



ARDUINO DAY 2019



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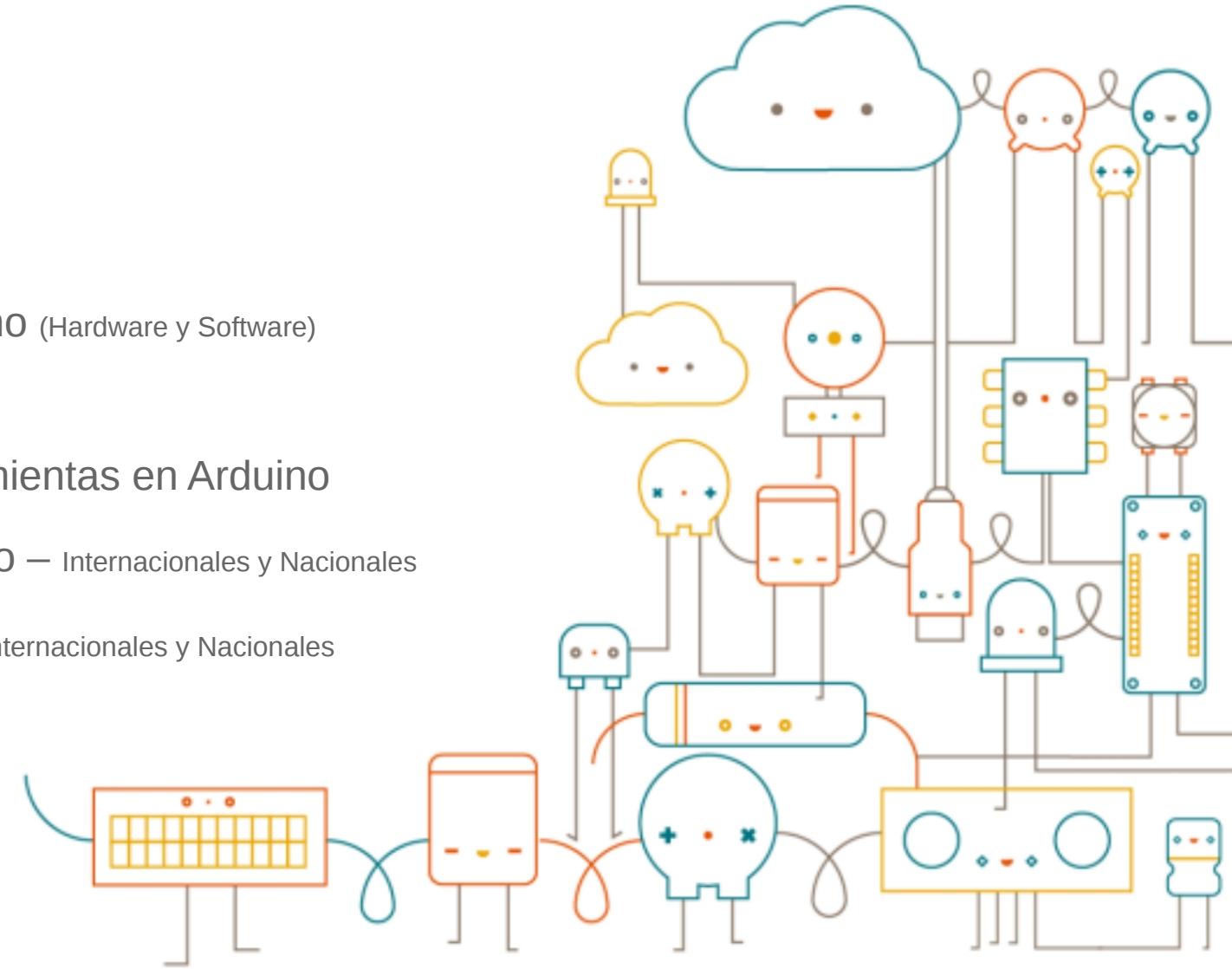


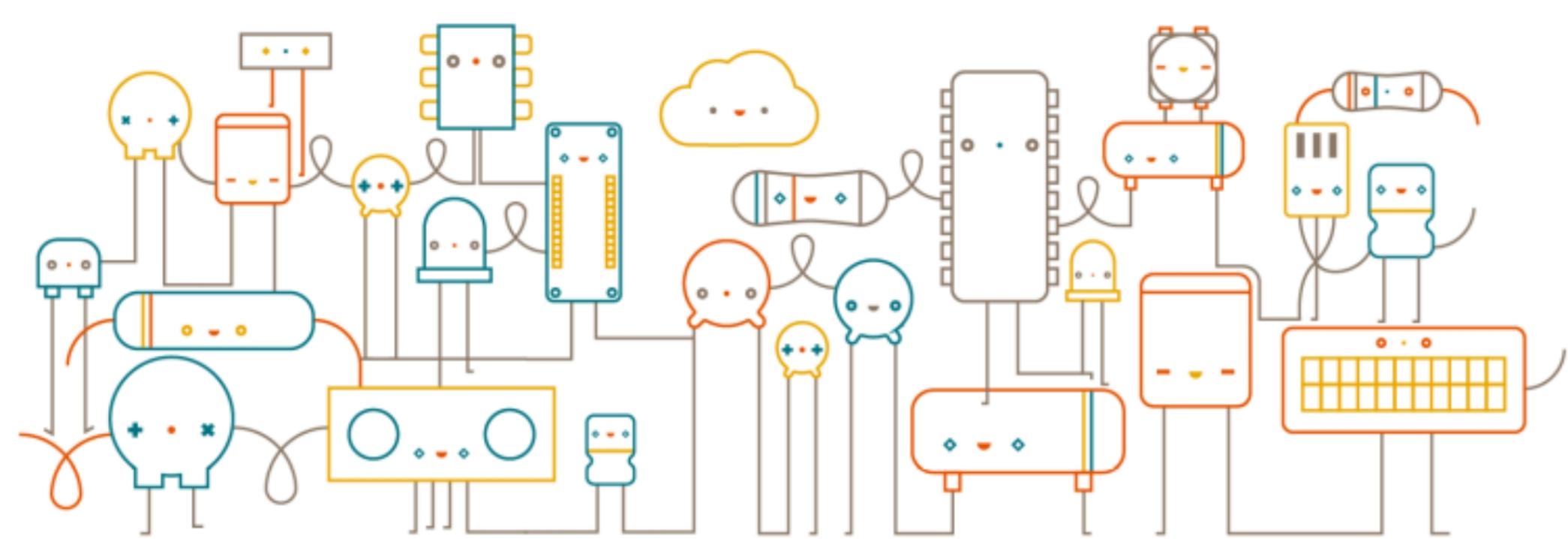
- más que solo una placa electrónica -

AGENDA

- ◆ ¿Qué es Arduino?
- ◆ Licenciamiento de Arduino (Hardware y Software)
- ◆ Editor Web de Arduino
- ◆ Otros proyectos y herramientas en Arduino
- ◆ Obtener producto Arduino – Internacionales y Nacionales
- ◆ Iniciativas educativas – Internacionales y Nacionales
- ◆

#ArduinoD19





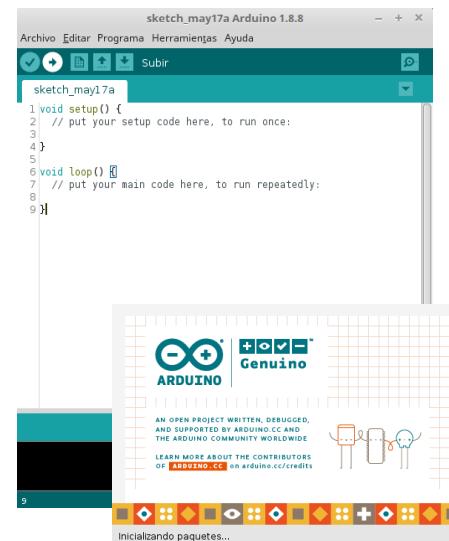
¿QUÉ ES ARDUINO?

