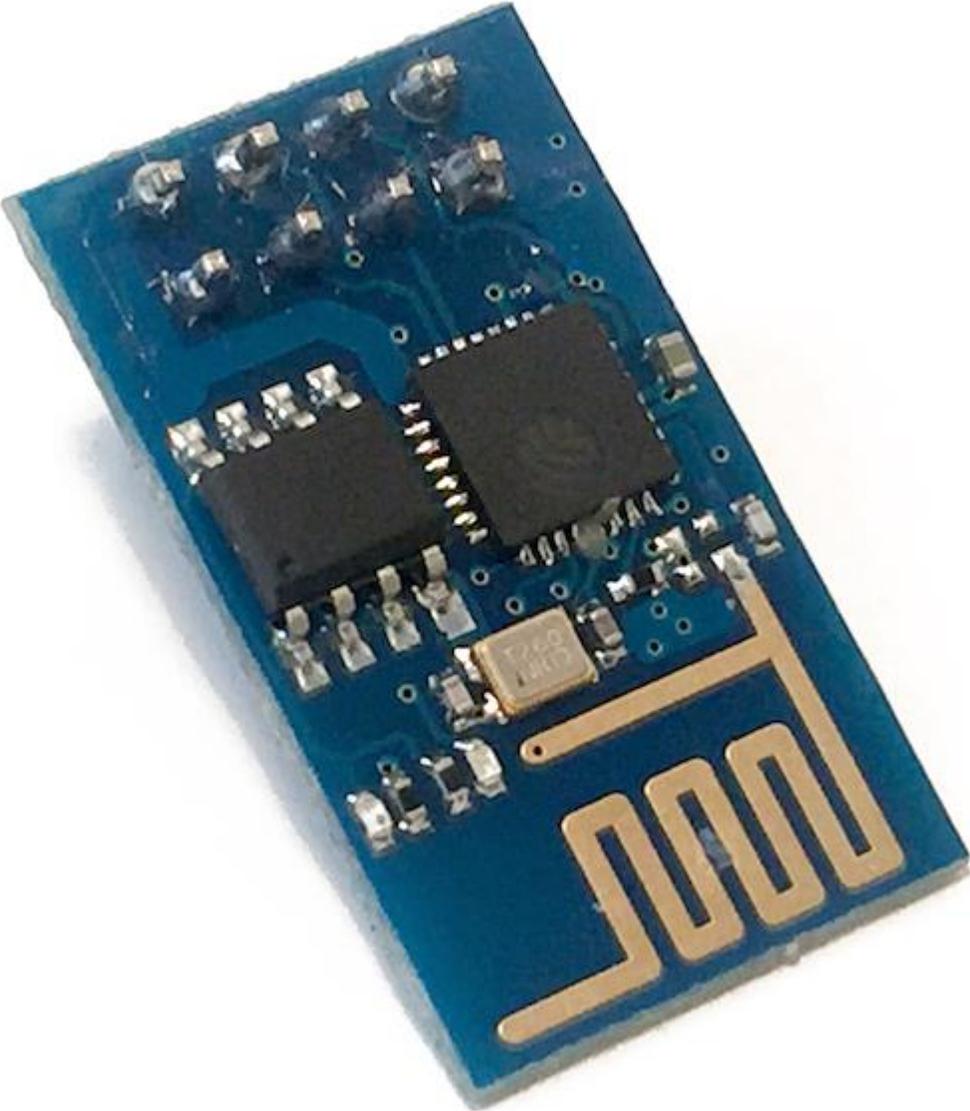
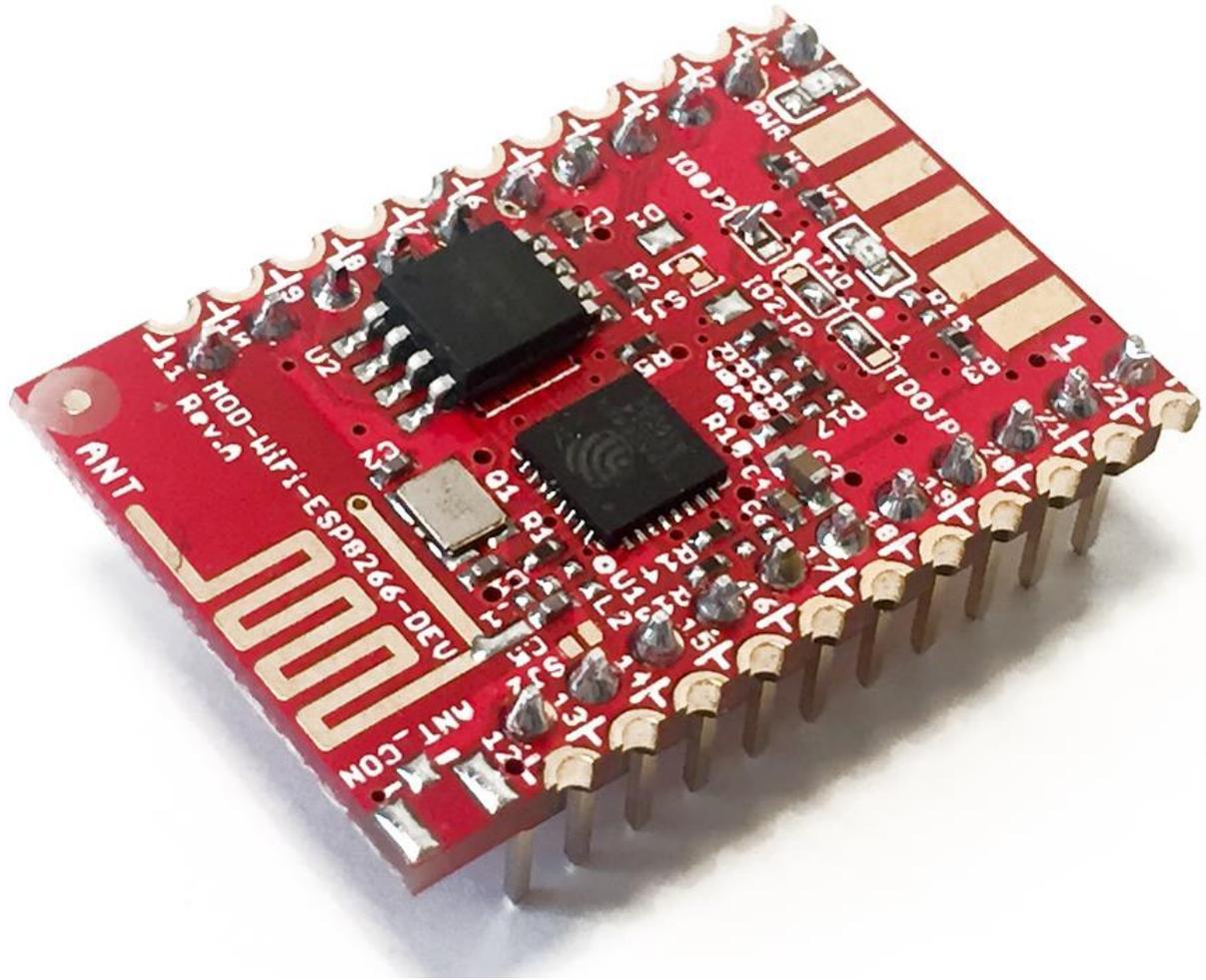
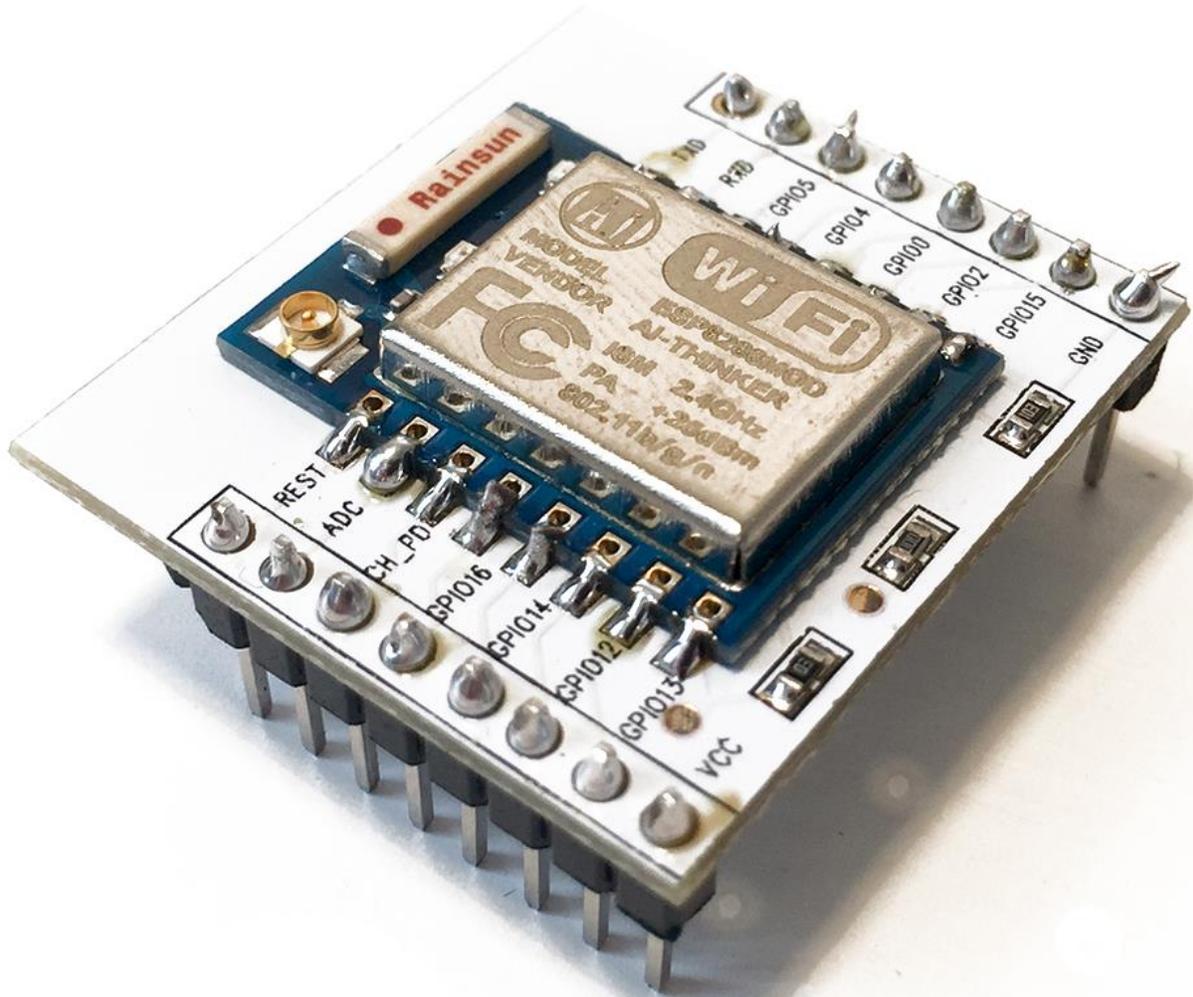


Chapter 1: Getting Started with the ESP8266







Rainsun

WIFI
FC
ESP8266MOD
AI-THINKER
PA 2.4GHz
802.11b/g/n

REST

ADC

CH_PD

GPIO16

GPIO14

GPIO12

GPIO13

VCC

GPIO5

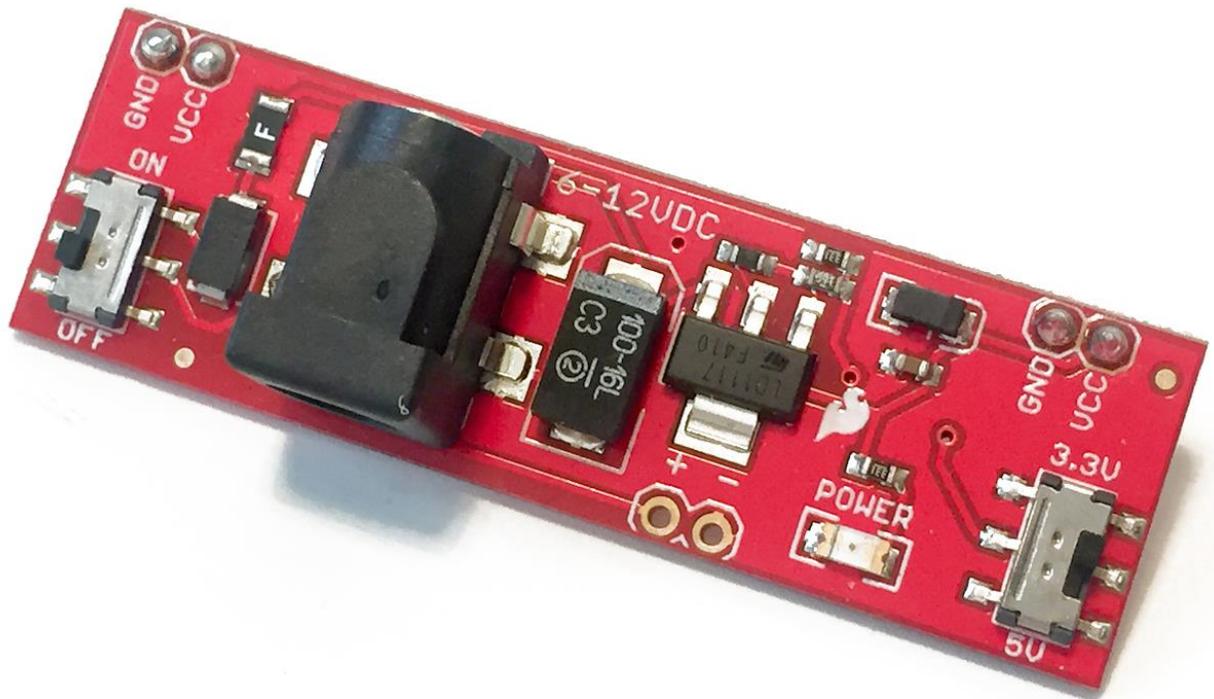
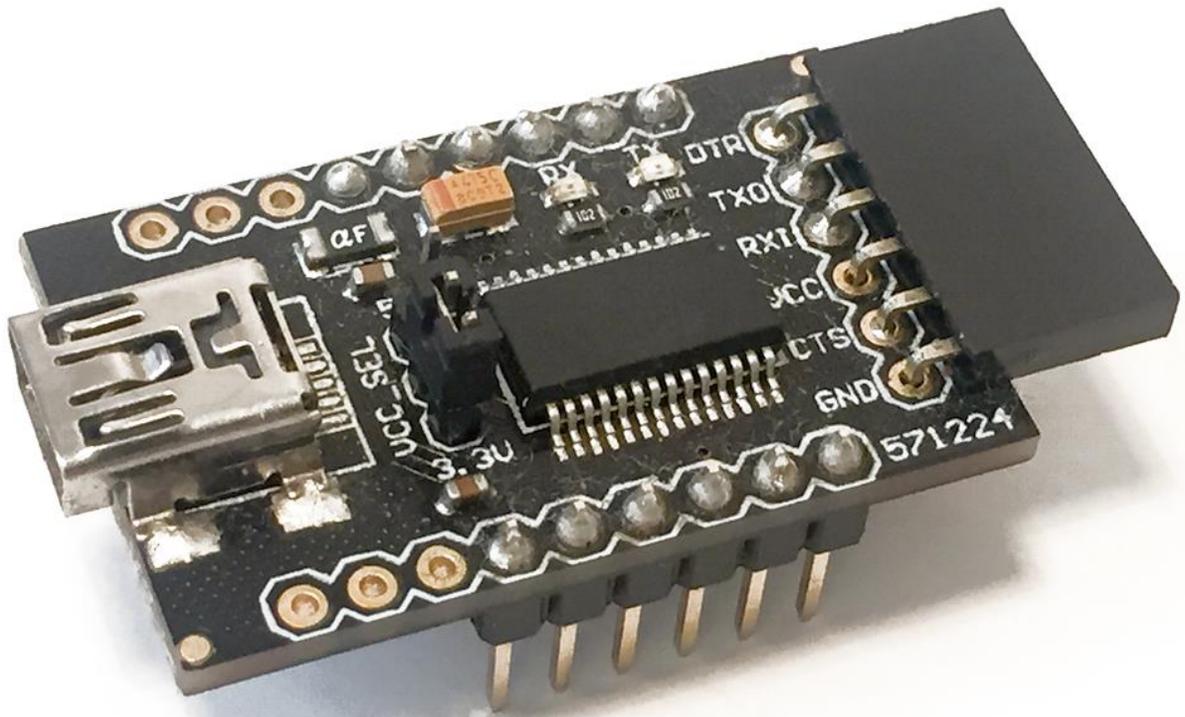
GPIO4

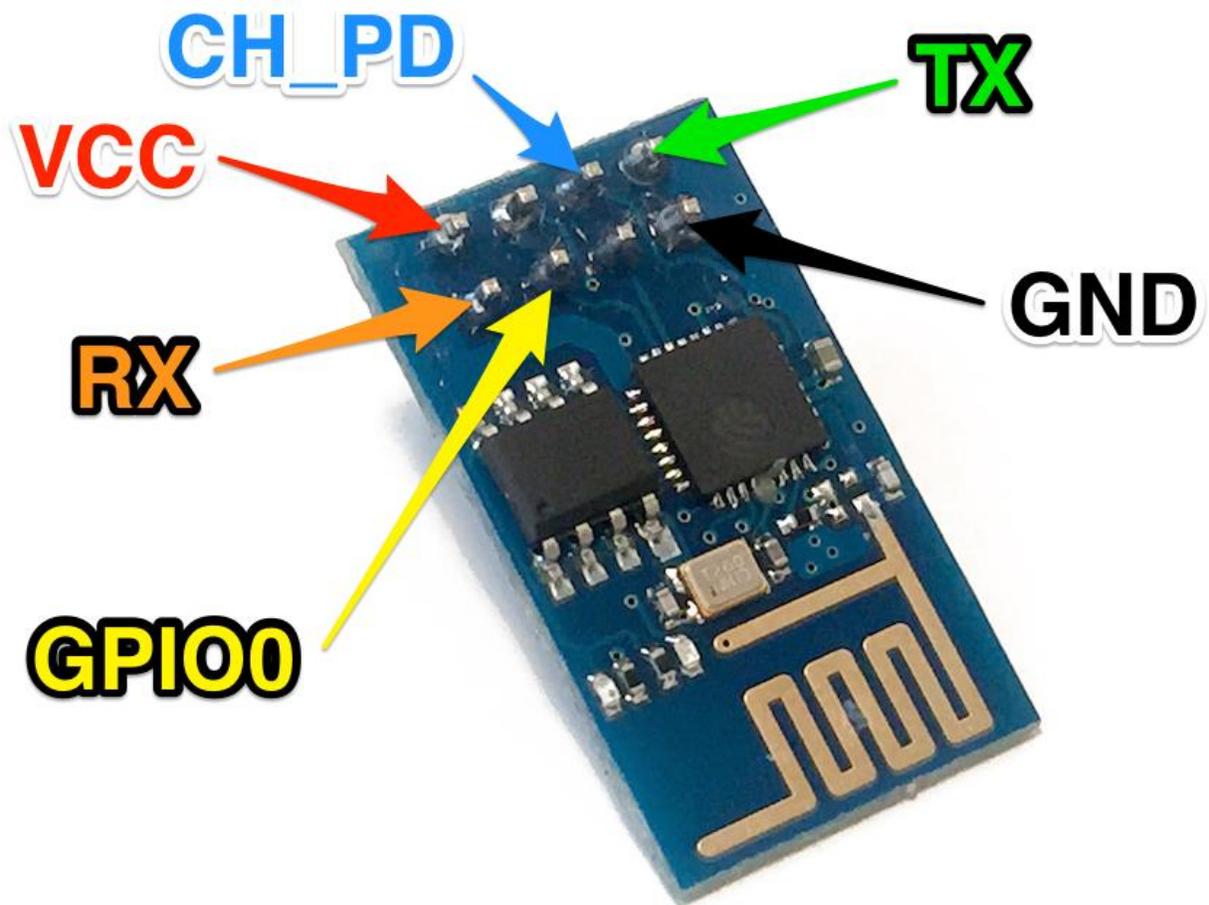
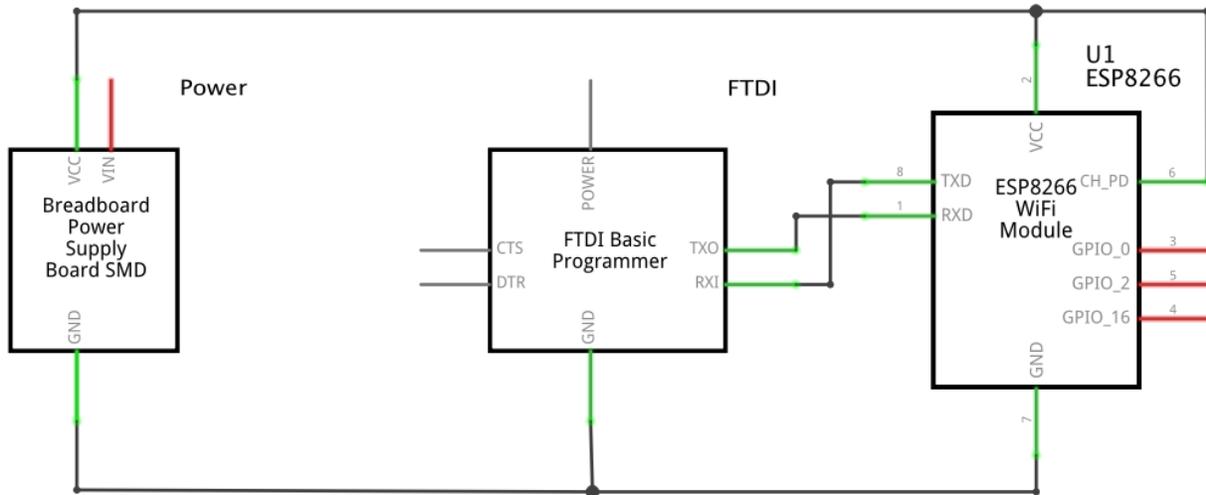
GPIO0

