

El alto precio de lo gratuito

10 motivos para (pre)ocuparnos

de nuestra privacidad en internet



David Arroyo Guardeña



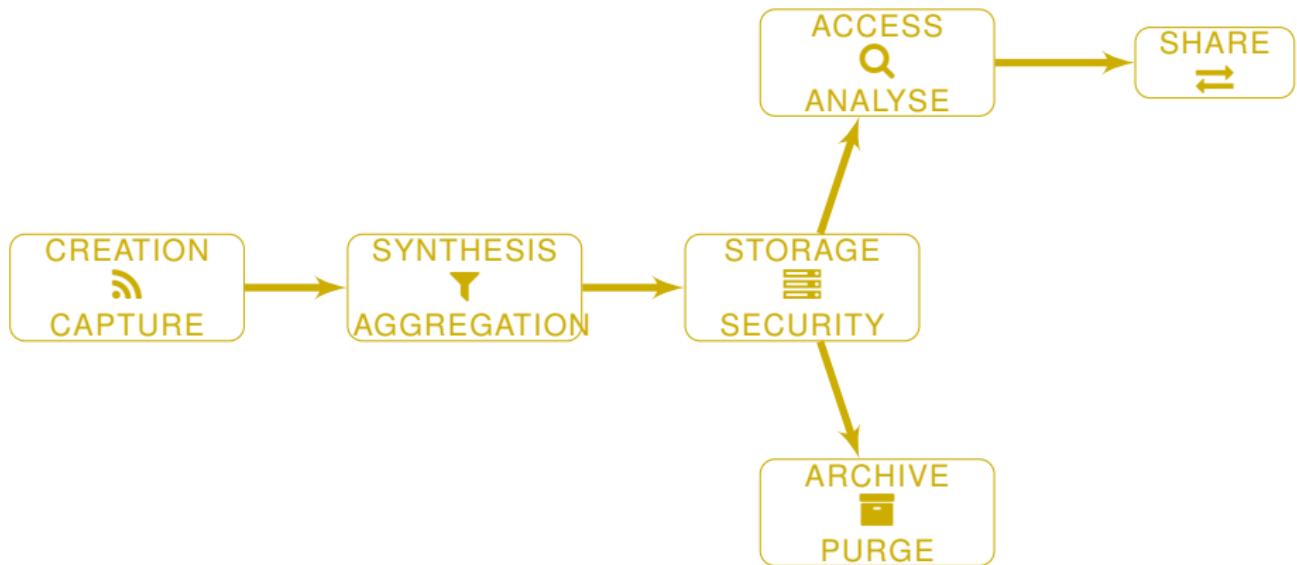
era de lo digital

era de lo digital

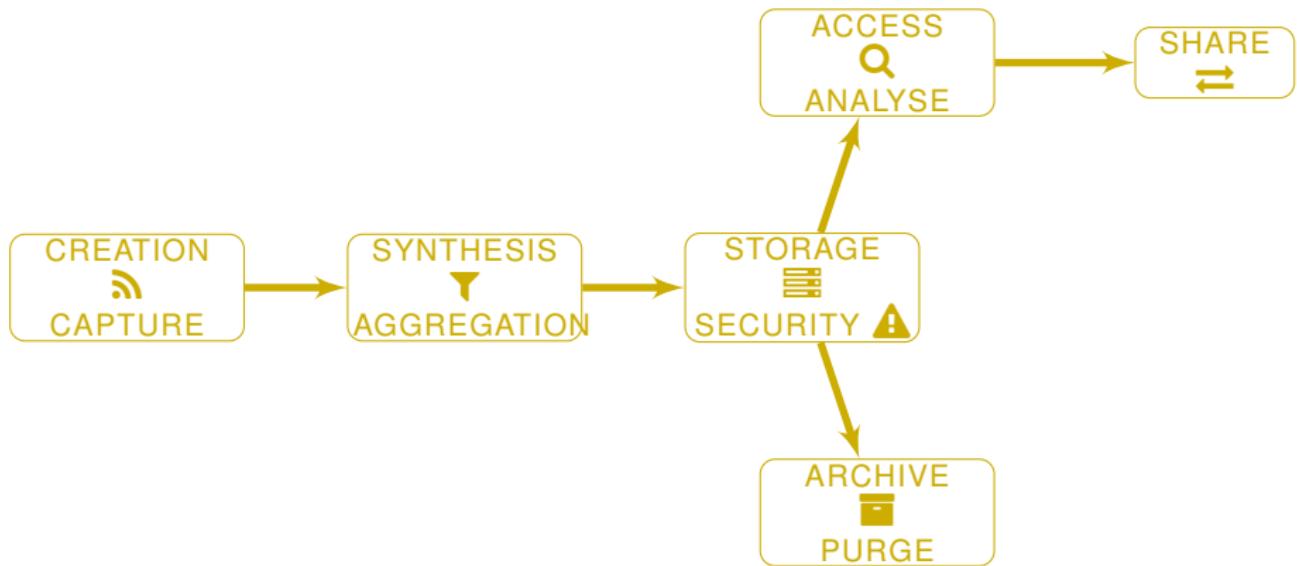


era del dato

Data lifecycle



Data lifecycle



Las TIC organizan
nuestro día a
día. . .

British Airways cancela sus vuelos por un fallo informático ante la indignación del pasaje

EFE | Londres | 27 may. 2017



MÓVILES REDES SOCIALES BANCO DE PRUEBAS RETINA MERISTATION

ATAQUE INFORMÁTICO ▾

El Gobierno confirma un ciberataque masivo a empresas españolas

El Instituto Nacional de Ciberseguridad informa de que las primeras fases del virus que ha afectado a Telefónica y otras compañías han sido mitigadas



RAMÓN MUÑOZ



Madrid - 12 MAY 2017 - 22:16 CEST

Una decena de grandes empresas españolas de servicios sufrieron este viernes un ciberataque masivo a través de un virus malicioso, de tipo *ransomware*, que bloquea los equipos y solicita un rescate para desbloquearlos. La compañía más afectada fue Telefónica, ya que varios centenares de ordenadores de su sede central del Distrito C de Madrid se vieron infectados. El Gobierno reconoció el ataque y se puso en contacto con las empresas afectadas para evaluar el impacto del mismo. Tanto



Welcome > Blog Home > IoT > Pacemaker Ecosystem Fails its Cybersecurity Checkup



PACEMAKER ECOSYSTEM FAILS ITS CYBERSECURITY CHECKUP

... debemos
cuidar las TIC

La información tiene valor por sí misma...

