

O QUE NÃO FALAM
PARA VOCÊ SOBRE

INTERNET
das coisas

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garoa.net.br



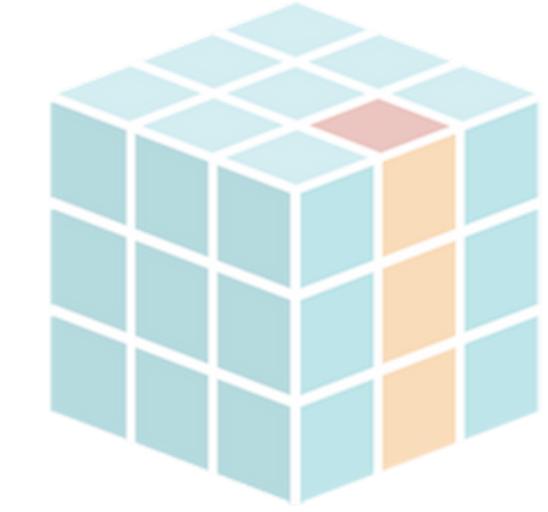
g d g s p . o r g



imasters.com.br/revista



fazedores.com



FAZEDORES

O QUE REALMENTE É
INTERNET DAS COISAS?

- O termo IoT foi proposto por **Kevin Ashton** em 2009
- Refere-se a objetos **identificados de forma única** e suas representações virtuais em uma **estrutura similar a internet**.

GERAMOS INFORMAÇÃO



"If we had computers that knew everything there was to know about things – using data they gathered **without any help from us** – we would be able to **track and count everything**, and greatly reduce waste, loss and cost. "

– KEVIN ASHTON, THAT 'INTERNET OF THINGS' THING,
RFID JOURNAL, JULY 22, 2009

17.588.111

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PROBLEMAS COM IOT

**CONECTIVIDADE
INTEROPERABILIDADE**

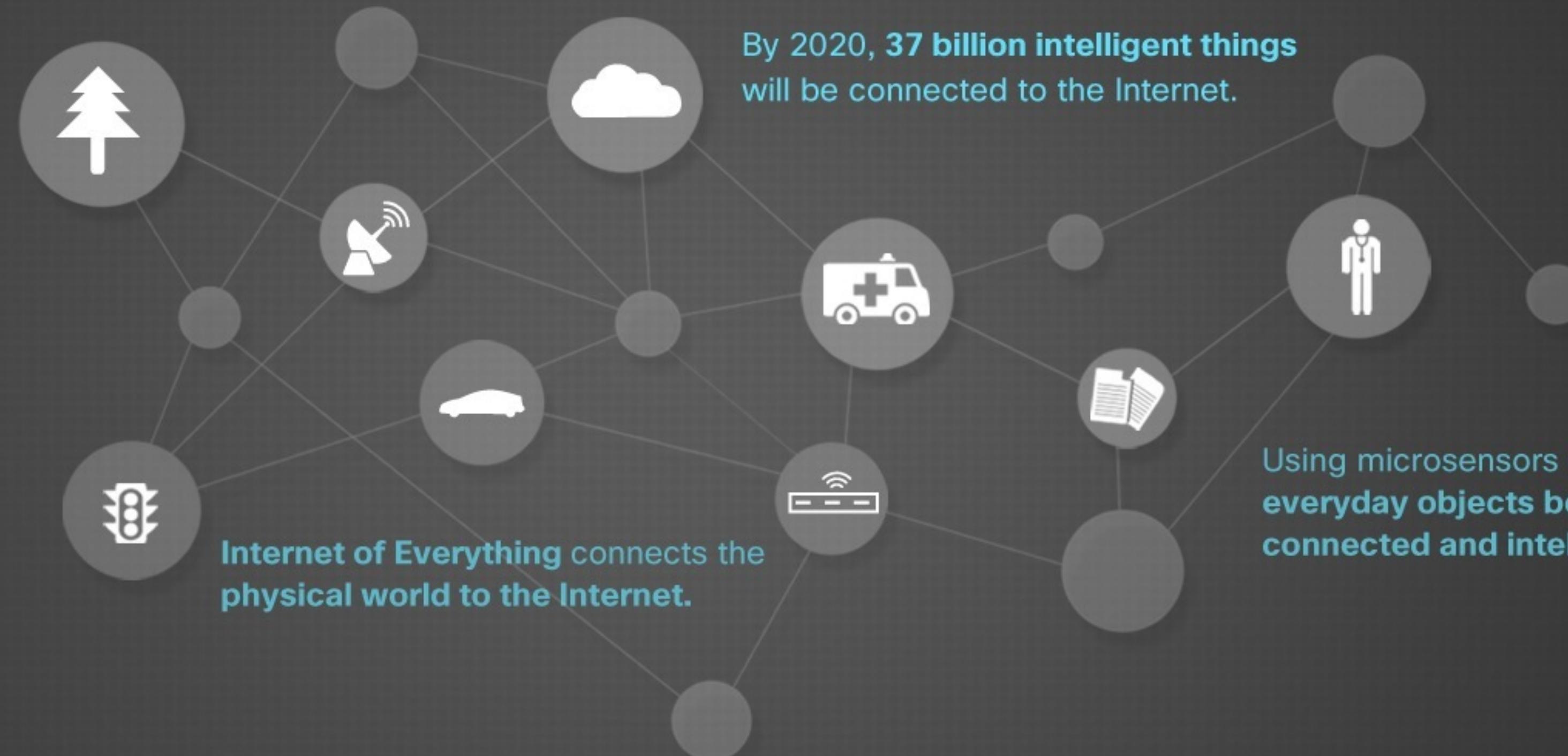
QUAL PROTOCOLO/MEIO USAR?

- ETHERNET
- WIFI (a/b/g/n)
- BLUETOOTH e BLE/iBeacons
- ZIGBEE
- RFID, NFC
- SOM e LUZ

PADRÃO ENTRE OS
FABRICANTES?

Today, more than **99% of things** in the physical world
are still not connected to the Internet.

But a phenomenon called “The Internet of Everything” will wake up **everything you can imagine.**

