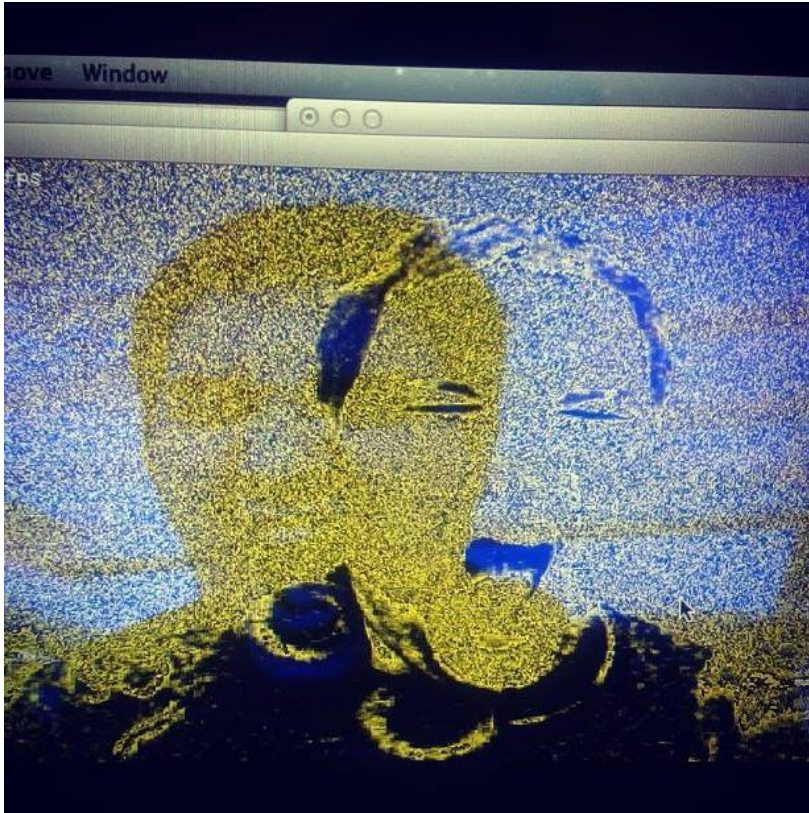
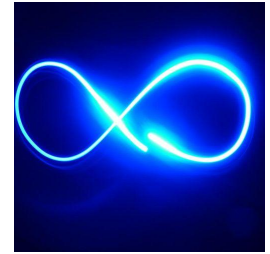
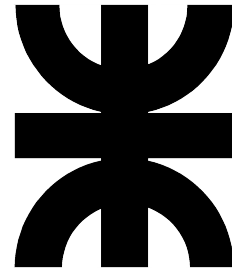
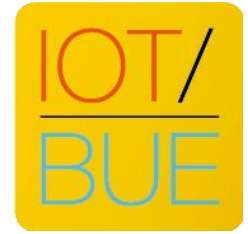


¿Como contamos historias con sensores?