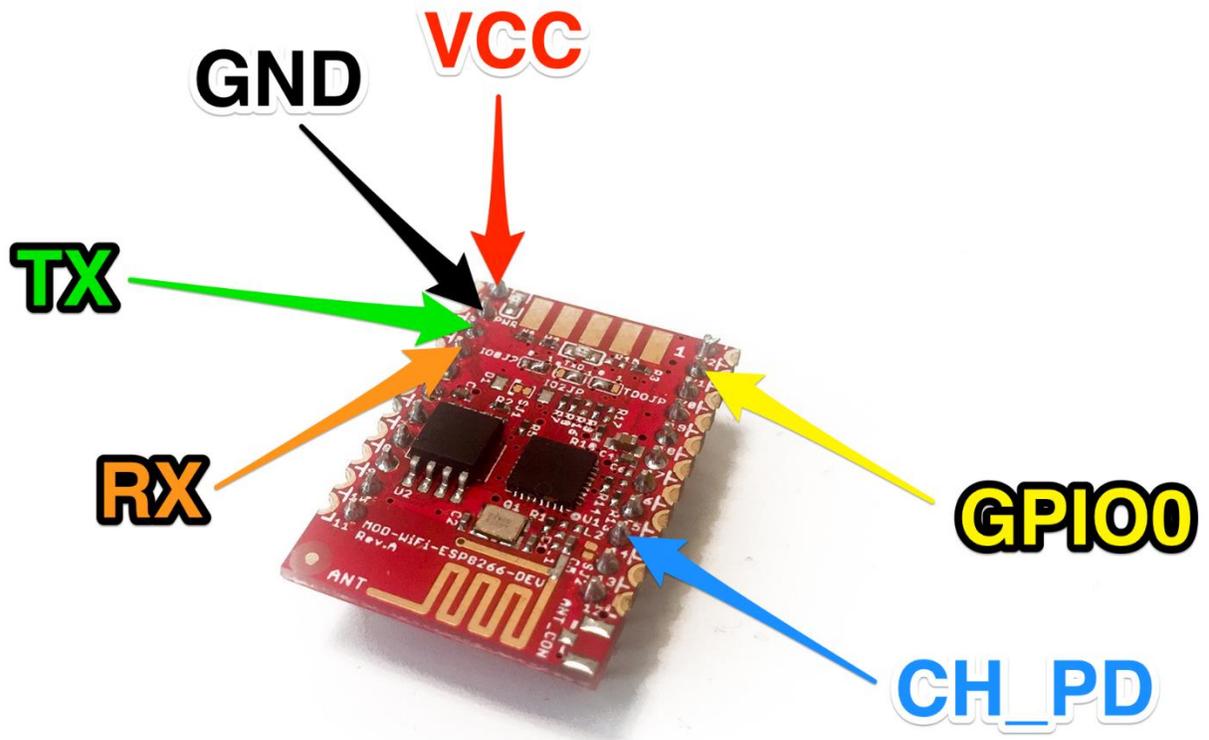
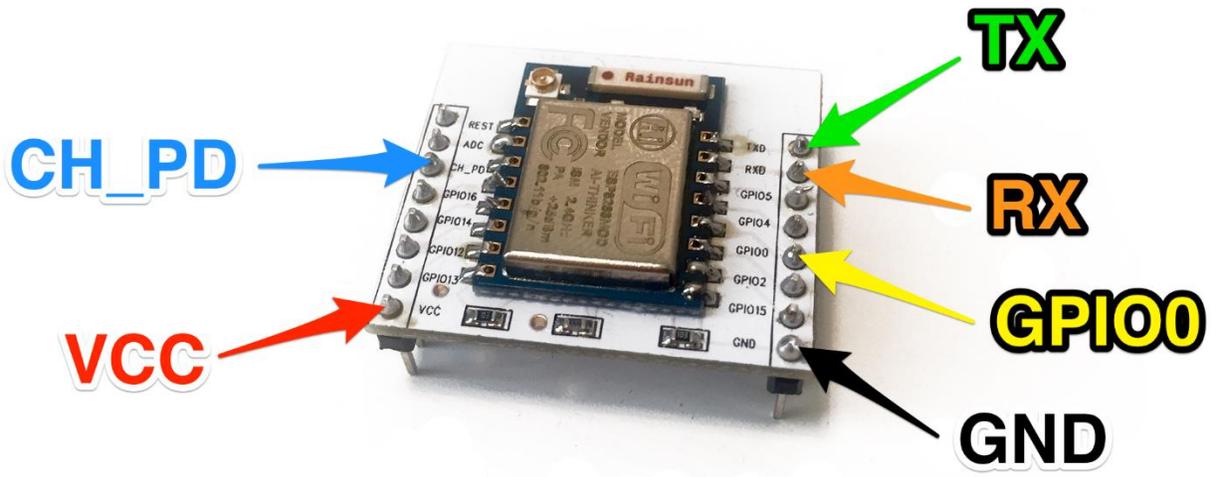
GPIO2

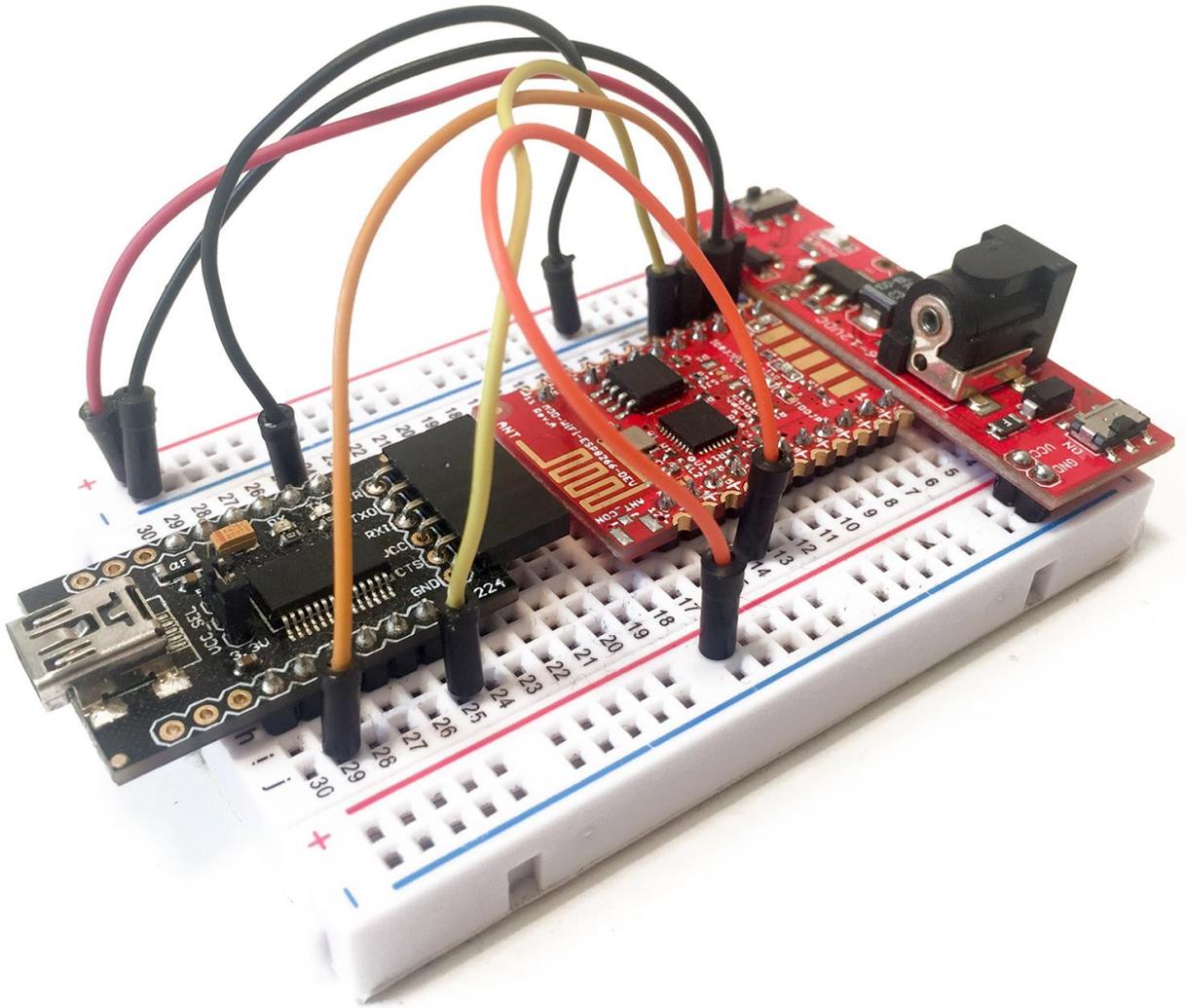
GPIO15

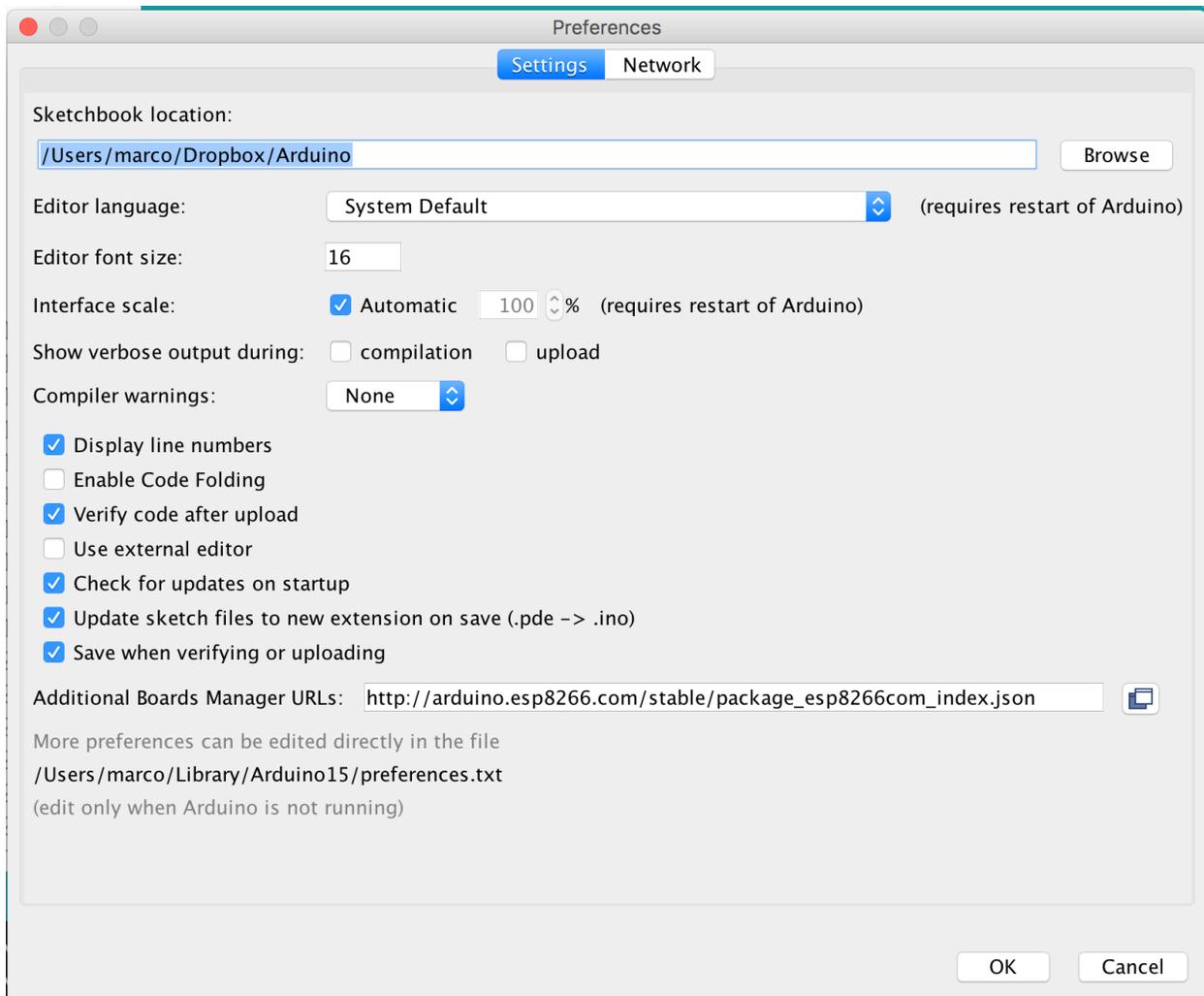
GND



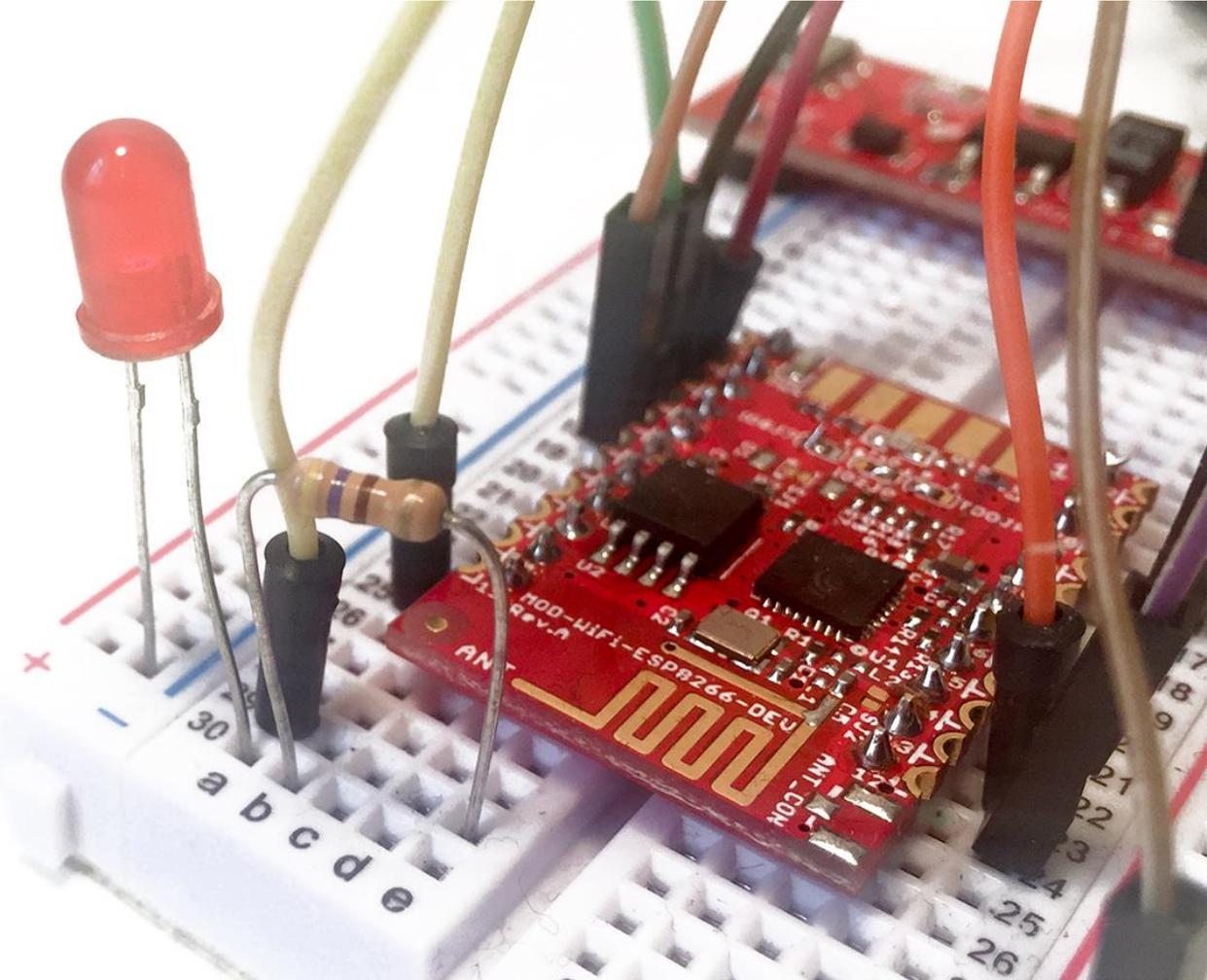








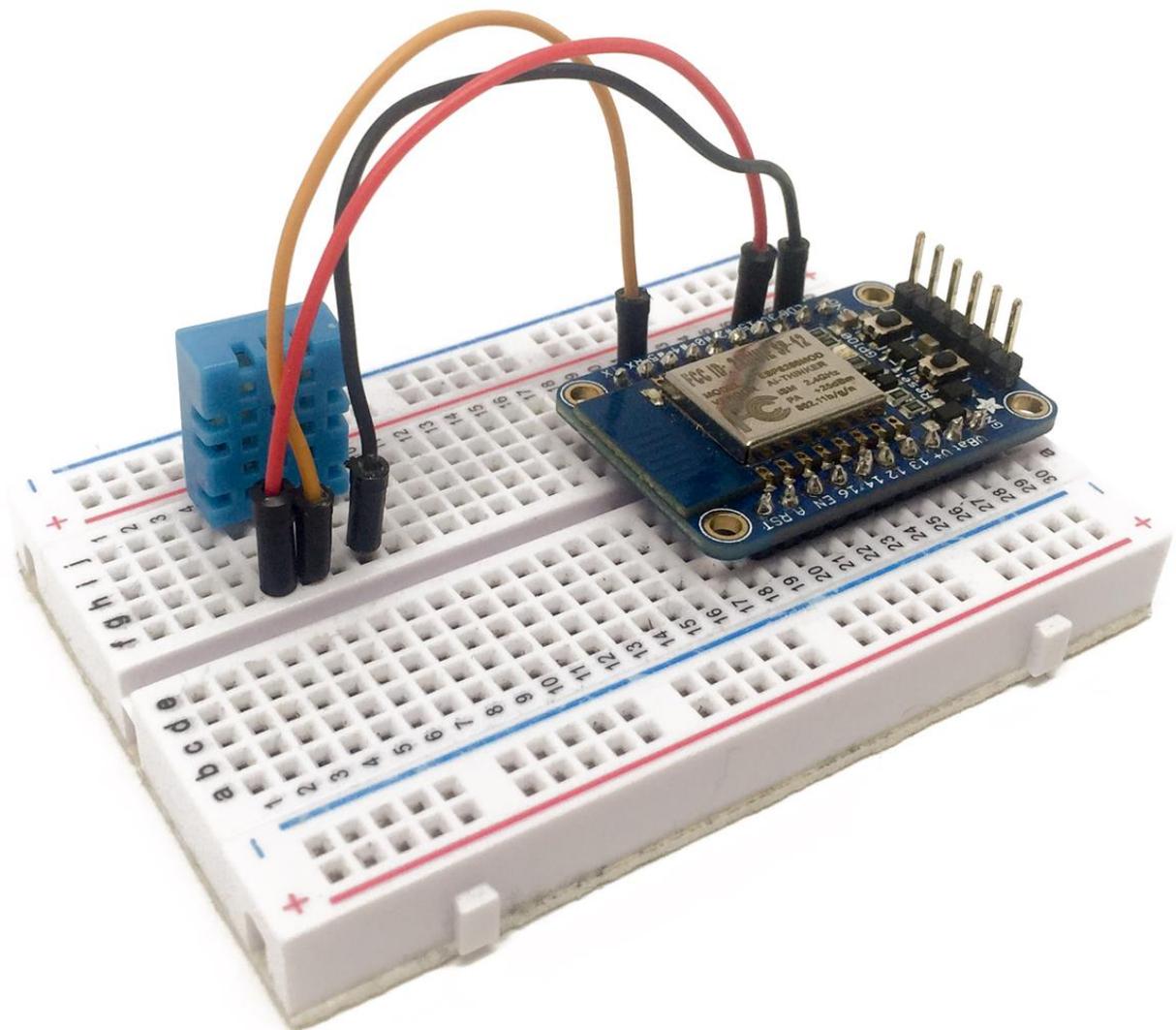
Chapter 2: First Projects with the ESP8266



Terminal window titled `/dev/tty.usbserial-A9014TM4` with a `Send` button.

```
        background-color: #fff;
    }
    div {
        width: auto;
        margin: 0 auto;
        border-radius: 0;
        padding: 1em;
    }
}
</style>
</head>
<body>
<div>
  <h1>Example Domain</h1>
  <p>This domain is established to be used for illustrative examples in documents. You may use
  this domain in examples without prior coordination or asking for permission.</p>
  <p><a href="http://www.iana.org/domains/example">More information...</a></p>
</div>
</body>
</html>
closing connection
Connecting to www.example.com
```

Autoscroll Carriage return 115200 baud



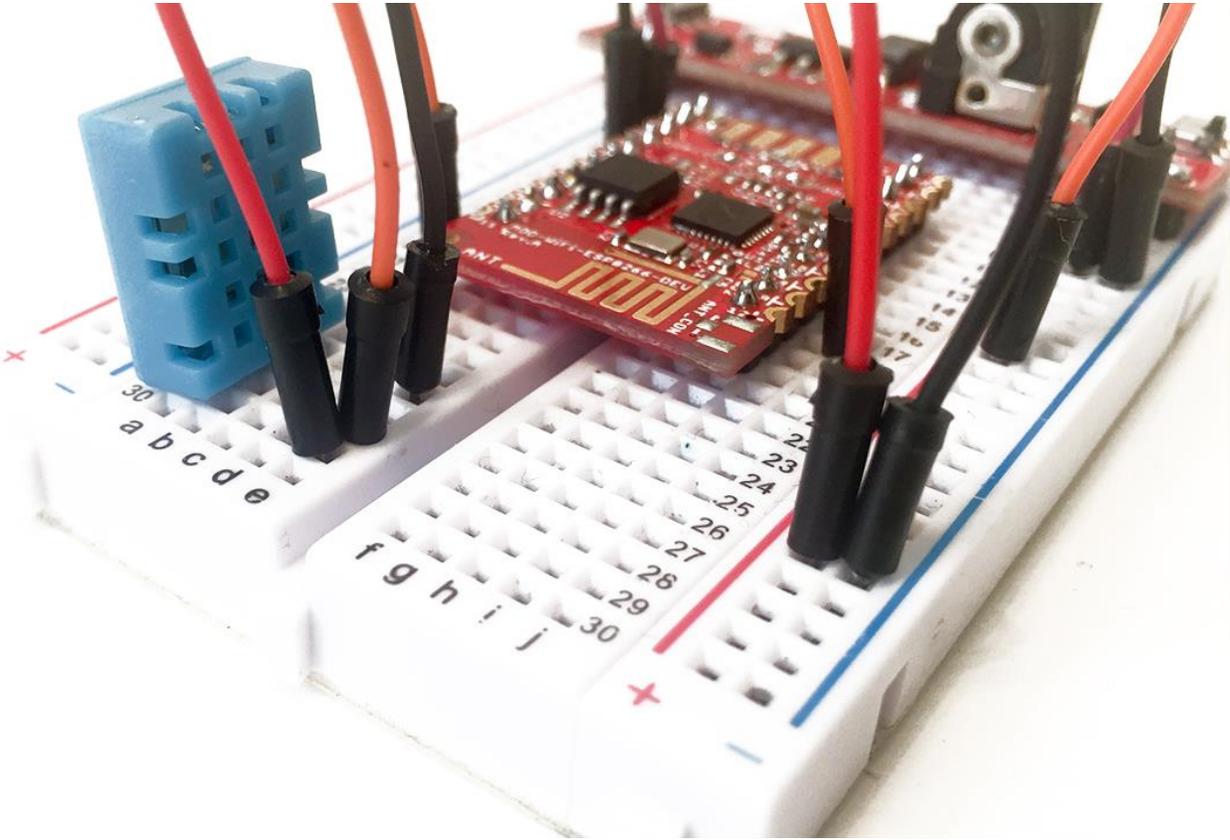
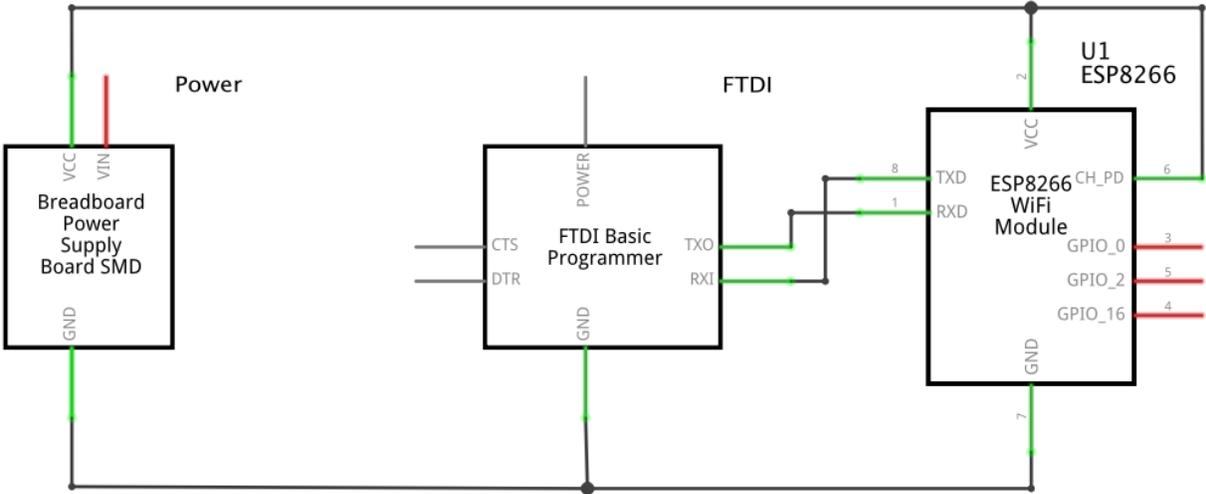
Terminal window titled "/dev/cu.usbserial-A9014TM4" showing the following output:

```
..  
WiFi connected  
Server started  
192.168.115.105
```

Terminal controls at the bottom:

- Autoscroll
- Both NL & CR
- 115200 baud

Chapter 3: Cloud Data Logging with the ESP8266



DATASOURCE

A datasource for connecting to things at dweet.io.