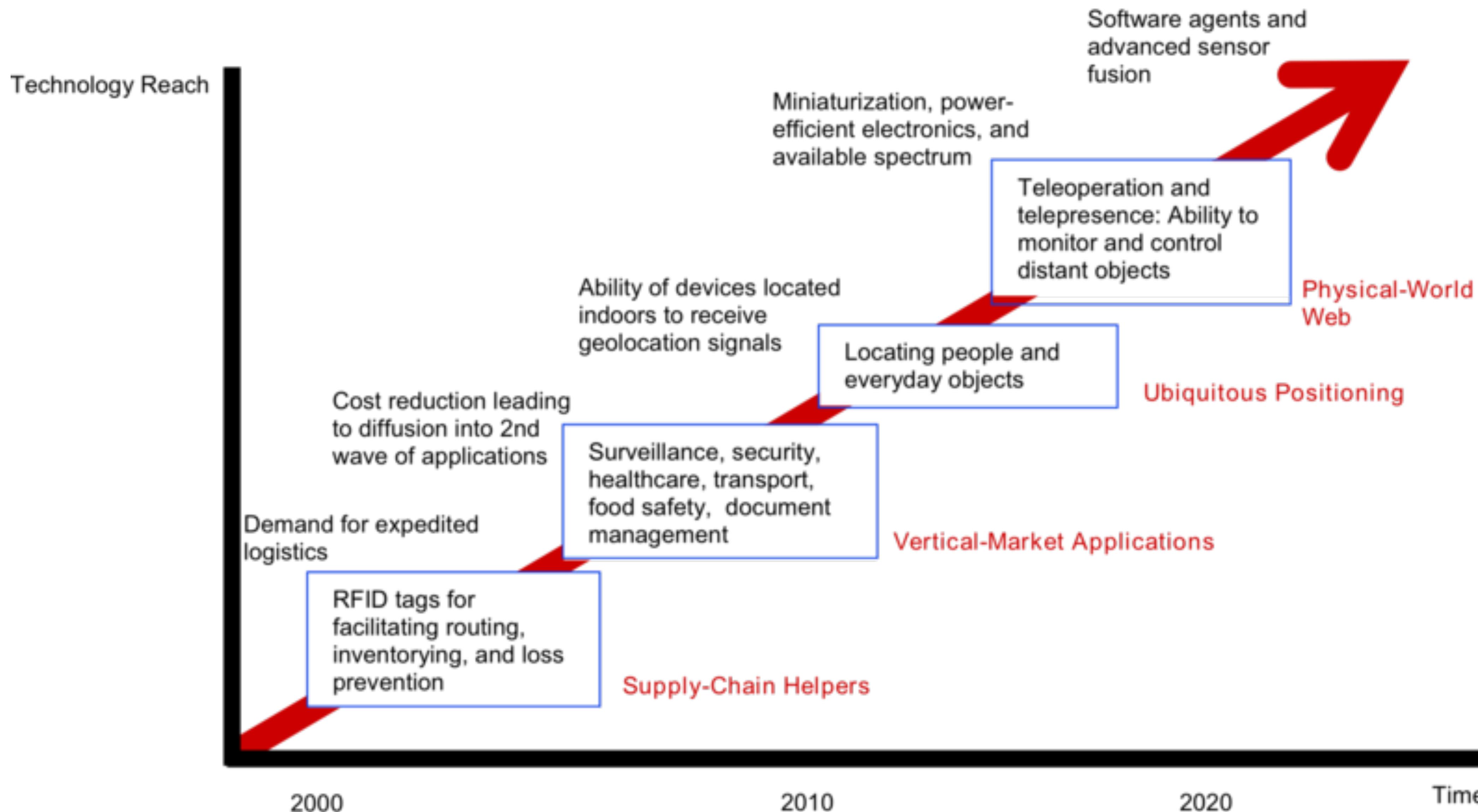


The Internet of
EVERYTHING

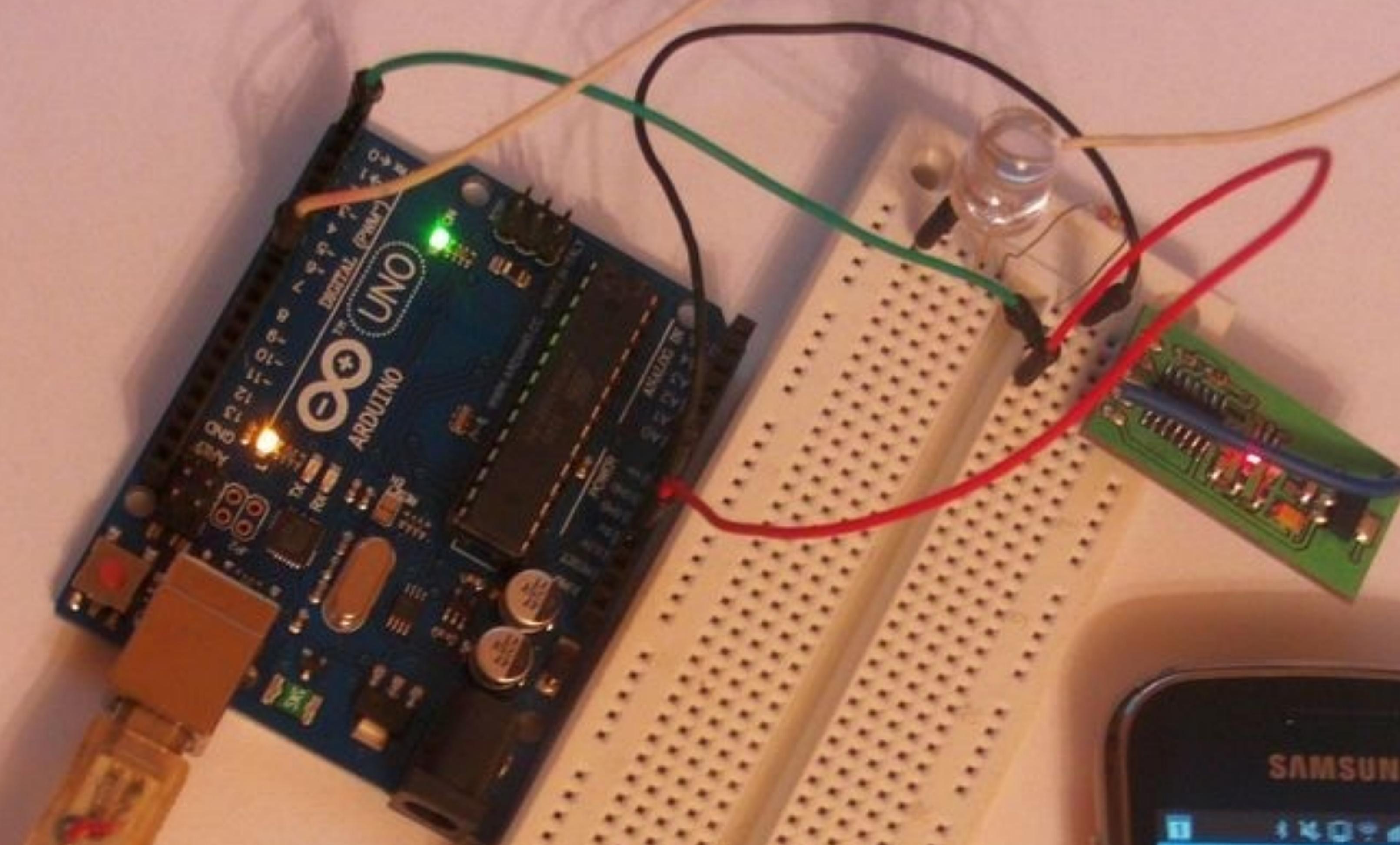
#InternetofEverything
#IoE



TECHNOLOGY ROADMAP: THE INTERNET OF THINGS

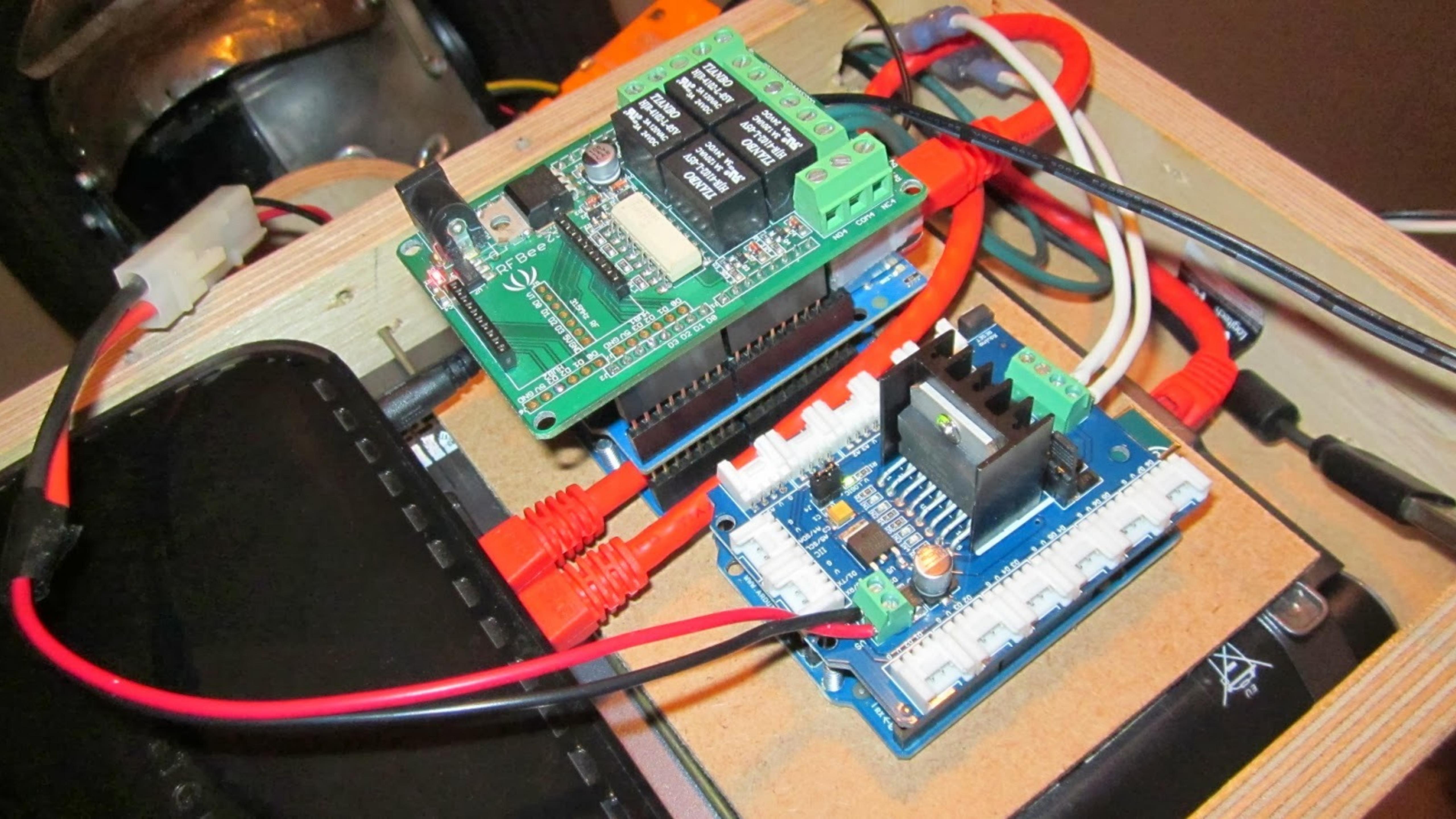


Source: SRI Consulting Business Intelligence

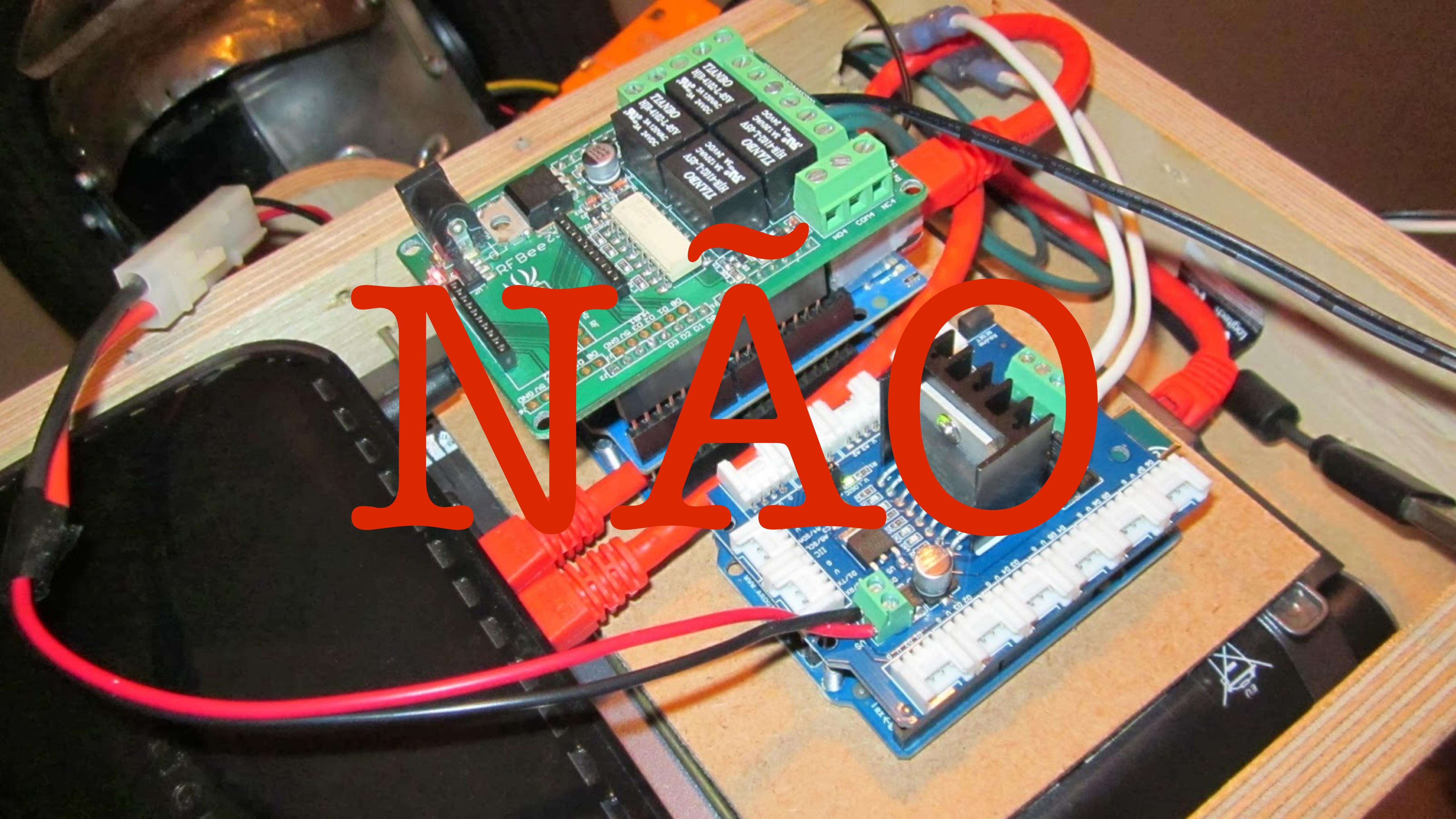


NÃO



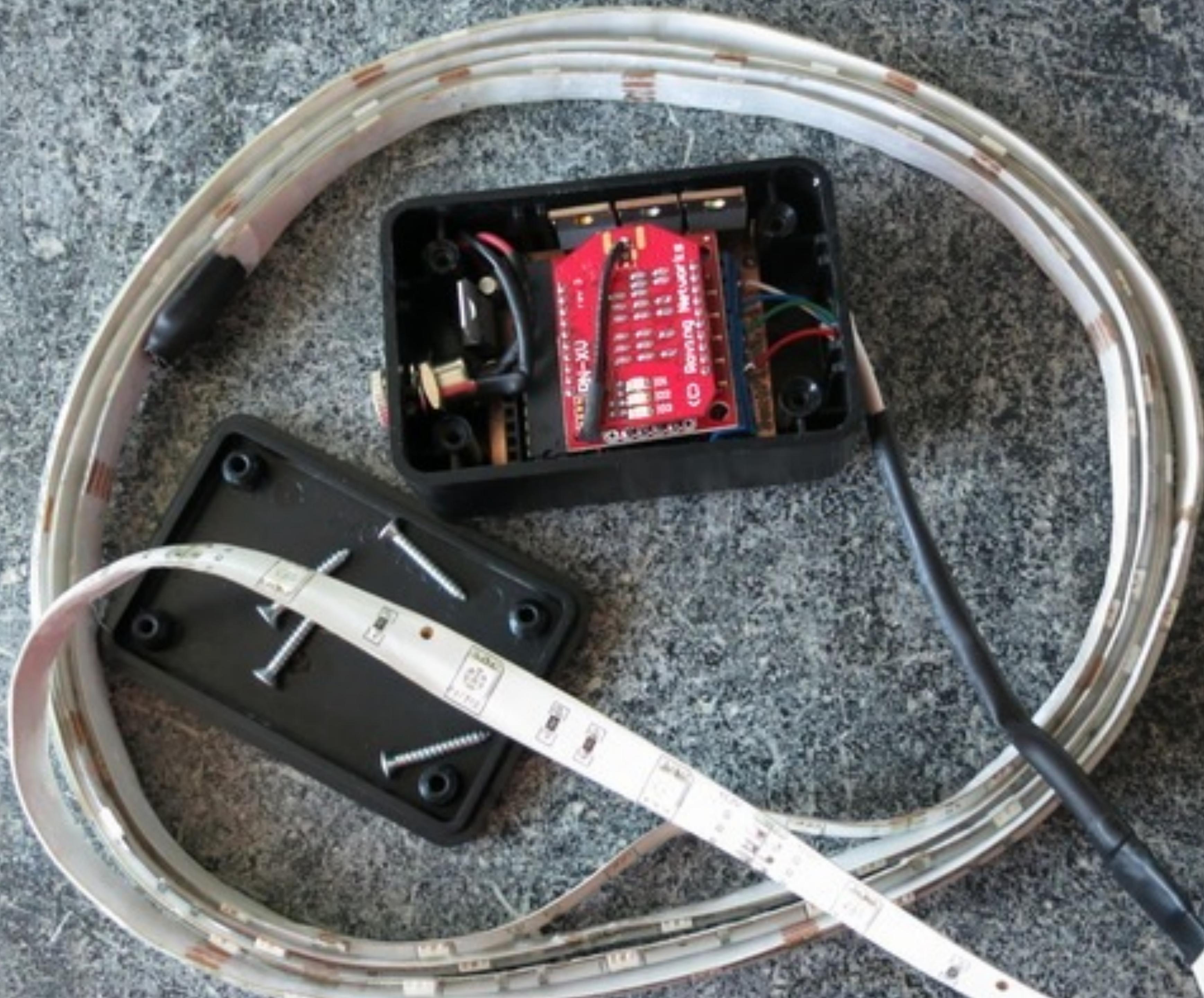


ITĀO









ПАО





MOISTURE

IS IT WET?