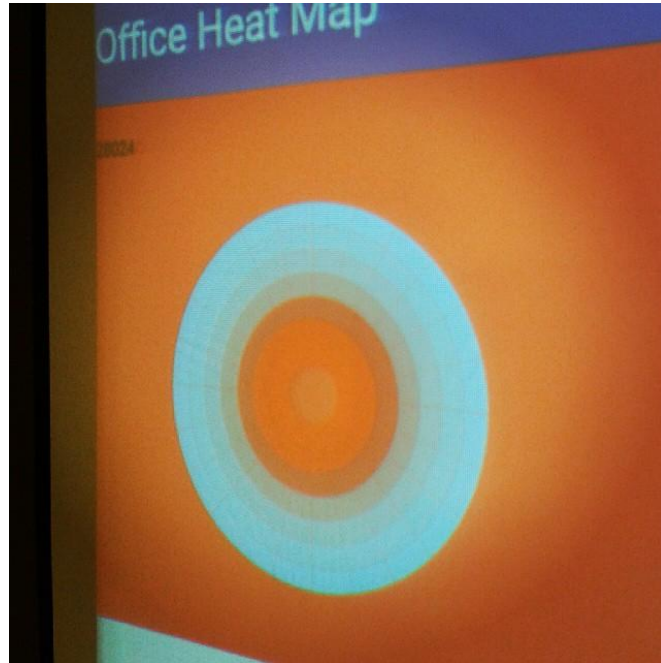
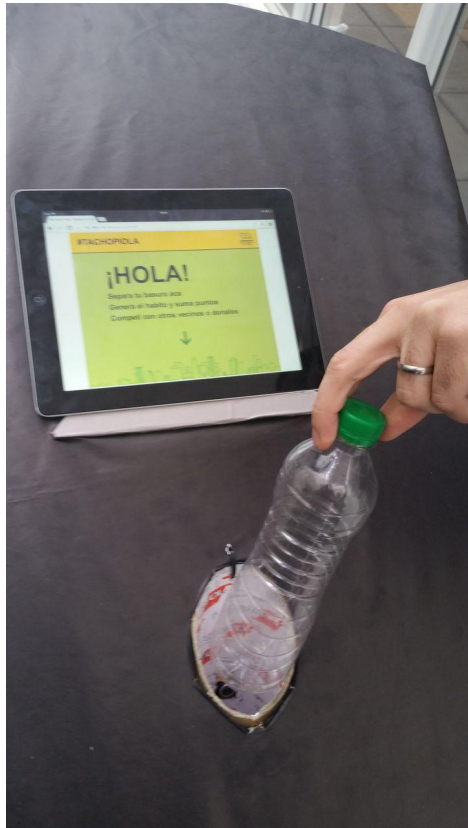
Sensor Journalism bootcamp.



@tincho_for_ever



¡HOLA!



¿Quienes estan?

¿De qué trata esto?

“**Data**, on its own, locked up or muddled with errors,
does little good.

Cleaned up, structured, analyzed and layered into
stories, data can enhance our understanding of the
most basic questions about our world, helping
journalists to explain who, what, where, how and why
changes are happening.”

Alex Howard

DATOS < HISTORIAS

Únicos.
Medidos.
Interactivos.

Sensores?

“Un **sensor** es un dispositivo capaz de detectar **magnitud físicas o químicas** y transformarlas en **variables eléctricas.**”

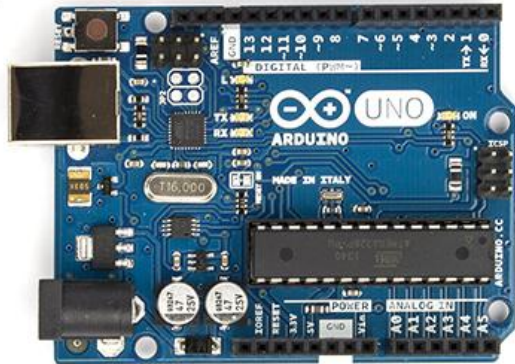
Wikipedia

Los sensores son “algo” que reaccionan de forma predecible ante un estímulo del mundo real.