TYPE: Dweet.io

NAME: ESP8266

THING NAME: myesp8266
Example: salty-dog-1

KEY:
If the thing is not locked, you can ignore this field

SAVE CANCEL

WIDGET

TYPE: Gauge

TITLE: Temperature

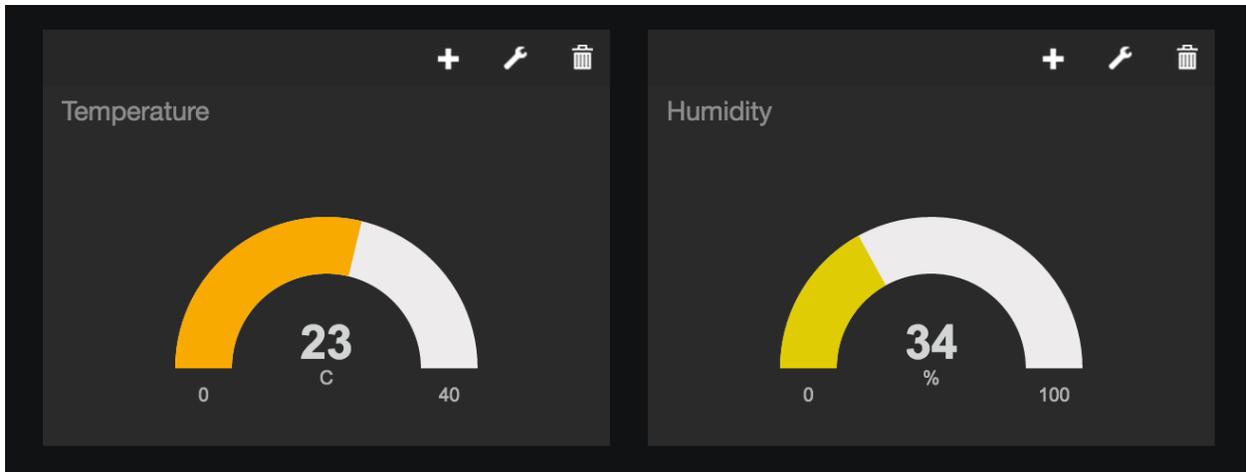
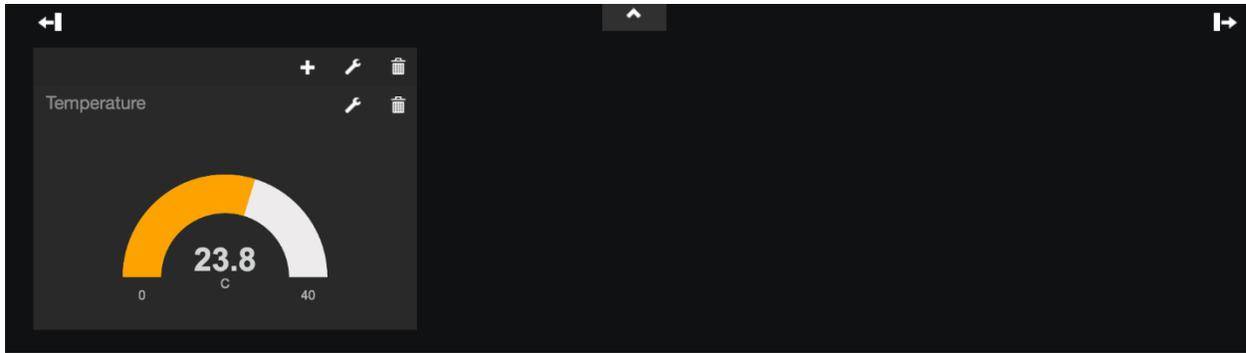
VALUE: datasources["ESP8266"]["temperature"] [+ DATASOURCE](#) [JS EDITOR](#)

UNITS: C

MINIMUM: 0

MAXIMUM: 40

SAVE CANCEL



WIDGET

TYPE

TITLE

VALUE [+ DATASOURCE](#) [.JS EDITOR](#)

[+ ADD](#)

INCLUDE LEGEND NO

SPARKLINE LABELS

Input comma-separated text to name each sparkline (e.g. sparkline 1, sparkline 2)

[SAVE](#) [CANCEL](#)

WIDGET

TYPE

TITLE

VALUE [+ DATASOURCE](#) [.JS EDITOR](#)

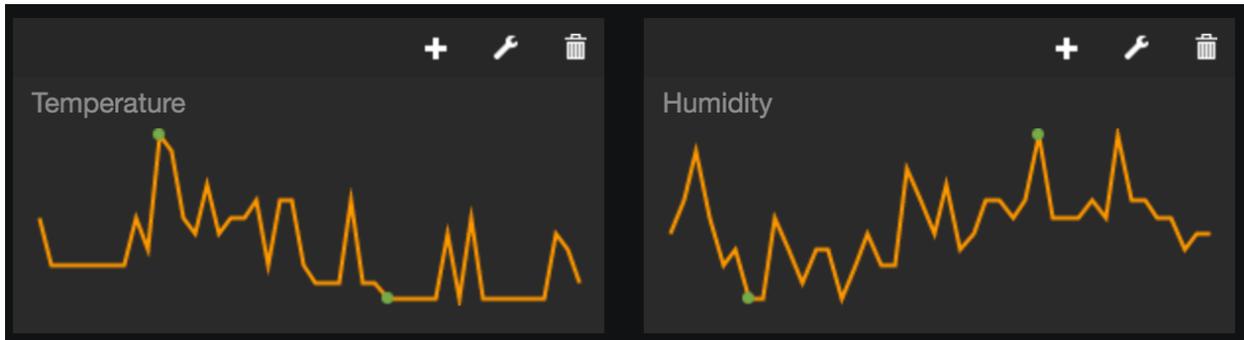
[+ ADD](#)

INCLUDE LEGEND NO

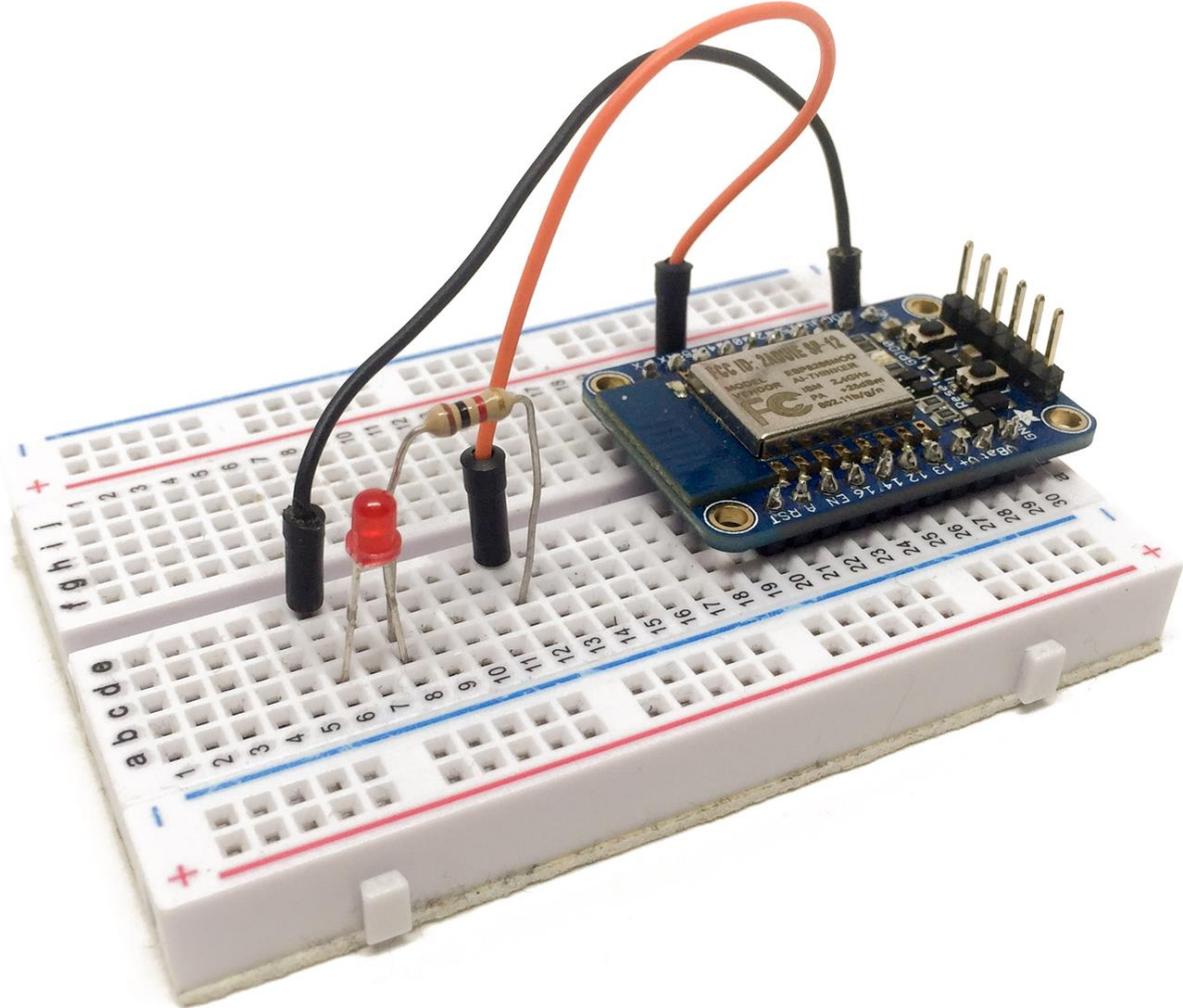
SPARKLINE LABELS

Input comma-separated text to name each sparkline (e.g. sparkline 1, sparkline 2)

[SAVE](#) [CANCEL](#)



Chapter 4: Control Devices from Anywhere



Your dashboards:

[ESP8266](#)

[Raspberry Pi Module](#)

[Raspberry Pi Boards](#)

[Cloud Data Monitoring](#)

Add a new dashboard

Delete

Delete

Delete

Delete

ESP8266

Hide Edit Mode

LED 9u2co4 Analog 5 Slider [Create new element](#)

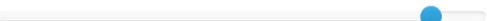
ESP8266

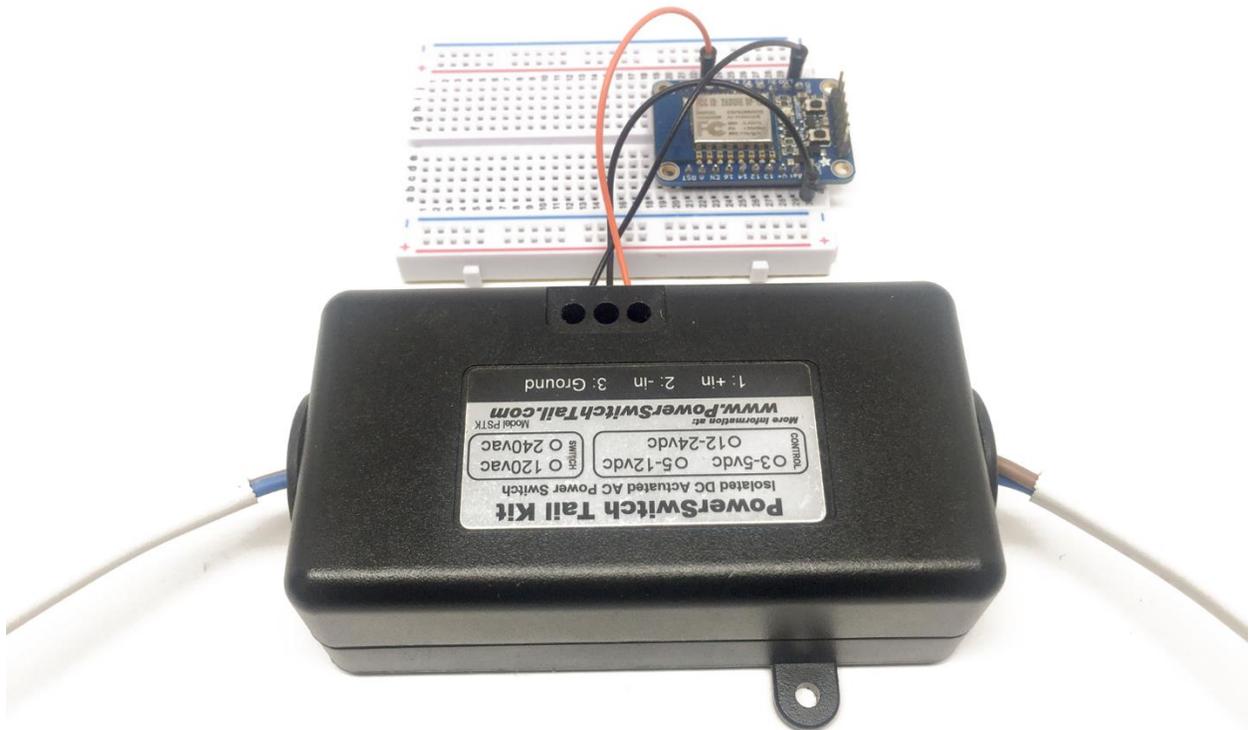
Show Edit Mode

LED  [devices_control](#) [ONLINE](#)

ESP8266

Show Edit Mode

LED  [devices_control](#) [ONLINE](#)



ESP8266

Hide Edit Mode

Lamp 9u2co4 Digital 5 On/Off [Create new element](#)

ESP8266

Show Edit Mode

Lamp

On

Off

devices_control

ONLINE



Chapter 5: Interacting With Web Services

The screenshot shows the Temboo user dashboard for 'marcoschwartz'. At the top right, the user's name and a 'sign out' link are visible. A navigation bar includes 'IOT APPS', 'LIBRARY', 'ACTIVITY', 'SUPPORT', and 'ACCOUNT'. On the left, there is a search bar and a sidebar with 'Favorites' and 'Categories'. The main content area features a profile card for 'marcoschwartz' with a 'FRIENDLY PLAN' and a bar chart showing 'runs for February 2016' with a value of 3 out of 10000. Below this are sections for 'MOST RUN CHOREOS' (listing tasks like 'Google . Spreadsheets . AppendRow'), 'SUCCESS RATE' (90%), and 'PROFILES' (10). A sidebar on the left lists various choreos such as '23andMe', 'Amazon', and 'AuthorizeNet'.

The screenshot shows the 'Applications' management page in the Temboo dashboard. The left sidebar contains 'ACCOUNT', 'Account Info', 'Applications' (highlighted), 'Profiles', 'Organization', and 'Referrals'. The main content area is titled 'Applications' and includes a description: 'Your Application Name and Key (along with your Account Name) connect your code to Temboo. Manage your Application information right here.' Below this, a table lists application details:

ACCOUNT	marcoschwartz
APPLICATION	myFirstApp EDIT
KEY	[REDACTED] REGENERATE

At the bottom right, there is a '+ New Application' button.



Tell us about your shield

Name

ESP8266

Shield Type

Arduino WiFi

Security Type

WPA

SSID

Jarex_5A

Password

.....|

Cancel

Save



Arduino



ESP8266



Want to stream sensor data?



Yahoo . Weather . **GetWeatherByAddress** ☆

Retrieves the Yahoo Weather RSS Feed for any specified location by address.

 **Is this Choreo triggered by a sensor event?**

INPUT

[Save Profile](#)

 **Address**

The address to be searched.

▶ OPTIONAL INPUT

[Run](#) 

▼ OUTPUT

Successful run at 02:30 ET

▼ CODE

[Download](#) 

```
#include <SPI.h>
#include <WiFi.h>
#include <WiFiClient.h>
#include <Temboo.h>
#include "TembooAccount.h" // Contains Temboo account information

WiFiClient client;

int numRuns = 1; // Execution count, so this doesn't run forever
int maxRuns = 10; // Maximum number of times the Choreo should be executed

void setup() {
  Serial.begin(9600);

  // For debugging, wait until the serial console is connected
  delay(4000);
  while(!Serial);
```

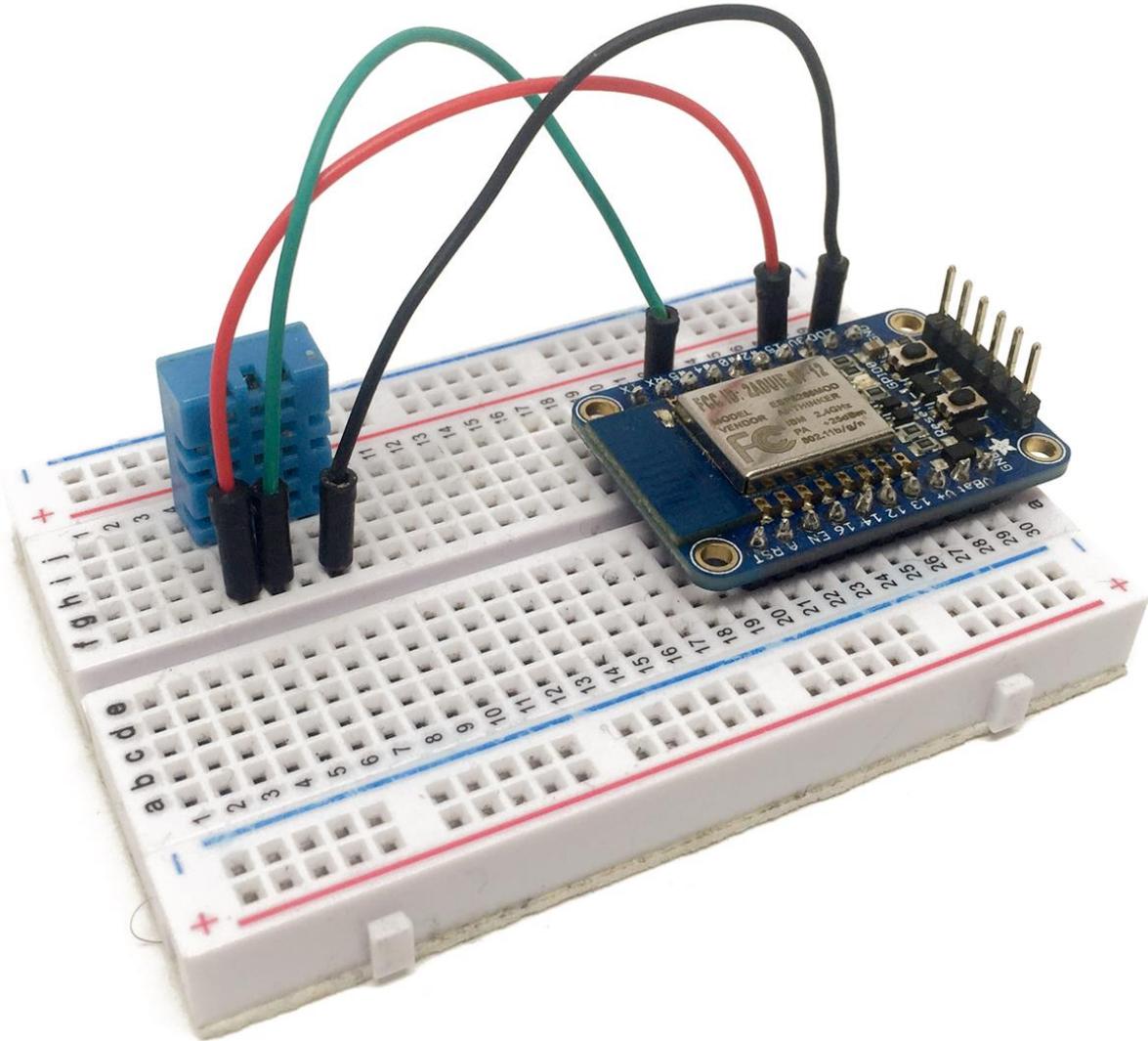
[COPY](#)

```
High
41
ForecastText
Cloudy
Temperature
37
ConditionText
Light Rain
WOEID
505477
ForecastCode
26
Pressure
28.9
ConditionCode
11
Response
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
```

Autoscroll

Both NL & CR

9600 baud



Twitter Apps

Create New App



MyYunTemboo

Tweet with Temboo



SocialBotApp

SocialBotApp



SocialGearApp

SocialGearApp

Application Details

Name *

Your application name. This is used to attribute the source of a tweet and in user-facing authorization screens. 32 characters max.

Description *

Your application description, which will be shown in user-facing authorization screens. Between 10 and 200 characters max.

Website *

Your application's publicly accessible home page, where users can go to download, make use of, or find out more information about your application. This fully-qualified URL is used in the source attribution for tweets created by your application and will be shown in user-facing authorization screens.
(If you don't have a URL yet, just put a placeholder here but remember to change it later.)

Callback URL

Where should we return after successfully authenticating? **OAuth 1.0a** applications should explicitly specify their `oauth_callback` URL on the request token step, regardless of the value given here. To restrict your application from using callbacks, leave this field blank.

Application Settings

Your application's Consumer Key and Secret are used to **authenticate** requests to the Twitter Platform.

Access level

Read and write ([modify app permissions](#))

Consumer Key (API Key)

 ([manage keys and access tokens](#))

Application Settings

Keep the "Consumer Secret" a secret. This key should never be human-readable in your application.

Consumer Key (API Key)	[REDACTED]
Consumer Secret (API Secret)	[REDACTED]
Access Level	Read and write (modify app permissions)
Owner	MarcoSchwartz
Owner ID	[REDACTED]

Your Access Token

This access token can be used to make API requests on your own account's behalf. Do not share your access token secret with anyone.

Access Token	[REDACTED]
Access Token Secret	[REDACTED]
Access Level	Read and write
Owner	MarcoSchwartz
Owner ID	81862926

INPUT

Save Profile

Access Token

The Access Token provided by Twitter or retrieved during the OAuth process.

