paul Sta

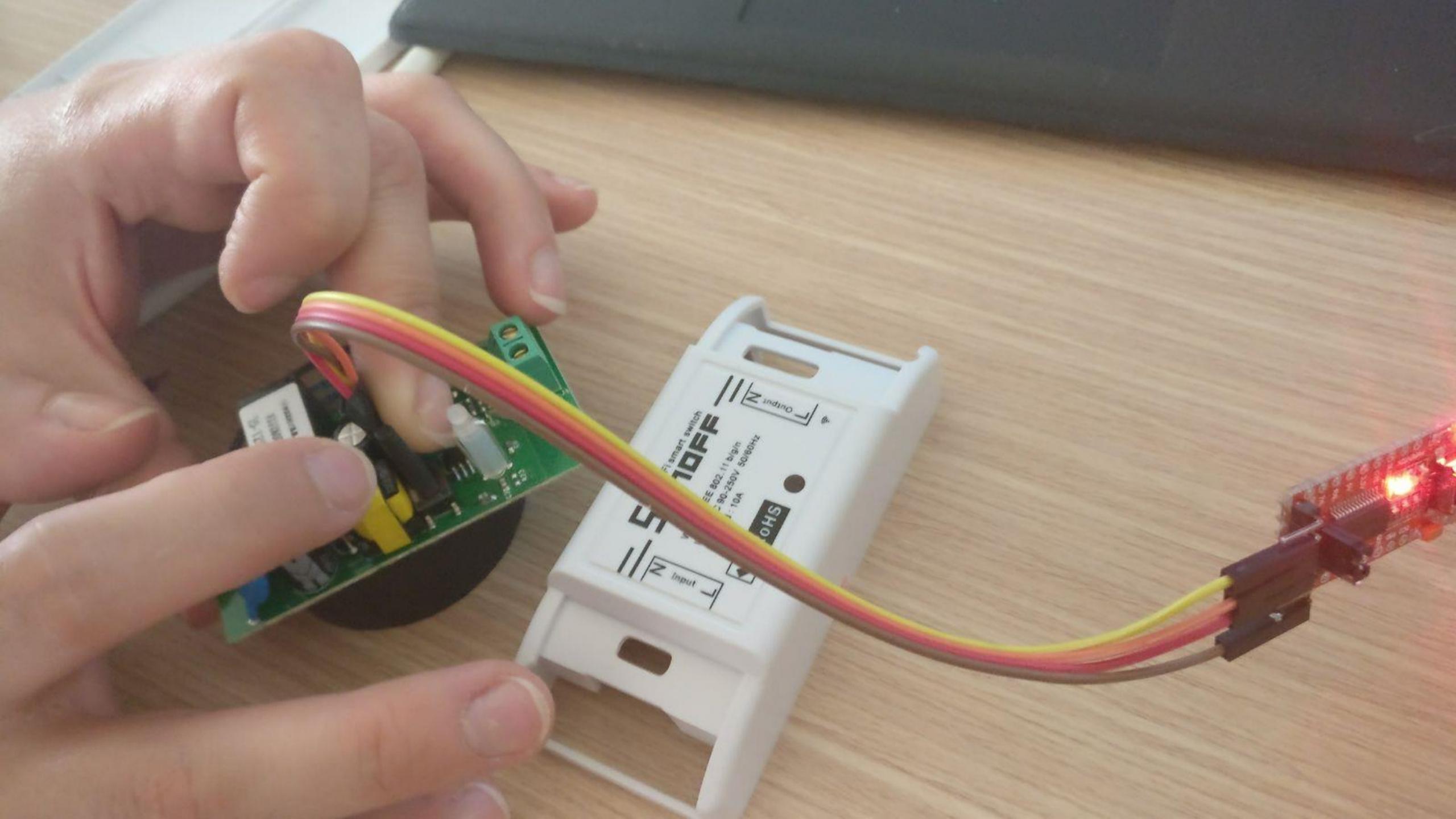
Copyright (C) 2009 Shigeru Kobay

Copyright (C) 2009-2015 Jeff Hoe

Voilà!!!