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¿Qué es Arduino?



Hardware



Software

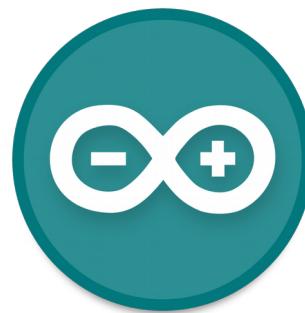


Comunidad

¿Qué es Arduino?



Hardware



Software



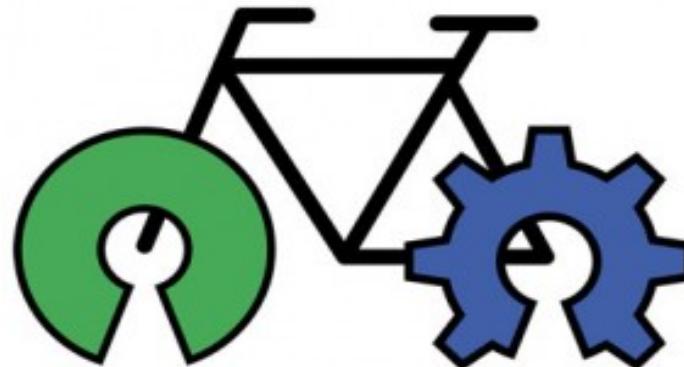
Comunidad



open source



open hardware



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LEDBlink | W

Auto Format ⌘T

Archive Sketch

Fix Encoding & Reload

Serial Monitor ⌘M

LEDBlink

```
/*
 * Blink an LED
 * by BARRAGAN http://barraq.net
 *
 * turns on and off an LED connected
 * intervals of 1 second (1000 milliseconds)
 * Note in the circuit the LED it has a positive (long leg) and a
 * (short leg), if the LED doesn't turn ON, it might be it is inverted
 */

int ledPin = 8; // LED connected to digital pin 8

void setup()
{
  pinMode(ledPin, OUTPUT); // set ledPin pin as output
}

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

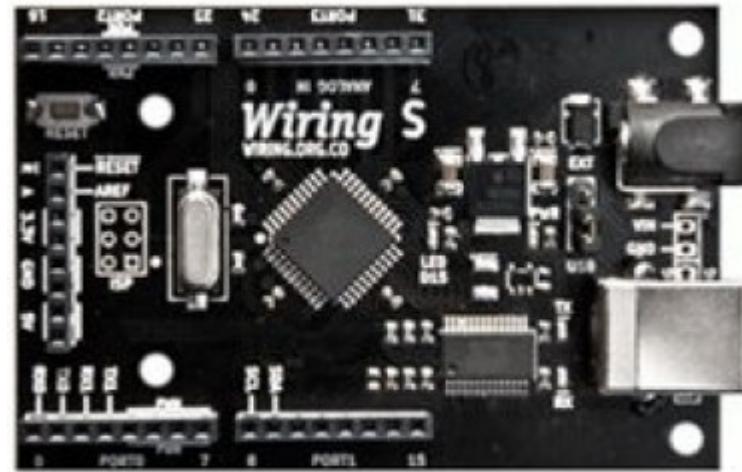
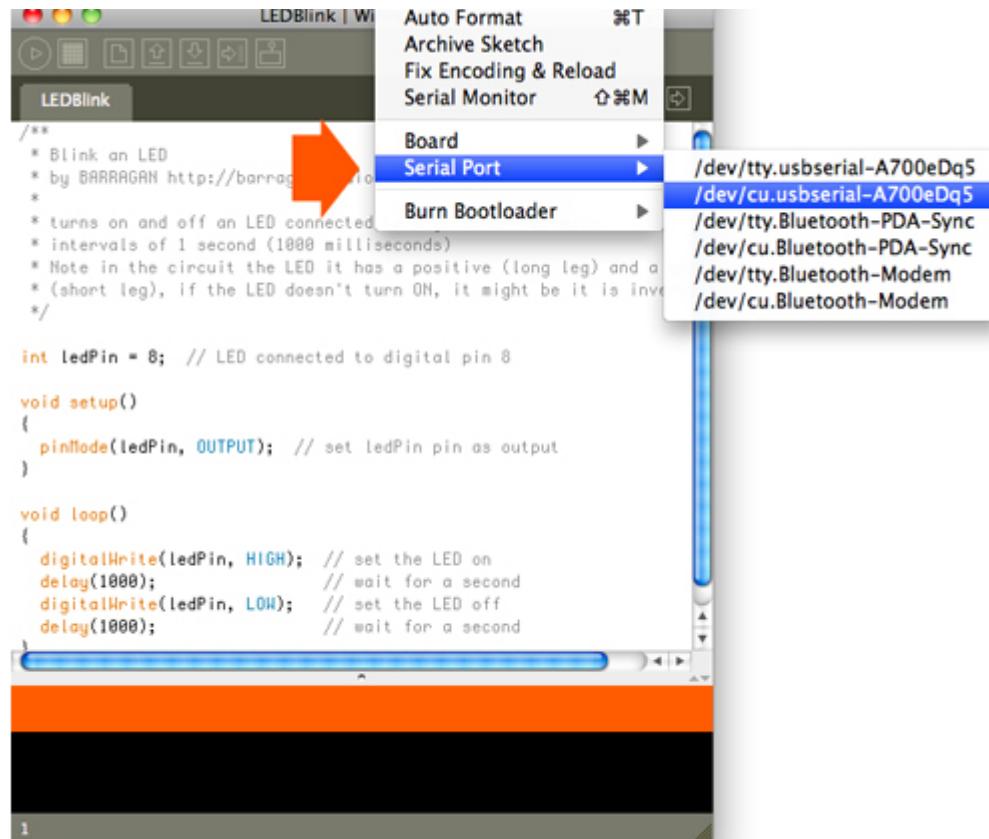
Board

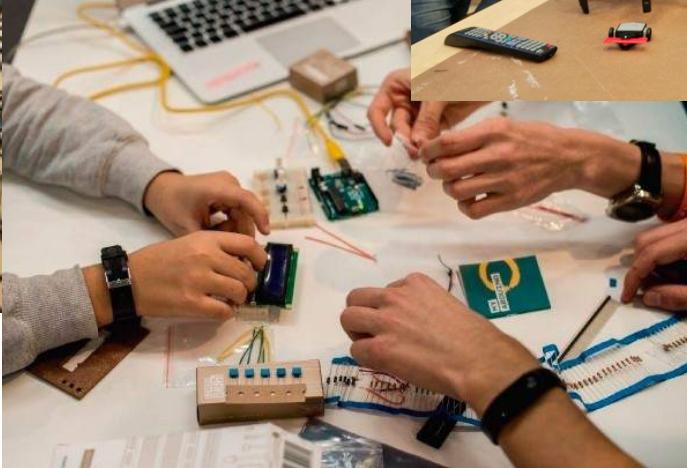
Serial Port

/dev/tty.usbserial-A700eDq5
/dev/cu.usbserial-A700eDq5

Burn Bootloader

/dev/tty.Bluetooth-PDA-Sync
/dev/cu.Bluetooth-PDA-Sync
/dev/tty.Bluetooth-Modem
/dev/cu.Bluetooth-Modem







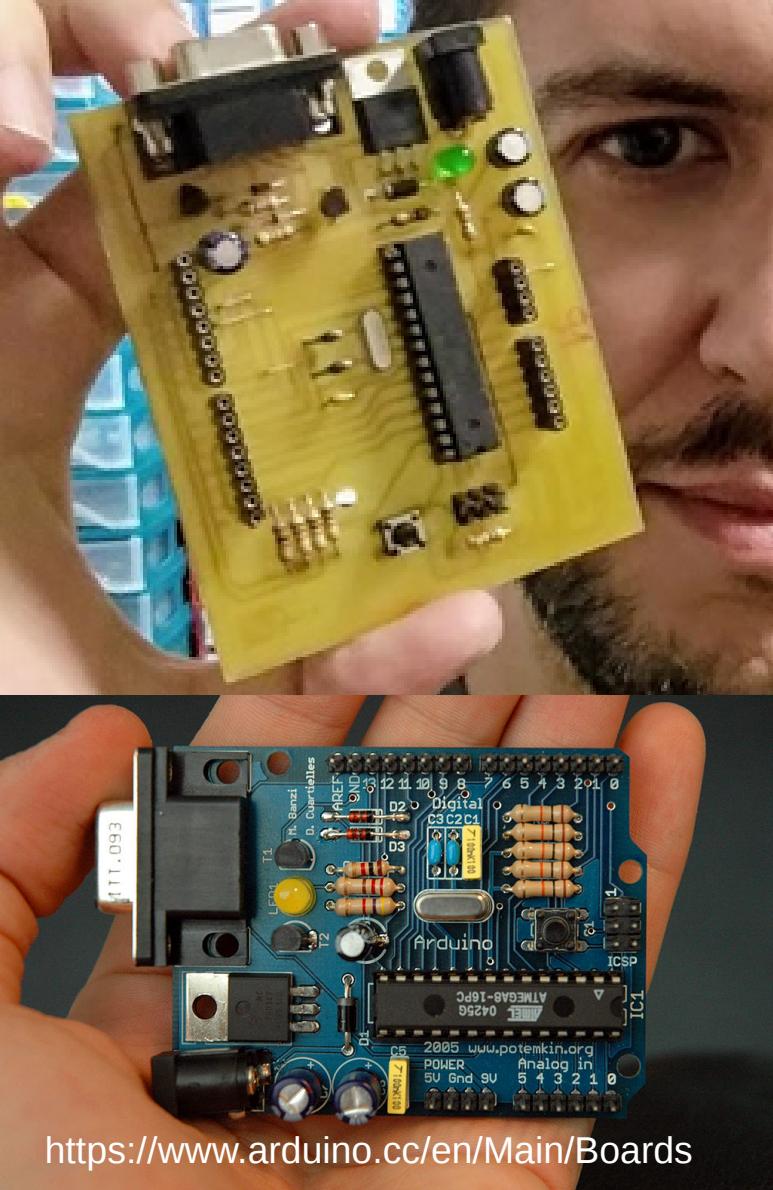
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Licenciamiento de Arduino



Arduino es un hardware libre.

Los diseños de referencia de hardware se distribuyen bajo licencia Creative Commons Attribution Share-Alike 2.5 y están disponibles en el sitio web de Arduino.

arduino.cc



Reconocimiento-CompartirIgual 2.5 España (CC BY-SA 2.5 ES)

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Licenciamiento de Arduino



Free as in Freedom



Free as in Freedom

Arduino es un código abierto.

bajo la Licencia Pública General Reducida de GNU (LGPL) o la Licencia Pública General de GNU (GPL), permitiendo la distribución del software por cualquier individuo y están disponibles en el sitio web de Arduino.

arduino.cc

A screenshot of the Arduino IDE interface. At the top, there's a menu bar with "Archivo", "Editar", "Programa", "Herramientas", and "Ayuda". Below the menu is a toolbar with icons for file operations like "Subir" (Upload). The main area shows a code editor with a sketch titled "sketch_may17a". The code is as follows:

```
1 void setup() {  
2   // put your setup code here, to run once:  
3  
4 }  
5  
6 void loop() {  
7   // put your main code here, to run repeatedly:  
8 }  
9
```

At the bottom of the screen, there's a footer with the Arduino/Genuino Uno logo and some text about the project being an open project supported by Arduino.cc and the community.

Licenciamiento de Arduino

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- The GNU LGPL in other formats: [plain text](#), [Docbook](#), [standalone HTML](#), [LaTeX](#), [Texinfo](#), [Markdown](#), [ODF](#), [RTF](#)
- [LGPLv3 logos](#) to use with your project



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Licenciamiento de Arduino

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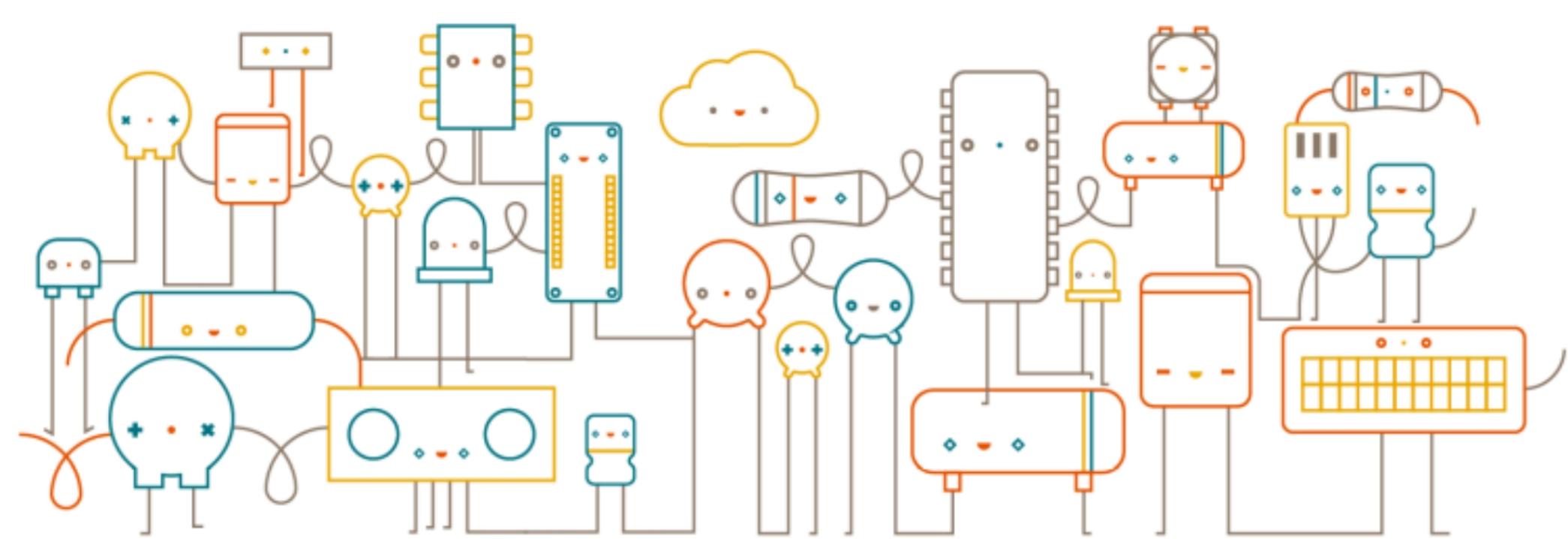


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EDITOR WEB DE ARDUINO

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> ARDUINO
> WEB EDITOR
> CODE ONLINE!



Free as in Freedom



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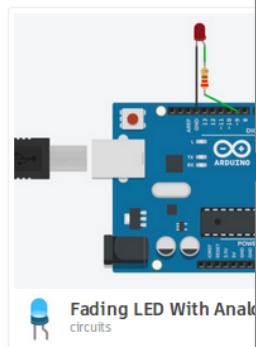
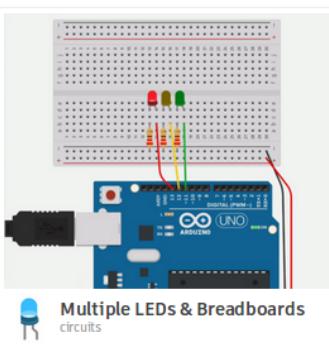
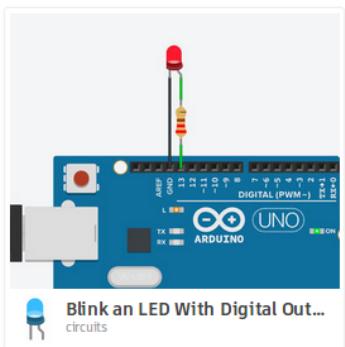
Editor Web en Arduino

The screenshot shows the Arduino Web Editor's user interface. On the left is a sidebar with a teal header and a 'CREATE' button at the bottom. The main area has a teal header with 'NEW SKETCH' and a search bar labeled 'SEARCH SKETCHBOOK'. Below that is a list of sketches, with 'sketch_may17a' selected. A large central area features a large upward-pointing arrow icon with the text 'Import your sketches to your online Sketchbook and access them from any device!'. To the right is a code editor window titled 'sketch_may17a' showing the following code:

```
/*
 */
void setup() {
}
void loop() {
}
```

<https://www.arduino.cc/en/Main/TermsOfService>

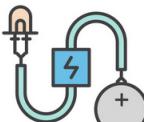
Descubre Arduino



Mostrar todos los Arduino

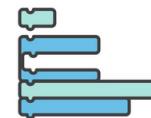
Es tan fácil como...

Diseño



Coloca y conecta los componentes para crear un circuito virtual o comienza con un Starter.

Programar



Programa usando Bloques de código o C++.

Simular



Comprueba cómo responderán los componentes en la vida real.

Pasos siguientes:

Crear



Convierte tu circuito virtual en realidad.

Programar

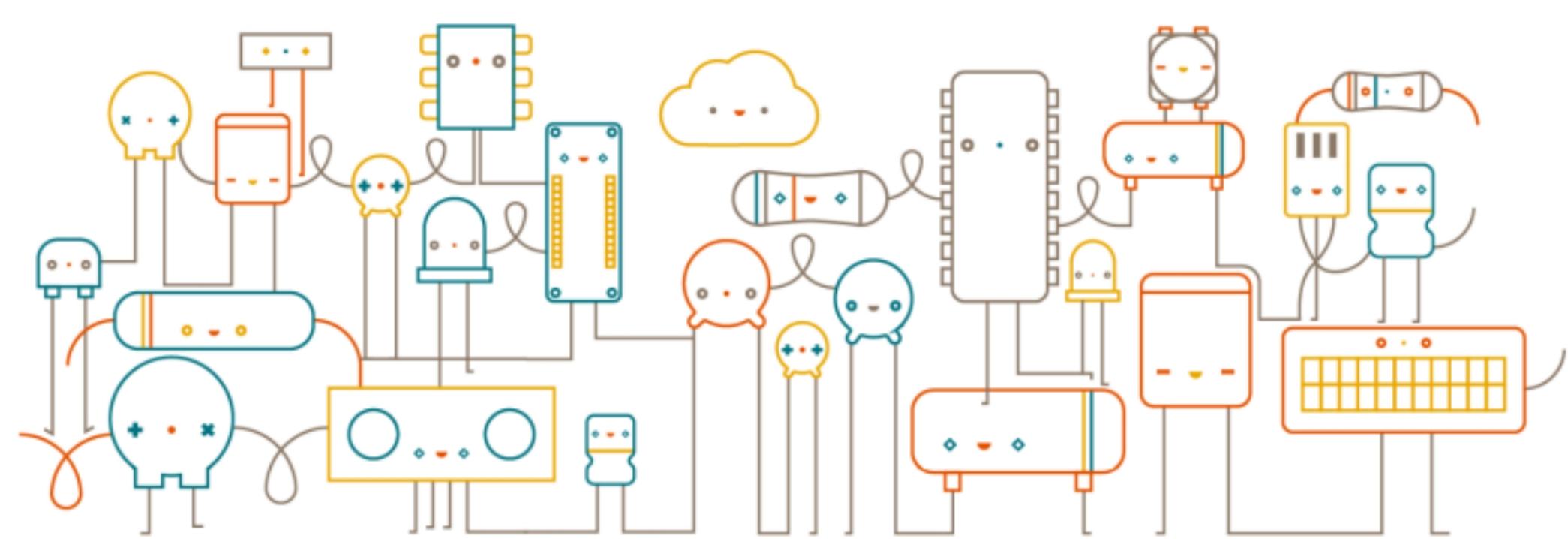


Exporta el código fuente desde Tinkercad para programar tu circuito.

Mejorar



Combina diseño e impresión 3D con Ensamblajes de circuito.



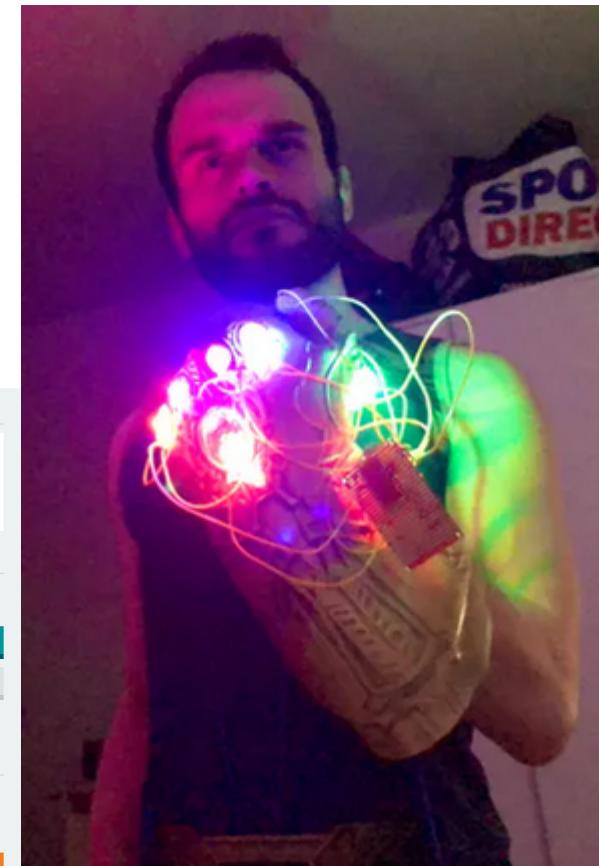
OTROS PROYECTOS Y HERRAMIENTAS DE ARDUINO
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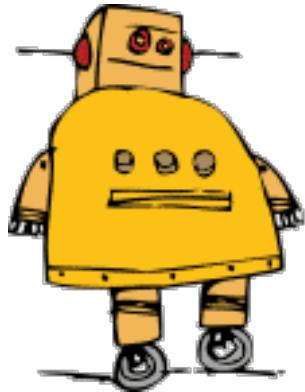
Project HUB en Arduino

The screenshot shows the Arduino Project Hub interface. At the top, there's a navigation bar with 'MY DASHBOARD', 'NEW PROJECT', and a search bar. Below the header, there are filters for 'All products', 'All categories', 'Trending', 'Any difficulty', and 'Any type'. A 'Welcome back!' message is visible. The main content area displays several project cards:

- DrumCube, an Arduino Robot Drummer** by FrancoMolina: A 3D-printed robot arm with a drum set. It has 2,438 views, 6 comments, and 24 respects.
- 1. Using int 3 different ways of** by Najib: An Arduino Uno board with various components and jumper wires. It has 1,686 views.
- 3 Dif a Pu** by Najib: A close-up of a breadboard with many wires and components. It has 1,686 views.
- Michael Darby - 314Reactor**: Author profile for Michael Darby, who has 11 projects and 58 followers. He published the project on May 6, 2019. There are buttons for 'RESPECT PROJECT', 'WRITE A COMMENT', 'Bookmark', and 'Share'.
- MEMBERS WHO RESPECT THIS PROJECT**: A list of 35 users who have respected the project, each represented by a small profile icon.

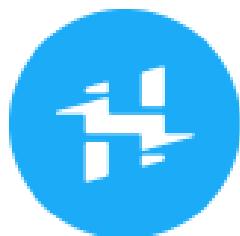


Otros proyectos de redes de Makers



instructables

<http://instructables.com/>



hackster.io



HACKADAY

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The screenshot shows the Arduino IoT Cloud interface. At the top, there's a navigation bar with icons for home, things, properties, and widgets, followed by the "IOT CLOUD BETA" logo and a user profile icon.

The main area is titled "YOUR THINGS". It contains a brief introduction: "Arduino IoT Cloud allows you to connect devices to the internet and to other devices. This tool makes the creation of connected objects quick, simple and secure." Below this are links to "Read more" and "step-by-step tutorial", and a "FAQ".