AccessTokenSecret

The Access Token Secret provided by Twitter or retrieved during the OAuth process.

ConsumerKey

The API Key (or Consumer Key) provided by Twitter.

ConsumerSecret

The API Secret (or Consumer Secret) provided by Twitter.

StatusUpdate

The text for your status update. 140-character limit.

▶ OPTIONAL INPUT

Run

Tweets

Tweets & replies

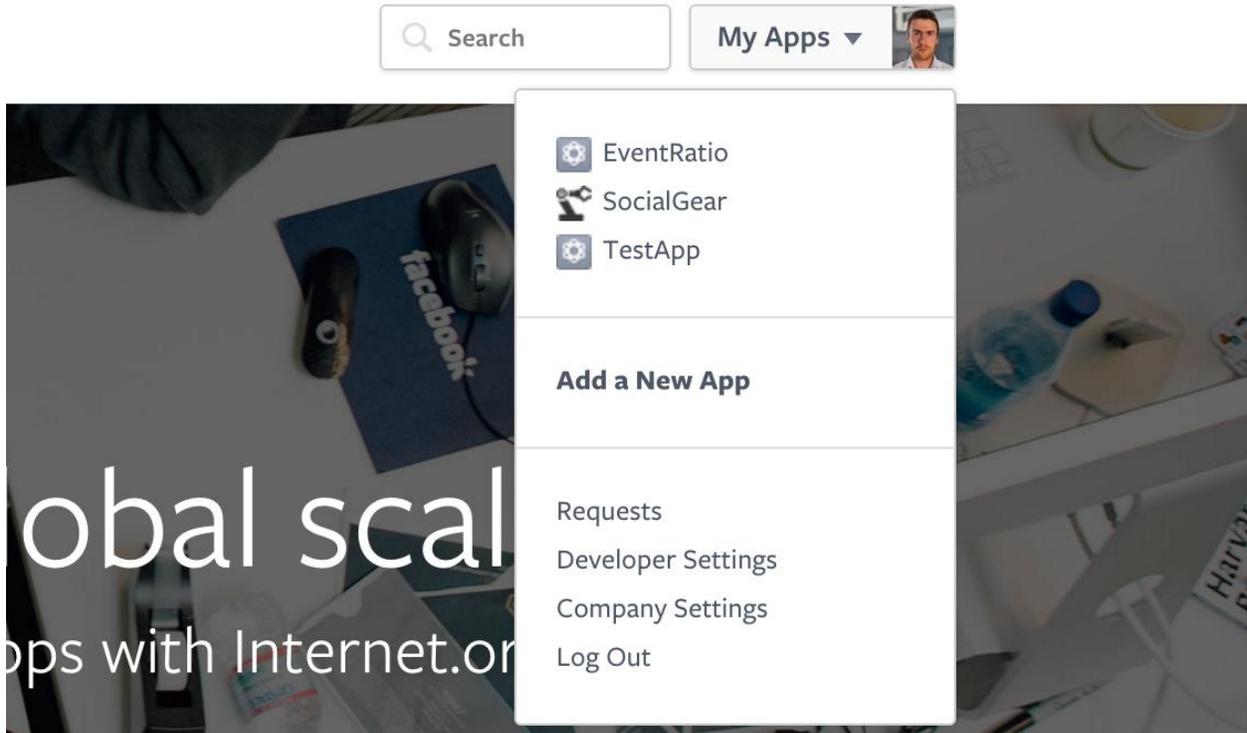
Photos & videos



Marco Schwartz @MarcoSchwartz · 8s

The temperature is 33.00 and the humidity is 26.00.





Add a New App

Select a platform to get started



iOS



Android



Facebook Canvas



Website

If you're developing on another platform or want to skip this step for now, use the [basic setup](#).

Start Over Skip and Create App ID

WWW

Quick Start for Website

ESP8266 ×

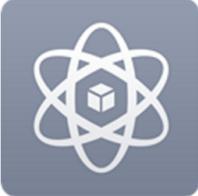
[Create New Facebook App ID](#)

Tell us about your website

Site URL

[Next](#)

Dashboard



ESP8266 ○

This app is in development mode and can only be used by app admins, developers and testers [?]

App ID <input type="text" value="ESP8266"/>	API Version [?] <input type="text" value="v2.5"/>	App Secret <input type="text" value="●●●●●●"/> Show
--	--	--

Client OAuth Settings

 Yes

Client OAuth Login

Enables the standard OAuth client token flow. Secure your application and prevent abuse by locking down which token redirect URIs are allowed with the options below. Disable globally if not used. [?]

 Yes

Web OAuth Login

Enables web based OAuth client login for building custom login flows. [?]

 No

Force Web OAuth Reauthentication

When on, prompts people to enter their Facebook password in order to log in on the web. [?]

 No

Embedded Browser OAuth Login

Enables browser control redirect uri for OAuth client login. [?]

Valid OAuth redirect URIs

 No

Login from Devices

Enables the OAuth client login flow for devices like a smart TV [?]

INPUT

AppID

The App ID provided by Facebook.

Scope

A comma-separated list of permissions to request access for (i.e. "publish_actions,read_mailbox"). For more information see Choreo notes.

▶ OPTIONAL INPUT

Run 

Facebook . Publishing . Post ☆

Adds an entry to a user's profile feed.

 **Is this Choreo triggered by a sensor event?**

INPUT Get OAuth Tokens

AccessToken

The access token retrieved from the final step of the OAuth process.

Link

Link to Post. Supply either a message or a link

Message

The message to Post. Supply either a message or a link.

▶ OPTIONAL INPUT

Run 

INPUT  **Get OAuth Tokens**

[Save Profile](#)

AccessToken

The access token retrieved from the final step of the OAuth process.

Link

Link to Post. Supply either a message or a link

Message

The message to Post. Supply either a message or a link.

▶ **OPTIONAL INPUT**

Run 



Marco Schwartz

Just now · ESP8266 ·  

A simple message from the ESP8266!

 Like

 Comment

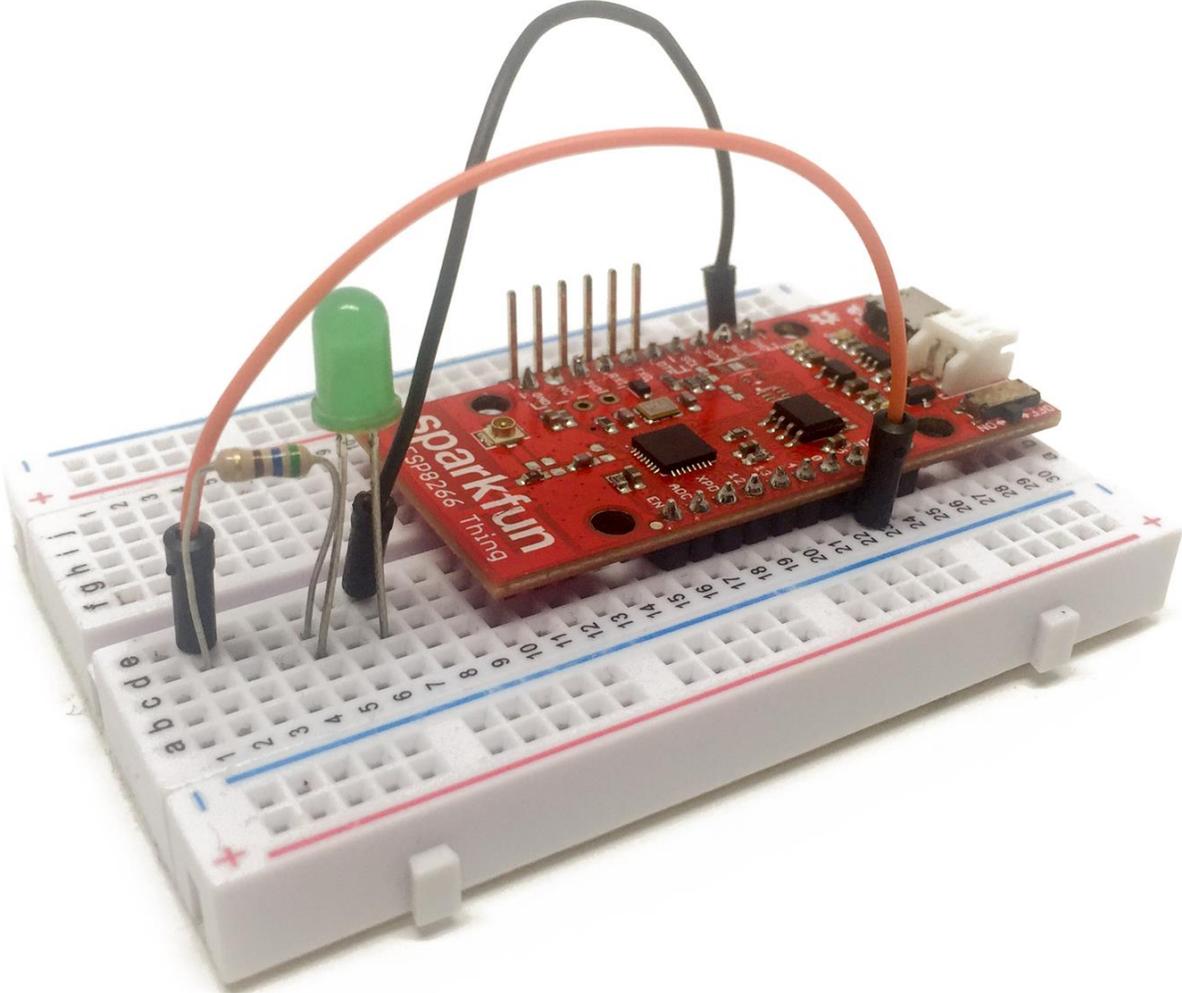
 Share

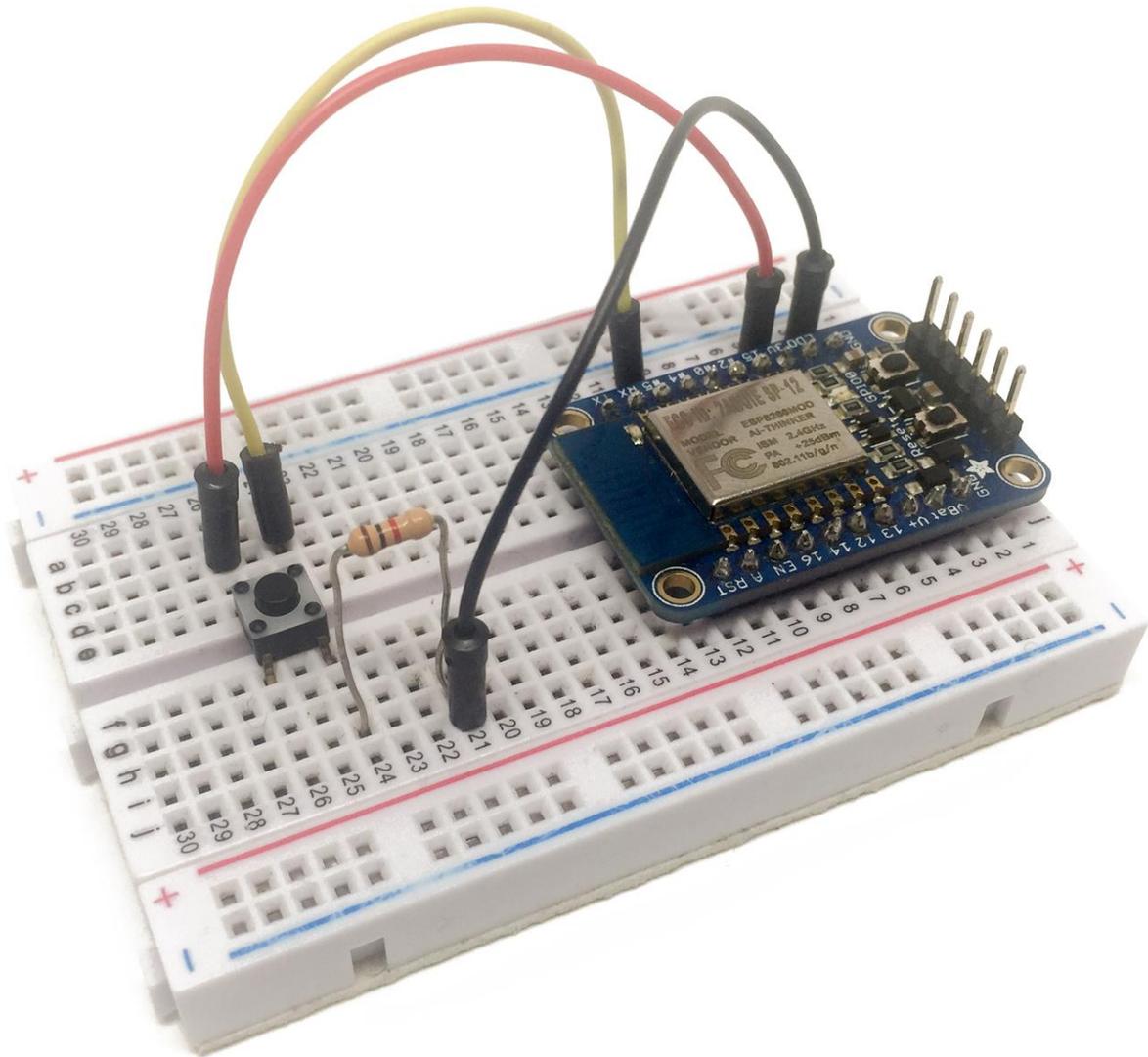


Write a comment...



Chapter 6: Machine-to-Machine Communications





Choose Trigger Channel step 1 of 7

Showing Channels that provide at least one Trigger. [View all Channels](#)

maker



Maker



WeMo
Coffeemaker



WeMo Maker

M Choose a Trigger

step 2 of 7

back ^

Receive a web request

This Trigger fires every time the Maker Channel receives a web request to notify it of an event. See "How to Trigger Events" on the Maker Channel page (<https://ifttt.com/maker>) for more information.

M Complete Trigger Fields

step 3 of 7

back ^

Receive a web request

M Event Name

The name of the event, like "button_pressed" or "front_door_opened"

Create Trigger

Choose Action Channel

step 4 of 7

back ^

Showing Channels that provide at least one Action. [View all Channels](#)



Maker



WeMo
Coffeemaker



WeMo Maker

Choose an Action

step 5 of 7

back ^

Make a web request

This Action will make a web request to a publicly accessible URL. NOTE: Requests may be rate limited.

Complete Action Fields

step 6 of 7

back ^

Make a web request

URL

Surround any text with "<<<" and ">>>" to escape the content

Method

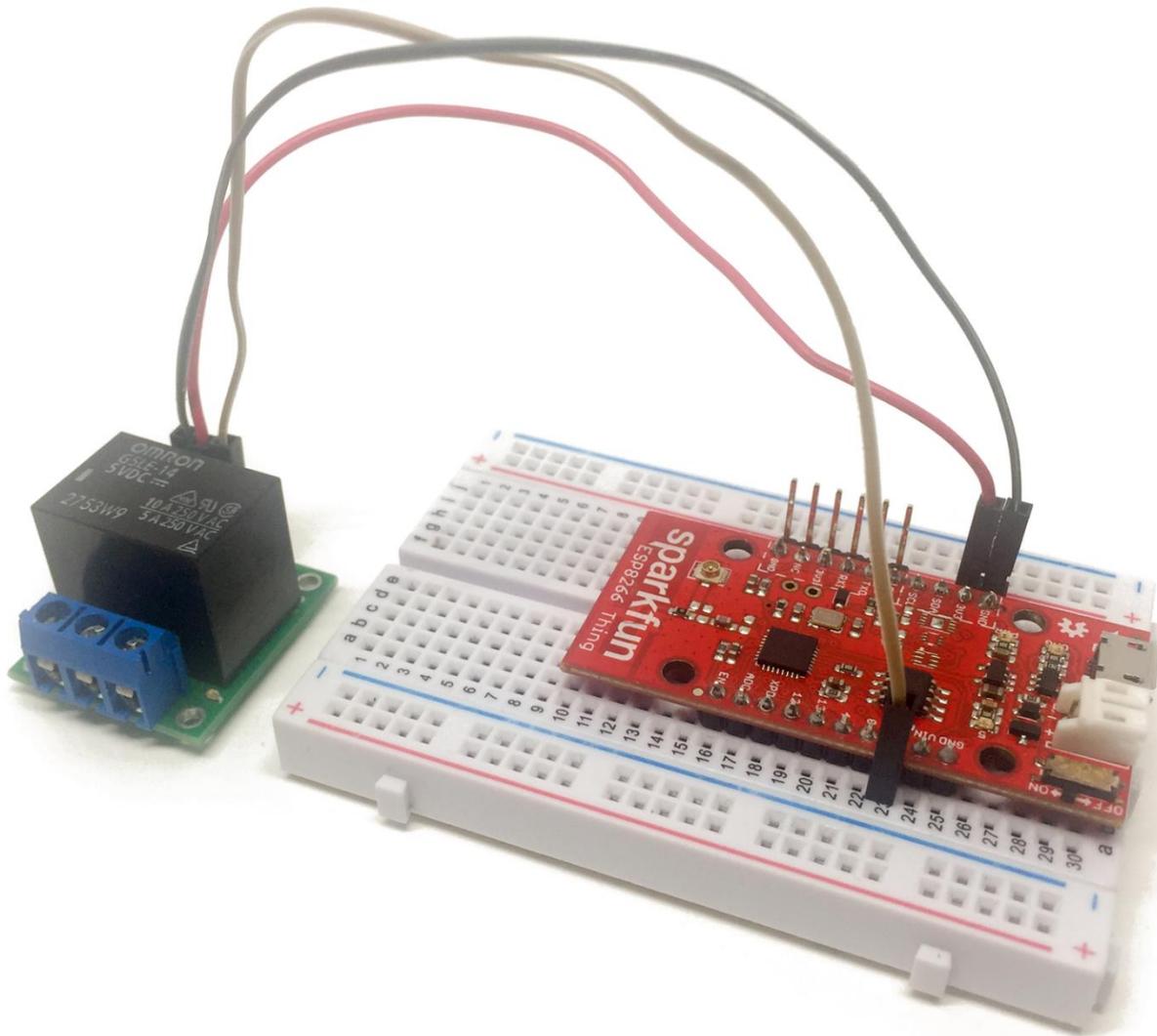
The method of the request e.g. GET, POST, DELETE

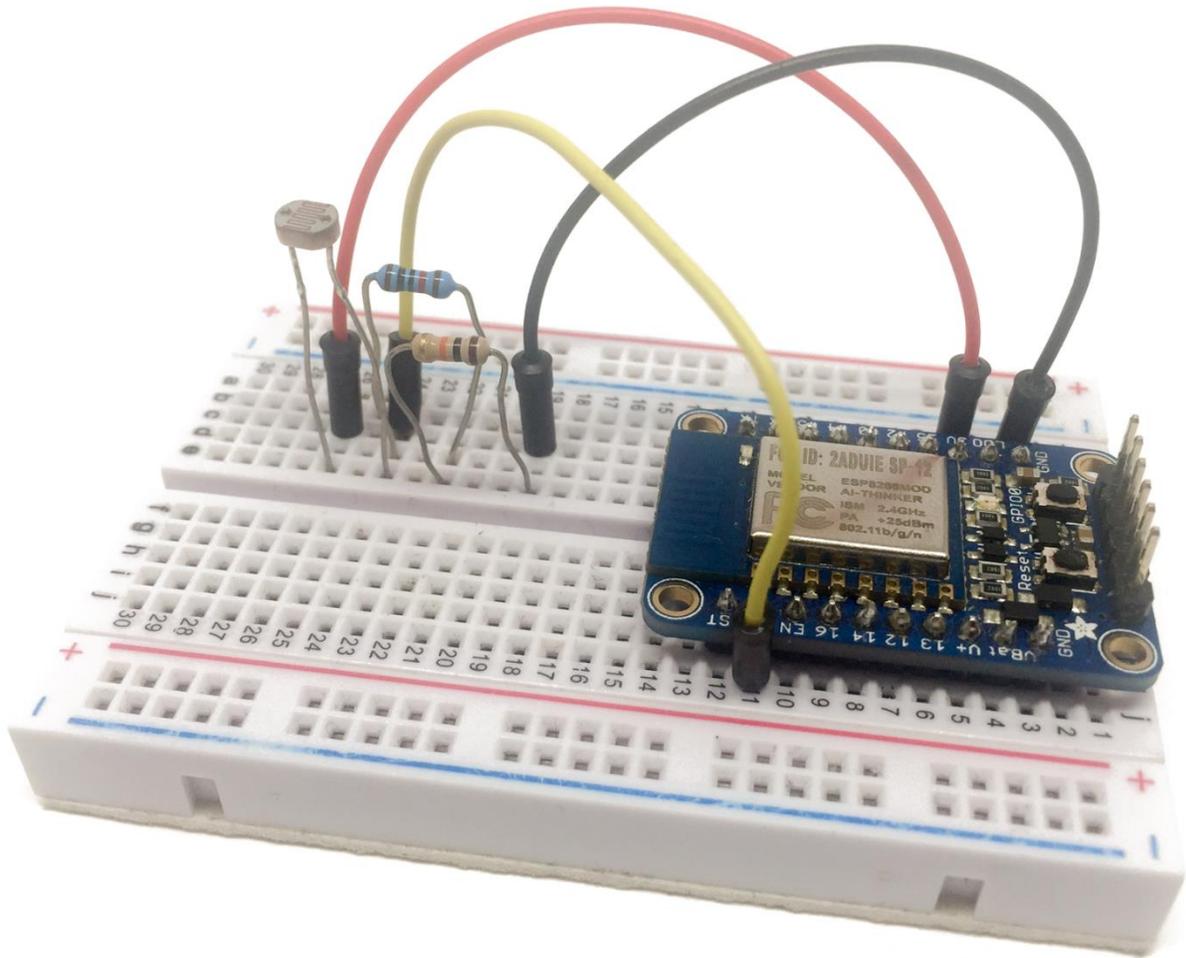
Content Type

Optional

Body

Surround any text with "<<<" and ">>>" to escape the content





Complete Trigger Fields

step 3 of 7

[back](#) 

Receive a web request

Event Name

The name of the event, like "button_pressed" or "front_door_opened"

[Create Trigger](#)

Complete Action Fields

step 6 of 7

back ^

Make a web request

URL

Surround any text with "<<<" and ">>>" to escape the content

Method

The method of the request e.g. GET, POST, DELETE

Content Type

Optional

Body

Surround any text with "<<<" and ">>>" to escape the content

Complete Trigger Fields

step 3 of 7

back ^

Receive a web request

Event Name

The name of the event, like "button_pressed" or "front_door_opened"

Create Trigger

M Complete Action Fields

step 6 of 7

back ▲

Make a web request

M URL

https://cloud.arest.io/01e47f/digital/5/0

Surround any text with "<<<" and ">>>" to escape the content

M Method

GET

The method of the request e.g. GET, POST, DELETE

M Content Type

application/json

Optional

M Body

Surround any text with "<<<" and ">>>" to escape the content



created less than a minute ago
never run

If Maker Event "light_level_high", then make a web request



created 1 minute ago
never run

If Maker Event "light_level_low", then make a web request

Chapter 7: Sending Notifications from the ESP8266

Create your free account

You're only seconds away from doing more with the products you love.