<http://sonoff/>

#CodemotionMadrid



Plasmart switch

1OFF

IEEE 802.11 b/g/n

~90-250V 50/60Hz

10A

SHO

5

Input

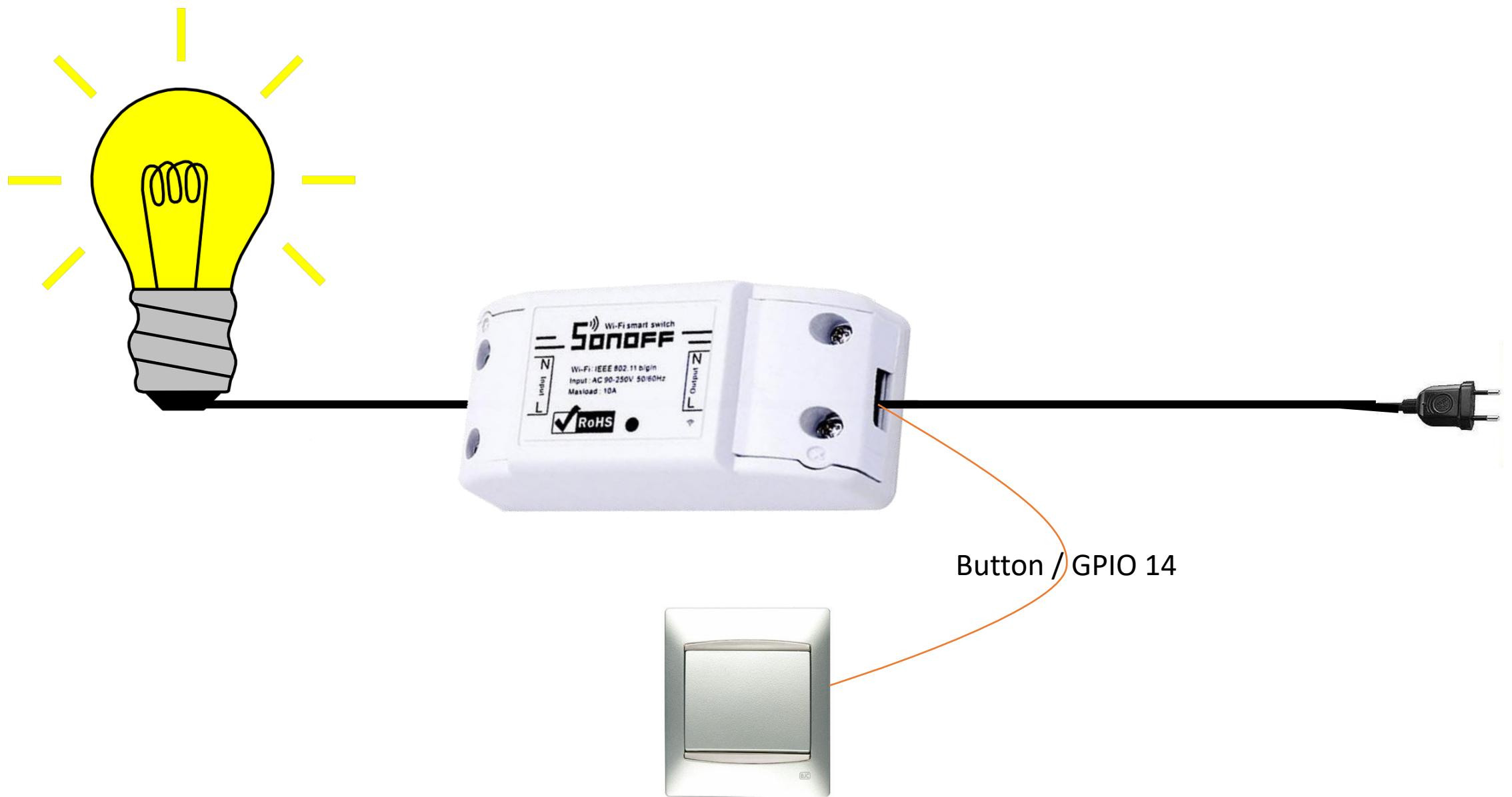
Output



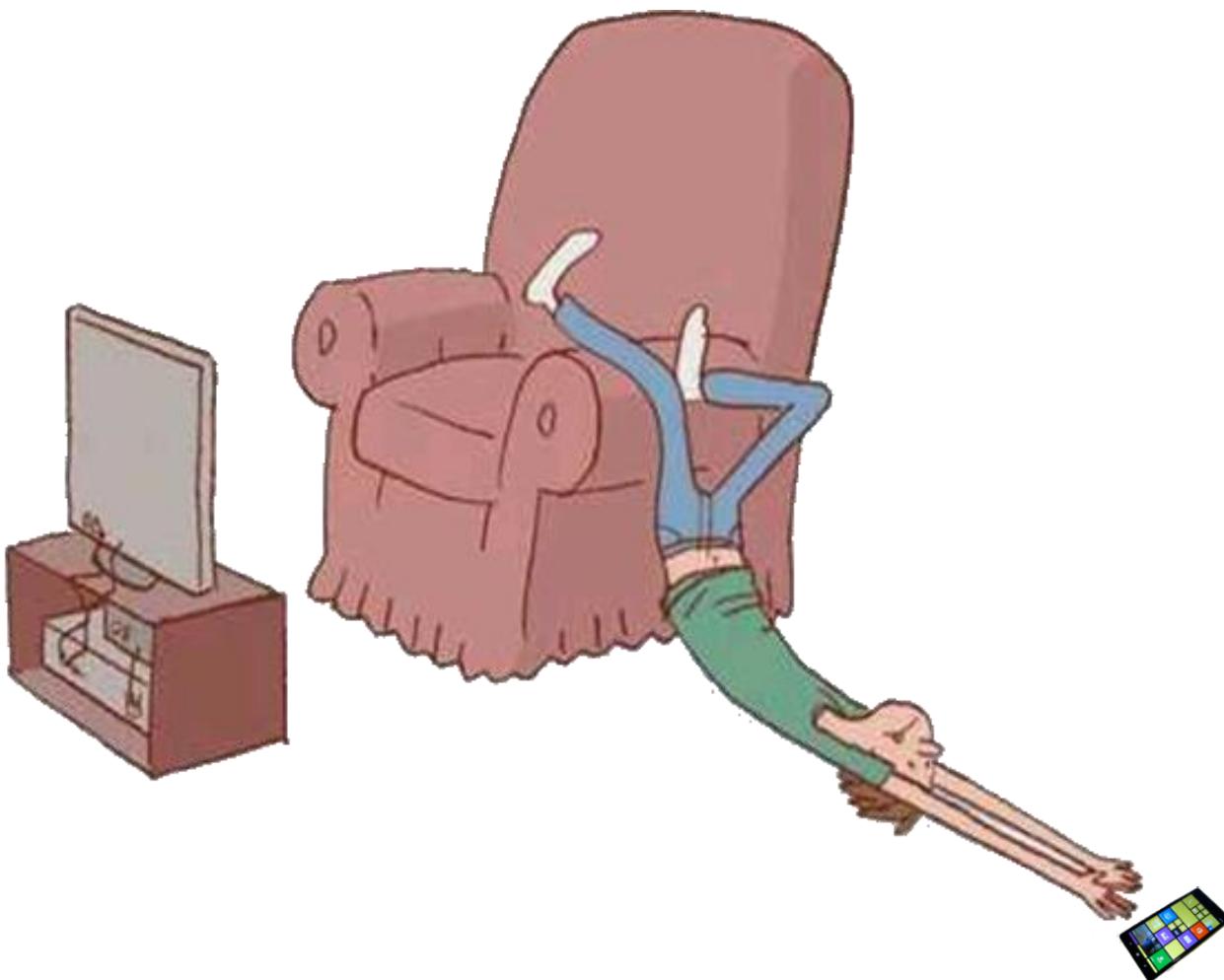
#CodemotionMadrid



#CodemotionMadrid



#CodemotionMadrid



#CodemotionMadrid



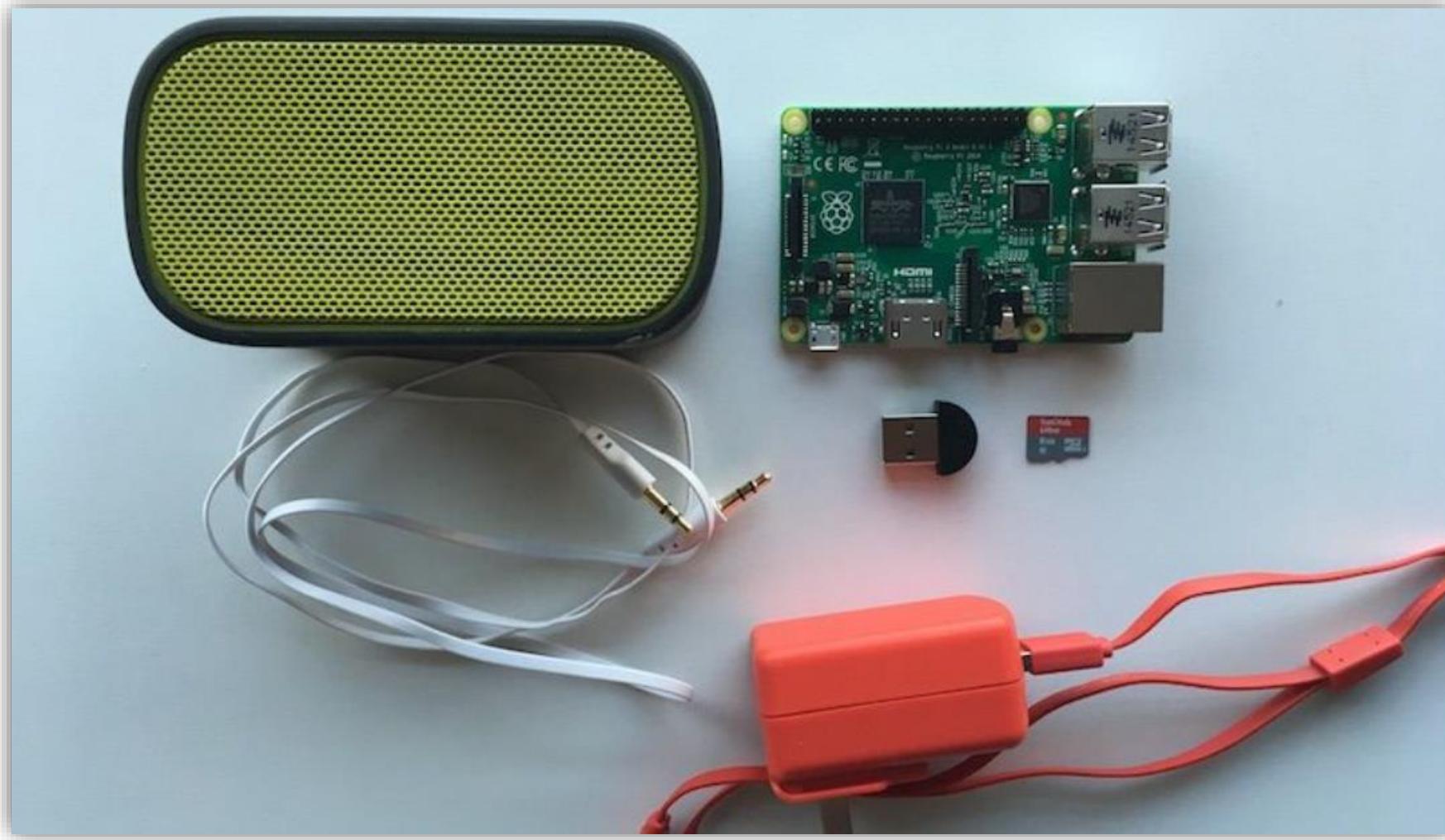
#CodemotionMadrid



Welcome to the XXI century!



#CodemotionMadrid

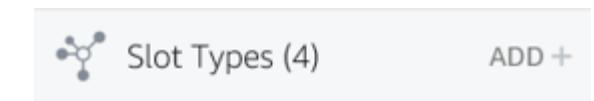


<http://lifehacker.com/the-simplest-way-to-build-a-raspberry-pi-powered-amazon-1794218212>