A prominent "NEW THING" button is located in the upper right corner of the main content area.

The central part of the interface shows a "Thing" setup. It features three tabs: "Thing", "Properties", and "Widgets".

- Thing:** Shows a representation of a physical device with two sensors. One sensor is connected to a "temperature" property, which is labeled as "read only" and has a value of "26.15".
- Properties:** Shows a "state" property with a "read & write" arrow. A yellow switch icon is connected to this property, and its current state is "ON".
- Widgets:** This tab is currently empty.

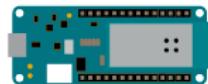
<https://create.arduino.cc/iot/>



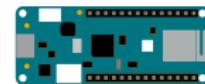
CREATE NEW THING

Things are the logical representation of a connected object;
they represent the inherent properties of the object, with as little reference to the actual hardware used to implement them.
Each thing is represented by a collection of properties (e.g. temperature, light).

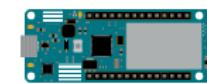
Select a board to configure for Create IoT Cloud:



Set up a MKR1000



Set up a MKR WiFi 1010



Set up a MKR G

Found a bug? Report it on the [Forum](#)

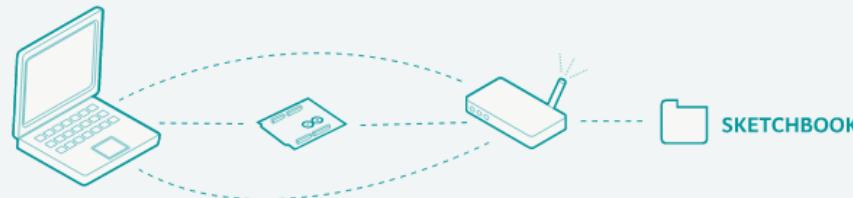




DOWNLOAD THE ARDUINO PLUGIN FOR LINUX

SETUP STEPS

1. DOWNLOAD PLUGIN
2. INSTALL PLUGIN
3. CONNECT VIA USB
4. NAME BOARD
5. CONFIGURE BOARD
6. CONGRATULATIONS!



You need to download and install the Arduino Plugin to be able to upload sketches from Arduino Create to your board. Please note that you have to be Administrator of your system to install the Plugin. Administrative privileges aren't required for MacOS El Capitan or an earlier version.

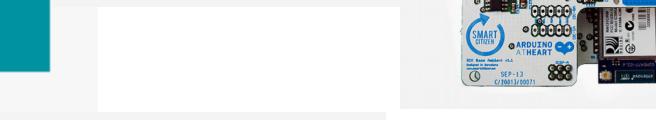
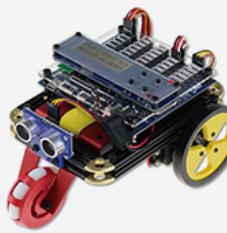
Source code for the Arduino plugin is available on [GitHub](#).

Skip

Download



Proyectos con un corazón Arduino





The image shows the top navigation bar of the Arduino website. It features the Arduino logo (infinity symbol with minus and plus signs) on the left. To the right are links for HOME, STORE, SOFTWARE (which is highlighted in blue), EDUCATION, RESOURCES, COMMUNITY, and HELP. On the far right are icons for search, shopping cart, and sign in.

Arduino Playground is read-only starting December 31st, 2018. For more info please look at this [Forum Post](#)

[Manuals and Curriculum](#)

[Arduino StackExchange](#)

[Board Setup and Configuration](#)

[Development Tools](#)