Your Email

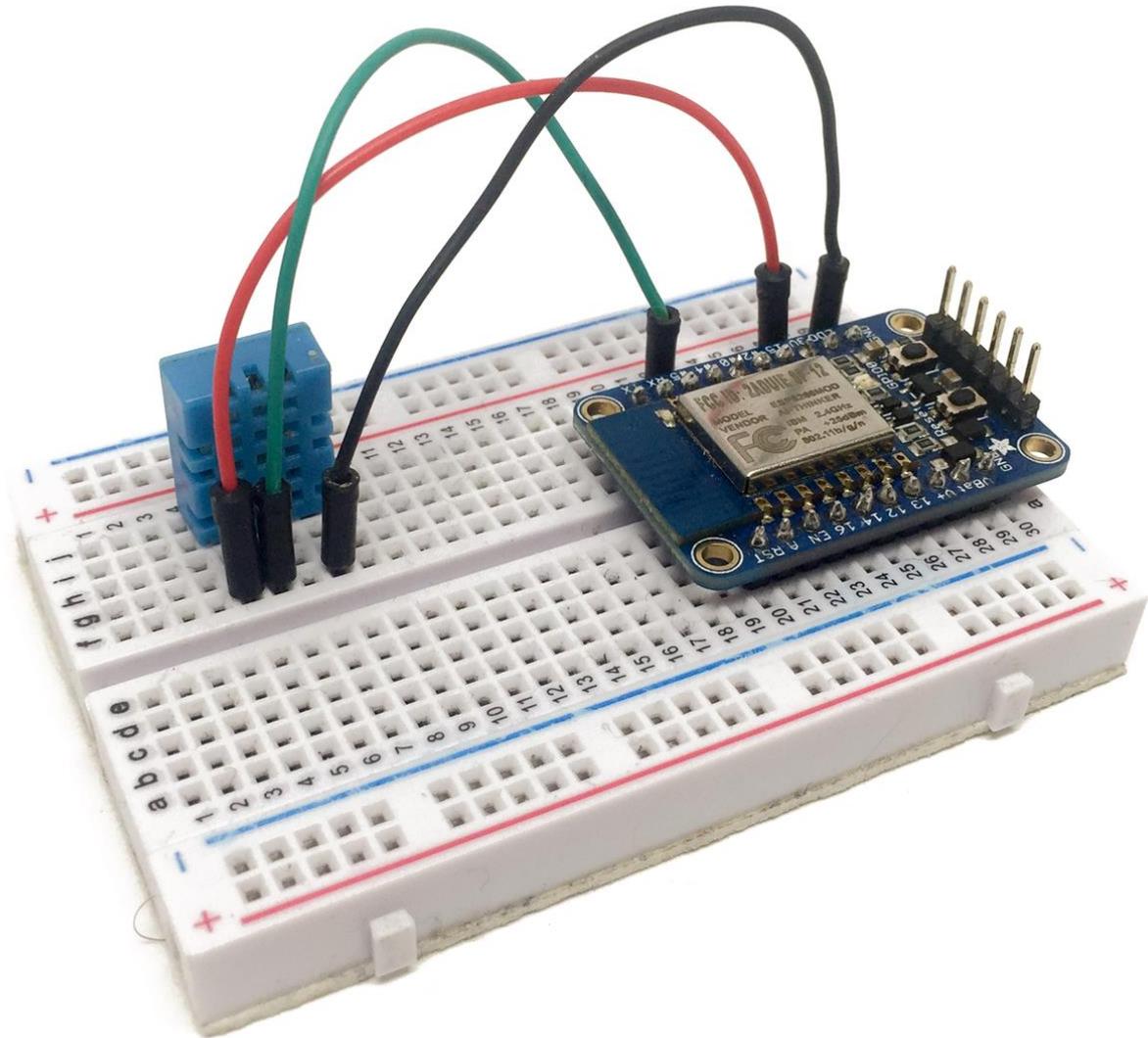
Choose a Password

[Create account](#)



You're just a few steps away from connecting Android SMS to **IFTTT**.

Sign up for **IFTTT** and we'll help you set up awesome Android SMS Recipes!



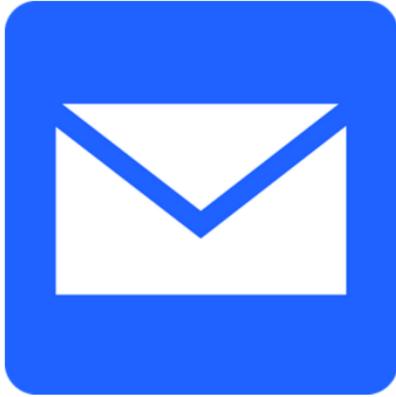
DIY Electronics



Maker

Email Channel

◀ All Channels



The Email Channel is a native IFTTT Channel for sending and receiving emails.

Email address: marcolivier.schwartz@gmail.com

Reconnect Channel

Disconnect

IF Recipes run automatically in the background.

Create a Recipe

Choose Trigger Channel step 1 of 7

Showing Channels that provide at least one Trigger. [View all Channels](#)

maker



Maker



WeMo
Coffeemaker



WeMo Maker

Complete Trigger Fields

step 3 of 7

back ^

Receive a web request

Event Name

The name of the event, like "button_pressed" or "front_door_opened"

Create Trigger

Choose Action Channel

step 4 of 7

back ^

Showing Channels that provide at least one Action. [View all Channels](#)



Email



Email Digest



Gmail

Complete Action Fields

step 6 of 7

back ^

Send me an email

Subject

Hello!

Body

Just a message from your ESP8266 :)



Create Action

Recipe ID 34063258

[Back to My Recipes](#)



Maker Event "hello"

Send me an email at
marcolivier.schwartz@gmail.com

Turn off

Publish

Check now

Log

Delete

Recipe Title

If Maker Event "hello", then send me an email at
marcolivier.schwartz@gmail.com

use '#' to add tags

created less than a
minute ago
never run

```
..
WiFi connected
IP address:
Requesting URL: /trigger/hello/with/key: [REDACTED]
HTTP/1.1 200 OK
Server: Cowboy
Connection: close
X-Powered-By: Sad Unicorns
X-Top-Secrettt: [REDACTED]
Content-Type: text/html; charset=utf-8
Content-Length: 45
Etag: W/"2d-91c42b17"
Date: Fri, 26 Feb 2016 08:59:53 GMT
Via: 1.1 vegur

Congratulations! You've fired the hello event
closing connection
```

Hello!

Inbox x



IFTTT Action <action@ifttt.com>

to me ▾

9:42 AM (4 minutes ago)



Just a message from your ESP8266 :)



Put the internet to work for you.

[Turn off or edit this Recipe](#)



The SMS Channel is a native IFTTT channel that provides a set of Triggers and Actions built around sending and receiving Short Message Service (SMS) messages with your SMS enabled cellphone.

Your phone number:

IFTTT phone number: (415)-702-3717

Reconnect Channel

Disconnect

Complete Trigger Fields

step 3 of 7

back 

Receive a web request

Event Name

The name of the event, like "button_pressed" or "front_door_opened"

Create Trigger

Choose Action Channel

step 4 of 7

back ^

Showing Channels that provide at least one Action. [View all Channels](#)

sms



Android SMS



IF Notifications



SMS



Value2



Add Ingredient

Example

Hello world



Complete Action Fields

step 6 of 7

back ^

Send me an SMS



Message

The temperature in your home is currently {{Value1}}
C and the humidity is {{Value2}} %



Create Action



Maker Event "data"

Send me an SMS at 0048733382390

Recipe Title

If Maker Event "data", then send me an SMS at 0048733382390

use '#' to add tags

- Turn off
- Publish
- Check now
- Log
- Delete

created less than a minute ago never run

Today 10:07

The temperature in your home is currently 31.00 C and the humidity is 34.00 %

pushover

Productivity



Pushover
CONNECTED

M Complete Trigger Fields

step 3 of 7

back ^

Receive a web request

M Event Name

The name of the event, like "button_pressed" or "front_door_opened"

Create Trigger

Choose Action Channel

step 4 of 7

back ^

Showing Channels that provide at least one Action. [View all Channels](#)



Instapush



Pushalot



Pushbullet



Pushover

P Complete Action Fields

step 6 of 7

back ^

Send a notification

P Message



Limited to 512 characters



Maker Event "alert"

Send a notification

Recipe Title

If Maker Event "alert", then send a notification

use '#' to add tags

- Turn off
- Publish
- Check now
- Log
- Delete

created less than a minute ago
never run

●●●●○ PLAY 

  49% 

10:14

Friday, 26 February



Pushover now

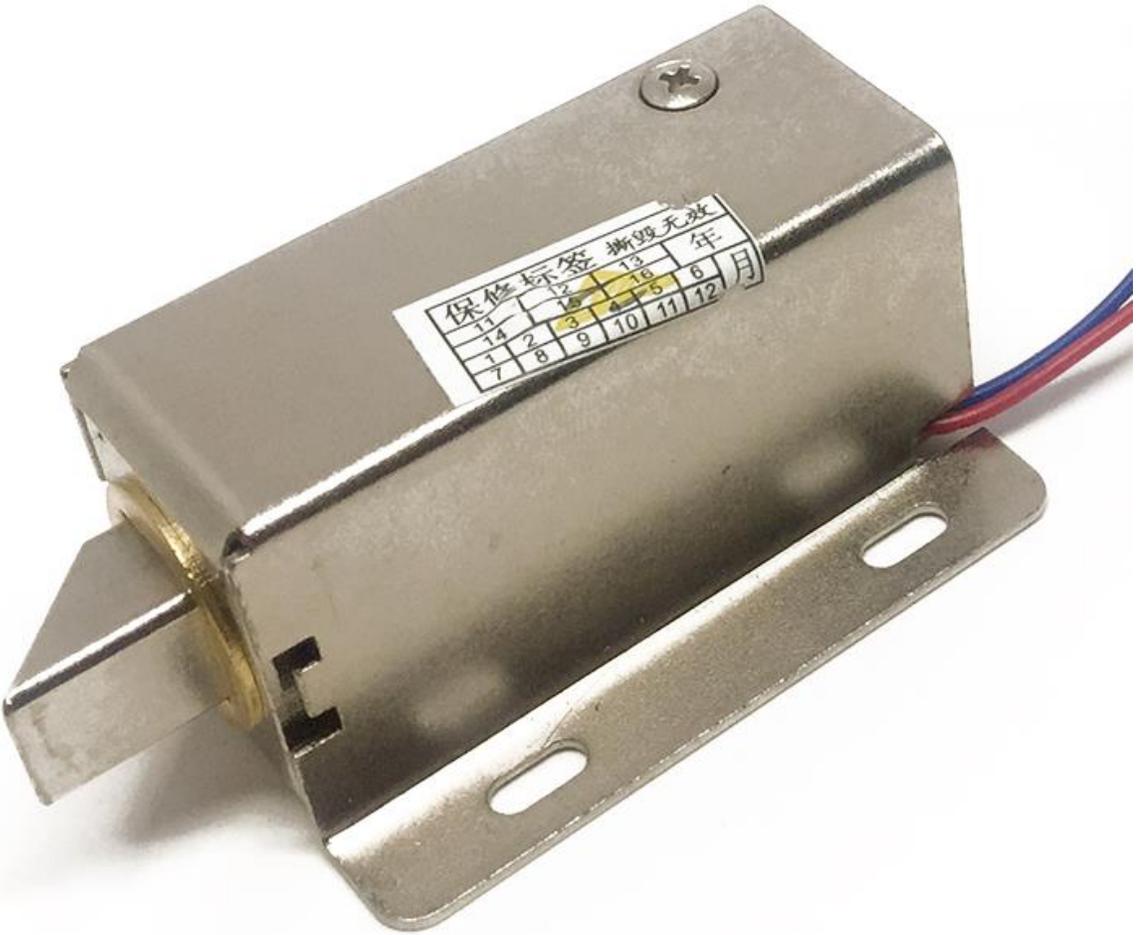
IFTTT: Maker: Alert! The humidity in your home is too high.

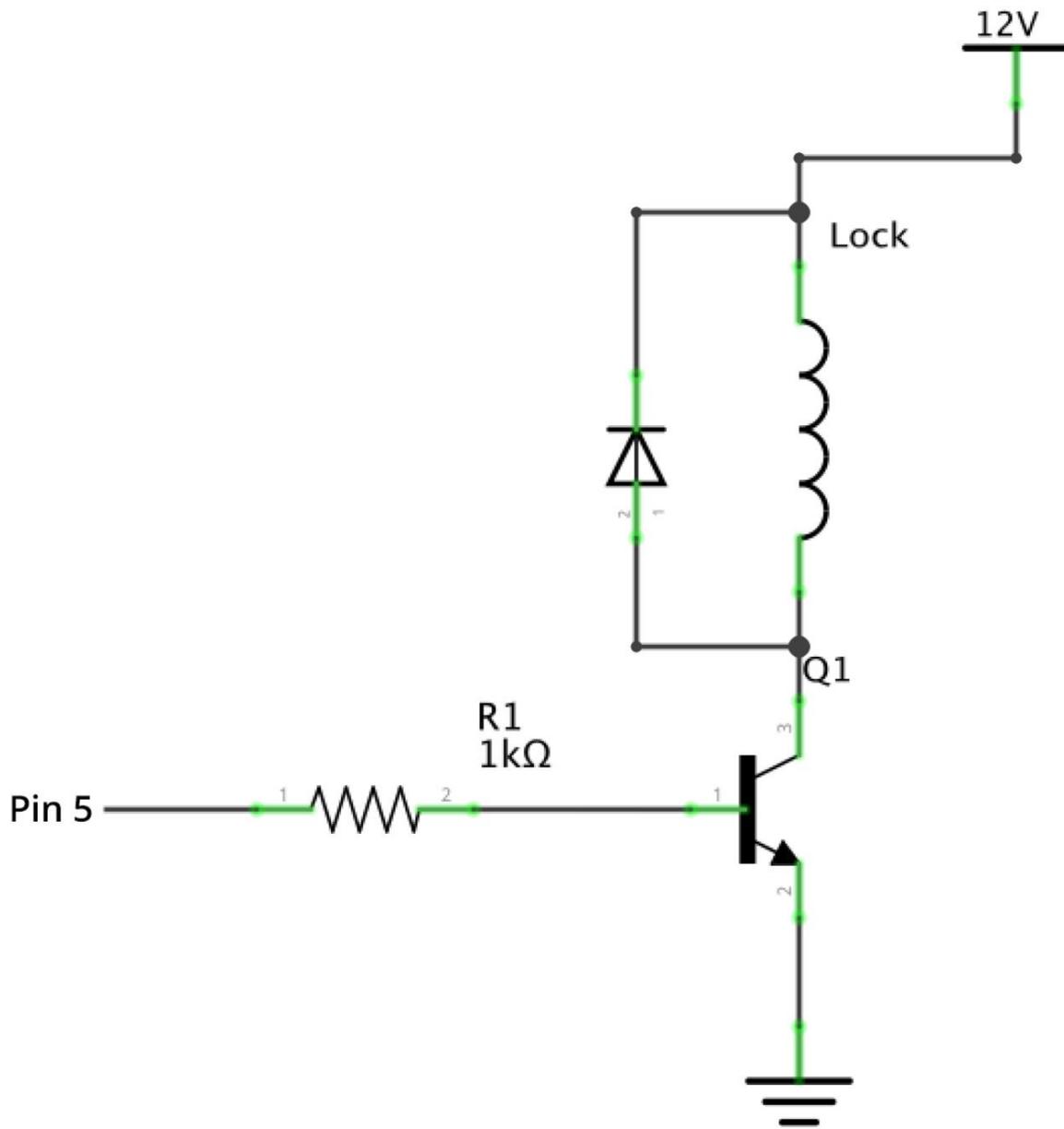
slide to view

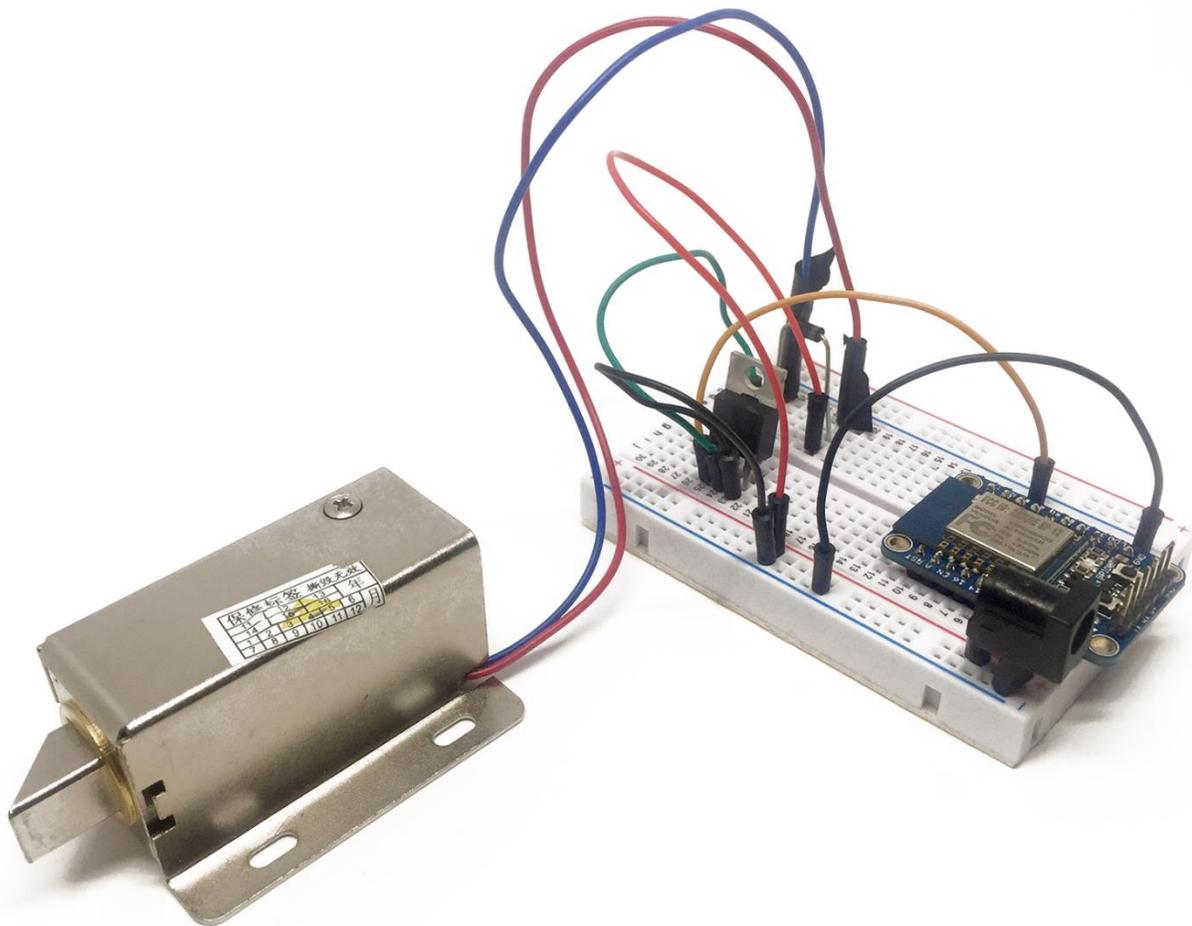
> slide to unlock



Chapter 8: Controlling a Door Lock from the Cloud







Your dashboards:

Door Lock

Add a new dashboard

Your dashboards:

Door Lock

Delete

Door Lock

Add a new dashboard

Door Lock

Hide Edit Mode

Lock

1a1dc9

Digital

5

On/Off

Create new element

Door Lock

Show Edit Mode

Lock

On

Off

LOW

unknown

OFFLINE

Choose Trigger Channel step 1 of 7

Showing Channels that provide at least one Trigger. [View all Channels](#)



Maker



WeMo
Coffeemaker



WeMo Maker

Complete Trigger Fields step 3 of 7

back ^

Receive a web request

Event Name

The name of the event, like "button_pressed" or "front_door_opened"

Create Trigger

Choose Action Channel

step 4 of 7

back ^

Showing Channels that provide at least one Action. [View all Channels](#)

push



Instapush



Pushalot



Pushbullet



Pushover



Choose an Action

step 5 of 7

back ^

Send a notification

Send a notification to your Pushover devices.

Send a high-priority notification

Send a high-priority notification to your Pushover devices. High-priority notifications override quiet time settings.

Complete Action Fields

step 6 of 7

back 

Send a high-priority notification

Message

The door lock has just been opened!