- ▶ ¿Quién accede a la información?

La información tiene valor por sí misma...

- ▶ ¿Quién accede a la información?
- ▶ ¿Qué puede hacer con la información?

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- ▶ ¿Por cuánto tiempo puede tener acceso a la información?

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- ▶ ¿Cómo puedo acceder a la información?

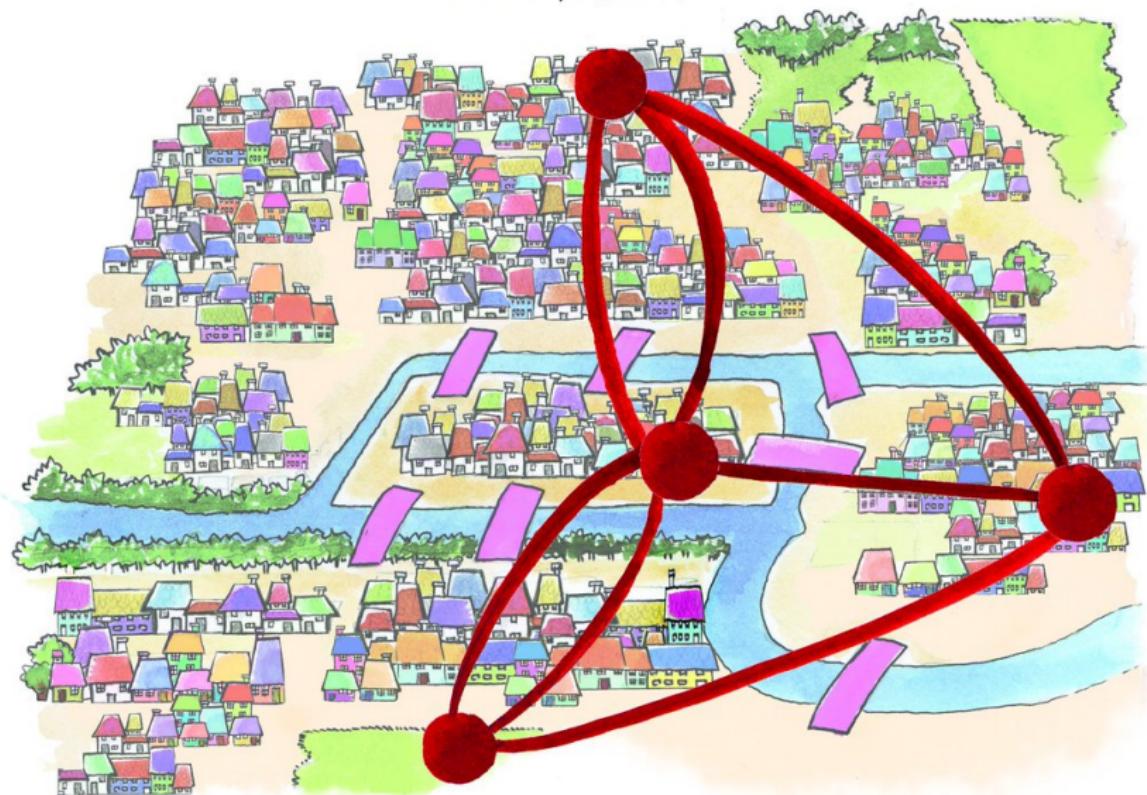
La información tiene valor por sí misma...

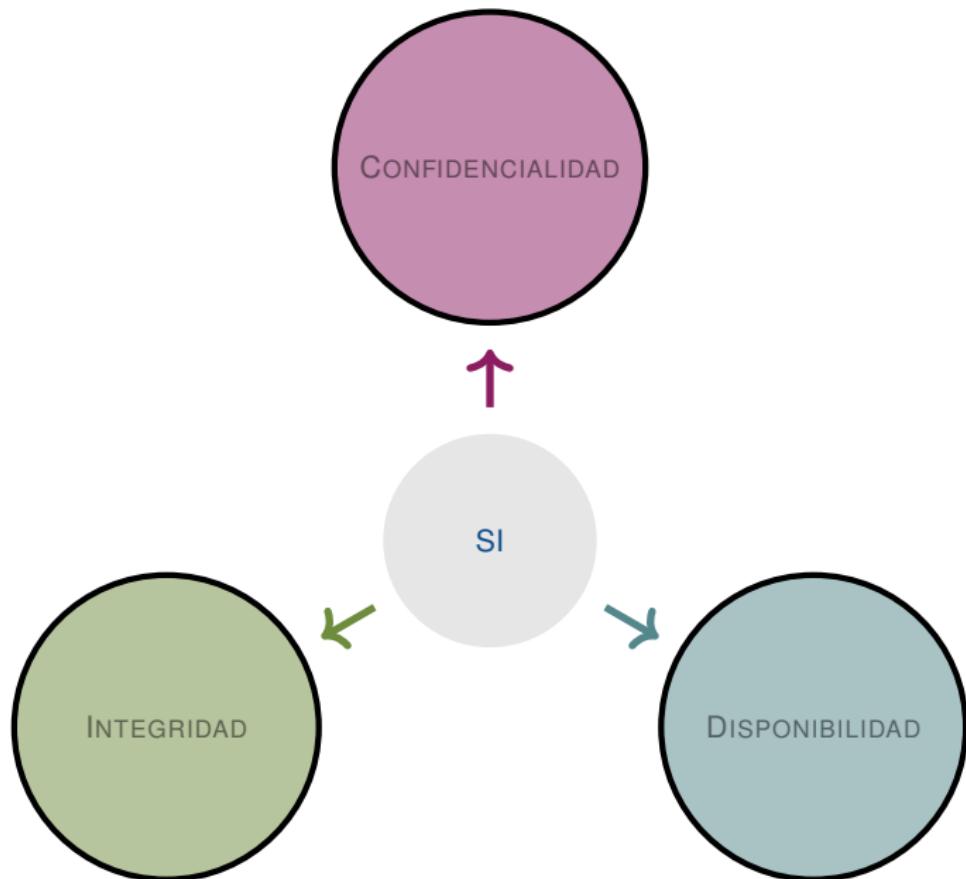
- ▶ ¿Quién accede a la información?
- ▶ ¿Qué puede hacer con la información?
- ▶ ¿Por cuánto tiempo puede tener acceso a la información?
- ▶ ¿Cómo puedo acceder a la información?
- ▶ ¿Cuándo una fuente de información puede ser considerada como confiable?