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[Interfacing With Hardware](#)

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Fotografía de alta resolución de una placa arduino  (Retoque de la fotografía de Nicholas Zambetti)

Arduino en Español - Wiki Comunitaria

Esta es la Wiki comunitaria de Arduino en Español. Si estas trabajando con cualquier proyecto en Español y quieres documentar tu trabajo, si estás creando un grupo de acción

1

<https://playground.arduino.cc/>

Blog y foro oficiales



CATEGORIES



WHAT'S NEW AT MAKER FAIRE BAY AREA 2019

It wouldn't be a Maker Faire Bay Area without some exciting announcements! A New Nano Family Designed with makers in mind, the new Nano represents a small, powerful and affordable solution for everyday projects. Retaining Arduino's quality and reliability, they make it easier than ever to turn your project ideas into reality. They are compatible [...]

<https://blog.arduino.cc/>



Arduino Forum

Alerts Unread Posts Updated Topics

Using Arduino

Installation & Troubleshooting

- + For problems with Arduino itself, NOT your project
Last post: Today at 01:48 am compiling program ?????? by macservice123

Introductory Tutorials

- + Tutorials for new people on the forum.
Last post: May 13, 2019, 10:01 am Fun with Arduino 30 DCC ... by RudyB

Avrdude, stk500, Bootloader issues

- + Problems related to uploading your compiled sketches
Last post: Today at 01:19 am Re: upload firmware in u... by kssoin

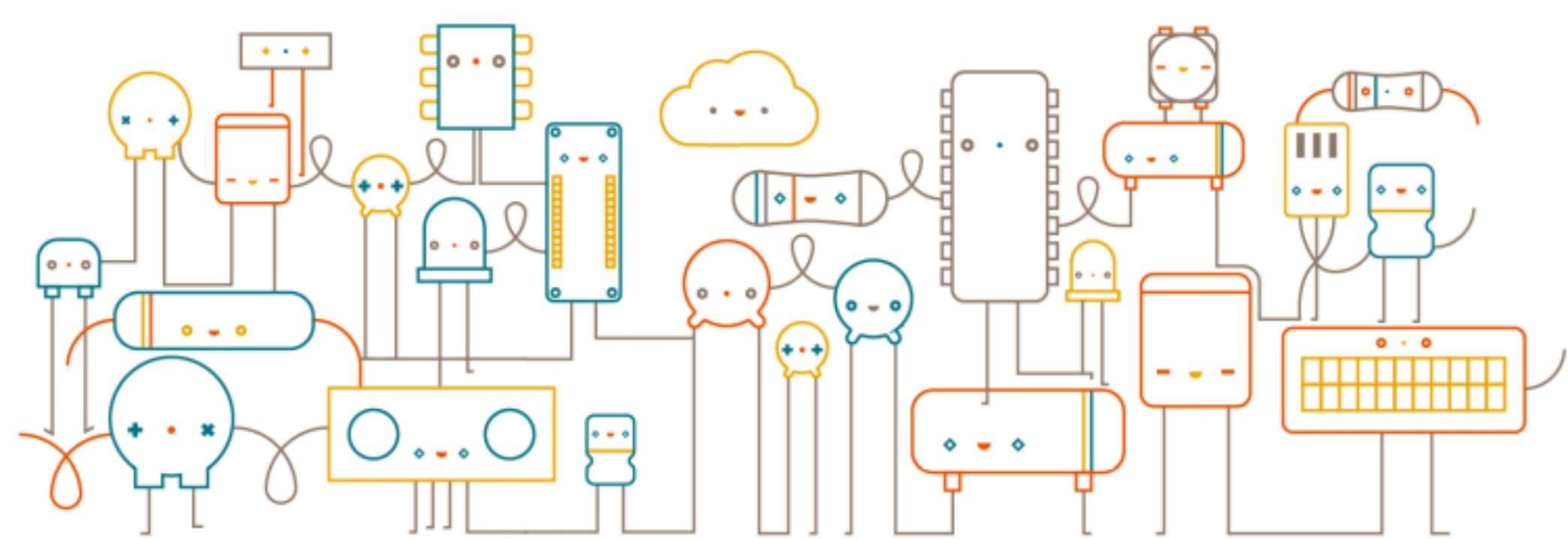
Project Guidance

- + Advice on general approaches or feasibility
Last post: Today at 01:56 am Re: coffee roaster tempe... by Justinpogge

Programming Questions

- + Understanding the language, error messages, etc.
Last post: Today at 02:03 am Re: Arduino bluetooth wi... by Nick_Pynor

<https://forum.arduino.cc/>



OBTENER PRODUCTO ARDUINO

Internacionales y Nacionales

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Tienda Arduino Oficial

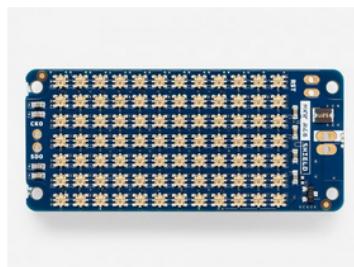
The screenshot shows the Arduino official store website. At the top left is the Arduino logo. The top navigation bar includes links for HOME, STORE (which is highlighted with a cursor), SOFTWARE, EDUCATION, RESOURCES, COMMUNITY, and HELP. To the right of the navigation are icons for search, shopping cart, location, and user profile. Below the header is a large banner featuring a white Santa figurine and two hands holding small Arduino boards. The banner has a yellow bar at the bottom with the text "PRE-ORDER NOW!" and arrows for navigation.

- ◆ NEW PRODUCTS
- ◆ MOST POPULAR
- ◆ SPECIAL OFFERS
- ◆ ARDUINO >
- ◆ ARDUINO EDUCATION