Limited to 512 characters

URL

Optional

Create Action

Create and connect

step 7 of 7

back 

if  then



Maker Event "lock_opened"

Send a high-priority notification

Recipe Title

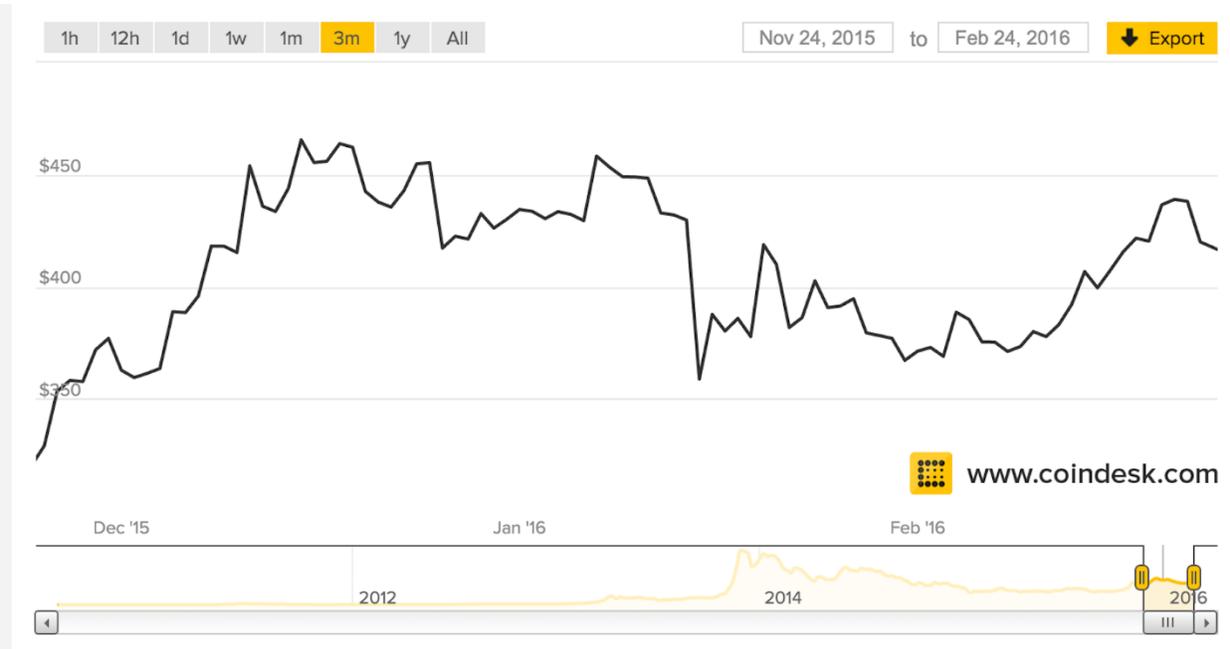
If Maker Event "lock_opened", then send a high-priority notification

use '#' to add tags

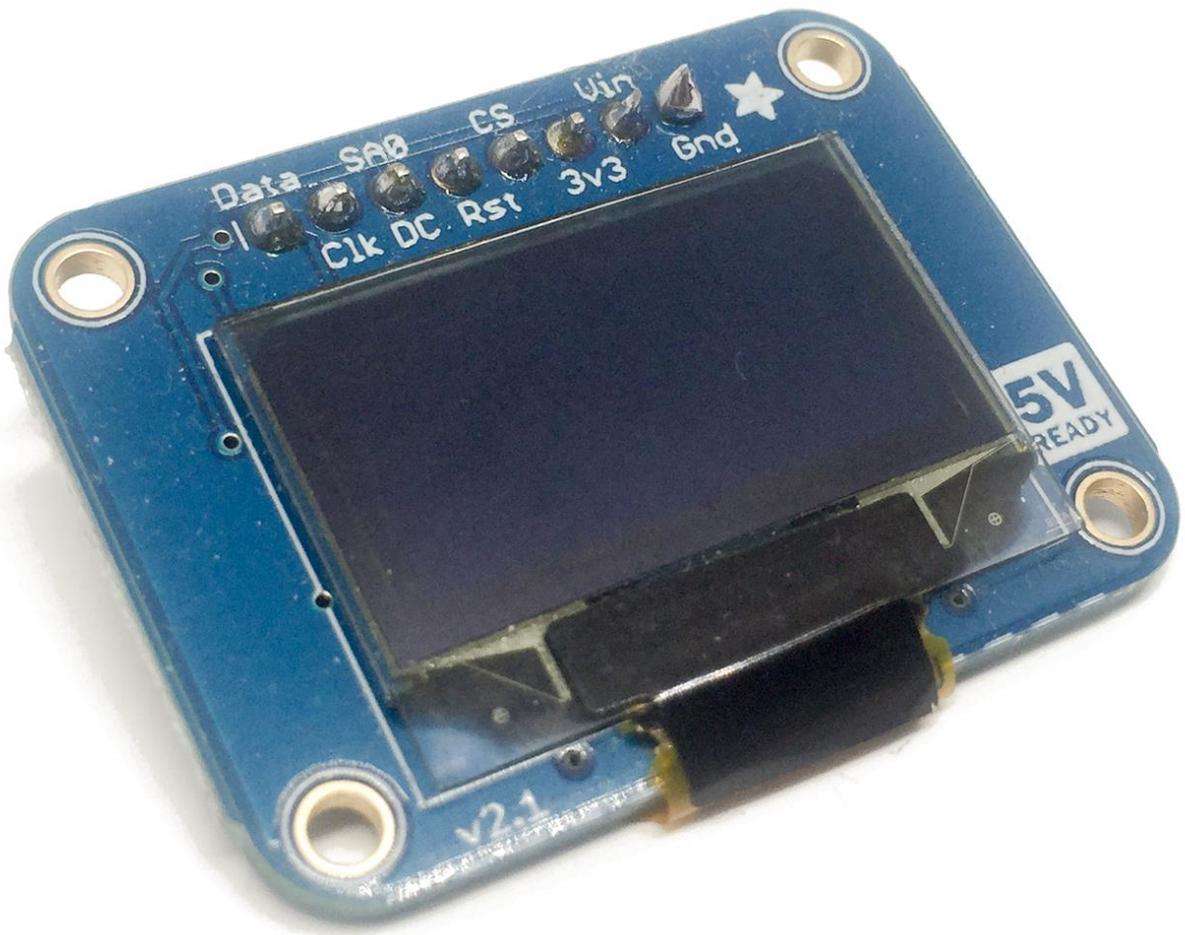
Create Recipe

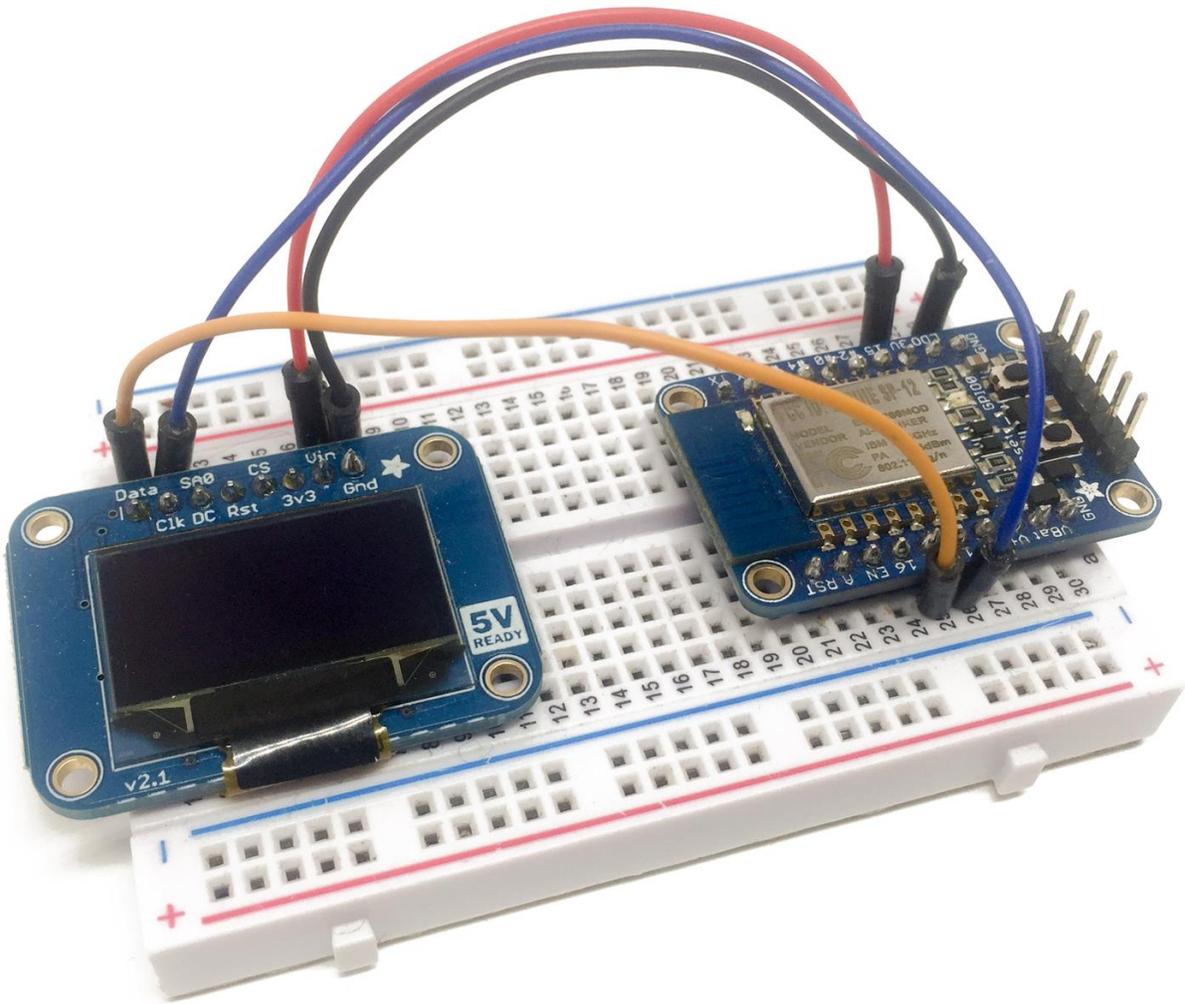
Chapter 9: Building a Physical Bitcoin Ticker





$$1 \text{ BTC} = 417.4 \text{ USD}$$





```
Connection: close
Set-Cookie: __cfduid=df5cd887f8e3d2f80708f8928cb75b10e1456302644; expires=Thu, 23-Feb-17 08:30:44 GMT
X-Powered-By: Bitcoin Love
Cache-Control: max-age=15
Expires: Wed, 24 Feb 2016 08:31:07 UTC
X-BE: stinger
X-Proxy-Cache: HIT
Access-Control-Allow-Origin: *
X-Cache-Status-A: HIT
Server: cloudflare-nginx
CF-RAY: 2799cf6757982b09-WAW

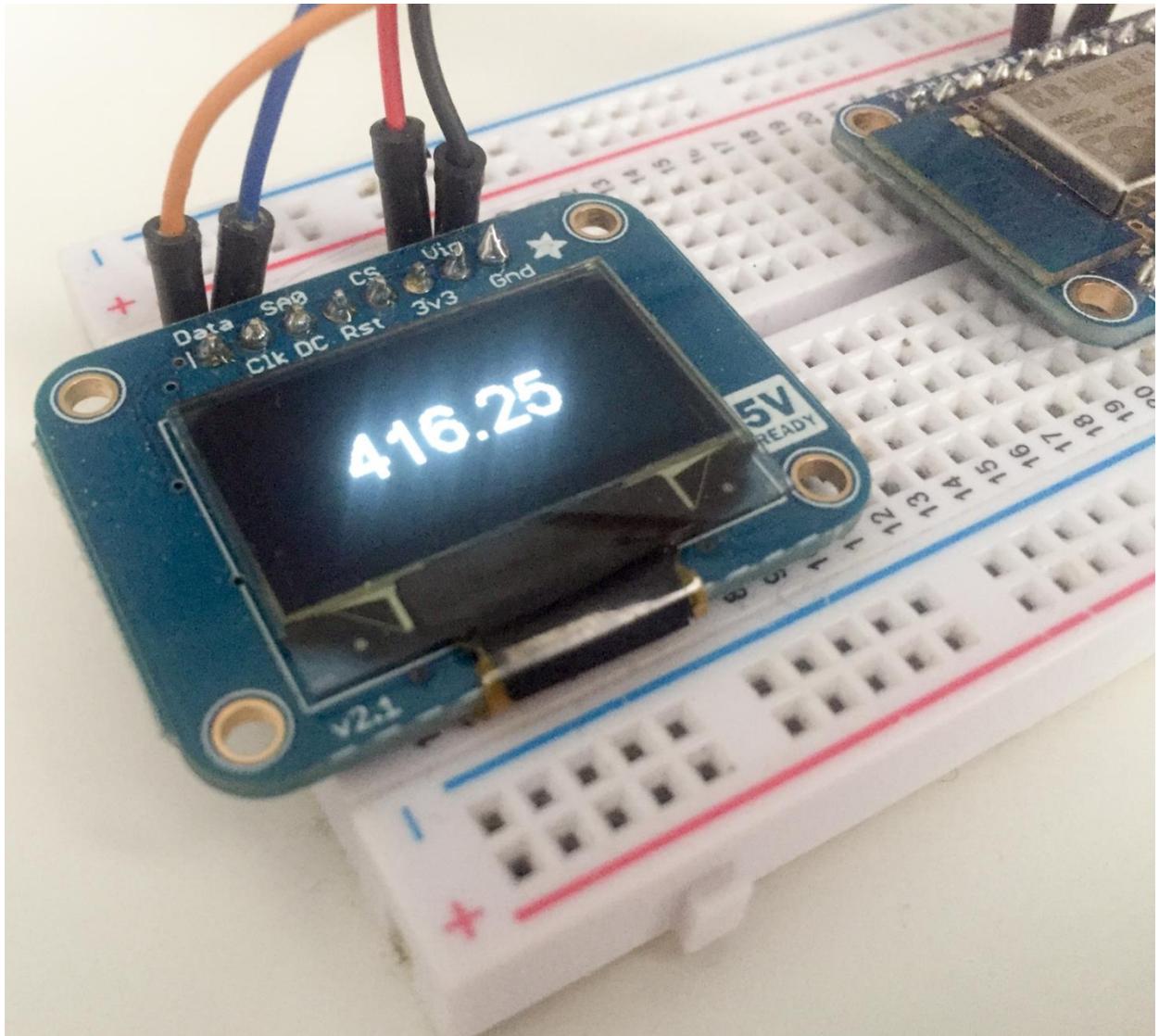
{"time":{"updated":"Feb 24, 2016 08:30:00 UTC","updatedISO":"2016-02-24T08:30:00+00:00","updateduk":"

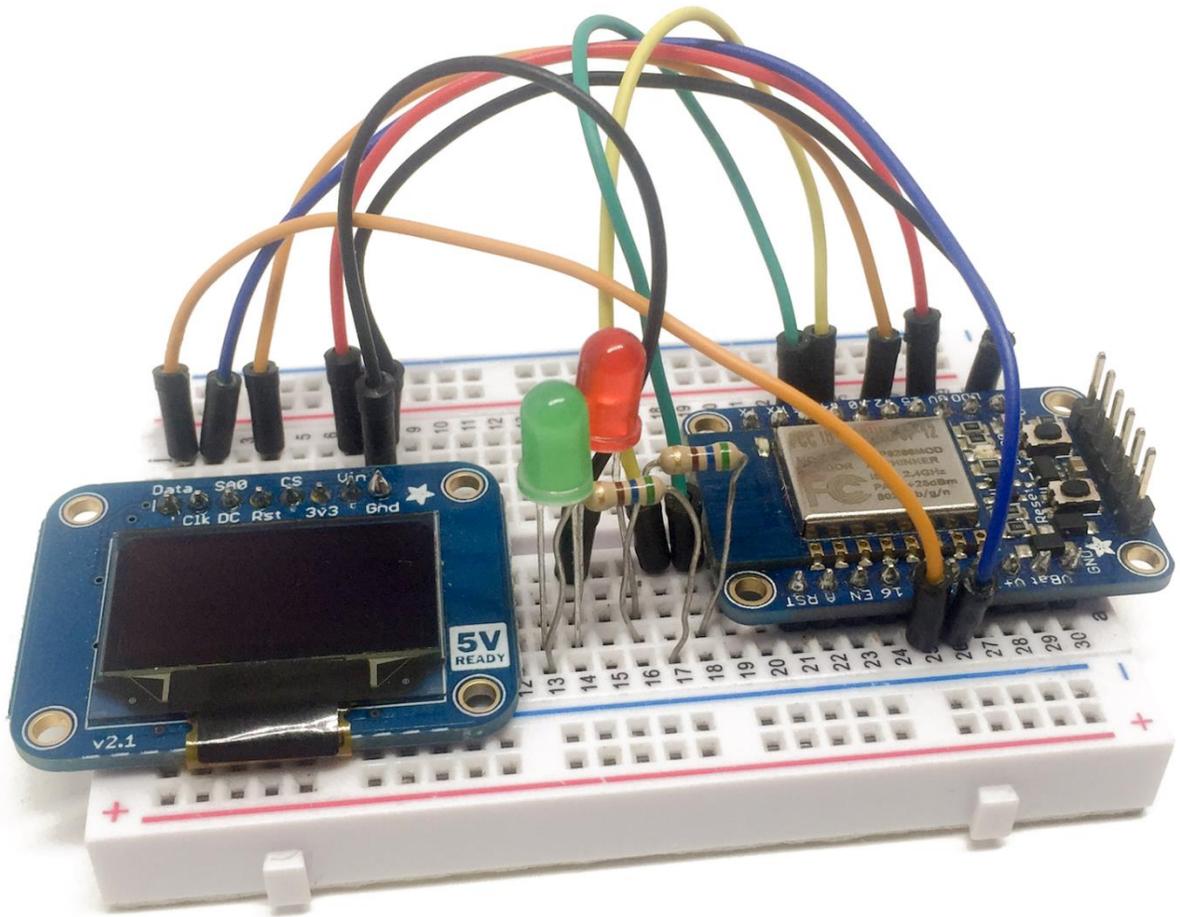
JSON answer:
{"time":{"updated":"Feb 24, 2016 08:30:00 UTC","updatedISO":"2016-02-24T08:30:00+00:00","updateduk":"

Bitcoin price:
416.45
```

Autoscroll

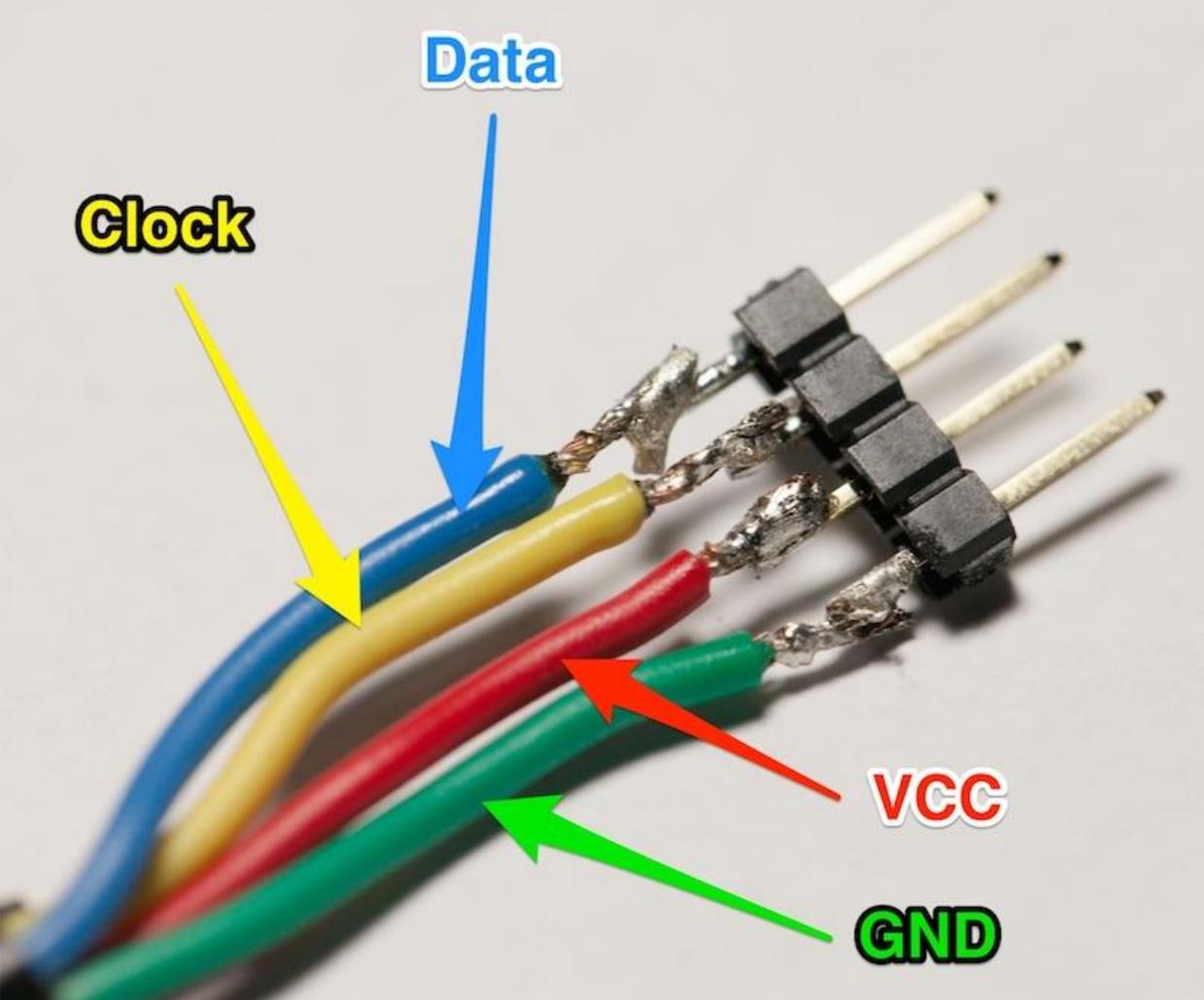
Both NL & CR 115200 baud

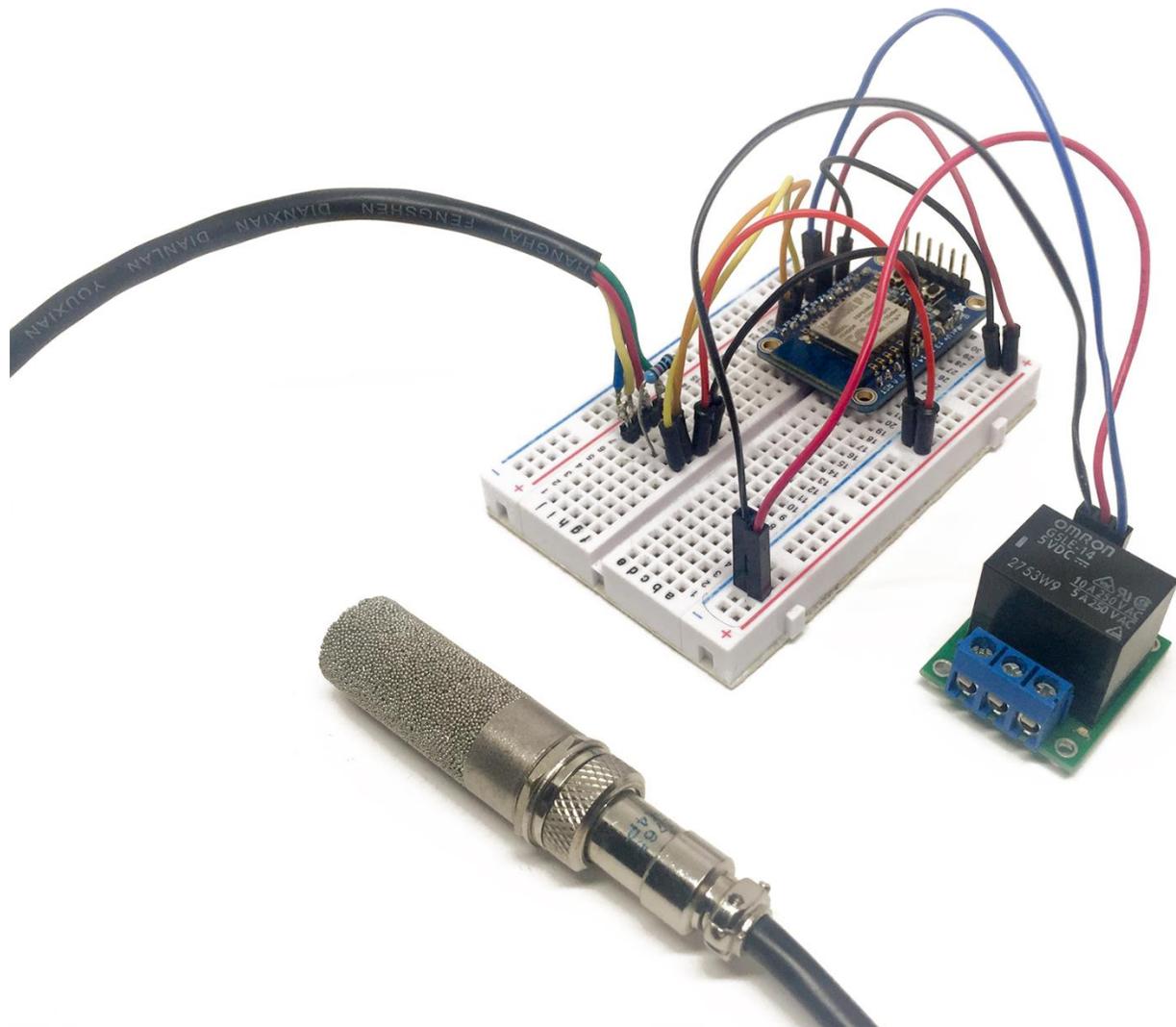




Chapter 10: Wireless Gardening with the ESP8266









```
Temperature: 27.7299957275C / 81.9499969482F. Humidity: 24.48%
Temperature: 27.6800003052C / 81.8599929810F. Humidity: 24.62%
Temperature: 27.6199951172C / 81.7519912720F. Humidity: 24.69%
Temperature: 27.5899963379C / 81.6799926758F. Humidity: 24.73%
Temperature: 27.5299987793C / 81.6079940796F. Humidity: 24.80%
```

Choose Trigger Channel step 1 of 7

Showing Channels that provide at least one Trigger. [View all Channels](#)

maker



Maker



WeMo Coffeemaker



WeMo Maker

Complete Trigger Fields step 3 of 7

back ^

Receive a web request

Event Name

The name of the event, like "button_pressed" or "front_door_opened"

Create Trigger

Choose an Action step 5 of 7

back ^

Send a notification

Send a notification to your Pushover devices.