Charles Barret @ Tow Center

Entrada / Salida

Data / Preguntas



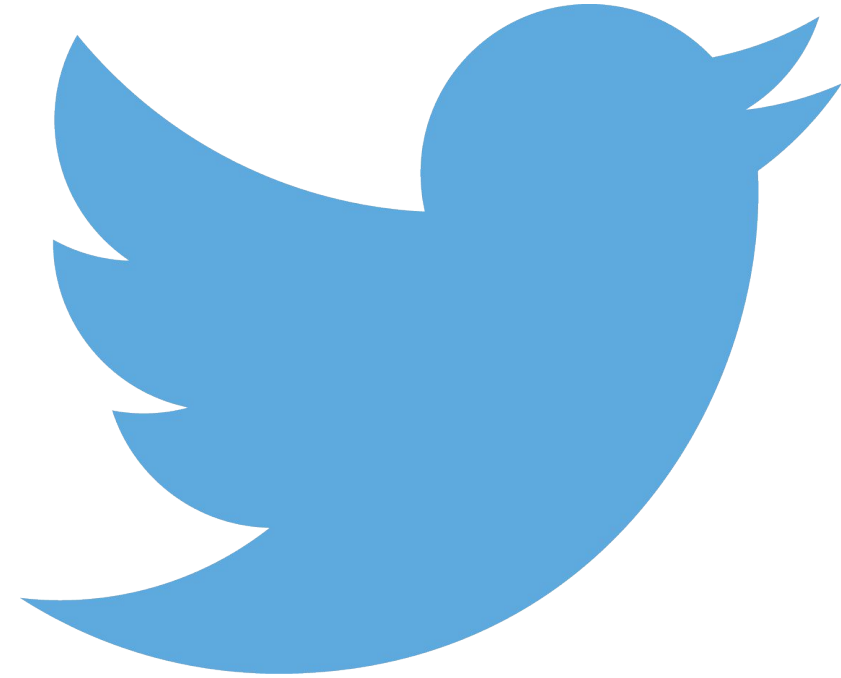
LUZ

Que tan intensa es la iluminación?



Presion atmosferica

Va a llover Pronto?



#NOTENGOLUZ

Hay Luz en BA?

3 Historias

Historia.1

SAFECAST MAP Created by Nick Dolezal,
The Safecast Map depicts over 18,000,000
radiation data points collected by the
Safecast team and is current as of May 25,
2014. Maps with more recent datasets are
currently available only via our free iOS app

<http://safecast.org/tilemap/?lat=37.4078&lon=140.268324&z=8>

SAFECAST MAP Created by Nick Dolezal,
The Safecast Map depicts over 18,000,000
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currently available only via our free iOS app

Safecast is a global project working to empower people with data, primarily by mapping **radiation levels** and building a sensor network, enabling people to both contribute and freely use the data collected. After the 3/11 earthquake and resulting nuclear situation at Fukushima Daiichi it became clear that people wanted more data than what was available. Through joint efforts with partners such as International Medcom, Keio University, The John S. and James L. Knight Foundation and GlobalGiving, Safecast has been building a radiation sensor network comprised of static and mobile sensors actively being deployed around Japan – both near the exclusion zone and elsewhere in the country.

Safecast supports the idea that more data – freely available data – is better. Our goal is not to single out any individual source of data as untrustworthy, but rather to contribute to the existing measurement data and make it more robust. Multiple sources of data are always better and more accurate when aggregated.

While Japan and radiation is the primary focus of the moment, this work has made us aware of a need for more environmental data on a global level and the longterm work that Safecast engages in will address these needs. Safecast is based in the US but is currently focused on outreach efforts in Japan. [Our team](#) includes contributors from around the world.

Historia.2



Historia.3

1 valor a medir.

¿Cuál sería?