IS IT OPEN?

BREAKOUT

IS IT ____?

NAO





APERTE O BOTAO
PARA TER WIFI

NÃO

APERTE O BOTAO
PARA TER WIFI



Quirky



PORKFOLIO
BY GE

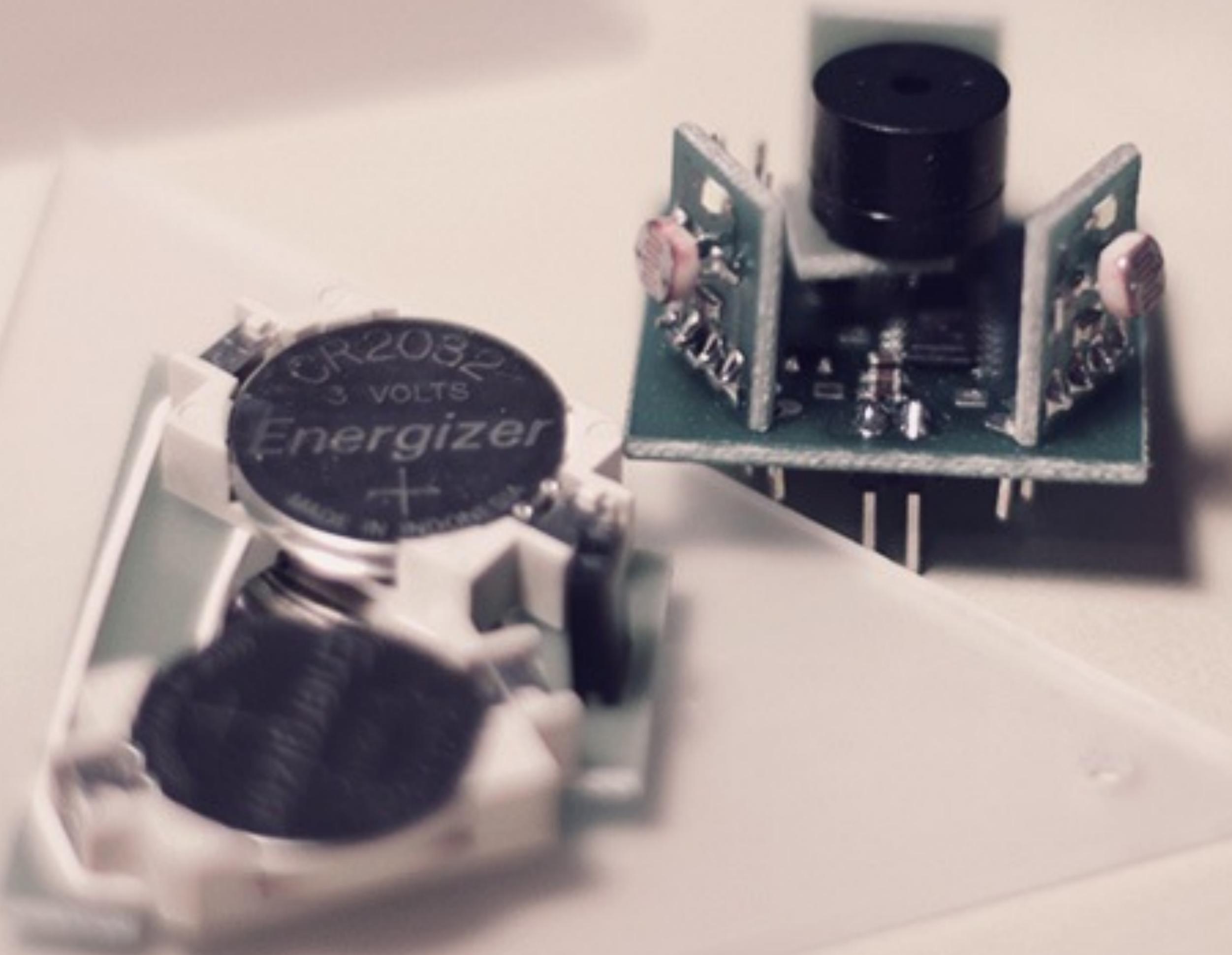
Quirky + 



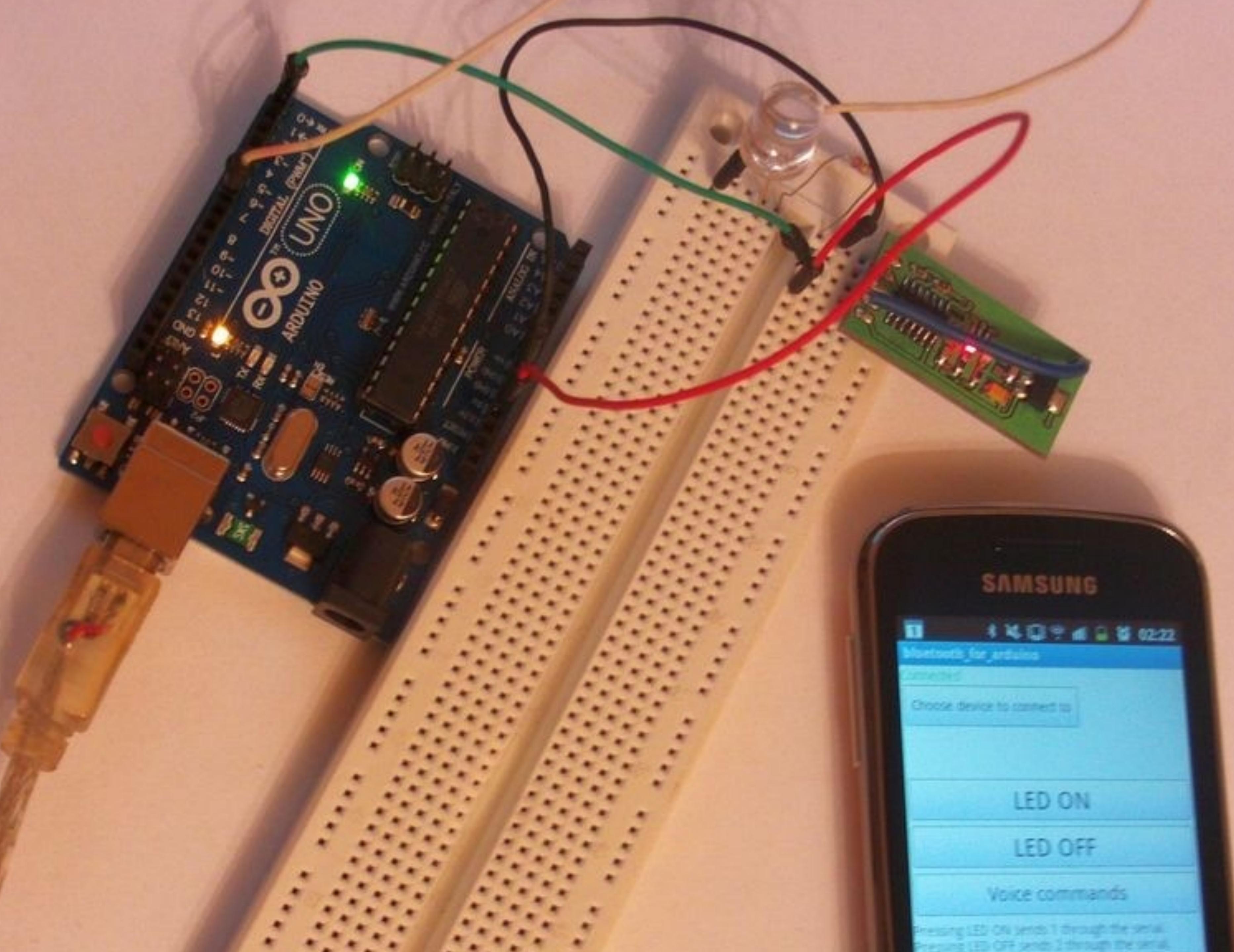
NÃO



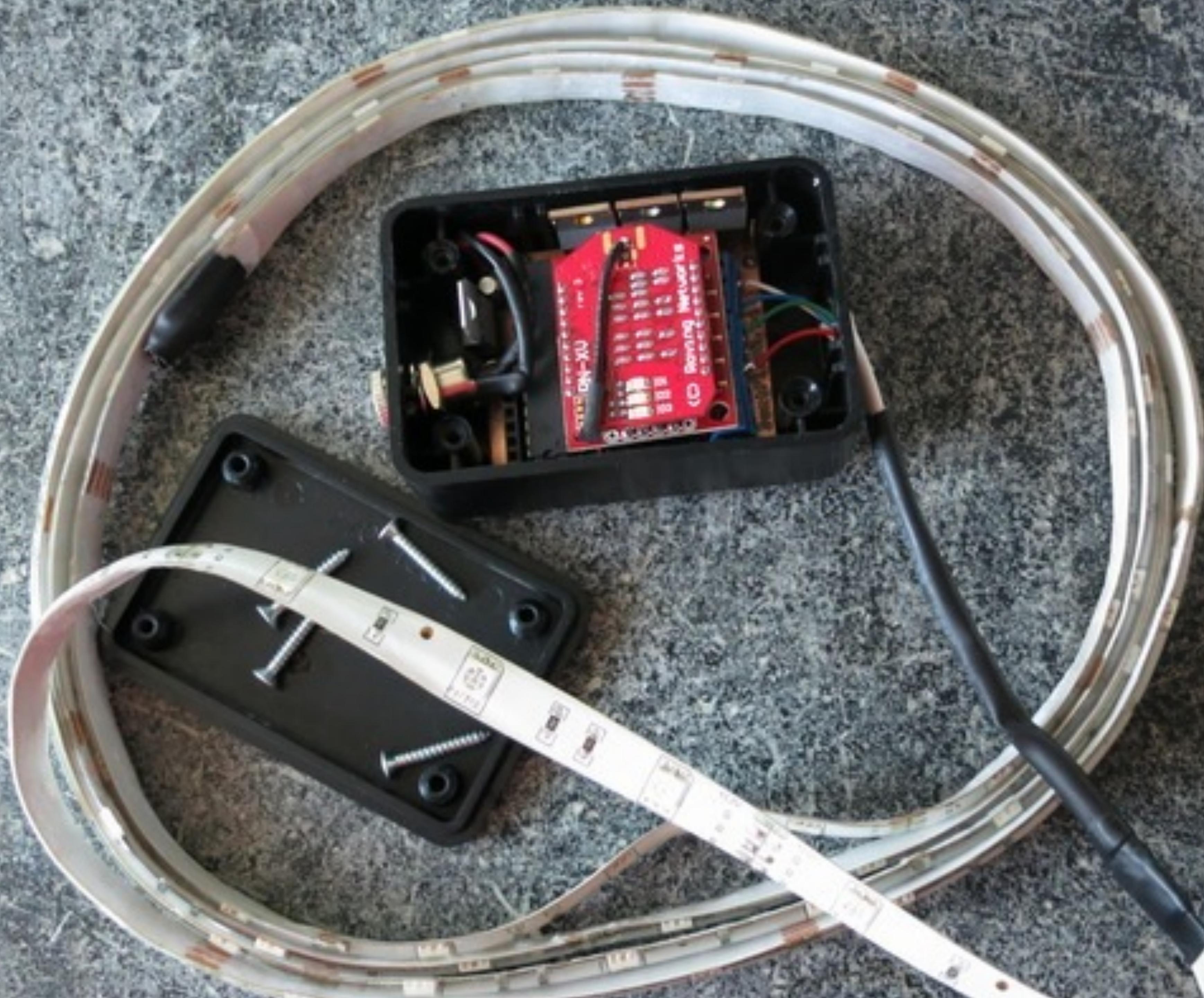
UTOPIA?