Send a high-priority notification

Send a high-priority notification to your Pushover devices. High-priority notifications override quiet time settings.

Complete Action Fields

step 6 of 7

back 

Send a notification

Message

The humidity of your plant is getting low! Time to water it :)|



Limited to 512 characters

URL

Optional

Create Action

◀ Back to Gmail

08:52

📶 35% 🔋

◀ Pushover

IFTTT



IFTTT: Maker

From IFTTT on 24/03/16 at 8:52

The humidity of your plant is getting low! Time to water it :)



Your dashboards:

Gardening

Delete

Gardening

Add a new dashboard

Gardening

Hide Edit Mode

Temperature

gveie2y5

Variable

temperature

Indicator

Create new element

Gardening

Hide Edit Mode

Temperature

gveie2y5

Variable

temperature

Indicator

Create new element

Temperature

22.42

gardening

ONLINE

Delete

Temperature

22.42

gardening

ONLINE

Delete

Humidity

17.12

gardening

ONLINE

Delete

Pump

gveie2y5

Digital

15

On/Off

Create new element

Gardening

Show Edit Mode

Temperature

22.94

gardening

ONLINE

Humidity

16.8

gardening

ONLINE

Pump

On

Off

LOW

gardening

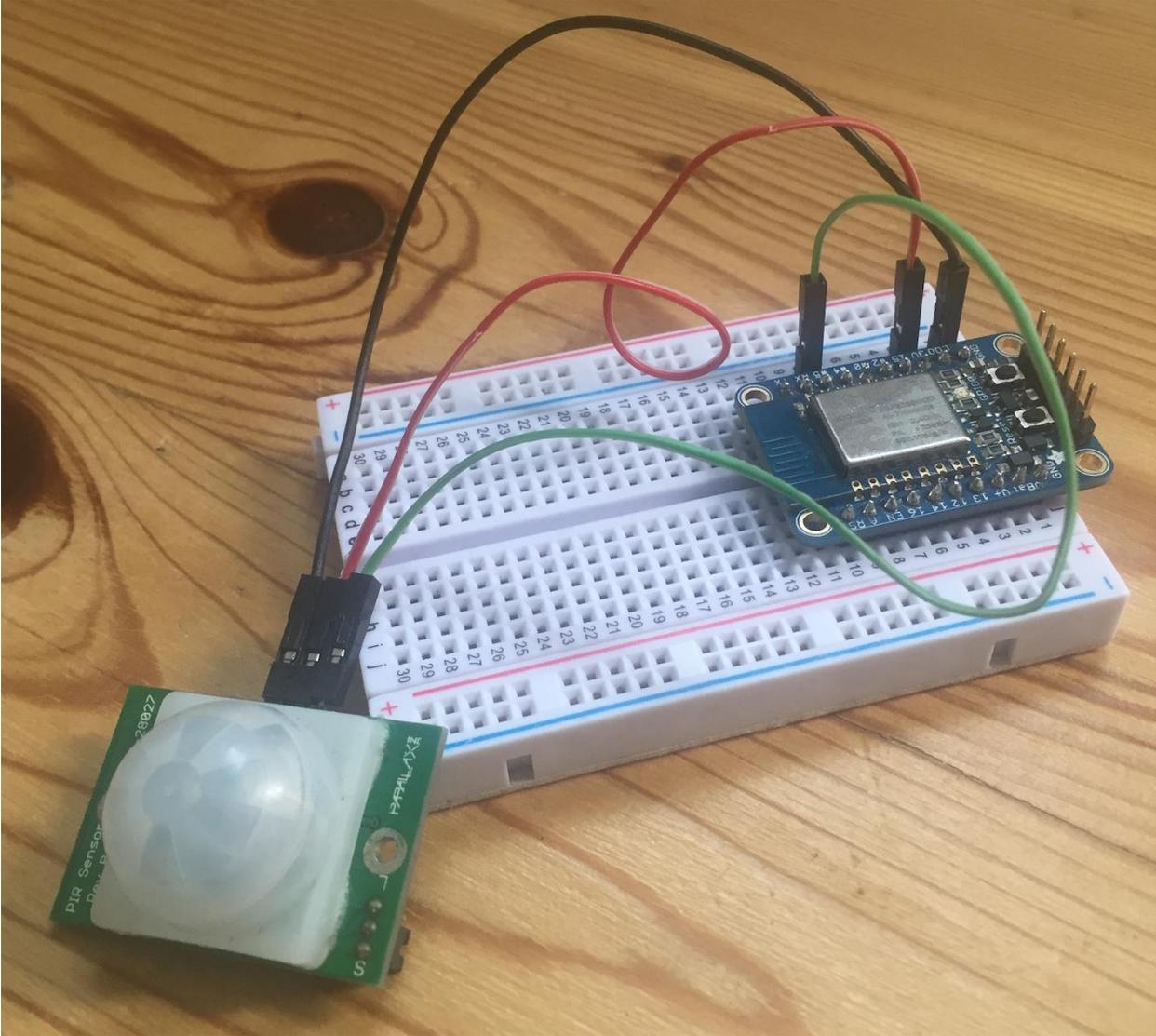
ONLINE

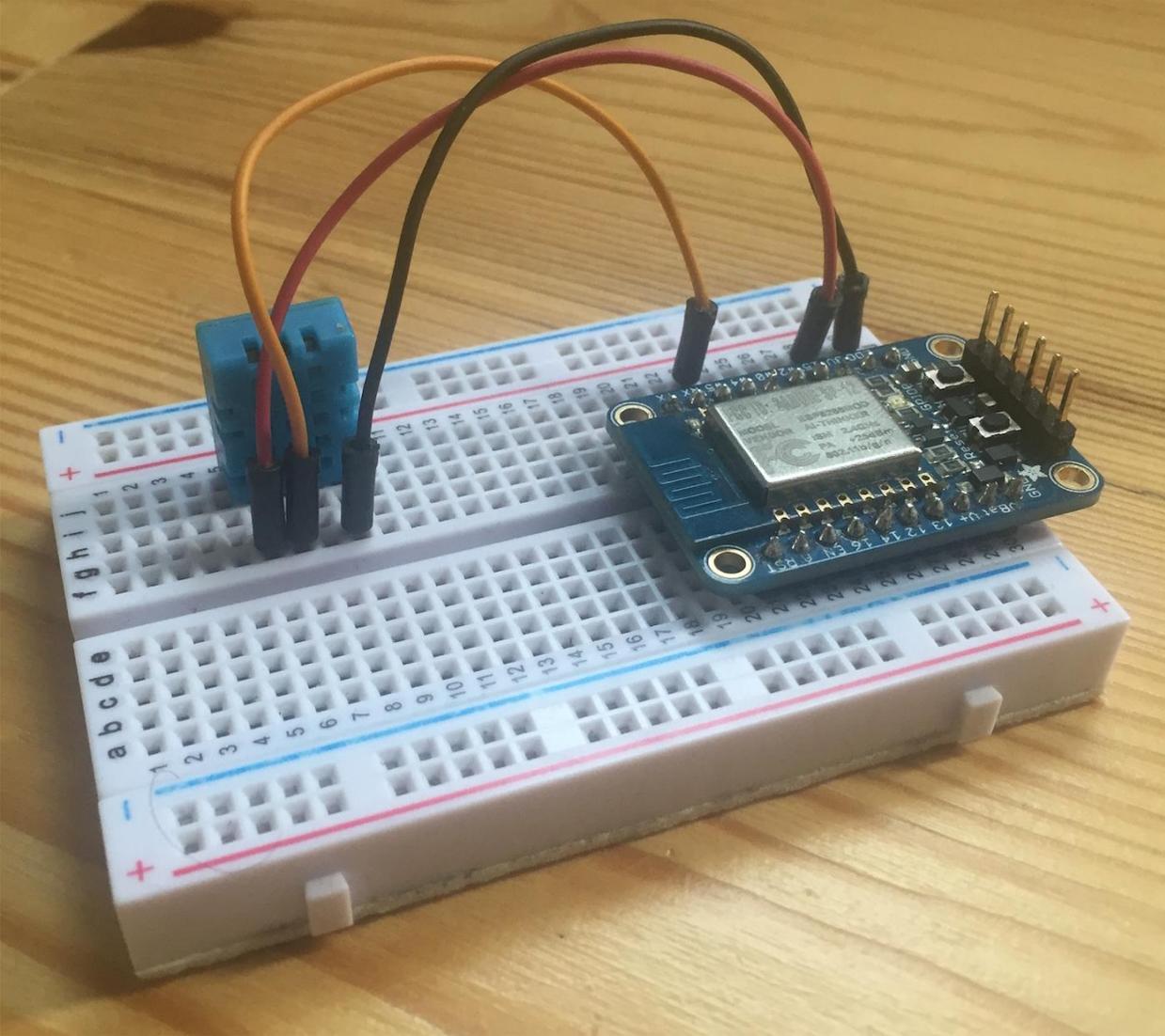
Gardening

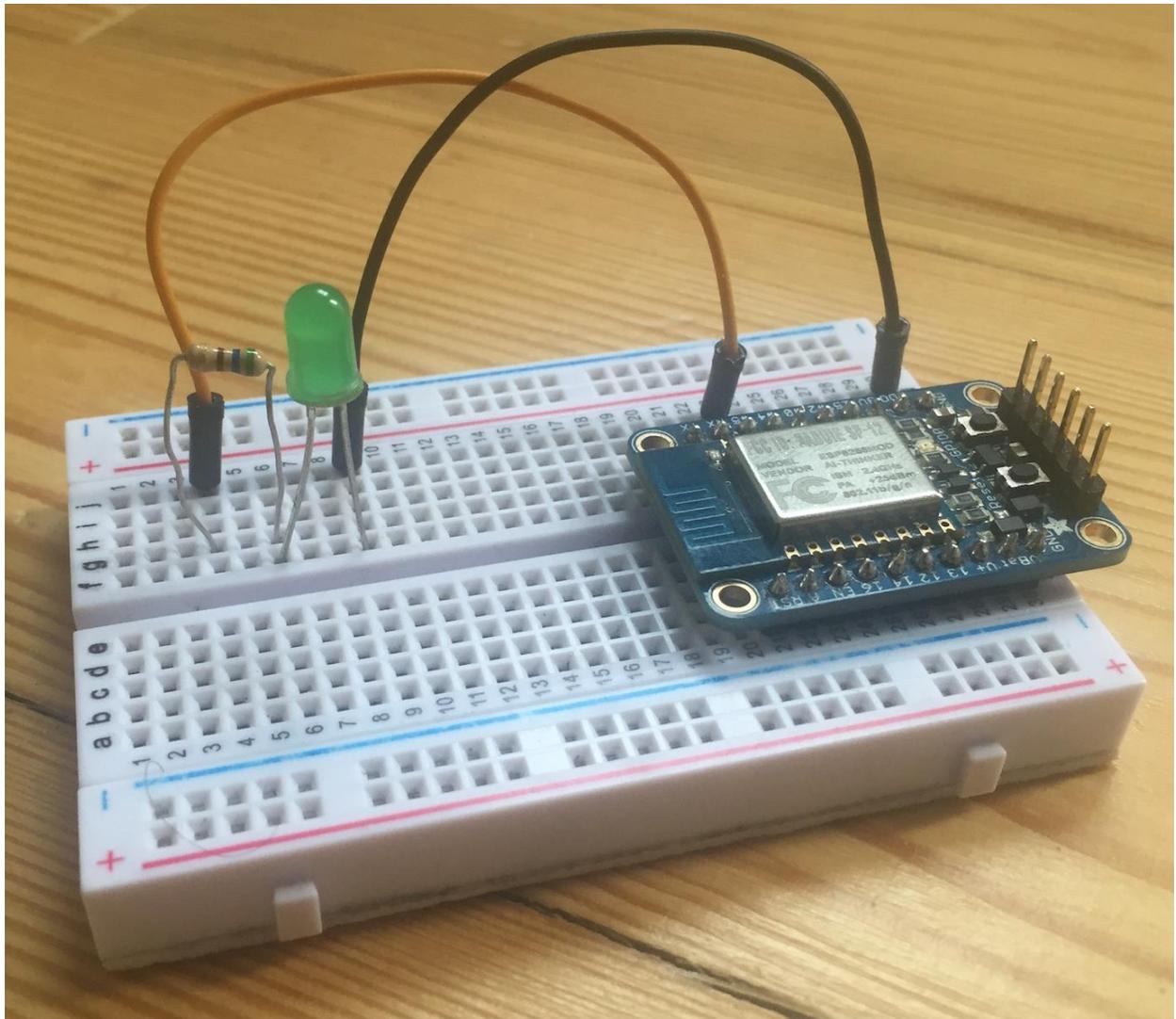
Show Edit Mode

Temperature		22.94		gardening	ONLINE
Humidity		16.8		gardening	ONLINE
Pump	On	Off	HIGH	gardening	ONLINE

Chapter 11: Cloud-Based Home Automation System







Your dashboards:

Home Automation System|

Add a new dashboard

Temperature

gveie2y5

Variable

temperature

Indicator

Create new element

Home Automation System

Hide Edit Mode

Humidity Variable Indicator

Temperature	23	sensor	ONLINE	Delete
Humidity	36	sensor	ONLINE	Delete

Dimmer Analog Slider

Temperature	23	sensor	ONLINE	Delete
Humidity	36	sensor	ONLINE	Delete

Dimmer Analog Slider

Temperature	23	sensor	ONLINE	Delete
Humidity	36	sensor	ONLINE	Delete
Dimmer		dimmer	ONLINE	Delete

Motion Variable Indicator

Temperature	23	sensor	ONLINE	Delete
Humidity	36	sensor	ONLINE	Delete
Dimmer		dimmer	ONLINE	Delete

Home Automation System

Show Edit Mode

Temperature	23	sensor	ONLINE
Humidity	36	sensor	ONLINE
Dimmer		dimmer	ONLINE
Motion	0	motion	ONLINE

Choose Trigger Channel step 1 of 7

Showing Channels that provide at least one Trigger. [View all Channels](#)



Maker



WeMo
Coffeemaker



WeMo Maker

Complete Trigger Fields step 3 of 7

back ^

Receive a web request

Event Name

The name of the event, like "button_pressed" or "front_door_opened"

Create Trigger

Choose Action Channel step 4 of 7

back ^

Showing Channels that provide at least one Action. [View all Channels](#)



Android SMS



IF Notifications



SMS

Complete Action Fields

step 6 of 7

back ^

Send me an SMS

Message

Alert! The alarm has been triggered in your home.



Create Action

Please connect the Date & Time Channel

You'll only have to do this once.



Connect

Connect the Date & Time Channel - IFTTT

https://ifttt.com/channels/date_and_time/activate?is_web_vi...



Connect Date & Time

Please select your current time zone to connect the Date & Time Channel.

Time zone

(GMT+01:00) Berlin

Connect

M Complete Action Fields

step 6 of 7

back ^

Make a web request

M URL

Surround any text with "<<<" and ">>>" to escape the content

M Method

The method of the request e.g. GET, POST, DELETE

M Content Type

Optional

M Body

Surround any text with "<<<" and ">>>" to escape the content

Create Action

if  then that

Every day at 11:30 PM

Choose an Action

step 5 of 7

back ^

Make a web request

This Action will make a web request to a publicly accessible URL. NOTE: Requests may be rate limited.

Complete Action Fields

step 6 of 7

back ^

Make a web request

URL

Surround any text with "<<<" and ">>>" to escape the content

Method

The method of the request e.g. GET, POST, DELETE

Content Type

Optional

Body

Surround any text with "<<<" and ">>>" to escape the content

Create Action

Create and connect

step 7 of 7

back ↩



Recipe Title

If every day at 11:30 PM, then make a web request

use '#' to add tags



Receive notifications when this Recipe runs

Create Recipe

Choose Trigger Channel

step 1 of 7

Showing Channels that provide at least one Trigger. [View all Channels](#)

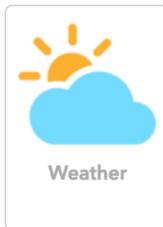
wea



Android Wear



Netatmo
Weather
Station



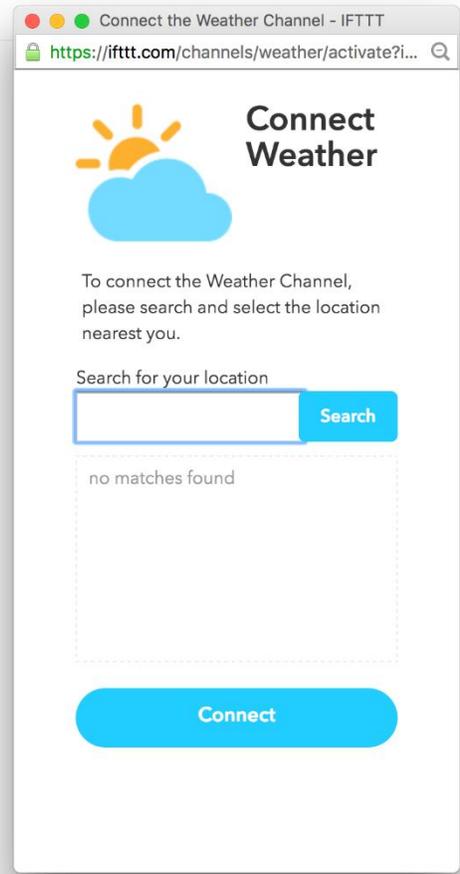
Weather

Please connect the Weather Channel.

You'll only have to do this once.



Connect



Complete Trigger Fields

step 3 of 7

back ^

Sunset

No fields to complete.

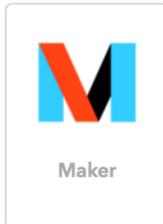
Create Trigger

Choose Action Channel

step 4 of 7

back ^

Showing Channels that provide at least one Action. [View all Channels](#)