#CodemotionMadrid

- Intents
- Entities / Slots + Types
- Utterances

```
{
  "intents": [
    {
      "intent": "LightsOn"
      "slots": [
        {
          "name": "Room",
          "type": "AMAZON.Room"
        }
      ]
    },
    {
      "intent": "LightsOff"
      "slots": [
        {
          "name": "Room",
          "type": "AMAZON.Room"
        }
      ]
    }
  ]
}
```





<https://domoticz.com>



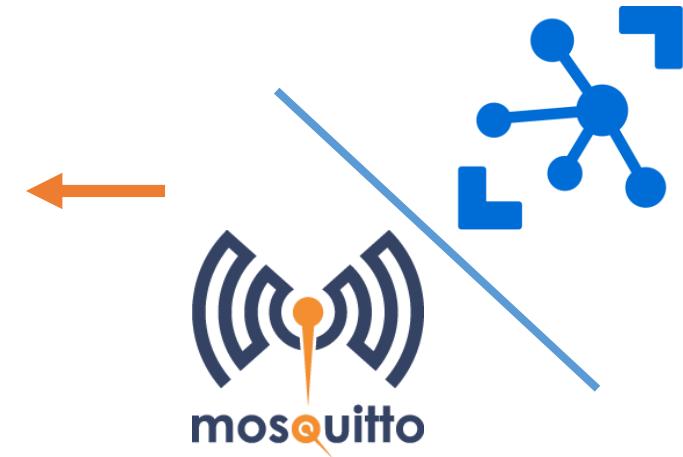
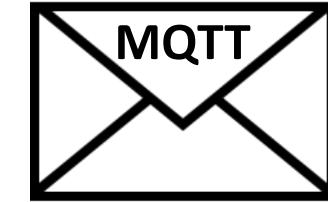
<https://home-assistant.io>