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KÖNIGSBERG





Criptografía

Criptografía

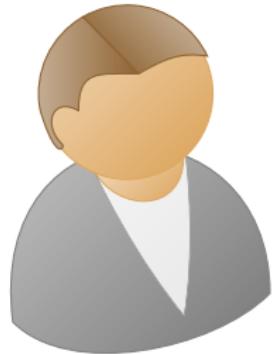
SIMÉTRICA
o de clave
secreta

Criptografía

SIMÉTRICA
o de clave
secreta

ASIMÉTRICA
o de clave
pública

Criptografía simétrica (e.g., AES)

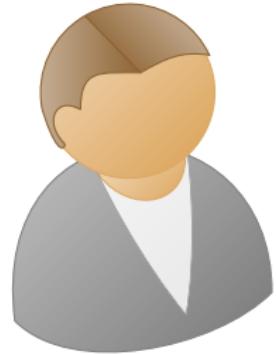


Clave secreta

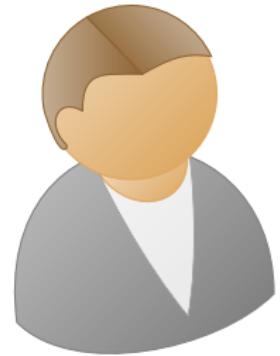
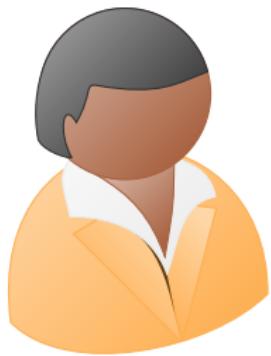


de sesión

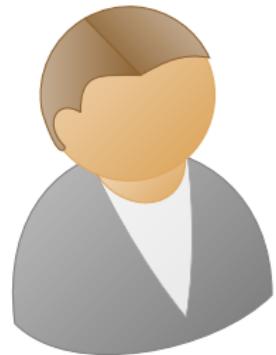
Criptografía simétrica (e.g., AES)



Criptografía asimétrica (e.g., RSA)



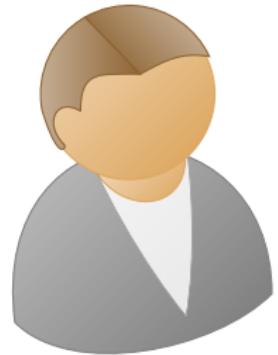
Criptografía asimétrica (e.g., RSA)



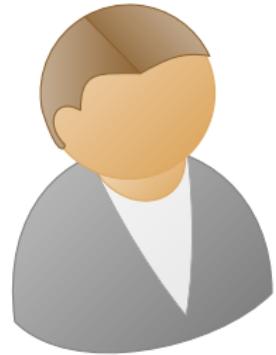
Criptografía asimétrica (e.g., RSA)



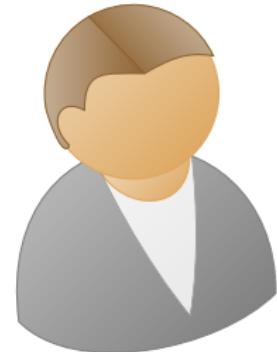
Criptografía asimétrica (e.g., RSA)



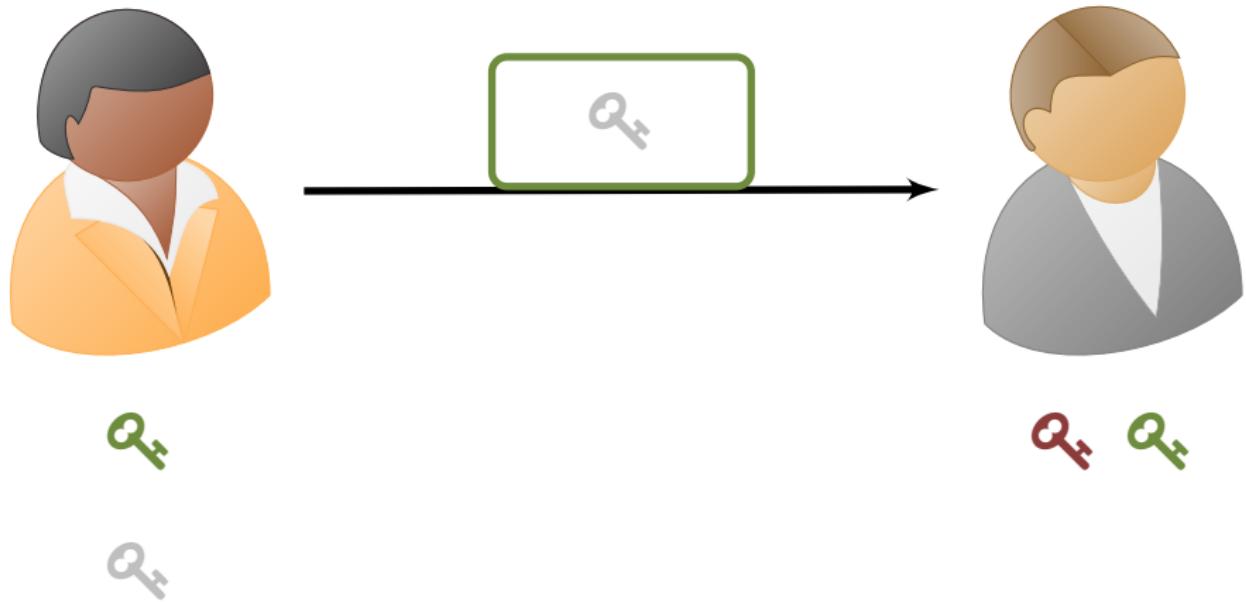
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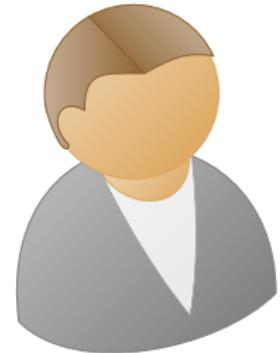
Criptografía asimétrica: intercambio de clave de sesión