MOISTURE

IS IT WET?



IS IT OPEN?

BREAKOUT

IS IT ____?



APERTE O BOTAO
PARA TER WIFI







VAMOS FALAR SOBRE
DISPOSITIVOS
CONECTADOS

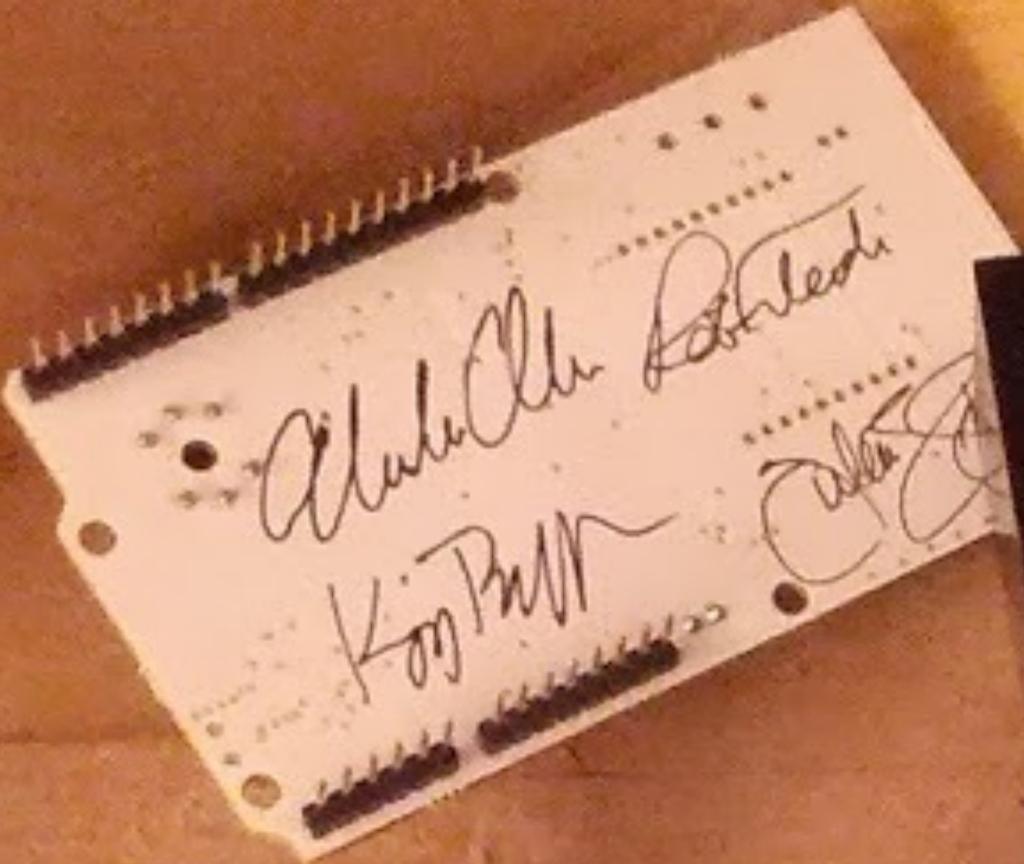
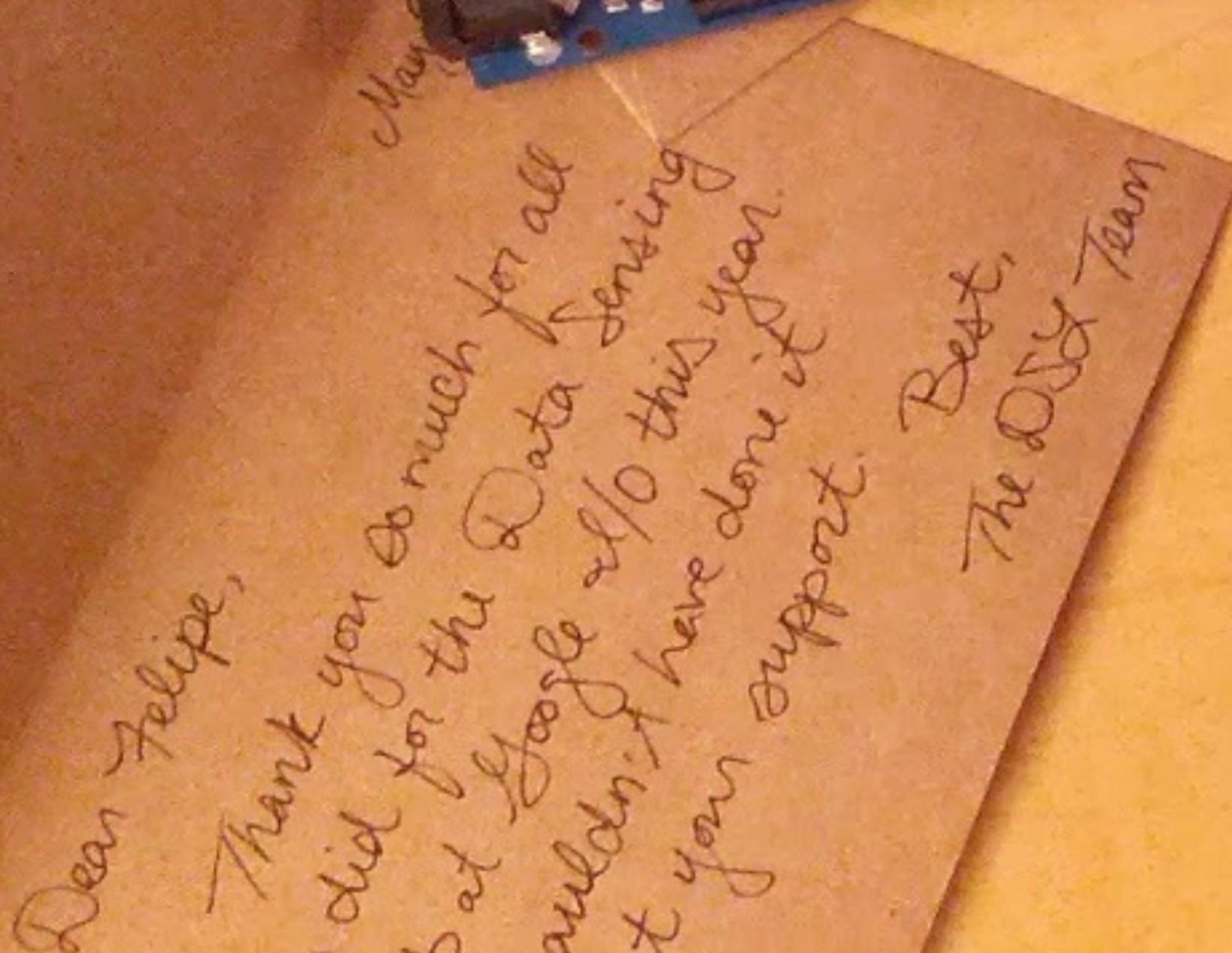


SENSORES & BIG DATA

Dear Felipe,

Thank you so much for all
you did for the Data Sensing
Lab at Google I/O this year.
I can't have done it
without your support.

Best,
The DSS Team



I'm collecting data here!

Five hundred sensor motes—and over four thousand data streams—continuously monitoring temperature, humidity, pressure, light, air quality, motion, and both RF and audio noise levels, all through I/O.

Come meet the Data Sensing Lab team, check out our hardware, and learn more about this project at the Cloud Platform Sandbox on the 2nd Floor.

Google
Cloud Platform

DATA
SENSING
LAB

Hardware hacking for data science

Kipp Ball

Alab Albu





SYNC



Powered by Microsoft

TECHNOLOGY DEVELOPMENT KIT



#Ford CES

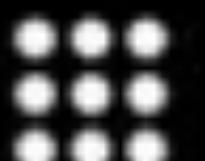


John Appleseed

0:05



End



Keypad



Add Call



Mute

••••• LTE

9:41 AM



VOL





creative



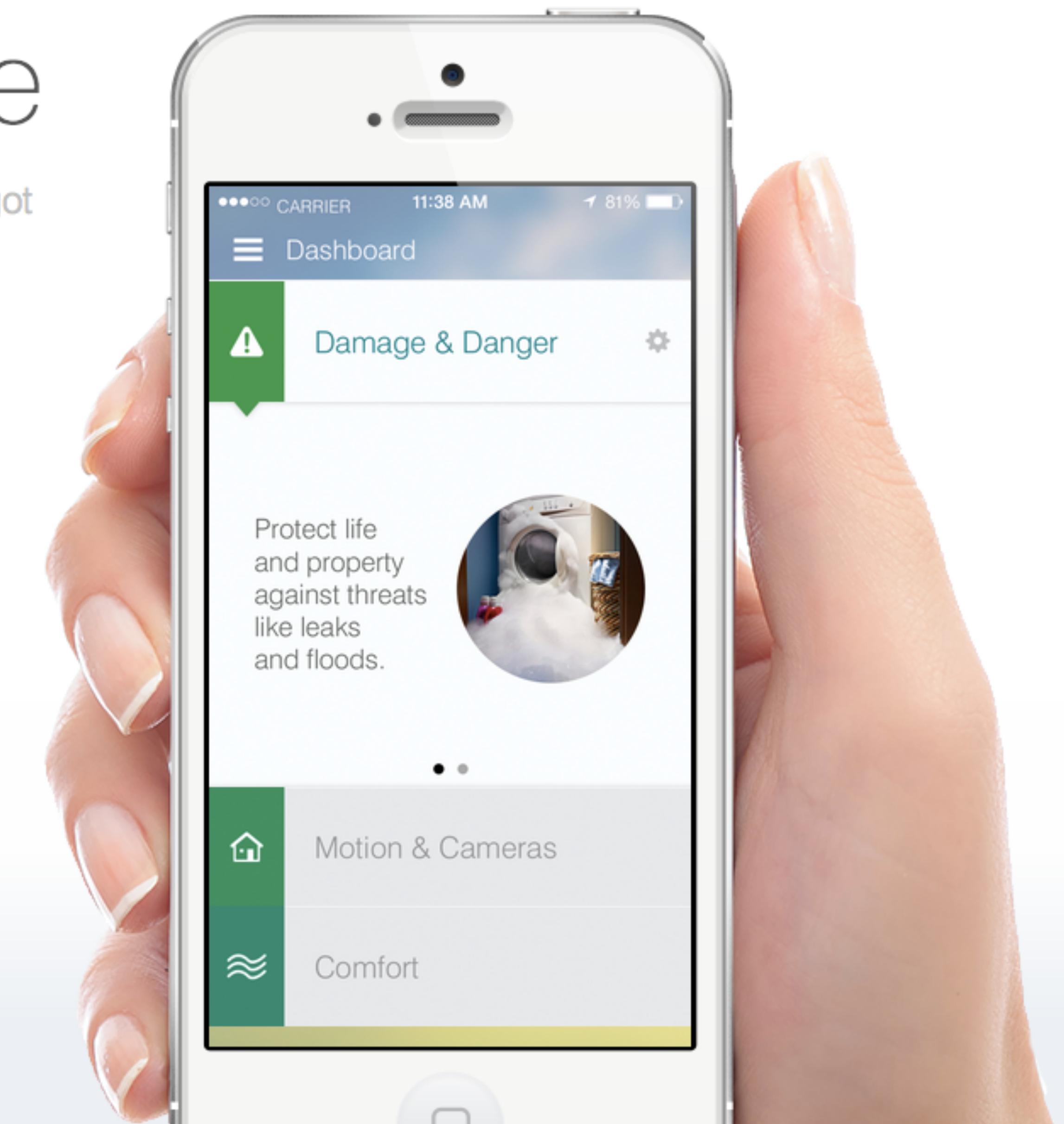
Automação Residencial

Hello, Smart Home

You spend a lot of time with your home. Isn't it time it got to know you?