#CodemotionMadrid





Alexa



#CodemotionMadrid

**OTROS  
MINIPROYECTOS  
BARATUNOS  
QUE NOS "SOLUCIONAN"  
LA VIDA**

#CodemotionMadrid

# LÁMPARA "NOTWIFICADOR"

dr\_alarcon @mxrush76 Twitter Timeline Update System Down! #twitterFAIL http://bit.ly/3xRQCZ DM y @Message si funcionan half a minute ago from web

JOHN\_AF @wicklesscents yes it does. #TwitterFAIL! less than a minute ago from TweetDeck

XtianHawk @wicklesscents Hey Kim, Still #TwitterFAIL?! 1 minute ago from dabr

Philonist\_ Yes. #twitterFAIL RT @LGGrant Ummmm...is something wrong w/ @twitter ??? 2 minutes ago from Power Twitter

Oui68 @Patt ลืม reply or rt ถึงเห็นกันแล้ว? #twitterfail 2 minutes ago from Gravity

ImAFanOfSelenaG What's wrong with Twitter?! Why can't I see new tweets on my homepage? #twitterfail 2 minutes ago from web

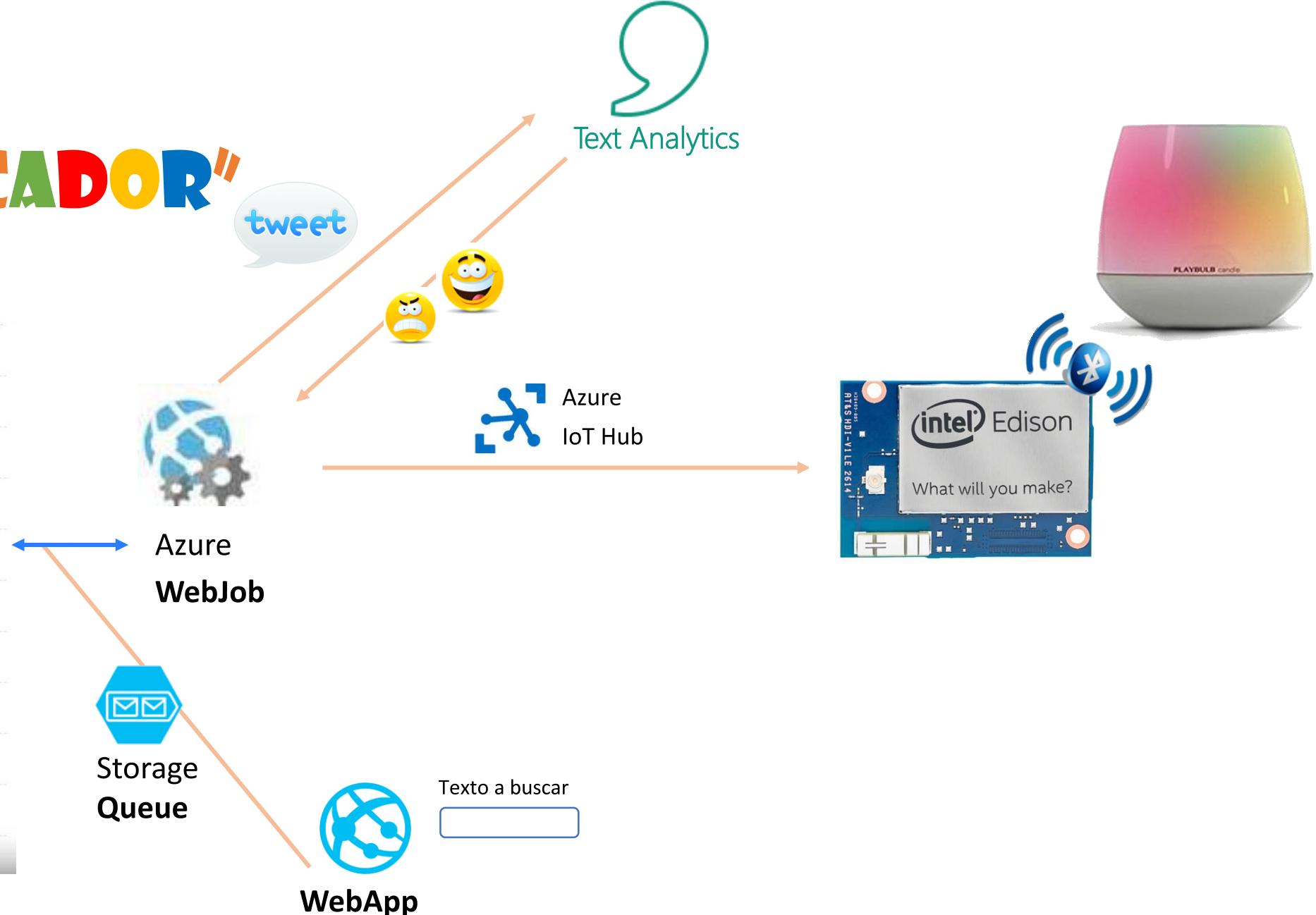
dr\_alarcon @MJVega Twitter Timeline Update System Down! #twitterFAIL http://bit.ly/3xRQCZ DM y @Message si funcionan 2 minutes ago from web

KelsyC #twitterfail 2 minutes ago from web

daisypops Bye now. Getting bored talking to myself lol. #twitterfail 3 minutes ago from web

dr\_alarcon @eseMendiola Twitter Timeline Update System Down! #twitterFAIL http://bit.ly/3xRQCZ DM y @Message si funcionan 3 minutes ago from web