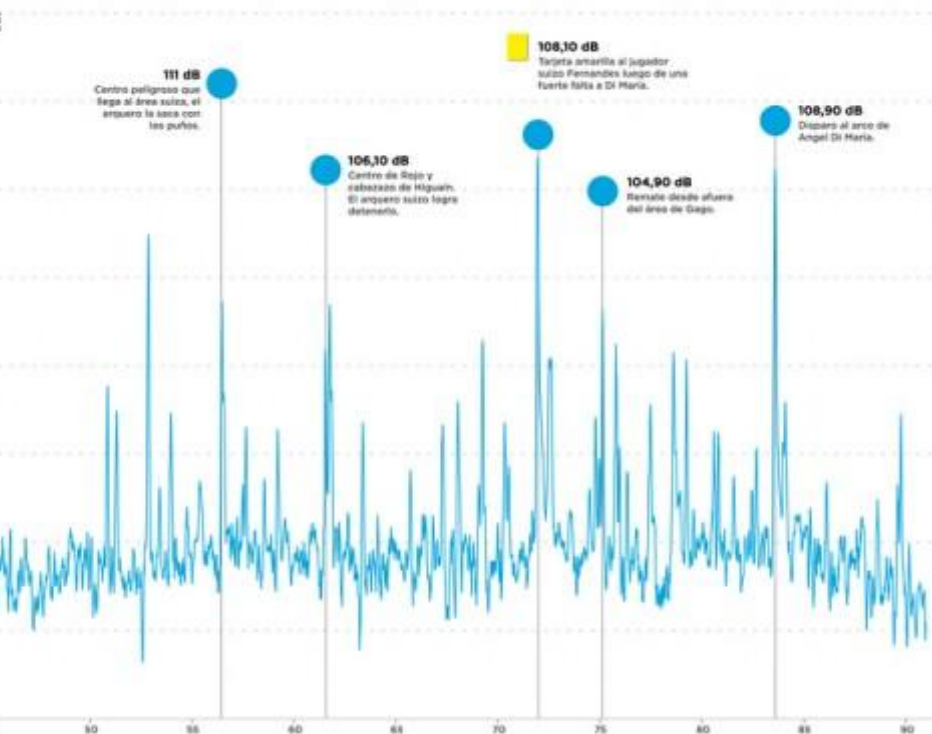
¿Por qué?



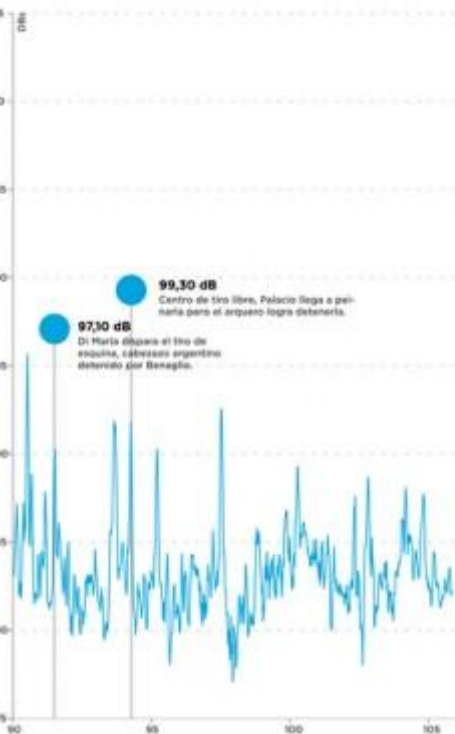


PUNTO DE MEDICIÓN

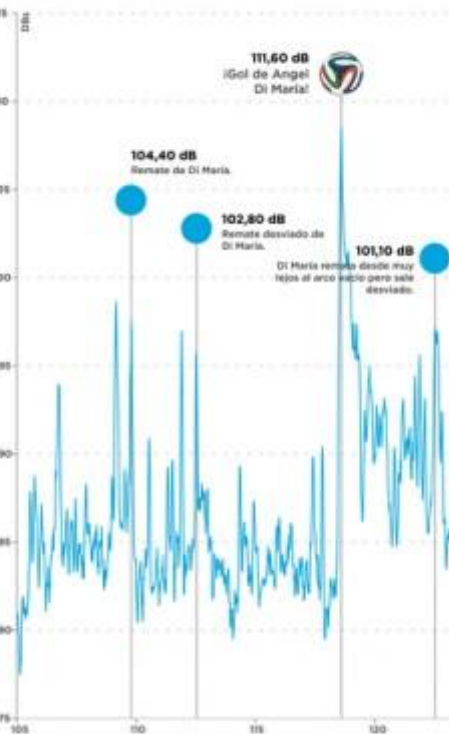
Segundo Tiempo



Primer Tiempo Suplementario



Segundo Tiempo Suplementario



¿Por qué ahora?