[Watch the Video](#)







p r e s e n t s

T H E N E X T G E N E R A T I O N

C O N T R O L O F Y O U R E N V I R O N M E N T

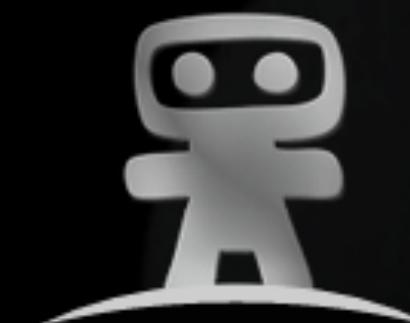
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available.

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S P H E R E





hue 5. Portal API – Philips hue / X

← → C developers.meethue.com/5_portalapi.html

★ 🔍 📸 ⏹ ⏷ ON 49

PHILIPS

hue PERSONAL WIRELESS LIGHTING

Philips hue API

5. Portal API

This part of the hue developer program is still under development.

Currently available methods:

5.1 Discover local bridges

URL	www.meethue.com/api/nupnp
Method	GET
Version	1.0
Permission	Open



VESTÍVEIS

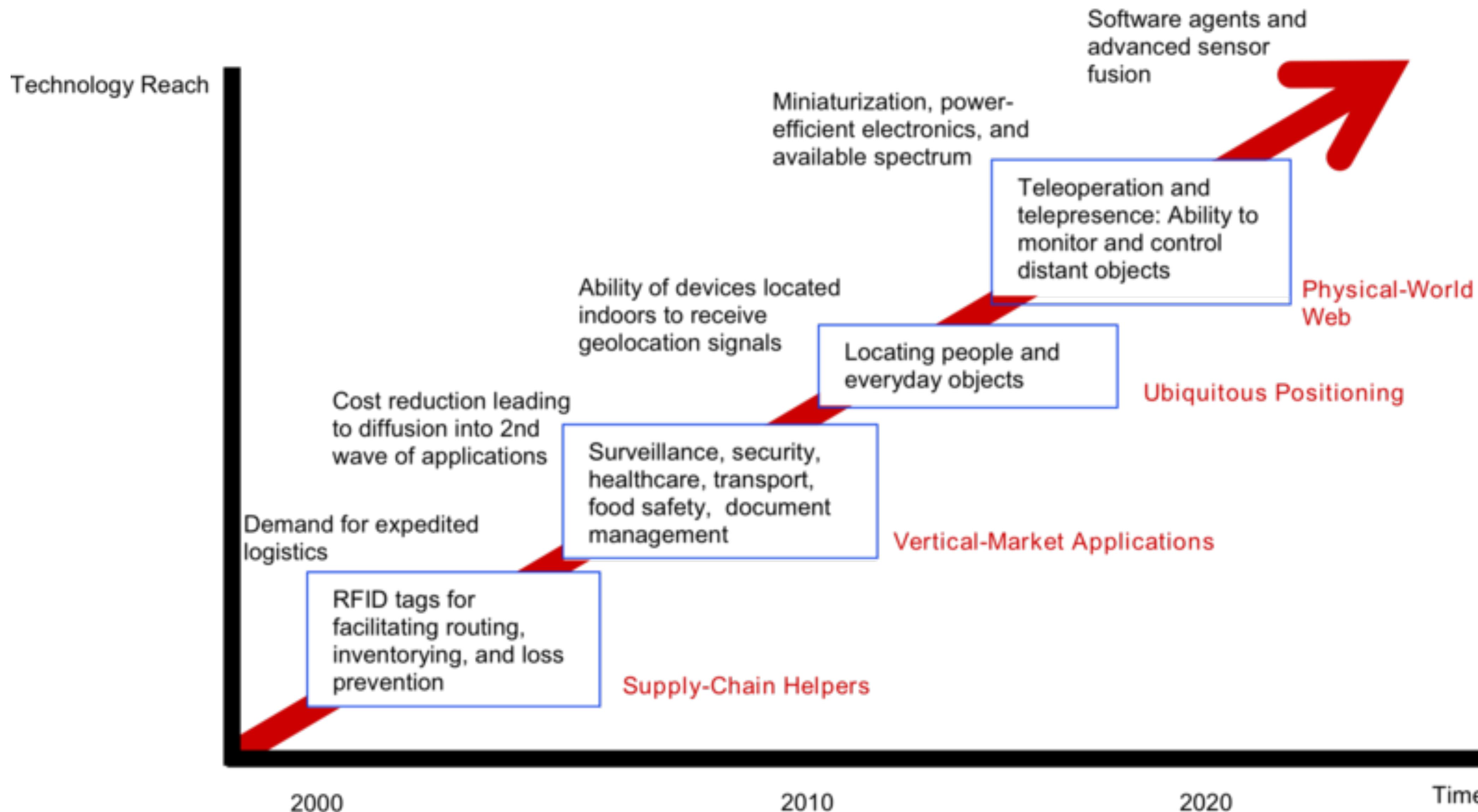
A.K.A. "WEARABLES"







TECHNOLOGY ROADMAP: THE INTERNET OF THINGS



Source: SRI Consulting Business Intelligence

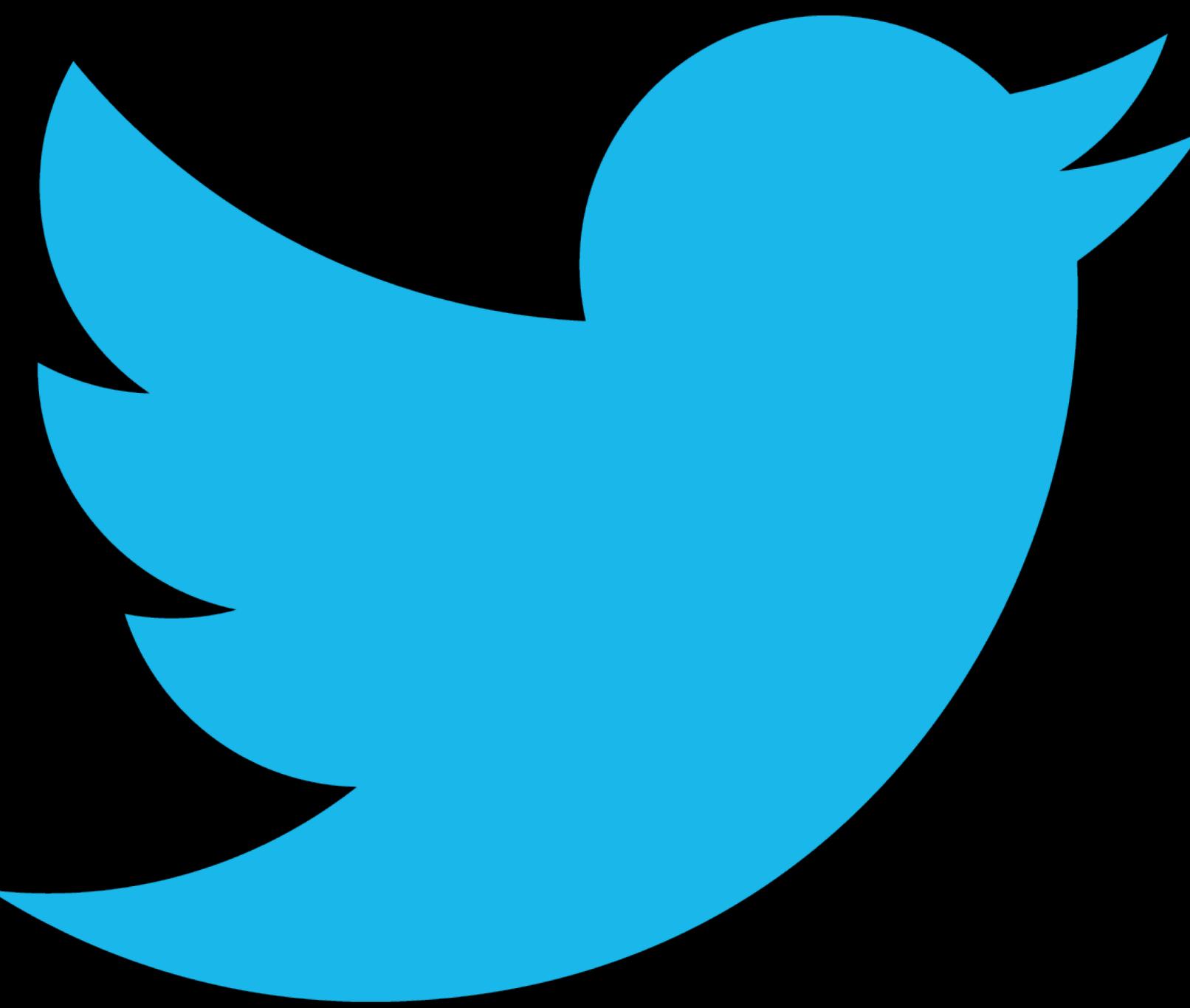
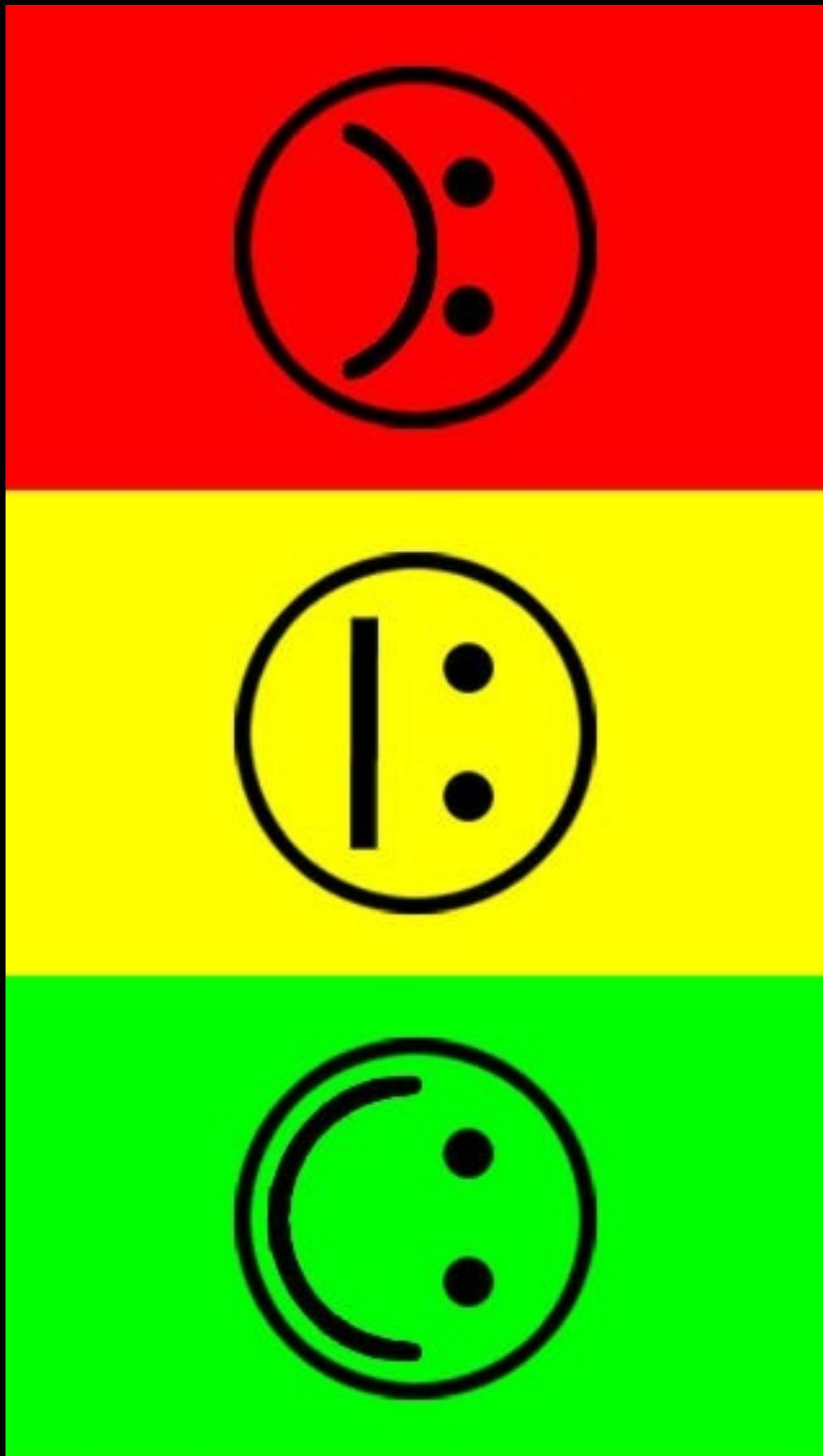
D E M O