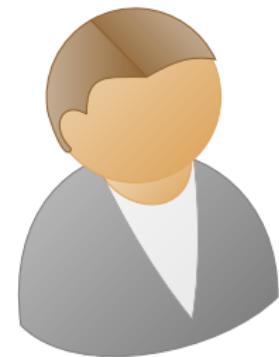
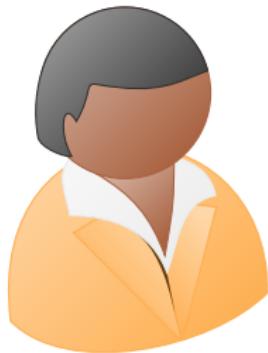
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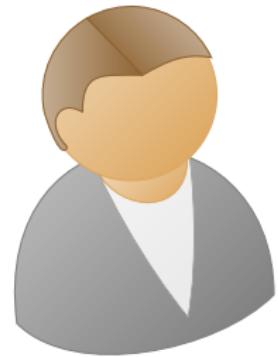
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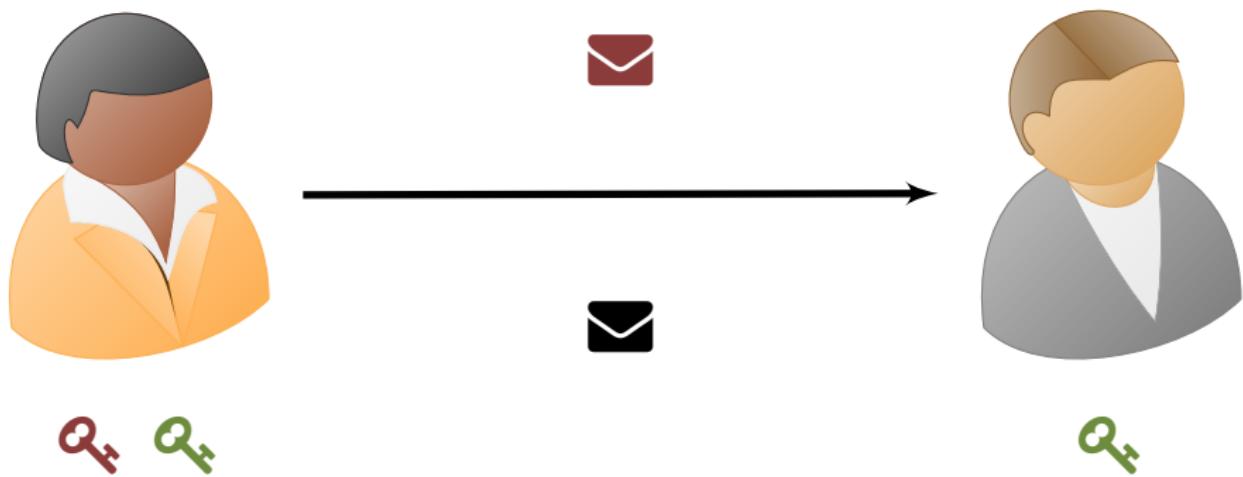
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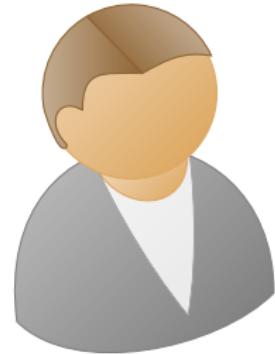
Firma digital convencional