WeMo
Coffeemaker



WeMo Maker

Complete Action Fields

step 6 of 7

back ^

Make a web request

URL

Surround any text with "<<<" and ">>>" to escape the content

Method

The method of the request e.g. GET, POST, DELETE

Content Type

Optional

Body

Surround any text with "<<<" and ">>>" to escape the content

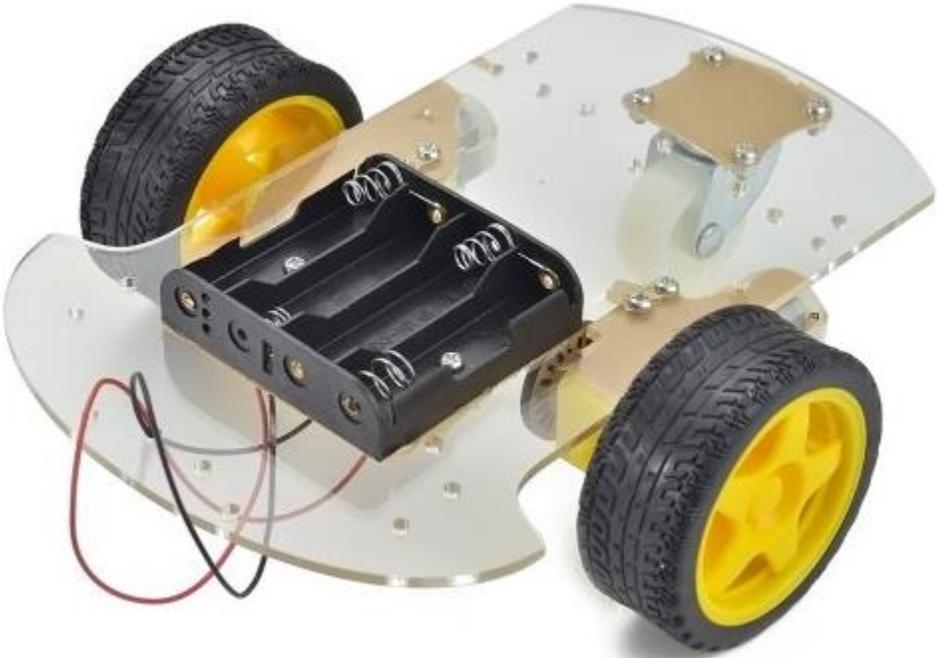
Create Action



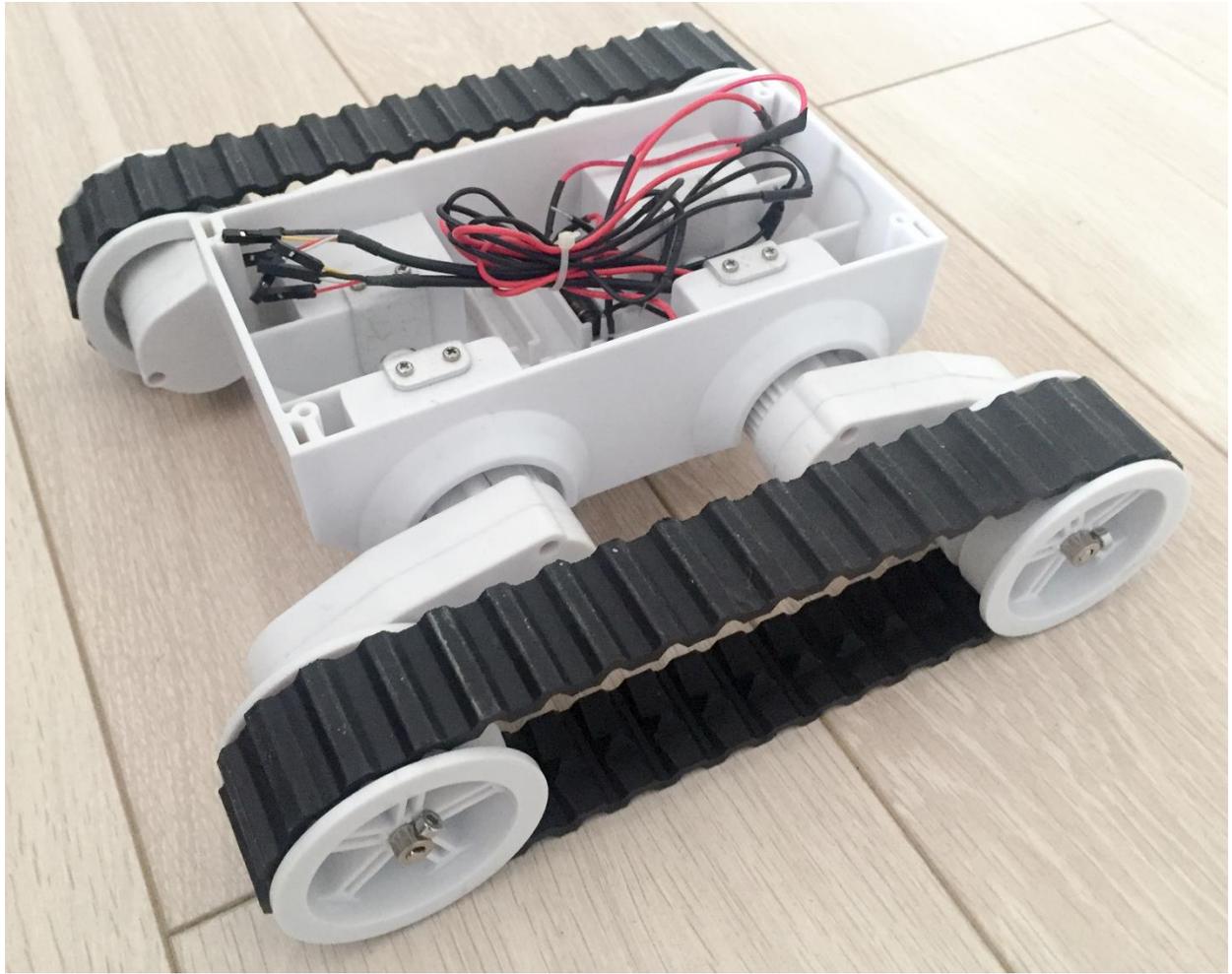
Sunset

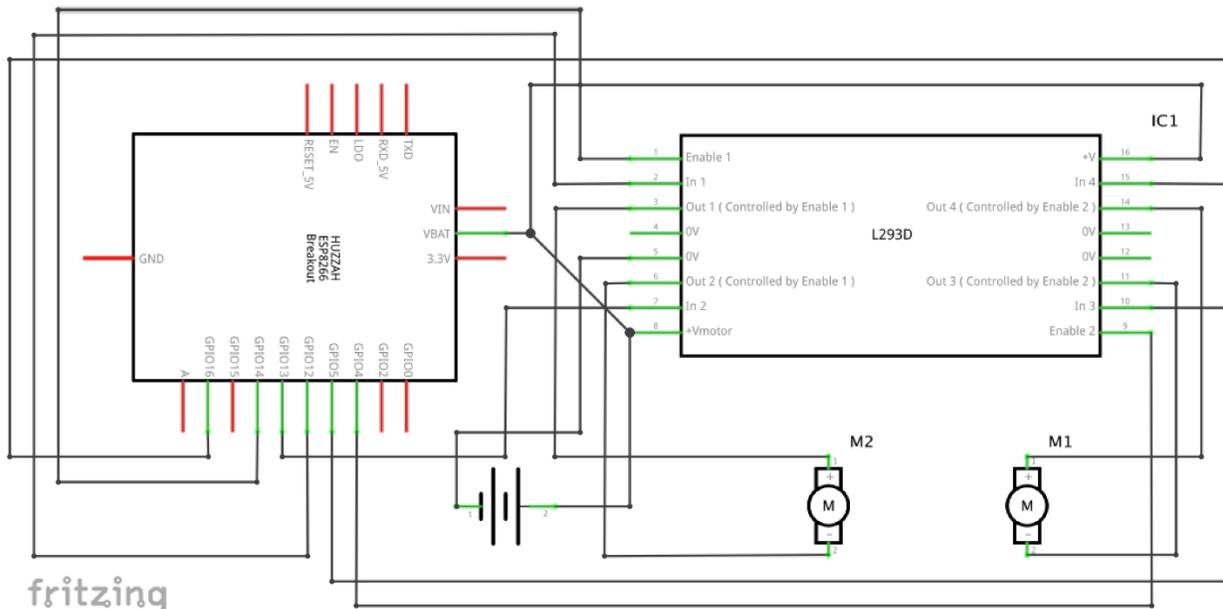
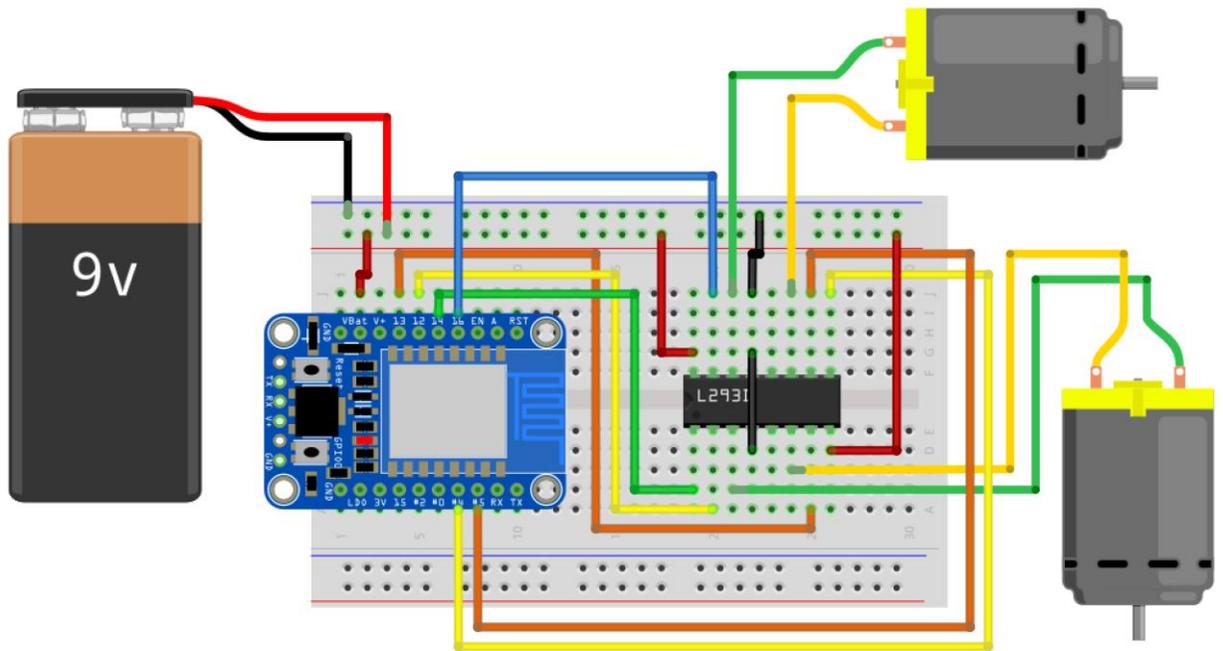
Make a web request

Chapter 12: Cloud-Controlled ESP8266 Robot

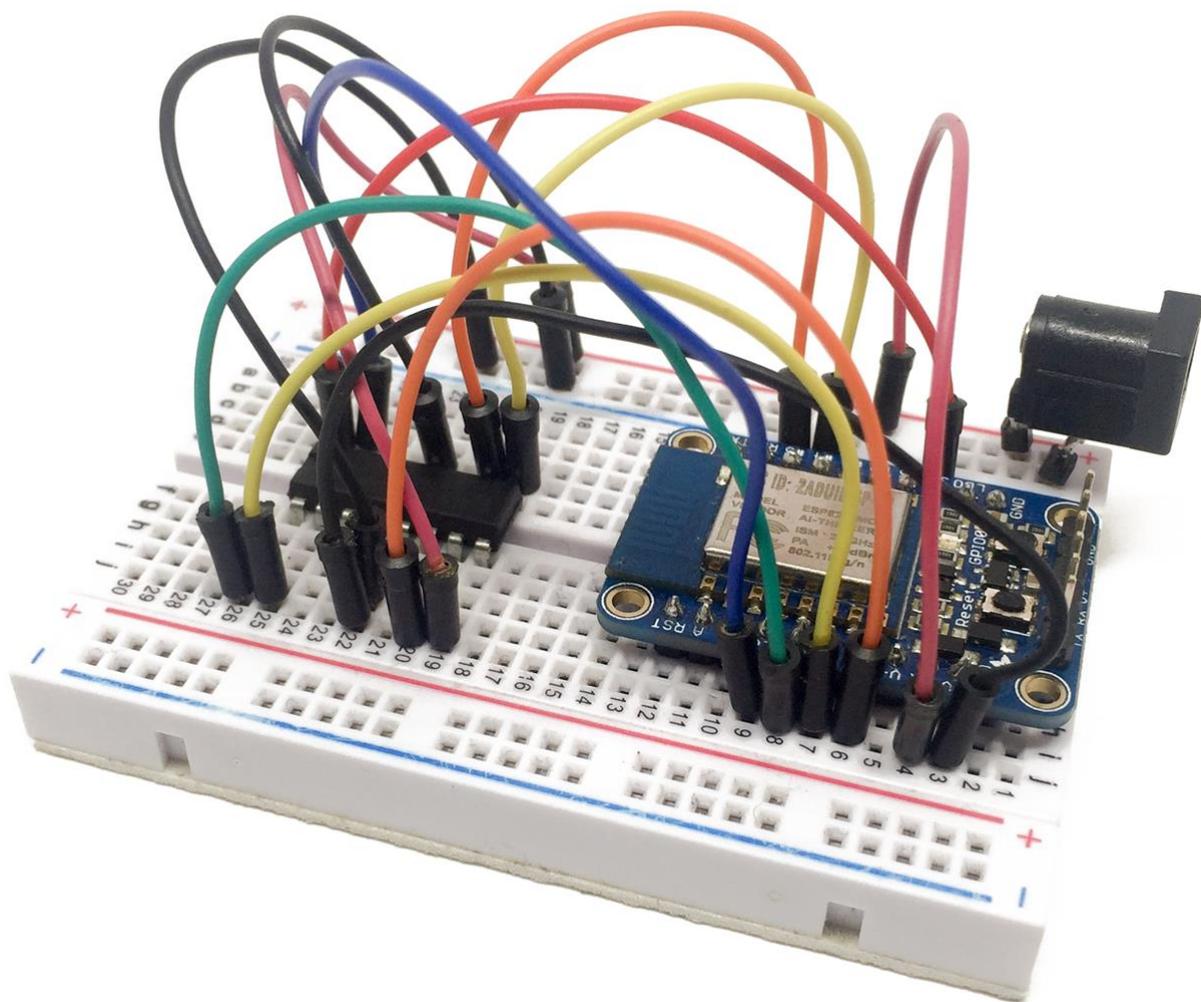


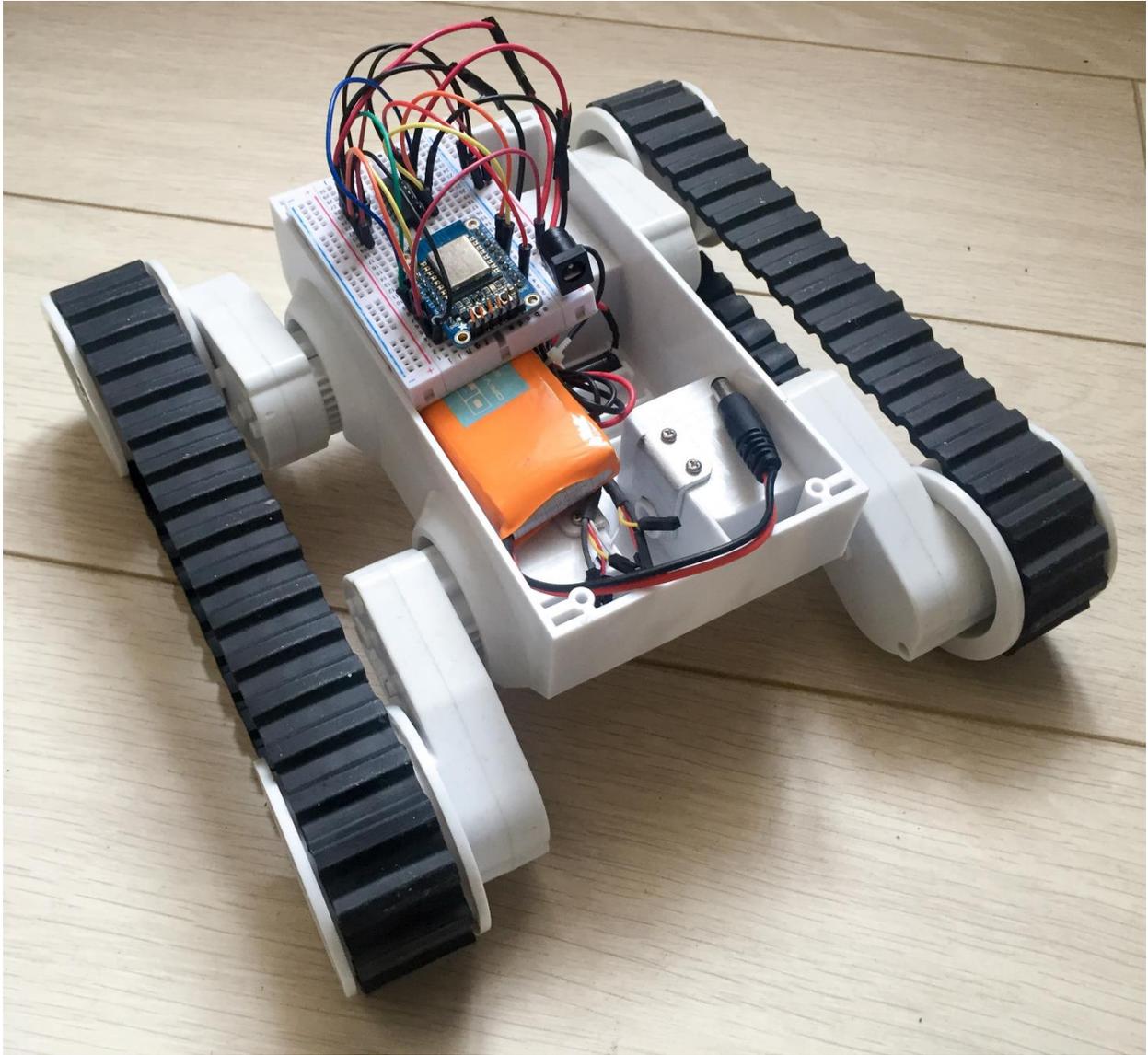






fritzing





Your dashboards:

Robot

Delete

Add a new dashboard

Robot

Hide Edit Mode

Forward 40ep12 Function forward Call Create new element

Forward Forward robot ONLINE Delete

Robot

Hide Edit Mode

Stop 40ep12 Function stop Call Create new element

Forward Forward robot ONLINE Delete

Stop Stop robot ONLINE Delete

Robot

Show Edit Mode

Forward Forward robot ONLINE

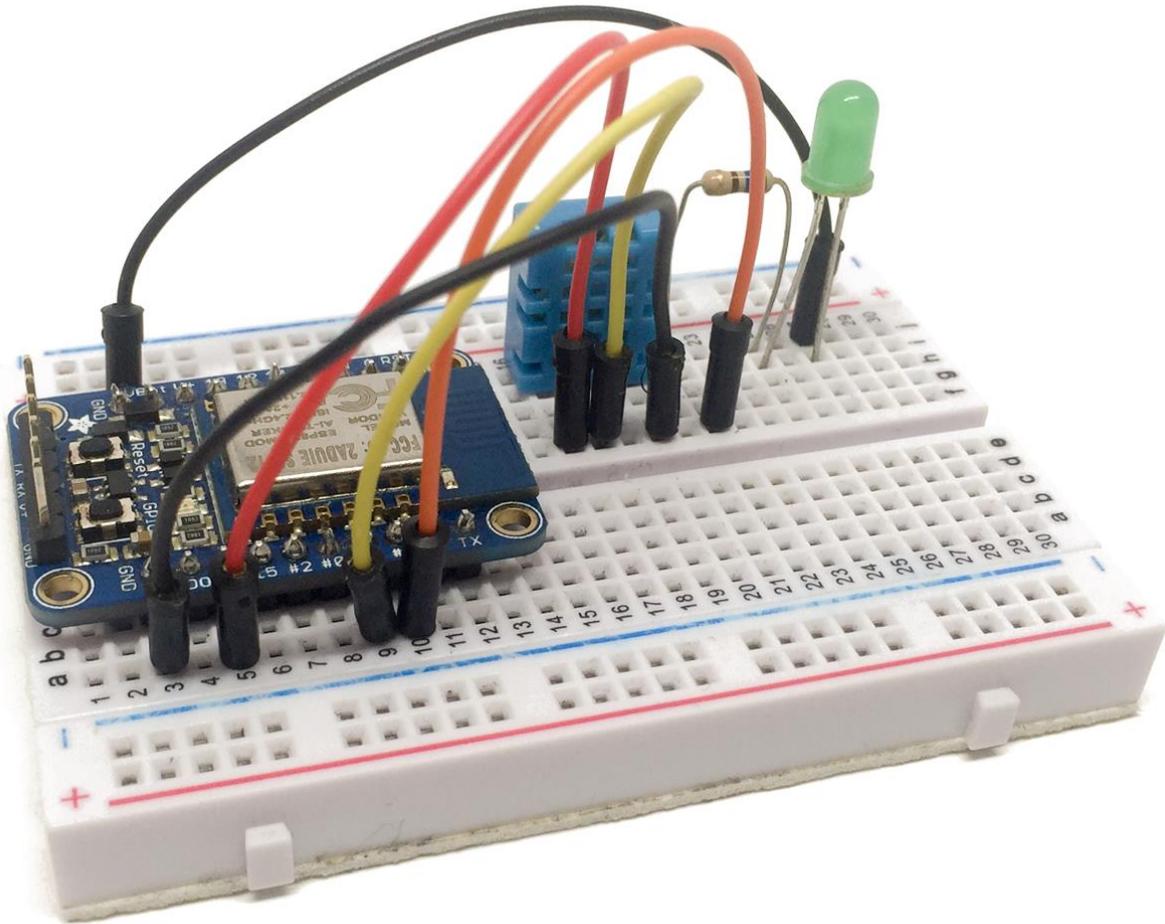
Stop Stop robot ONLINE

Left Left robot ONLINE

Right Right robot ONLINE

Backward Backward robot ONLINE

Chapter 13: Building Your Own Cloud Platform to Control ESP8266 Devices





We're Hiring!

Pricing Features Community Help Log In Sign Up

DigitalOcean

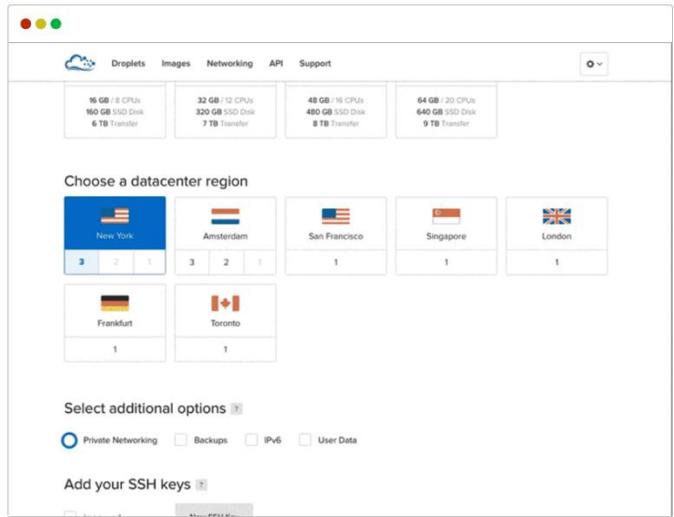
Simple Cloud Hosting,
Built for Developers.

Deploy an SSD cloud server
in 55 seconds.

Email Address

Password

Create Account



Choose a size

<p>\$5/mo \$0.007/hour</p> <p>512 MB / 1 CPU 20 GB SSD Disk 1000 GB Transfer</p>	<p>\$10/mo \$0.015/hour</p> <p>1 GB / 1 CPU 30 GB SSD Disk 2 TB Transfer</p>	<p>\$20/mo \$0.030/hour</p> <p>2 GB / 2 CPUs 40 GB SSD Disk 3 TB Transfer</p>	<p>\$40/mo \$0.060/hour</p> <p>4 GB / 2 CPUs 60 GB SSD Disk 4 TB Transfer</p>	<p>\$80/mo \$0.119/hour</p> <p>8 GB / 4 CPUs 80 GB SSD Disk 5 TB Transfer</p>
<p>\$160/mo \$0.238/hour</p> <p>16 GB / 8 CPUs 160 GB SSD Disk 6 TB Transfer</p>	<p>\$320/mo \$0.476/hour</p> <p>32 GB / 12 CPUs 320 GB SSD Disk 7 TB Transfer</p>	<p>\$480/mo \$0.714/hour</p> <p>48 GB / 16 CPUs 480 GB SSD Disk 8 TB Transfer</p>	<p>\$640/mo \$0.952/hour</p> <p>64 GB / 20 CPUs 640 GB SSD Disk 9 TB Transfer</p>	

Choose an image ?

Distributions One-click Apps



Ubuntu

14.04.3 x64 ▼



FreeBSD

Select Version ▼



Fedora

Select Version ▼



Debian

Select Version ▼



CoreOS

Select Version ▼



CentOS

Select Version ▼

Finalize and create

How many Droplets?

Deploy multiple Droplets with the same [configuration](#).

− 1 Droplet +

Choose a hostname

Give your Droplets an identifying name you will remember them by. Your Droplet name can only contain alphanumeric characters, dashes, and periods.

ubuntu-512mb-nyc3-01

Create

Img	Name	IP Address	Created ▲
	ubuntu-512mb-nyc3-01	192.168.1.1	Let's get to work! More ▼

```
macbook-pro:~/meteor-aREST-mqtt-prod$ mup setup
```

Meteor Up: Production Quality Meteor Deployments

“ Checkout **Kadira!**
It's the best way to monitor performance of your app.
Visit: <https://kadira.io/mup> ”

Started TaskList: Setup (linux)

```
[45.55.79.41] - Installing Node.js  
[45.55.79.41] - Installing Node.js: SUCCESS  
[45.55.79.41] - Installing PhantomJS  
[45.55.79.41] - Installing PhantomJS: SUCCESS  
[45.55.79.41] - Setting up Environment  
[45.55.79.41] - Setting up Environment: SUCCESS  
[45.55.79.41] - Copying MongoDB configuration  
[45.55.79.41] - Copying MongoDB configuration: SUCCESS  
[45.55.79.41] - Installing MongoDB  
[45.55.79.41] - Installing MongoDB: SUCCESS  
[45.55.79.41] - Configuring upstart  
[45.55.79.41] - Configuring upstart: SUCCESS  
macbook-pro:~/meteor-aREST-mqtt-prod$
```

```
macbook-pro:meteor-aREST-mqtt-prod marco$ mup deploy

Meteor Up: Production Quality Meteor Deployments
-----

" Checkout Kadira!
  It's the best way to monitor performance of your app.
  Visit: https://kadira.io/mup "

Building Started: .

Started TaskList: Deploy app 'arest' (linux)
[45.55.79.41] - Uploading bundle
[45.55.79.41] - Uploading bundle: SUCCESS
[45.55.79.41] - Setting up Environment Variables
[45.55.79.41] - Setting up Environment Variables: SUCCESS
[45.55.79.41] - Invoking deployment process
[45.55.79.41] - Invoking deployment process: SUCCESS
MacBook-Pro:meteor-aREST-mqtt-prod marco$
```

```
/dev/cu.usbserial-A9014TM4

WiFi connected
Attempting MQTT connection...Connected to MQTT server

Autoscroll Both NL & CR 115200 baud
```