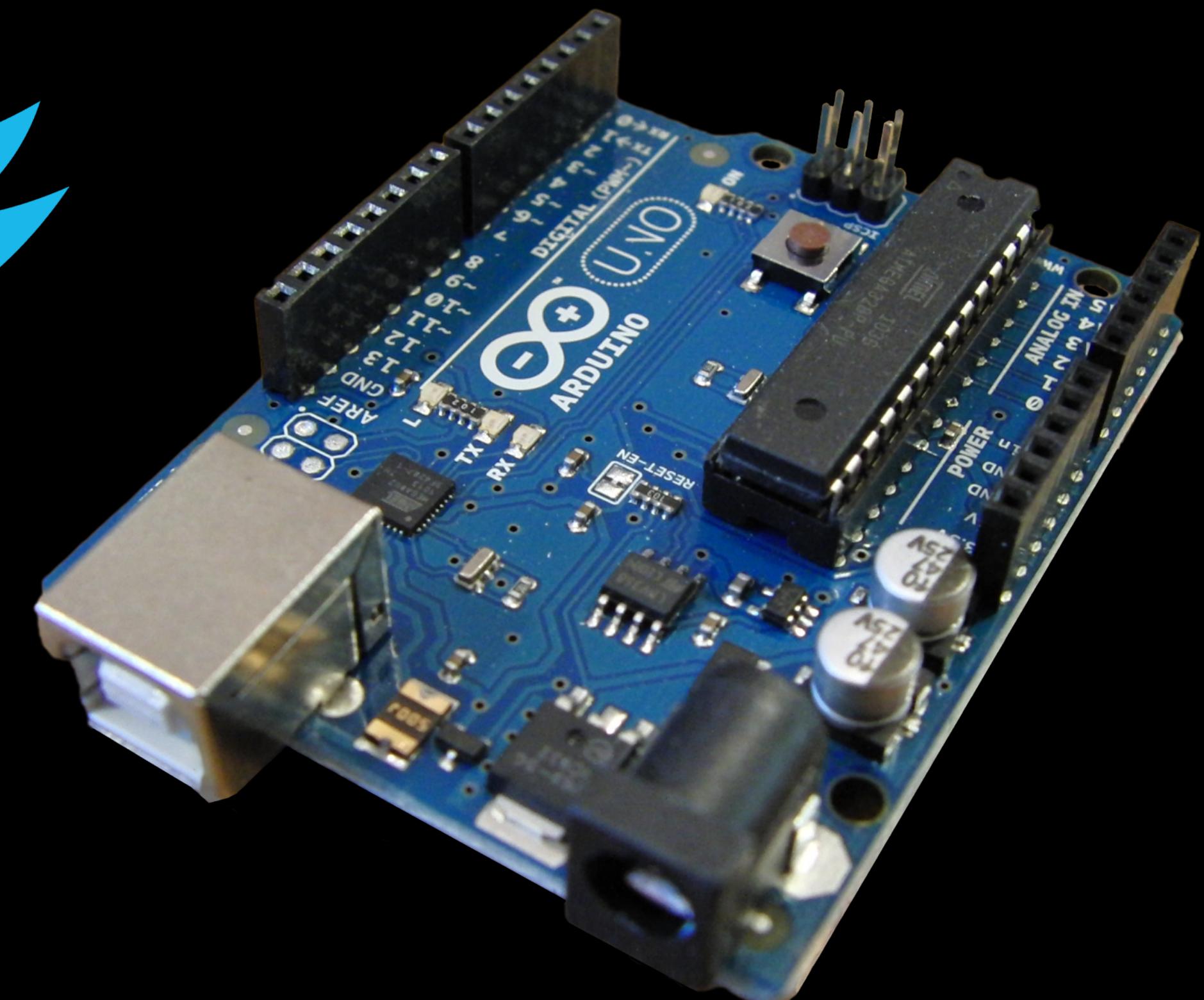
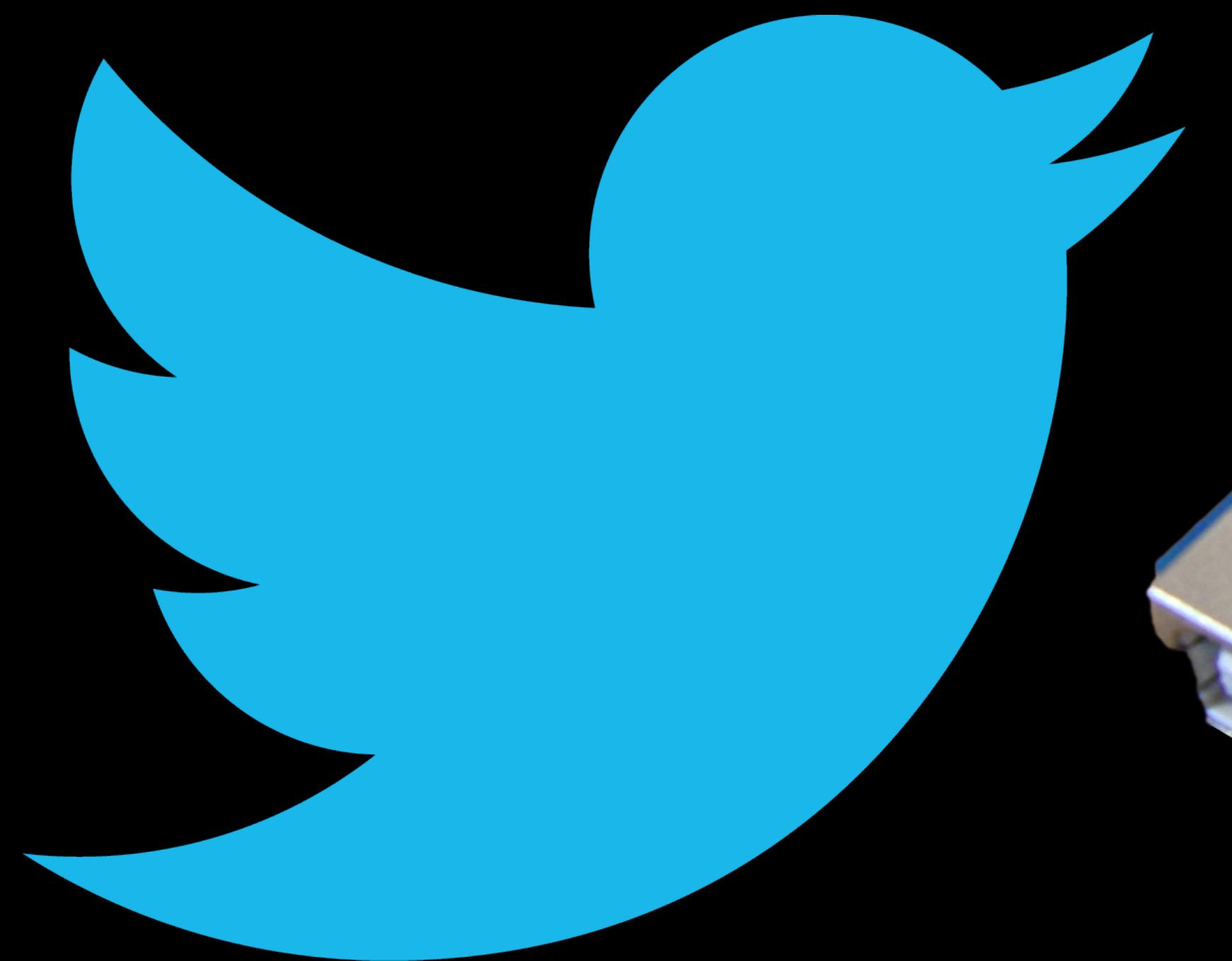
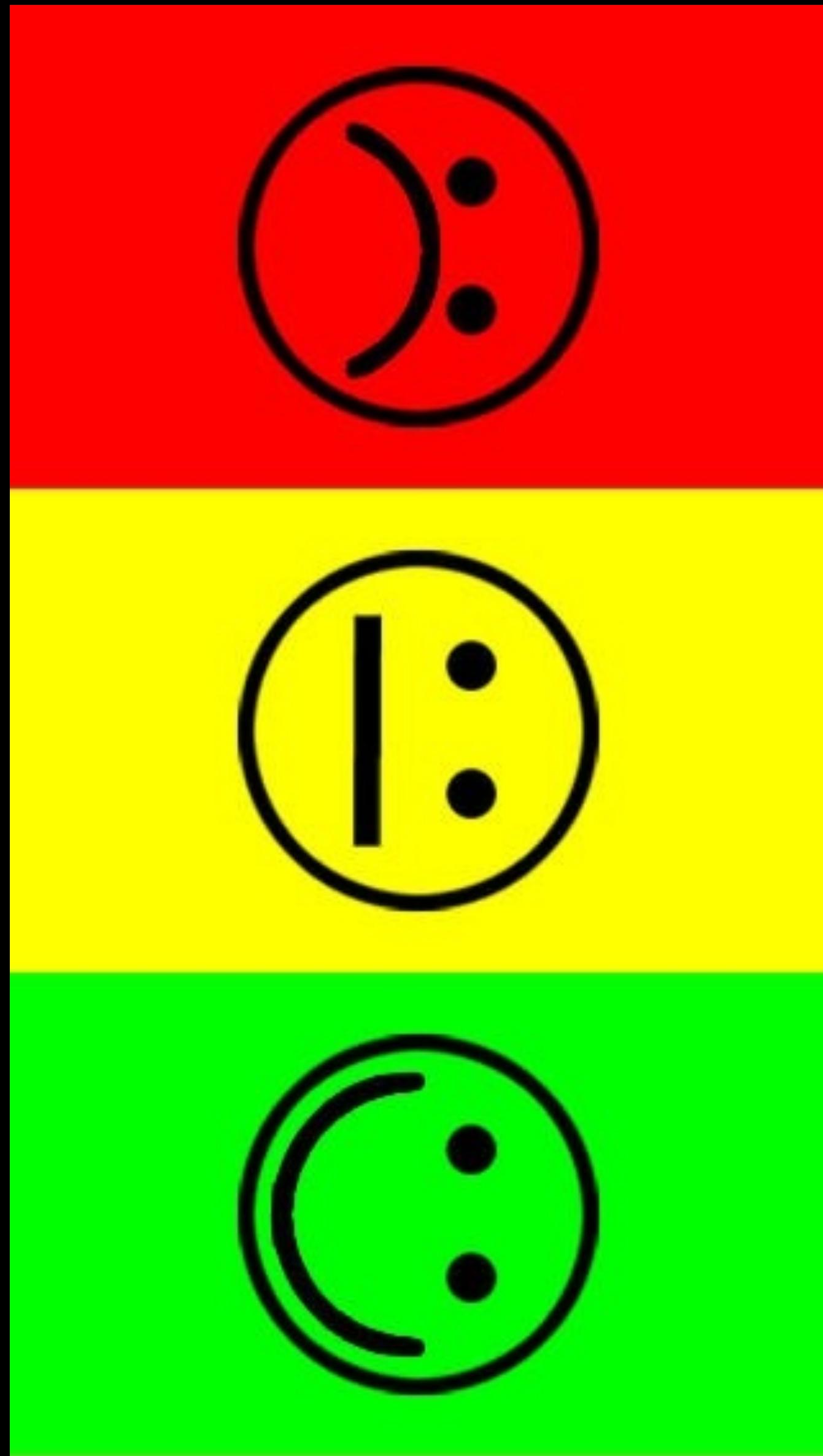
PROBLEMA QUE VAMOS RESOLVER?