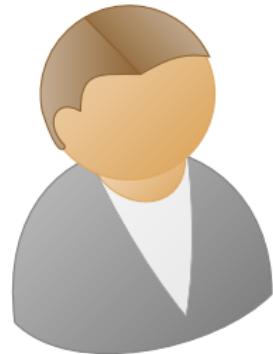
Firma digital convencional



Firma digital convencional

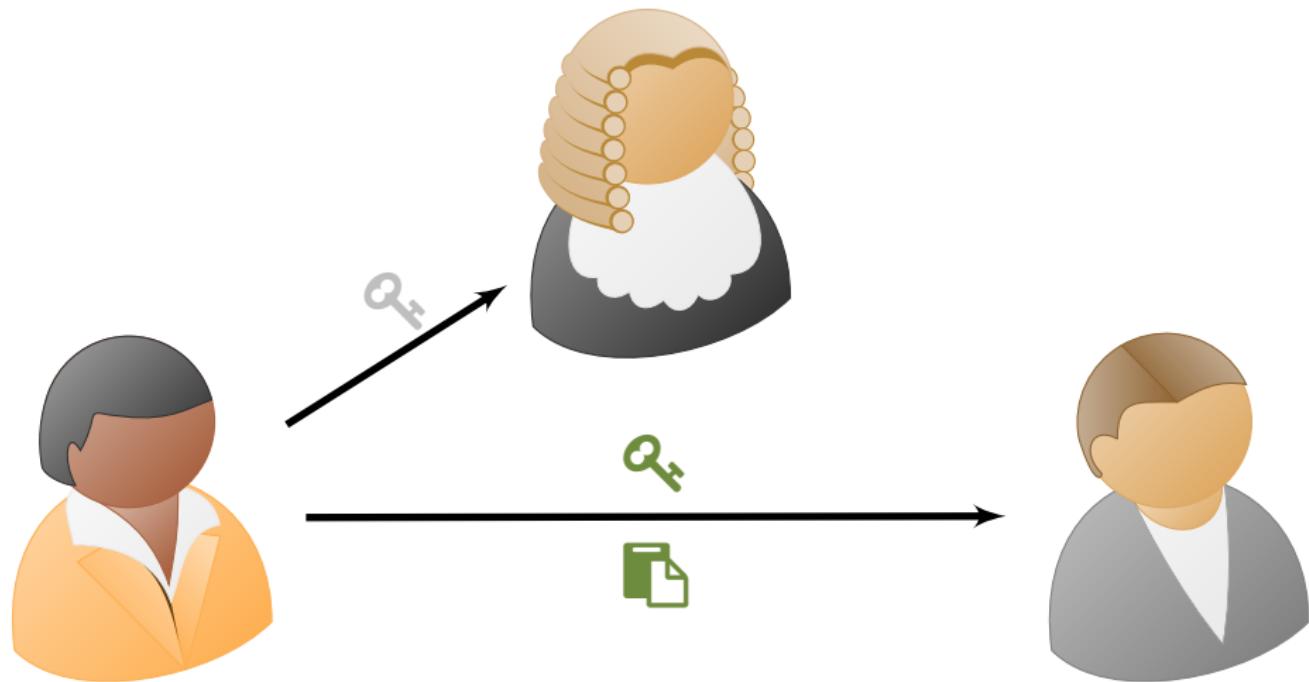


Firma digital convencional

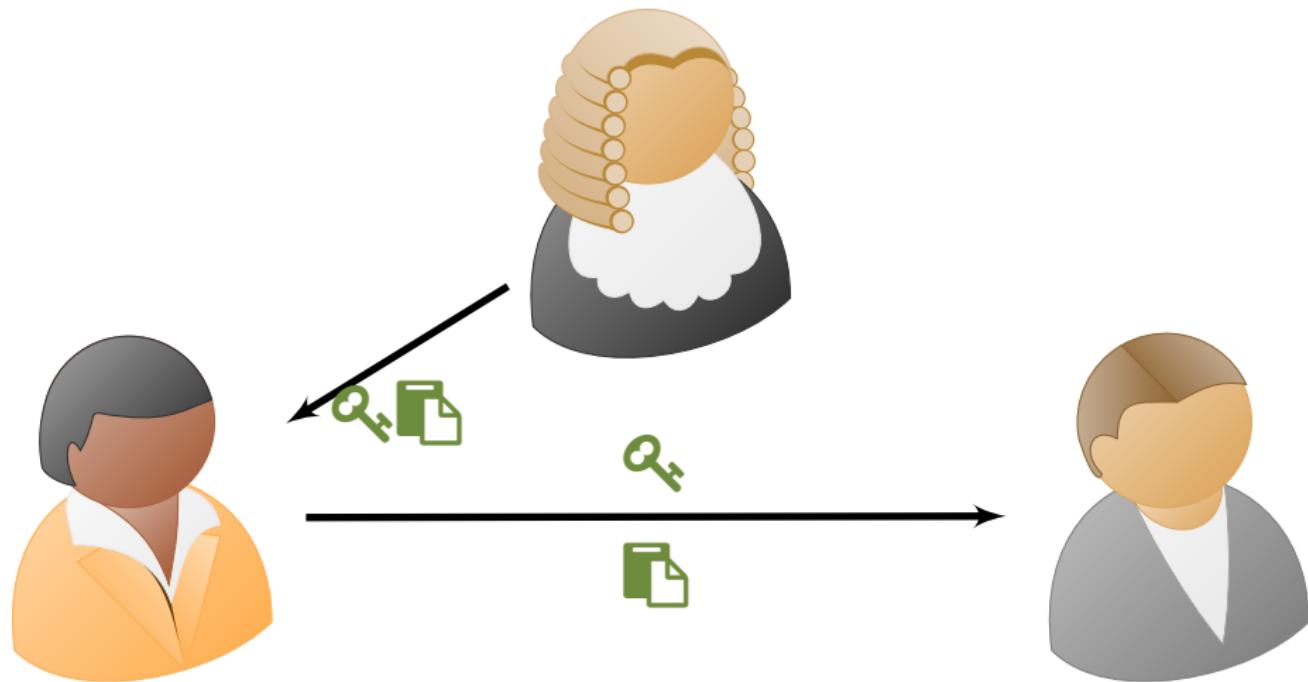


¿ = ?

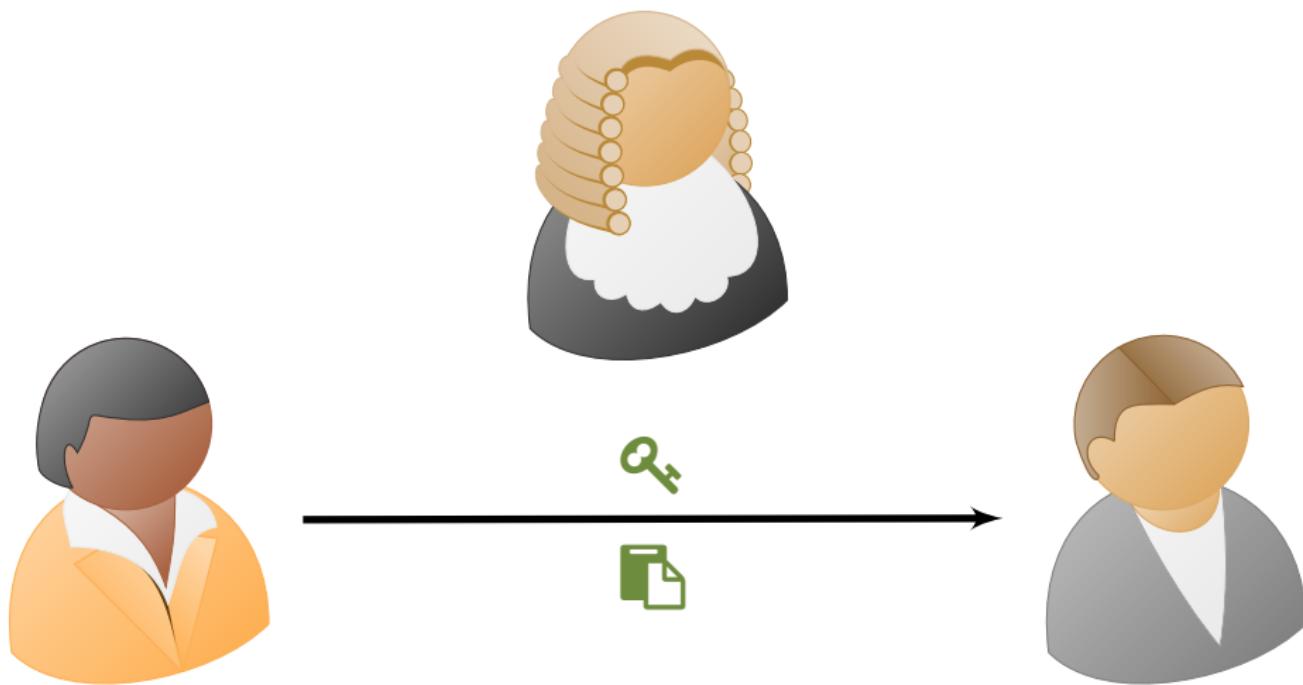
¿Quién me asegura que la clave pública es válida?