- ◆ GOODIES

<https://store.arduino.cc>



\$34.40



\$44.85



\$44.85

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Distribuidores Oficiales



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DO YOU WANT TO
BECOME AN ARDUINO
DISTRIBUTOR?

JOIN NOW!



ARDUINO AUTHORIZED DISTRIBUTORS

This is a list of our Authorized Distributors around the world, countries are listed alphabetically by region. This list is updated periodically, last update on June the 15th, 2019. For information about our product-line, see the Arduino [Products Page](#).

Do you want to buy directly from us worldwide? Visit our [Official Store](#)!

[VIEW FULL LIST](#)

<https://store.arduino.cc/usa/distributors>



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Iniciativas Comerciales



ELECTRONICA 2001

Originales

Compatibles

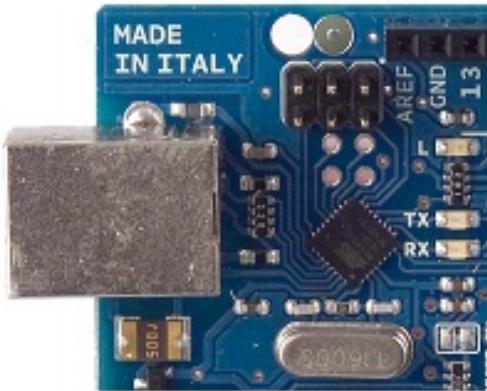
Falsificaciones



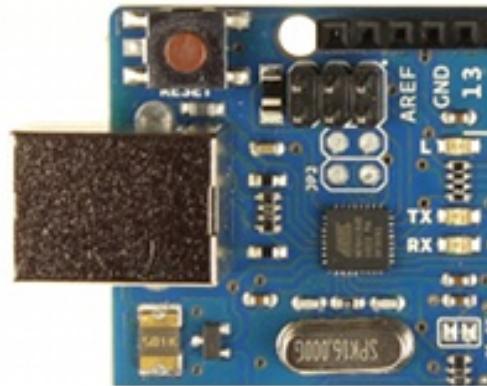
Versionado de las placas Arduino UNO



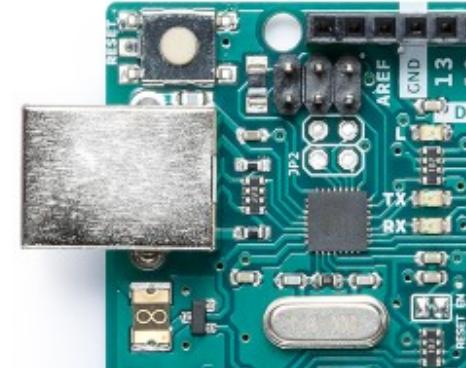
Uno



R2



R3



Placas Arduino Antiguas



The image shows the top navigation bar of the Arduino website. It features the Arduino logo (two interlocking circles with a minus sign and a plus sign) on the left. To the right of the logo are the main navigation links: HOME, STORE, SOFTWARE, EDUCATION, RESOURCES, COMMUNITY, and HELP.

ARDUINO PRODUCTS > Arduino Older Boards

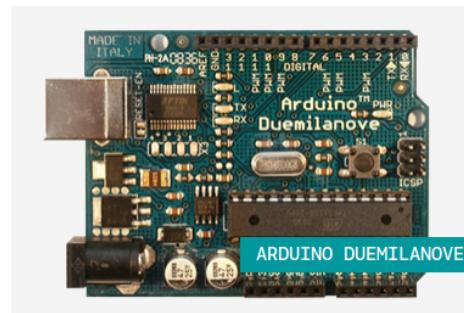
Arduino Older Boards

Arduino USB



This is the latest revision of the basic Arduino USB board. It connects to the computer with a standard USB cable and

<https://www.arduino.cc>



The Duemilanove automatically selects the appropriate power supply (USB or external power), eliminating the need for the

Empaquetado oficial



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DAY 2019

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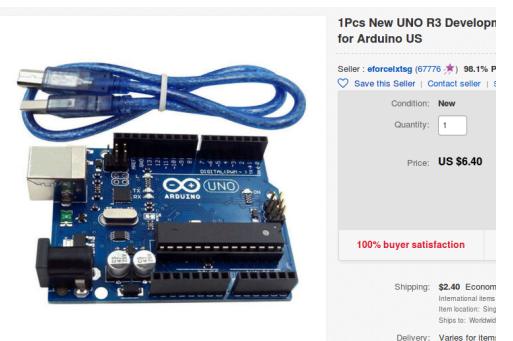


Placas Arduino Antiguas



Falsificaciones

“clones”



Original

store.arduino.cc

ARDUINO UNO REV3
Code: A000066

\$22.00
Buy 5 for \$20.90 each and **save 5%**
Buy 10 for \$20.24 each and **save 8%**
Buy 25 for \$19.80 each and **save 10%**
Buy 50 for \$19.36 each and **save 12%**
tax not included

Quantity: **ADD TO CART**

Por precio Compatibles

SparkFun RedBoard
DEV-13755
★★★★★ 42
\$19.95
Volume sales pricing
1 +
Quantity discounts available
DESCRIPTION FEATURES DOCUMENTATION
At SparkFun we use many Arduino boards. Each board is a bit different and now we have our own version that combines all the simplicity of the UNO's Optiboot bootloader with the FTDI (which we all missed after the compatibility of the latest Arduino Uno).