Feedback das palestras do
Forum da Internet 2014



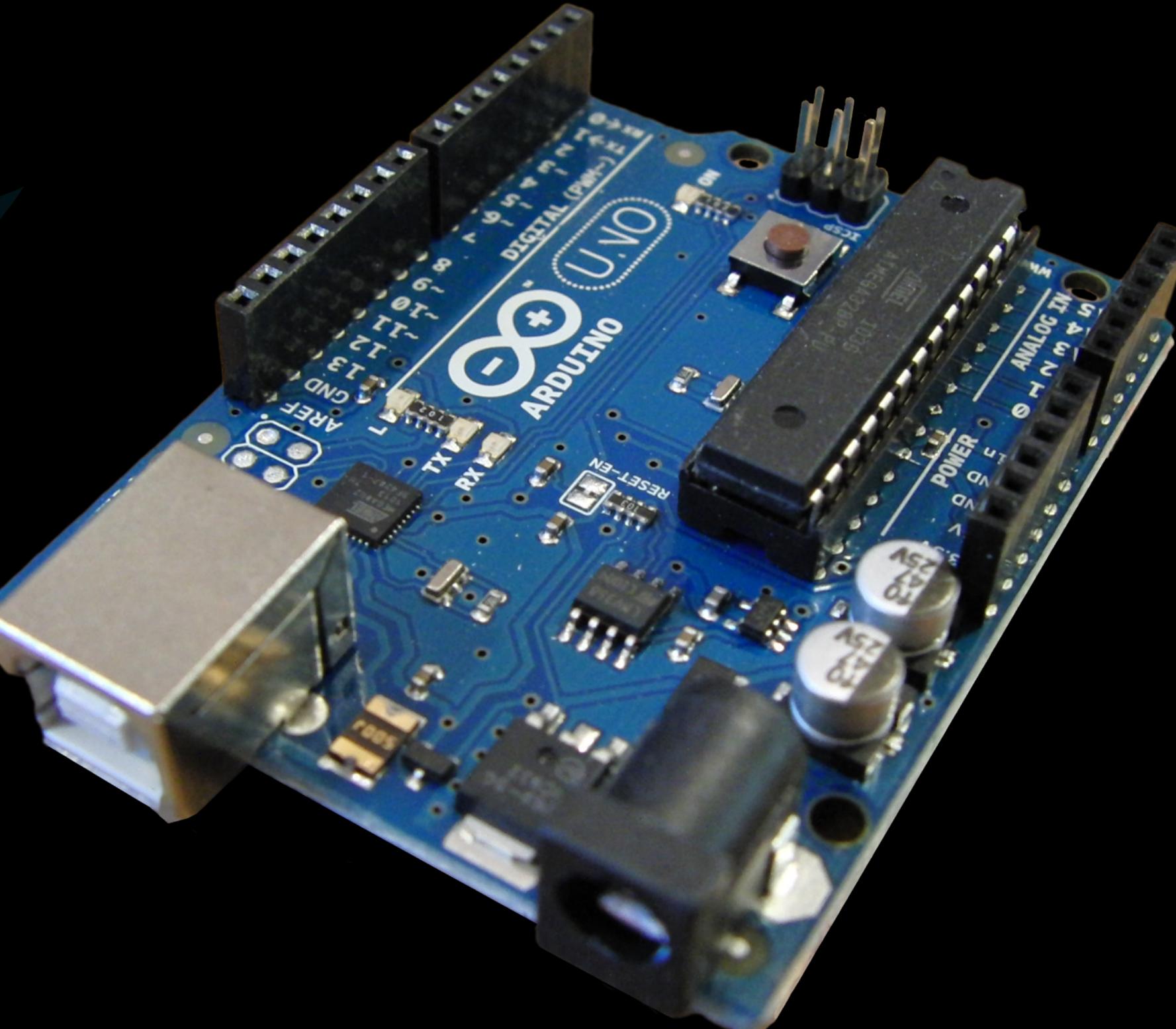






Blink | Arduino 1.0

File Edit Sketch Tools Help

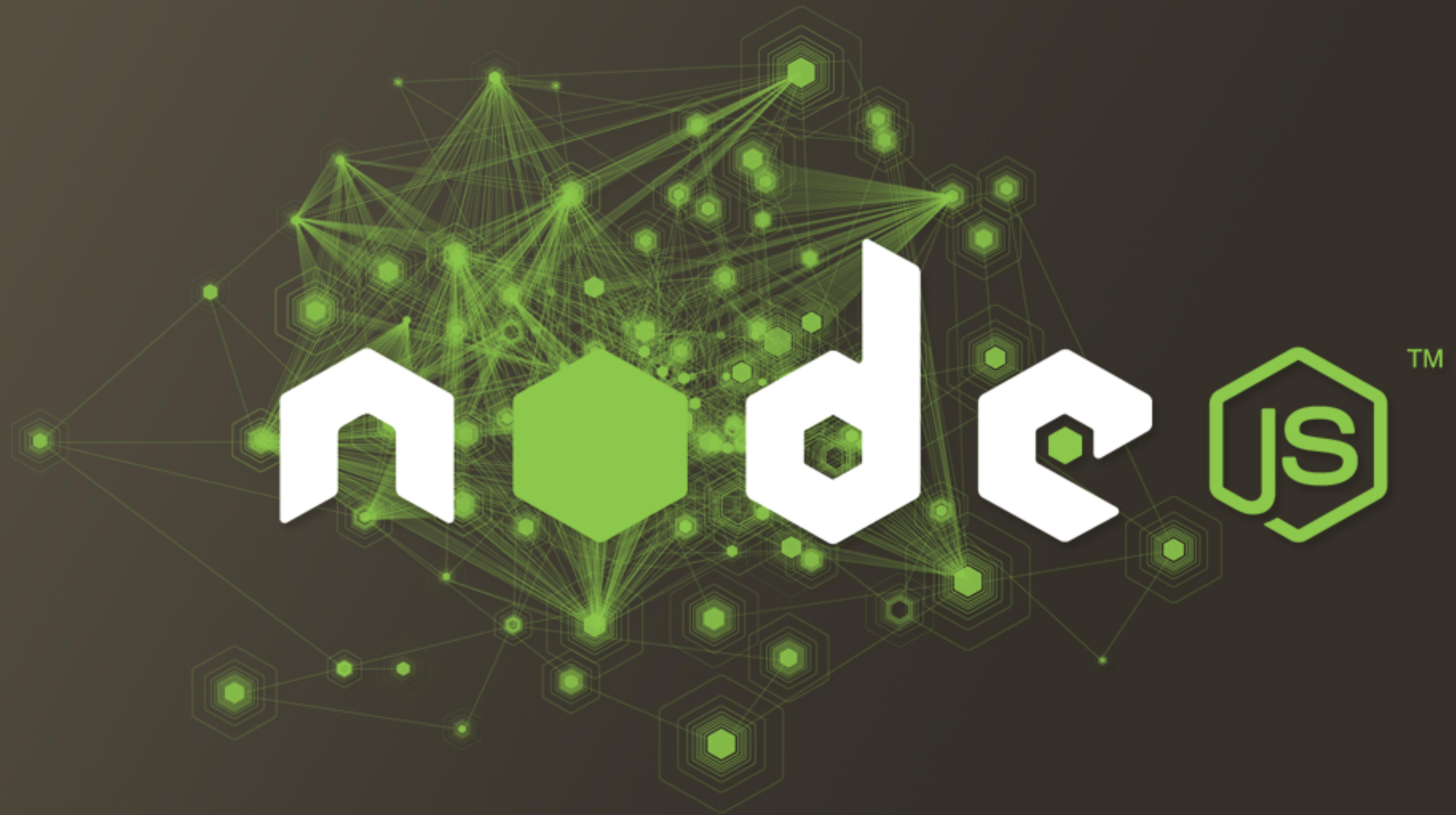
An Arduino Uno microcontroller board is shown from a top-down perspective, angled slightly. It features a blue PCB with various electronic components, including a central ATmega328P microcontroller, a USB port, and a breadboard. The board is labeled "ARDUINO UNO" and has a circular logo with the number 8.