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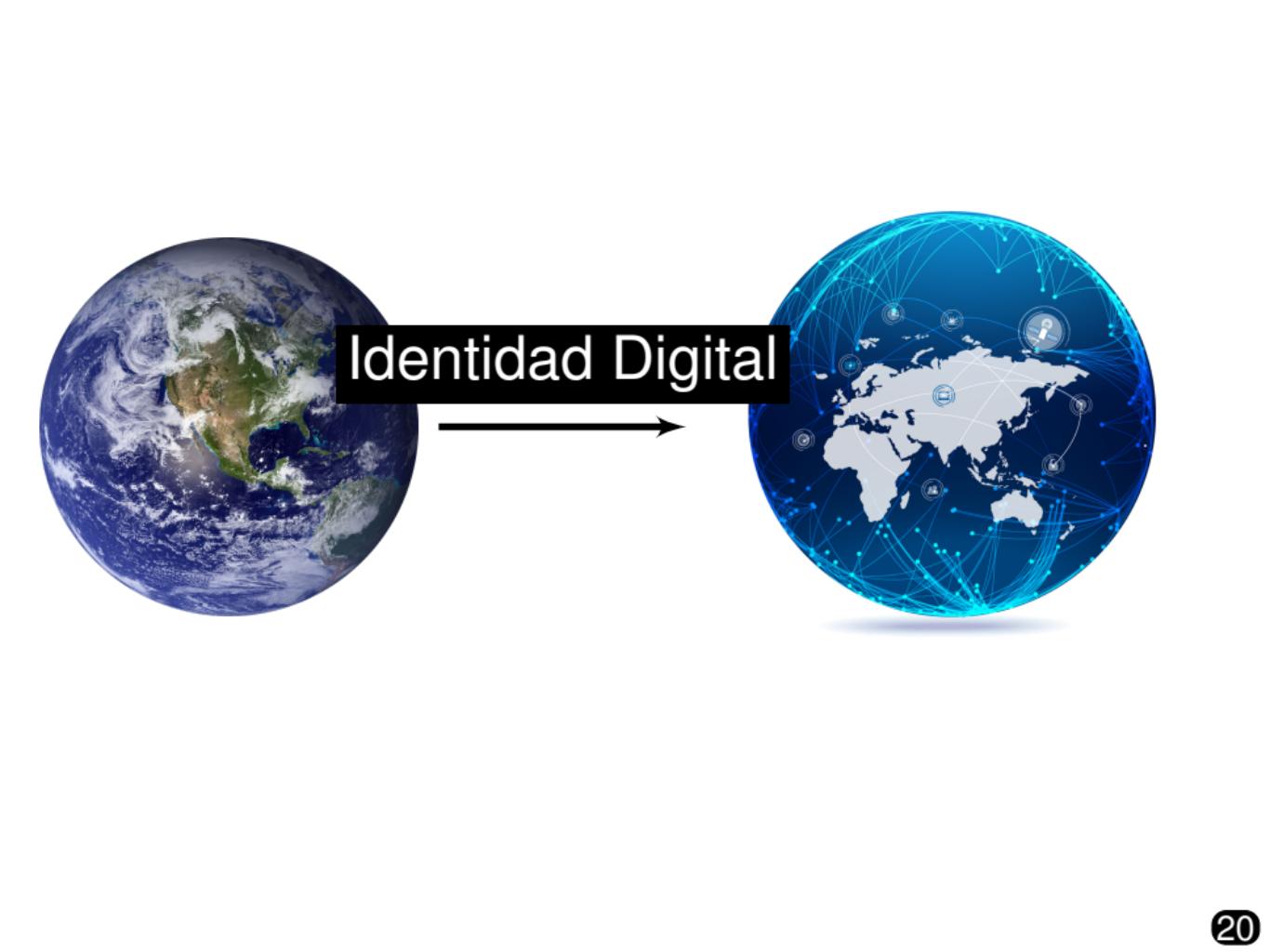
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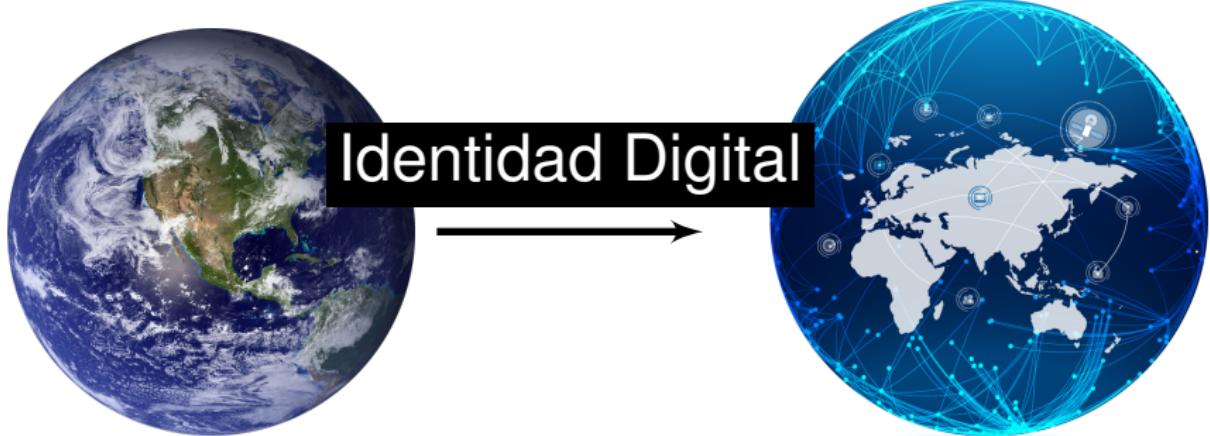
Estándar X.509