Facil prototipado

Costos bajos

Comunidad

Participativo

Contexto.

**No todo es importante
todo el tiempo.**

DATOS < HISTORIAS.

**Únicos.
Medidos.
Interactivos.**

DEMO.

**Que hay que hacer para
empezar?**

Medición en vivo

Procesamiento

Visualización

Arduino + Sensores

Node JS

D3

Repo!

<http://bit.ly/datafest-sensors/>

**¿Cuál es la proxima historia
que vas a contar?**

Historias

+

Sensores

=

Magia.

Referencias



<http://towcenter.org/research/sensor-journalism-at-the-tow-center/>

<http://project.wnyc.org/cicadas/>

<http://www.forbes.com/sites/eco-nomics/2013/02/20/london-to-be-an-ultra-low-emission-zone-by-2020/>

http://www.nytimes.com/interactive/2008/08/16/sports/olympics/20080816-c0-graphic.html?_r=0

<http://www2.ocregister.com/multimedia/pollution/main.swf>

<https://github.com/tinchoforever/sensor-journalism-kit-hhba>

<http://www.slideshare.net/ValentinaGrasso/ardomino-il-sensore-parlante>

<https://medium.com/@dangerbui/a-working-typology-of-sensor-journalism-projects-c0042a0410af>

Gracias! :-)

Davo Galavotti - @pixelbeat

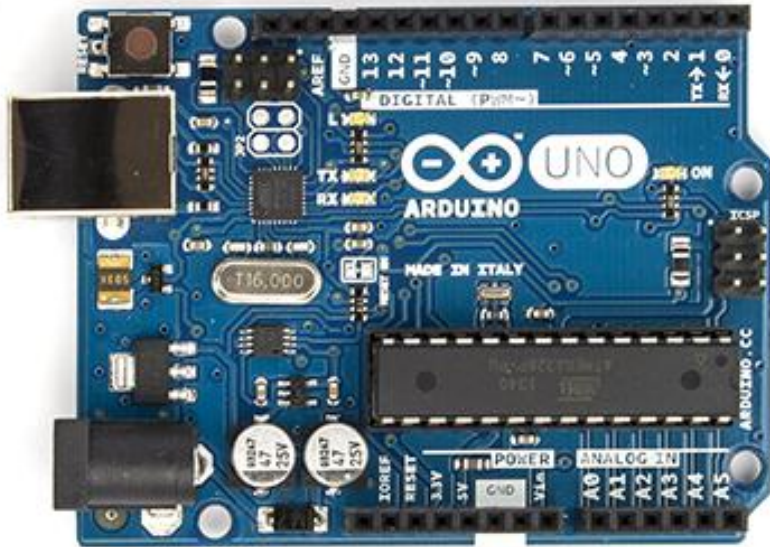
Ivan Roumec - @gr3nlion

Lucas Rudi - @thepiedrastone

Martin Rabaglia - @sr_humo

Appendix

Arduino = Hardware + Software



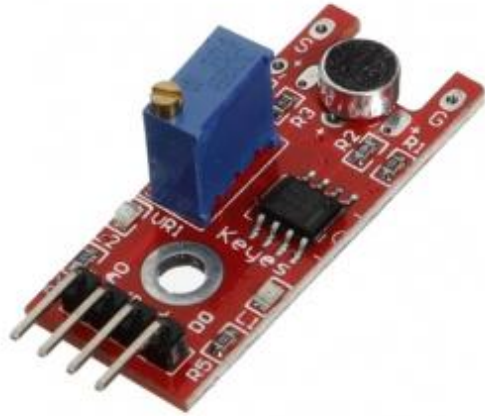
```
Blink | Arduino 1.0
Blink
/*
 * Blink
 * Turns on an LED on for one second, then off for one second, repeatedly.
 *
 * This example code is in the public domain.
 */

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/tty.usbmodemfd131
```

Input: Micrófono



Intensidad de sonido

MIN: 0

MAX: 1024