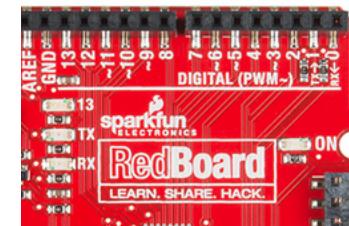
Falsificaciones “clones”



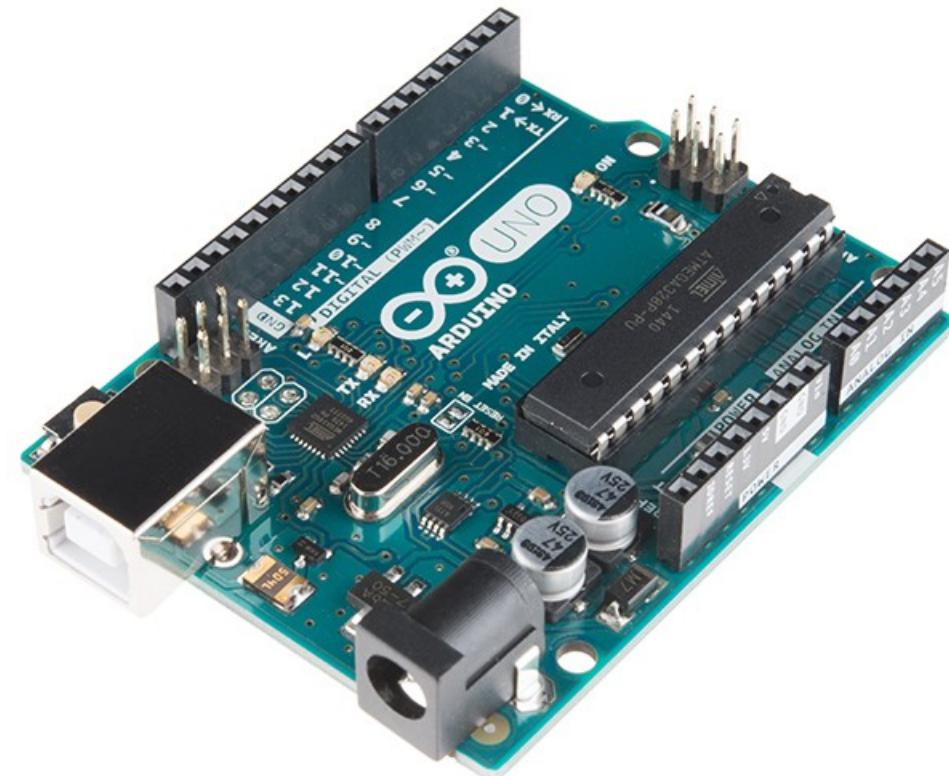
Original
store.arduino.cc



Por marca
Compatibles



1 Año de
GARANTÍA



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ARDUINO
DAY 2019

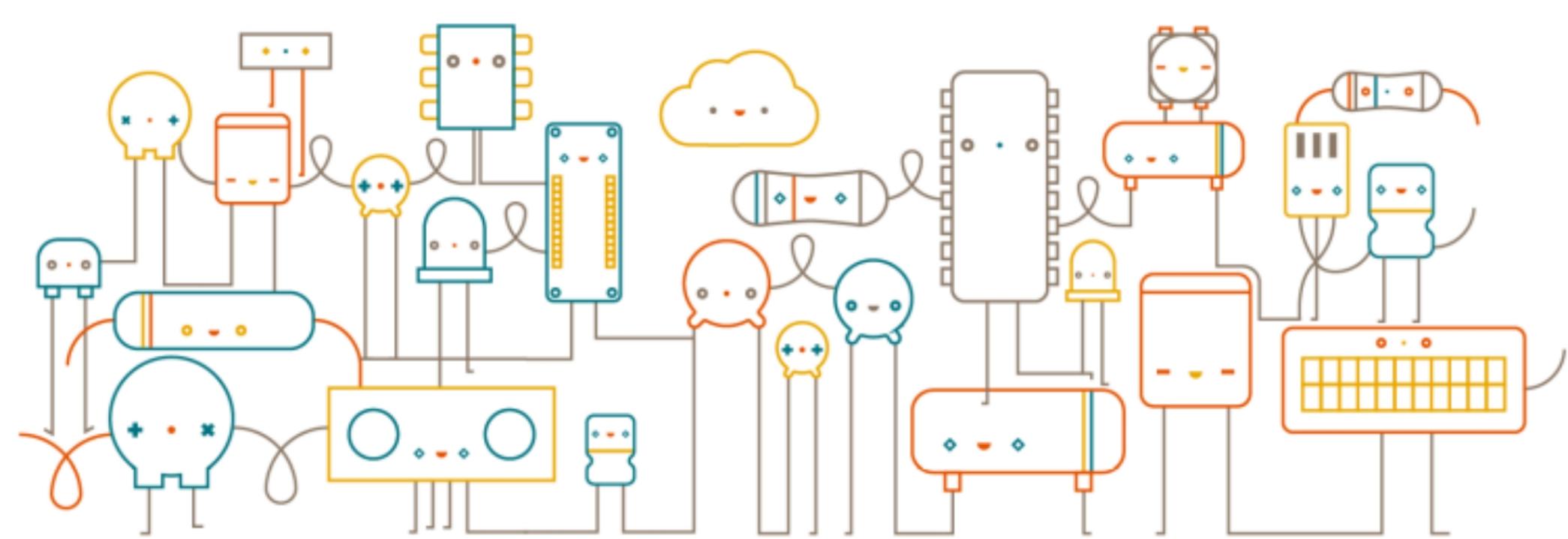
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Sensores para Arduino



Sensores compatible con Arduino



INICIATIVAS EDUCATIVAS

Internacionales y Nacionales

ARDUINO
DAY 2019

Arduino en la educación



The image shows the top navigation bar of the Arduino website. It features the Arduino logo (a stylized infinity symbol with a minus sign on the left and a plus sign on the right) and the word "ARDUINO" below it. To the right of the logo is a search icon (magnifying glass), a shopping cart icon, and a user profile icon. Below the logo is a horizontal menu with links: HOME, STORE, SOFTWARE, EDUCATION, RESOURCES, COMMUNITY, and HELP.

Teaching, Inspiring and Empowering!

Arduino Education is a dedicated team formed by education experts, content developers, engineers and interaction designers from all around the world. We are focused on developing the next generation of STEAM systems and supporting the needs of educators and students throughout the educational journey.

EDUCATION

PROGRAMS

[Starter Kit](#)

[Classroom Pack](#)

[Science Kit](#)

[Physics Lab](#)

The Education Team And Mission

Arduino is on a mission to make technology accessible to everyone, and into the hands of every student and educator. To make this possible, we have created Arduino Education: a dedicated global team formed by education experts, content developers, engineers, and interaction designers.

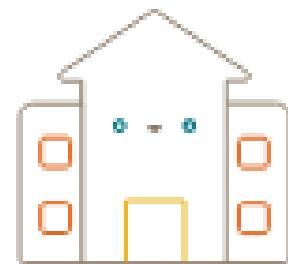
<https://www.arduino.cc/en/Main/Education>



Iniciativas Educativas Nacionales

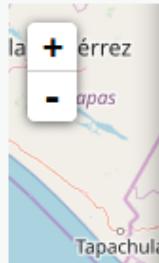


HACKERSPACE
San Salvador





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DAY 2019

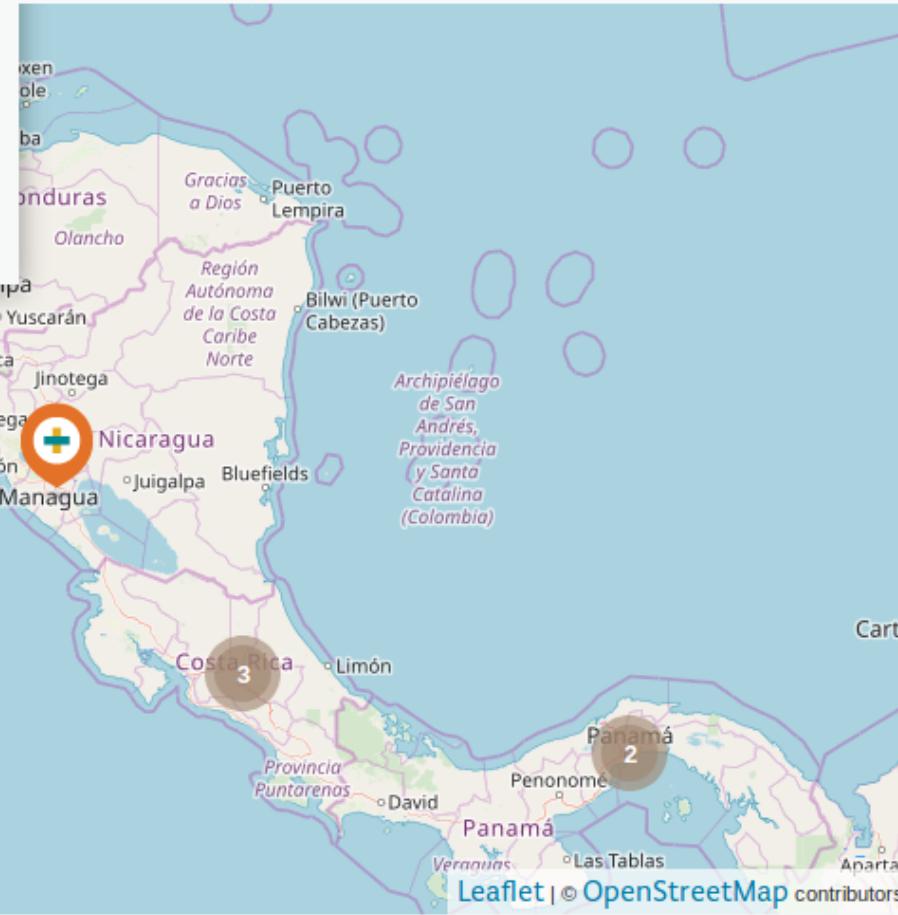


Organizer/s: [Open Hardware El Salvador](#)

Location: San Salvador, El Salvador

Activities: Open Day, Show-and-Tell, Workshop and Live Demo, Talk, Ask the Arduino Expert

[View Agenda](#)



Arduino Team Event



Community event



Community event
to be confirmed



[DAY.ARDUINO.CC](#)



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A WORLDWIDE CELEBRATION OF ARDUINO

[DOWNLOAD CERTIFICATE](#)

ARDUINO DAY EVENTS HELD ON March 16th 2019

659 EVENTS IN 106 COUNTRIES



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karla@hackerspace.sv

¡Muchas Gracias!

#ArduinoD19