Centralización de la confianza





Identidad Digital



Algo que conoce

Contraseña



Identidad Digital



Algo que conoce

Algo que tiene





Identidad Digital



Algo que conoce

Algo que tiene

Algo que es



1. Correo electrónico 
2. Almacenamiento de información
3. Redes sociales
4. Sistemas de recomendación (→ *influencers*)
5. OSINT
6. Criptomonedas (→ *desregulación*)
7. El mundo de las apps
8. Noticias y contenido
9. Sistemas de control de versiones de código fuente (software)
10. Software gratuito

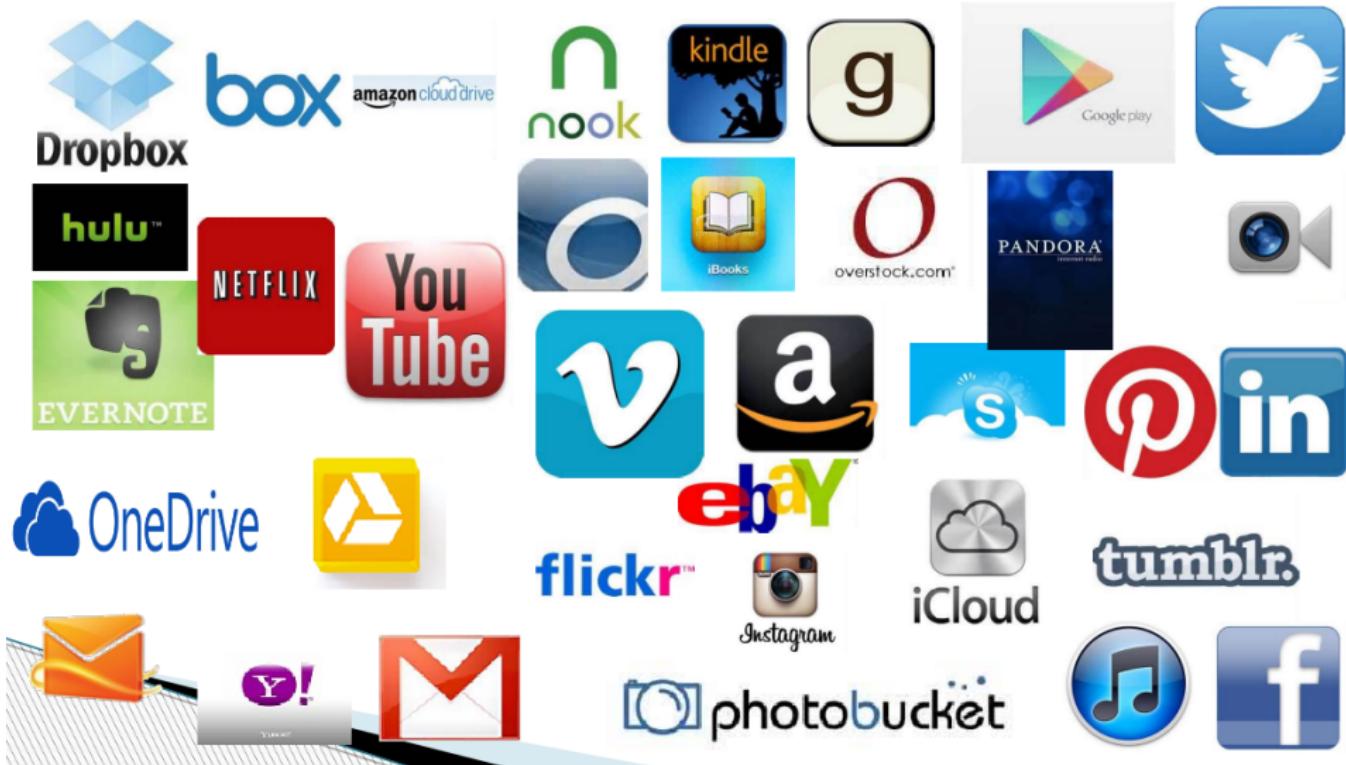
Correo electrónico

- ▶ <https://www.washingtonpost.com/technology/tracking-privacy/>
- ▶ <https://proton.me/blog/google-privacy-problem>

Algunas recomendaciones

- ▶ Evitar usar el correo personal para interacciones puntuales, de corta duración: distinguir entre cuentas de correo de larga duración vs. cuentas de corta duración
- ▶ Servicios de correo temporal:
<https://temp-mail.org/en/>,
<https://www.mailinator.com/>, etc.
- ▶ Emplear servicios de gestión de contraseñas calientes (pero no almacenar allí contraseñas de servicios personales críticos). Por ejemplo, Blur Abine

Nube, si no existieras...



Cloud computing | D...

debates.economist.com/debate/cloud-computing?state=opening

Blog de Seguridad ... ▾ eternal-todo.com ▾ Hack Players 887 × 481 - phryxlab... Últimas noticias ▾ Save to Mendeley ▾ Latest security vuln... ▾ →Inglés ▾ WordReference ▾ Definición ▾ Noticias ▾ El Ministerio ▾

The Economist

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Cloud computing

Should companies do most of their computing in the cloud?

May 26th 2015 to Jun 5th 2015

Debate Complete

Sponsored by Microsoft

Microsoft's Perspective ▾ About Sponsorship ▾

ABOUT THIS DEBATE OPENING PHASE Day 1 to 3 REBUTTAL PHASE Day 4 to 8 CLOSING PHASE Day 9 to 10 POST DEBATE PHASE

DEBATE PROGRESS: DAY 1 DAY 2 DAY 3 DAY 4 DAY 5 DAY 6 DAY 7 DAY 8 DAY 9 DAY 10 DAY 11

Yes 64% 138 Debate Votes No 36%

Make your vote

Participants 111

Opening Statements

MODERATOR

Ludwig Siegеле, The Economist's technology editor

Ludwig Siegèle is *The Economist's* technology editor. He joined the newspaper as US technology correspondent in 1998. In 2003 he went to Berlin as Germany correspondent, relocated to London in 2008 to cover the IT industry until 2011, and then ran part of *The Economist's* website as online business and finance editor. He started his journalistic career in 1990 as the Paris business correspondent of *Die Zeit*, a Germany weekly.

YES

Simon Crosby, Co-founder and chief technology officer (CTO) of Bromium Inc.