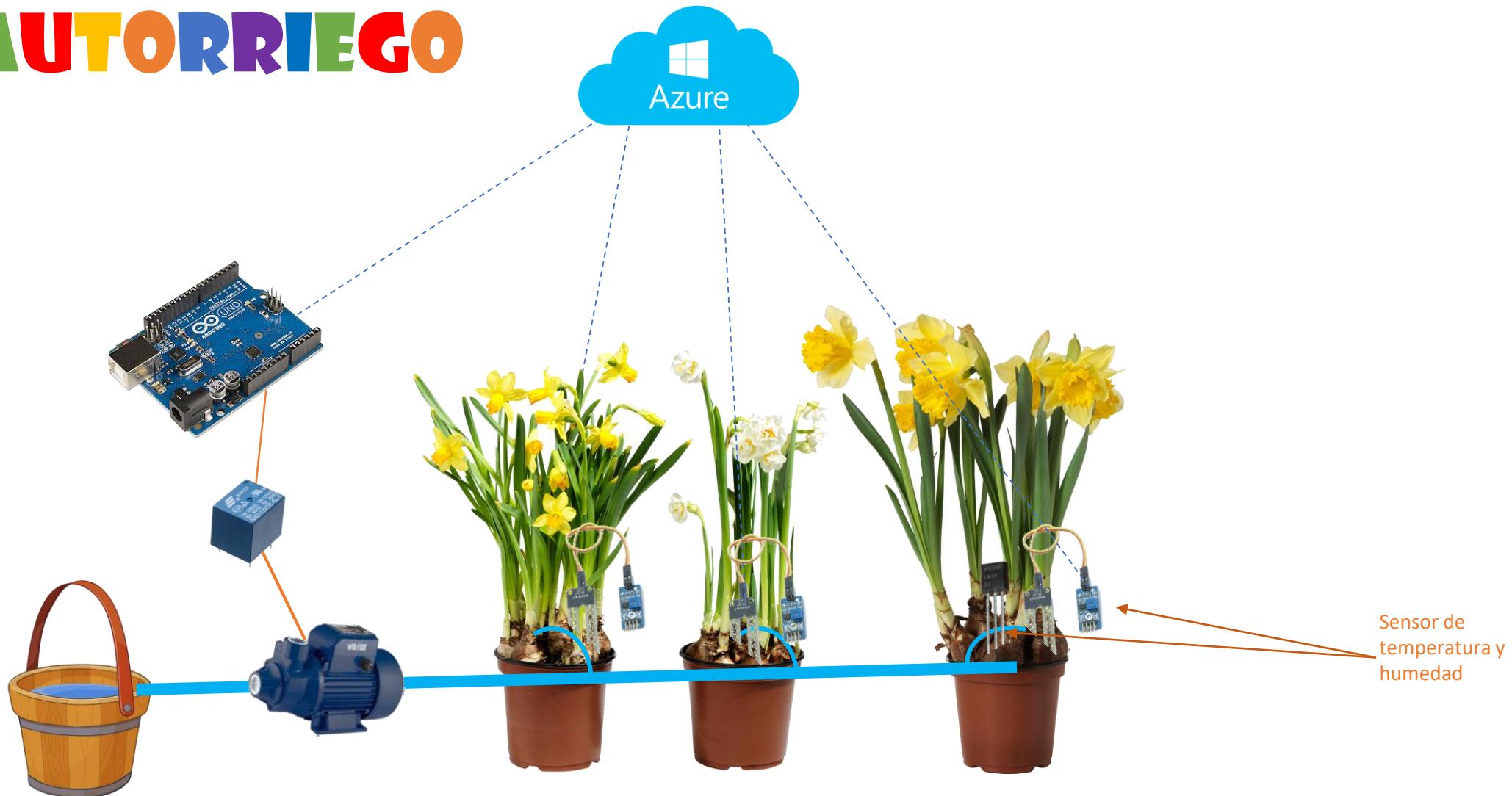
pinguinmaedchen dem kleinen pinguin ist auch #langweilig #twitterfail http://bitpic.com/kq8pb @skoops @cyberfux @sa7yr



<https://github.com/isabelcabezasm/notwificador>

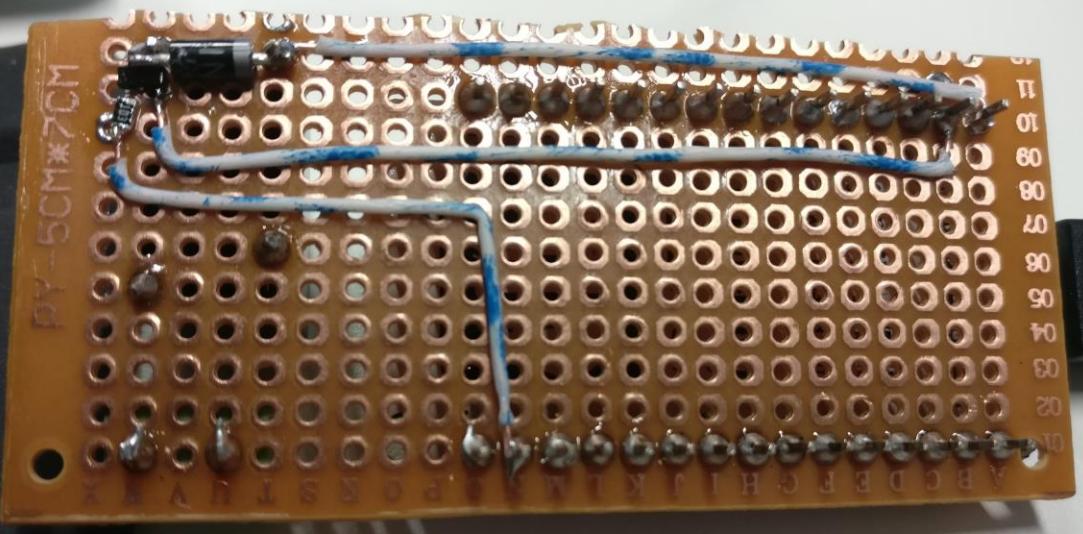
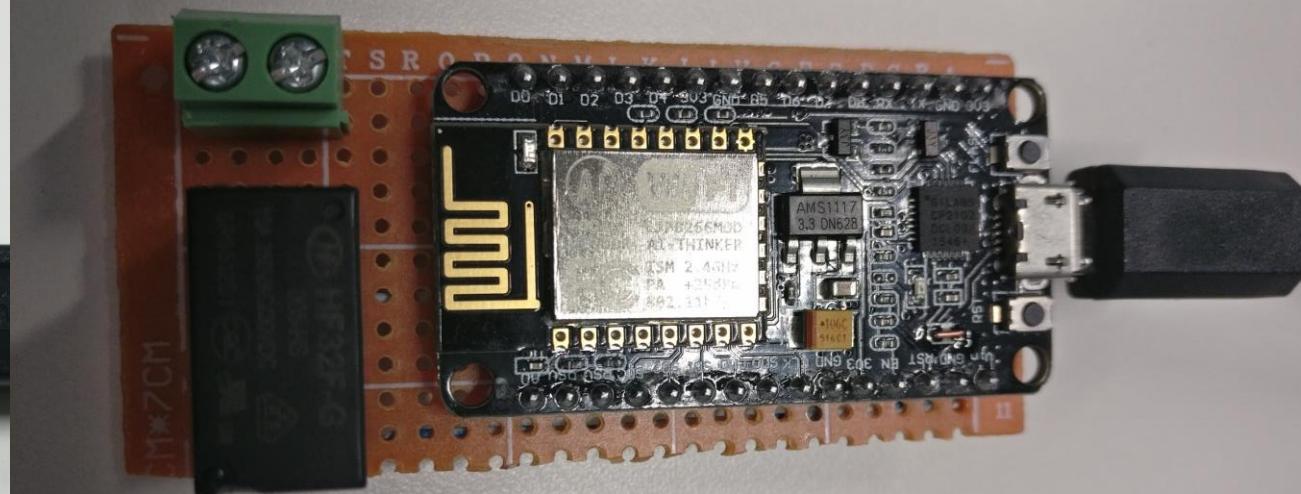
#CodemotionMadrid