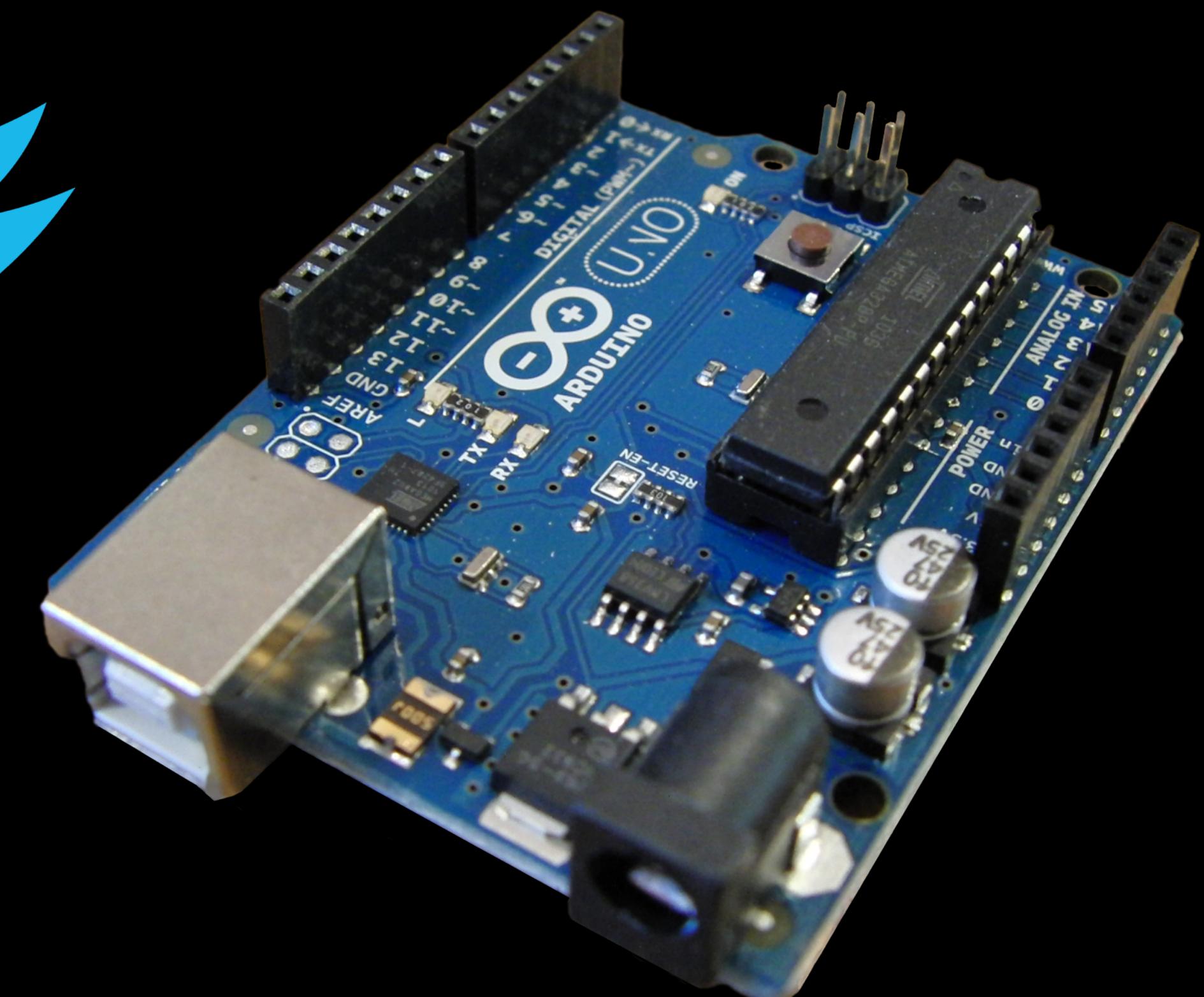
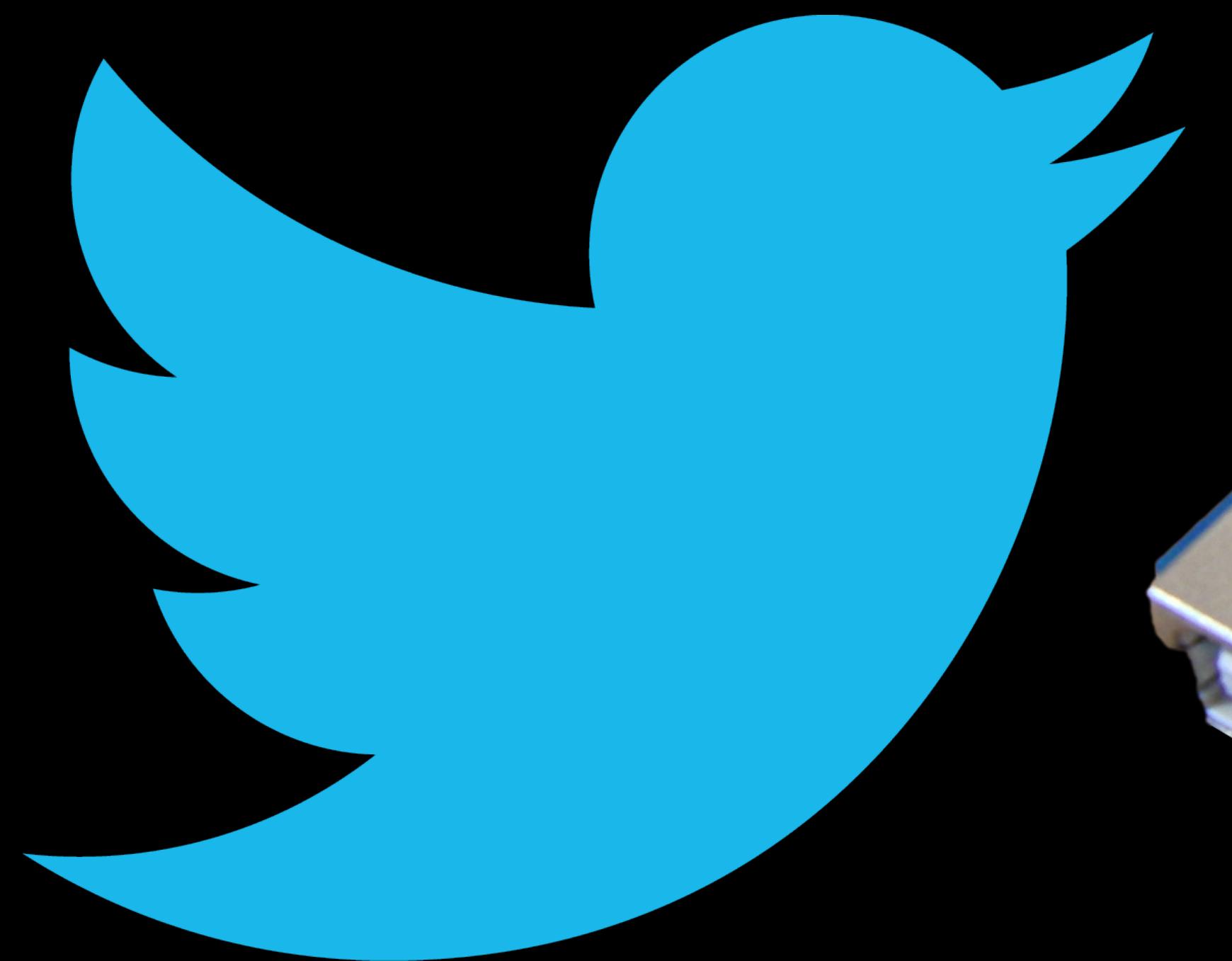
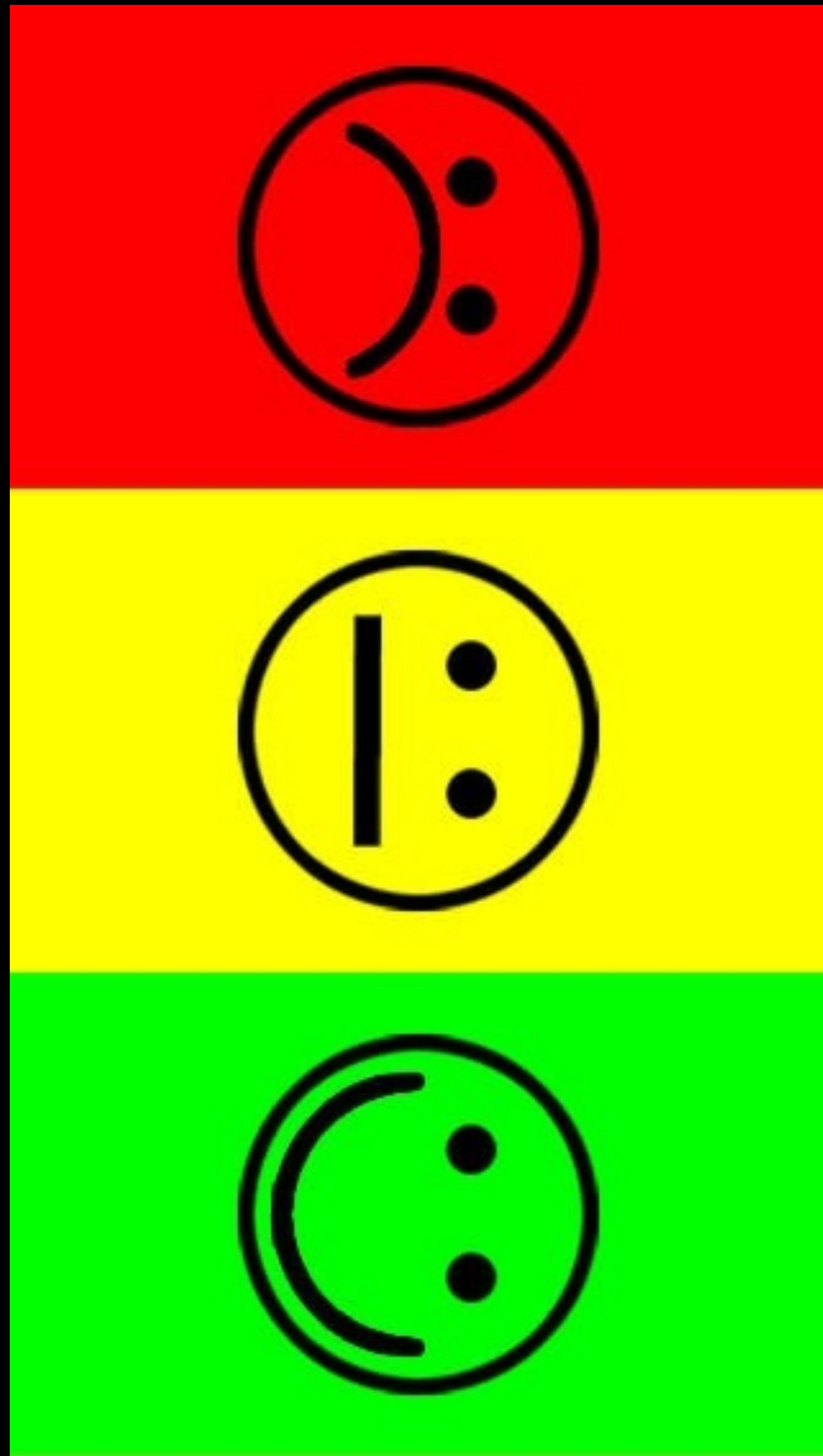
```
/*
Blink
Turns on an LED on for one second, then off for one second, repe

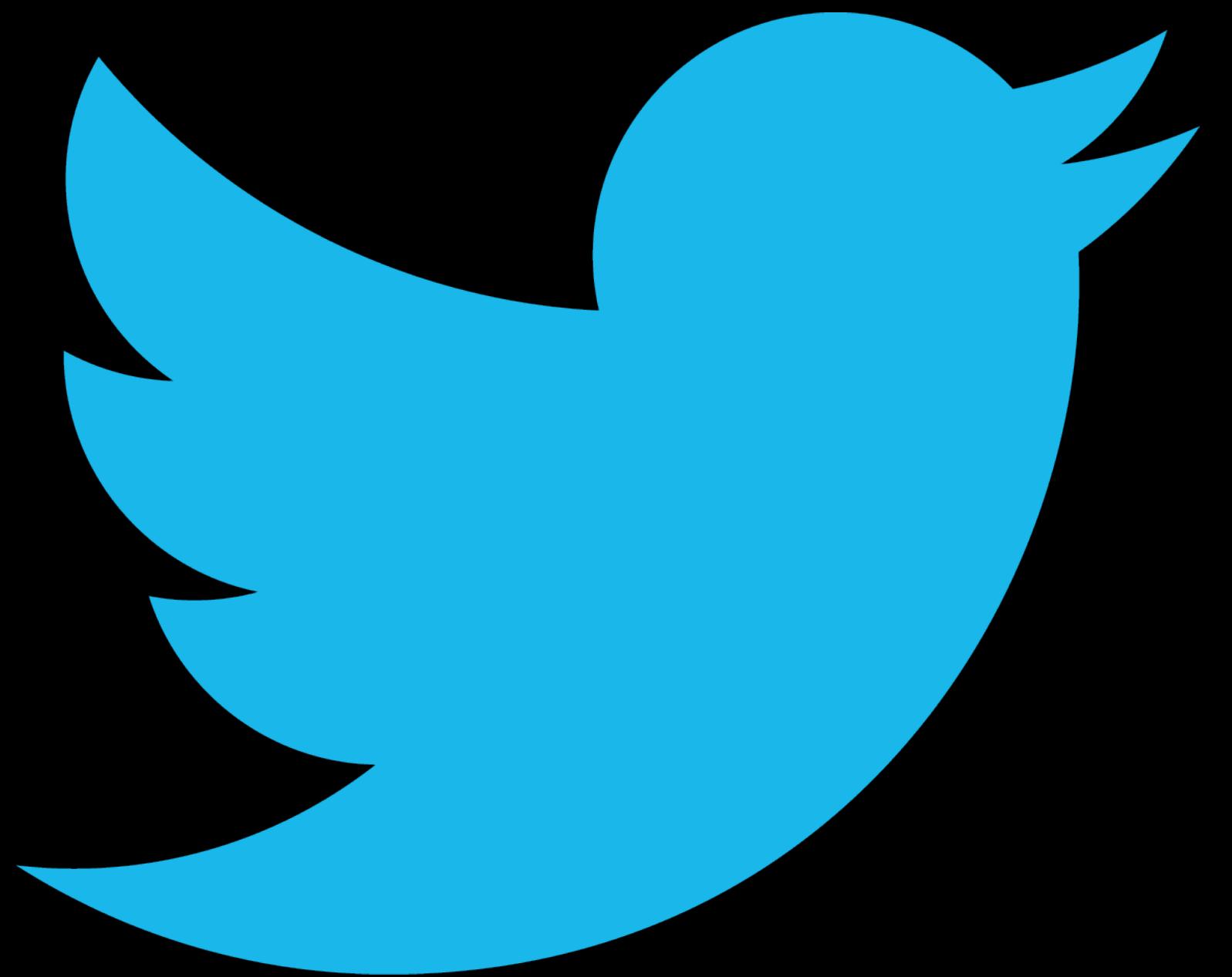
This example code is in the public domain.
*/
void setup() {
  // initialize the digital pin as an output.
  // Pin 13 has an LED connected on most Arduino boards:
  pinMode(13, OUTPUT);
}

void loop() {
  digitalWrite(13, HIGH);      // set the LED on
  delay(1000);                // wait for a second
  digitalWrite(13, LOW);       // set the LED off
  delay(1000);                // wait for a second
}
```

1 Arduino Uno on /dev/ttyACM1







#forumbr

:) #verde

:| #amarelo

:(| #vermelho

baixa o código!

github.com/luisleao/votabrasil



OBRIGADO!