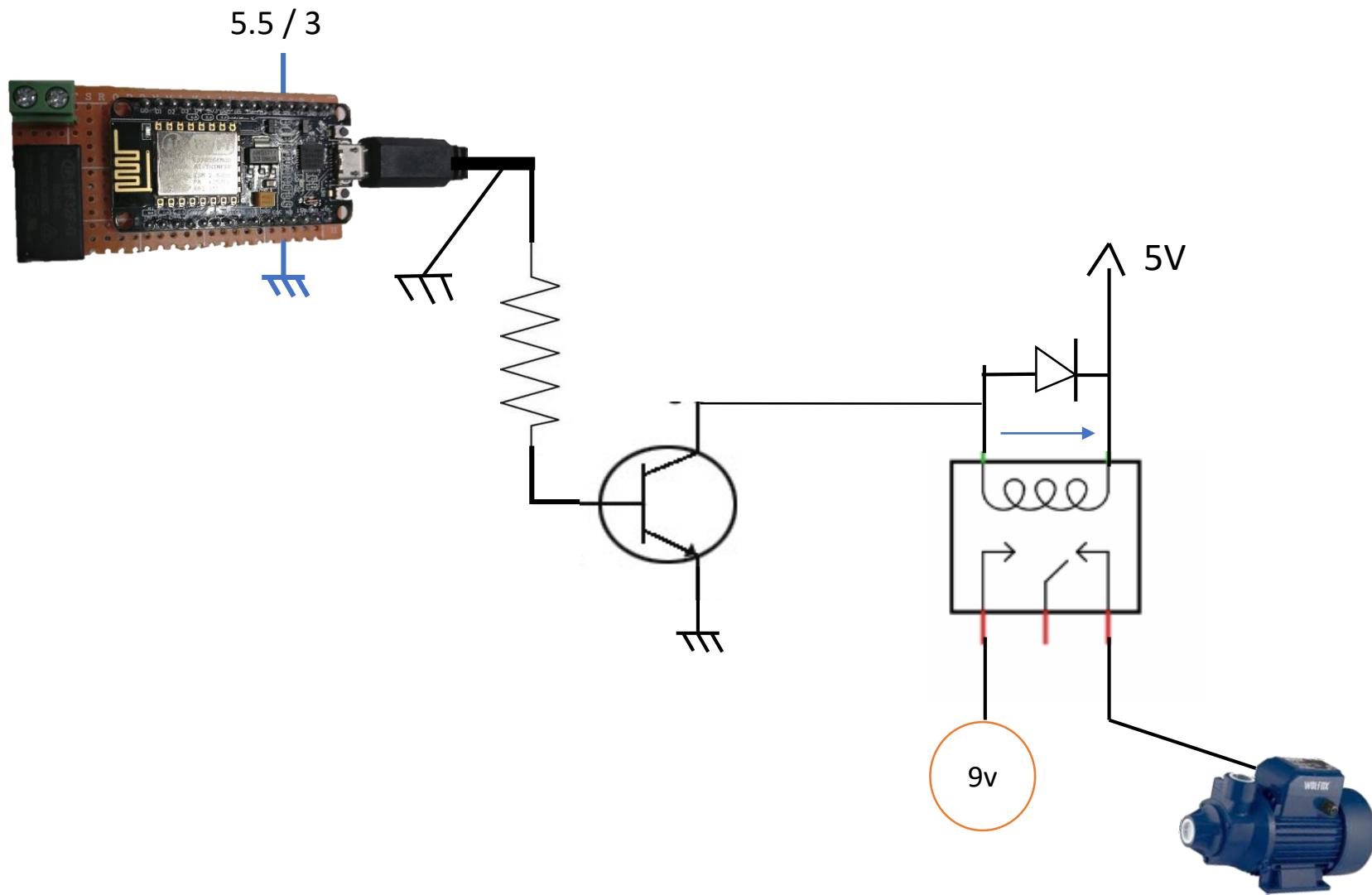
# AUTORRIEGO



#CodemotionMadrid







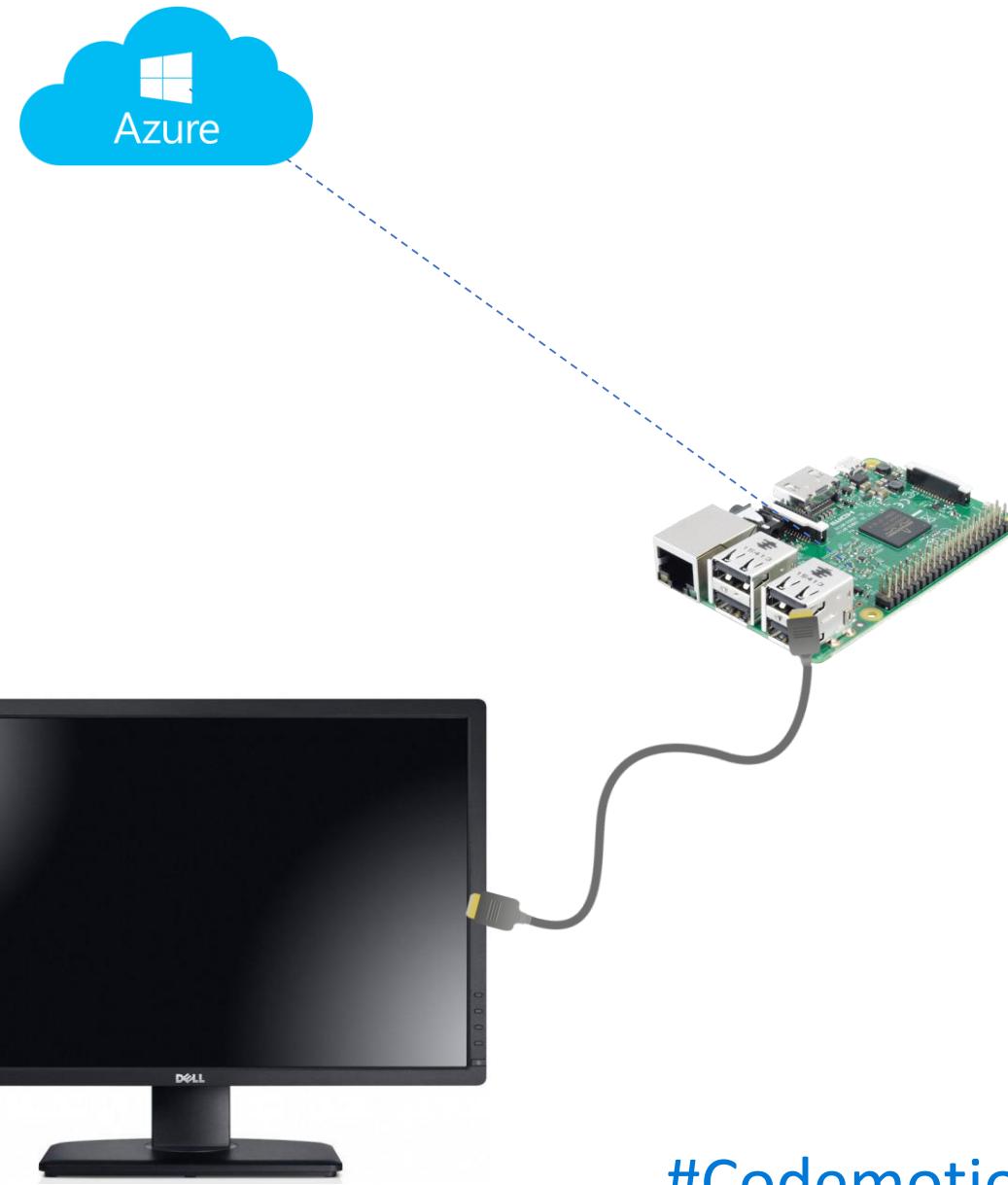
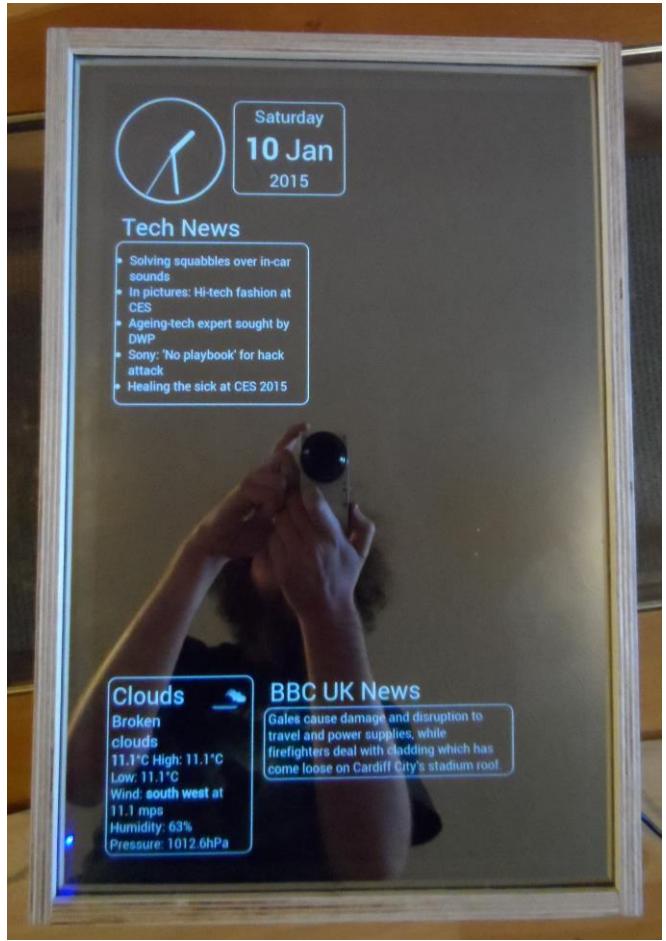
#CodemotionMadrid

# SMART MIRROR



<https://blogs.windows.com/msedgedev/2016/05/31/magic-mirror-hosted-web-app/#fp5Ee1ijmb5IvIFI.97>

# SMART MIRROR

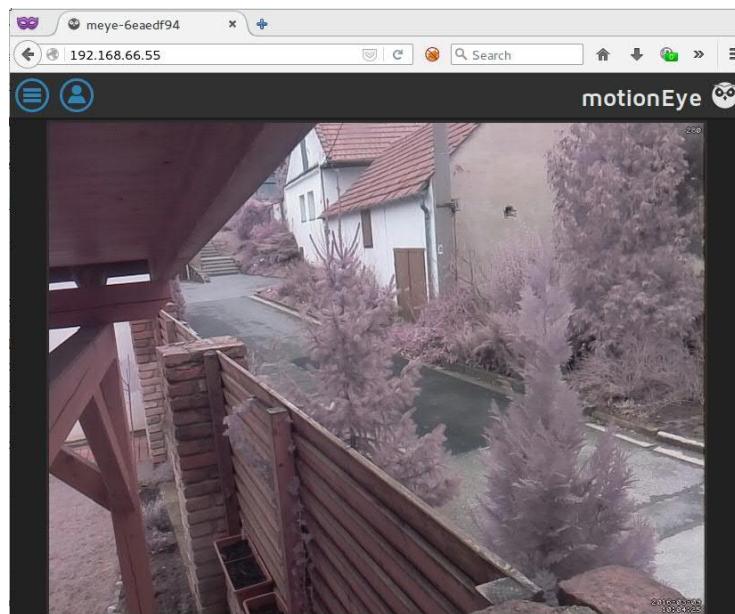


#CodemotionMadrid

# SECURITY CAMERA IOT

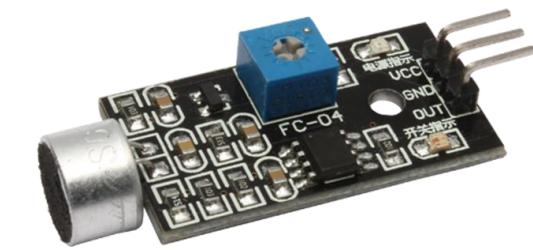
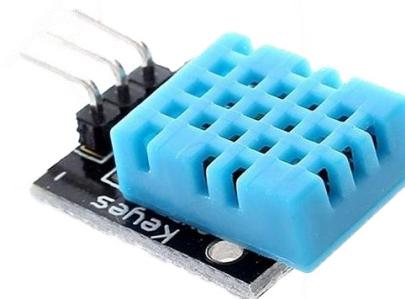
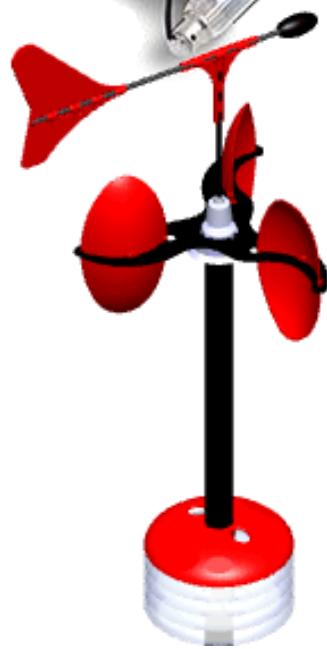
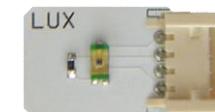
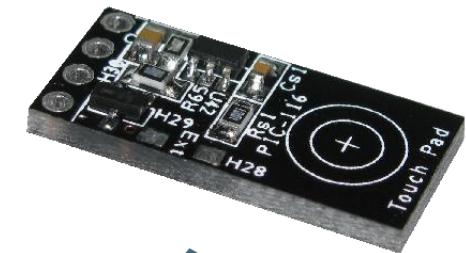
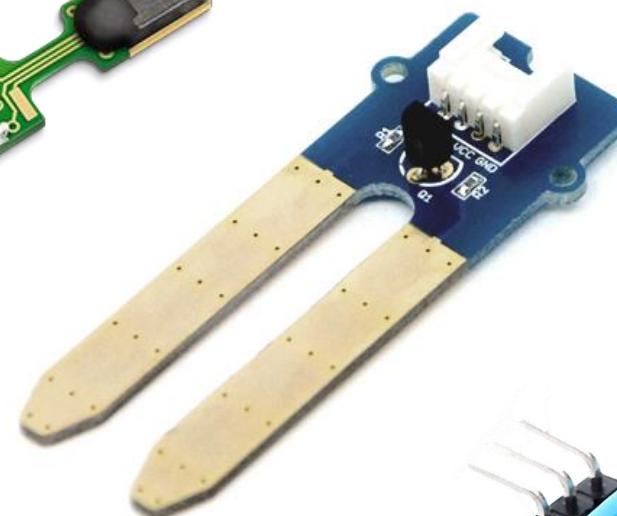
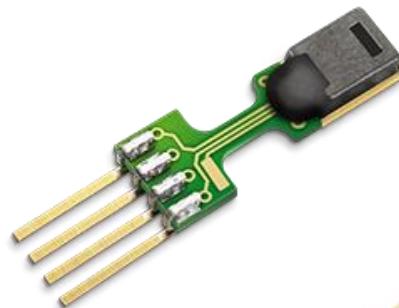
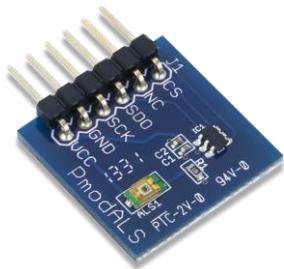
## MotionEye OS

- Detección de movimiento
- Grabación de video
- Streaming en vivo
- Notificaciones SMS/email



<https://darkbluebit.com/raspberry-pi/low-cost-security-camera/>

#CodemotionMadrid



#CodemotionMadrid



<https://www.raspberrypi.org/magpi/>



<http://www.instructables.com/howto/iot/>



hackster.io

<http://hackster.io>



[Hackaday](https://hackaday.com)

<https://hackaday.com>

coursera

<https://www.coursera.org>

udemy

<https://www.udemy.com>

#CodemotionMadrid

# Q & A?

(Si queda tiempo, que no suele pasar....)

¡¡Gracias  
por vuestra  
atención!!



Isabel Cabezas - **@isabelcabezasm**



Juliet Moreiro - **@julietsvq**

<https://elrefugio.org>