Simon Crosby is a co-founder and chief technology officer (CTO) of Bromium Inc., a pioneer of micro-virtualisation, which enables PCs to defend themselves by design from all malware. Previously he was CTO, data centre and cloud, at Citrix Systems, which acquired XenSource, where he was co-founder and CTO; a principal engineer at Intel, where he led strategic research on platform security and

NO

Bruce Schneier, Chief technology officer at Resilient Systems

Bruce Schneier is a security technologist. He is chief technology officer at Resilient Systems, a cyber-security firm, a fellow at Harvard University's Berkman Center and a board member of the Electronic Frontier Foundation (EFF). His latest book is "Data and Goliath: The Hidden Battles to Collect Your Data and Control Your World". He blogs and tweets at @schneierblog.

100% Resaltar todo Coincidencia de mayúsculas/minúsculas Más de 100 aciertos

The proposer's opening remarks in full



YES

**Simon Crosby, Co-founder and chief
technology officer (CTO) of Bromium
Inc.**

26th May 2015

Fácil de usar/de incorporar



The proposer's opening remarks in full



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Simon Crosby, Co-founder and chief
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Inc.

26th May 2015

Equipos de desarrollo
con control sobre
aplicaciones SIN
necesidad equipo TI

Fácil de usar/de incorporar



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Proliferación de dispositivos móviles

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26th May 2015

Agilidad

Proliferación de dispositivos móiles

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Fácil de usar/de incorporar

Innovación

Agilidad

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Innovación

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Inc.
26th May 2015

Innovación

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Seguridad

The opposition's opening remarks in full



NO

**Bruce Schneier, Chief technology officer
at Resilient Systems**
26th May 2015

Yes. No. Yes. Maybe. Yes. Okay, it's complicated.

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The opposition's opening remarks in full



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configuración
ajustes
limitados

Perdida de control (externalización)

Un proveedor importante es un objetivo más apetitoso

Fácil de usar/incorporar

Balance
beneficios
vs. riesgos



Cumplimiento
legal y
normativo

The opposition's opening remarks in full



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configuración
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Alejandro Sanchez-Gomez, Jesus Diaz,
Luis Hernández Encinas, et al. (2017).
“Review of the Main Security Threats and
Challenges in Free-Access Public Cloud
Storage Servers”. In: *Computer and Network
Security Essentials*. Ed. by K. Daimi. Vol. In
Press. Studies in Computational Intelligence.
Springer Berlin Heidelberg

10 retos en la adopción de servicios cloud gratuitos

- ▶ Ventajas de las servicios cloud para PYMES: reducción de costes

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Esquema de confianza nulo

- ▶ Solo confío en la nube para almacenar información
- ▶ No me fío de que pida consentimiento expreso para descifrar y ver mi información:  privacidad 
- ▶ No me fío de que modifique el contenido cifrado solo con mi consentimiento



Esquema de confianza nulo

- ▶ Protección de privacidad mediante protección de confidencialidad
- ▶ Verificación de la integridad
- ▶ Protección de la disponibilidad

Esquema de confianza nulo

- ▶ Protección de privacidad mediante protección de confidencialidad
 1. Cifrado homomórfico \Leftrightarrow proveedor compatible (e.g., CryptDB)
 2. Cifrado por parte del cliente (usuario final)
- ▶ Verificación de la integridad
- ▶ Protección de la disponibilidad

Esquema de confianza nulo

- ▶ Protección de privacidad mediante protección de confidencialidad
- ▶ Verificación de la integridad
 - ▶ Uso de firmas digitales
- ▶ Protección de la disponibilidad
 - ▶ No depender de un único sistema cloud de almacenamiento
 - ▶ Política de redundancia de información: copias en varios cloud

Alejandro Sanchez-Gomez, Jesus Diaz, and David Arroyo (2017). “Encrypted Cloud: a software solution for the secure use of free-access cloud storage services”. In: *The 10th International Conference on Computational Intelligence in Security for Information Systems CISIS 2017*, Accepted. In Press

Security as a Service

Redes Sociales



Redes Sociales



SHODAN

Search

Home Search Directory Data Analytical Exports Developer Center Logs

EXPOSE ONLINE DEVICES.

WEBCAMS, ROUTERS, POWER PLANTS, PHONES, WIND TURBINES, REFRIGERATORS, VOIP PHONES.

[TAKE A TOUR](#) [FREE SIGN UP](#)

Popular Search Queries: Routers that provide admin password - Routers that give the default admin / password in their banner.

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Find out how to access the Shodan database with Python, Perl or Ruby.

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Get more out of your searches and find the information you need.

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Redes Sociales



Teloos.es



The screenshot shows the Shodan homepage. At the top, there's a search bar with the Shodan logo and a "Search" button. Below the search bar are navigation links: Home, Search Directory, Data Analytical Exports, Developer Center, and Logs. A prominent banner reads "EXPOSE ONLINE DEVICES." with subtext: "WEBCAMs, ROUTERS, POWER PLANTS, PHONES, WIND TURBINES, REFRIGERATORS, VOIP PHONES." Two buttons, "TAKE A TOUR" and "FREE SIGN UP", are visible. Below the banner is a world map where many countries are highlighted in red, indicating they have exposed devices. At the bottom, there's a section for "Popular Search Queries" and links for "DEVELOPER API", "LEARN MORE", and "FOLLOW ME".

Redes Sociales

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The homepage of Shodan, a search engine for Internet-connected devices. The top navigation bar includes "SHODAN", a search bar, and "Search". Below the bar are links for "Home", "Search Directory", "Data Analytical Exports", "Developer Center", and "Logs". A prominent banner reads "EXPOSE ONLINE DEVICES." with subtext "WEBCAMS, ROUTERS, POWER PLANTS, PHONES, WIND TURBINES, REFRIGERATORS, VOIP PHONES." and two buttons: "TAKE A TOUR" and "FREE SIGN UP". The central feature is a world map where many countries are colored red, indicating they have exposed devices. At the bottom, there's a "Popular Search Queries" section and social media links for "DEVELOPER API", "LEARN MORE", and "FOLLOW ME".

Redes Sociales

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SHODAN

Search

Home Search Directory Data Analytical Exports Developer Center Logs

EXPOSE ONLINE DEVICES.

WEBCAMS, ROUTERS, POWER PLANTS, PHONES, WIND TURBINES, REFRIGERATORS, VOIP PHONES.

TAKE A TOUR FREE SIGN UP

Popular Search Queries: Routers that provide admin password - Routers that give the default admin / password in their banner.

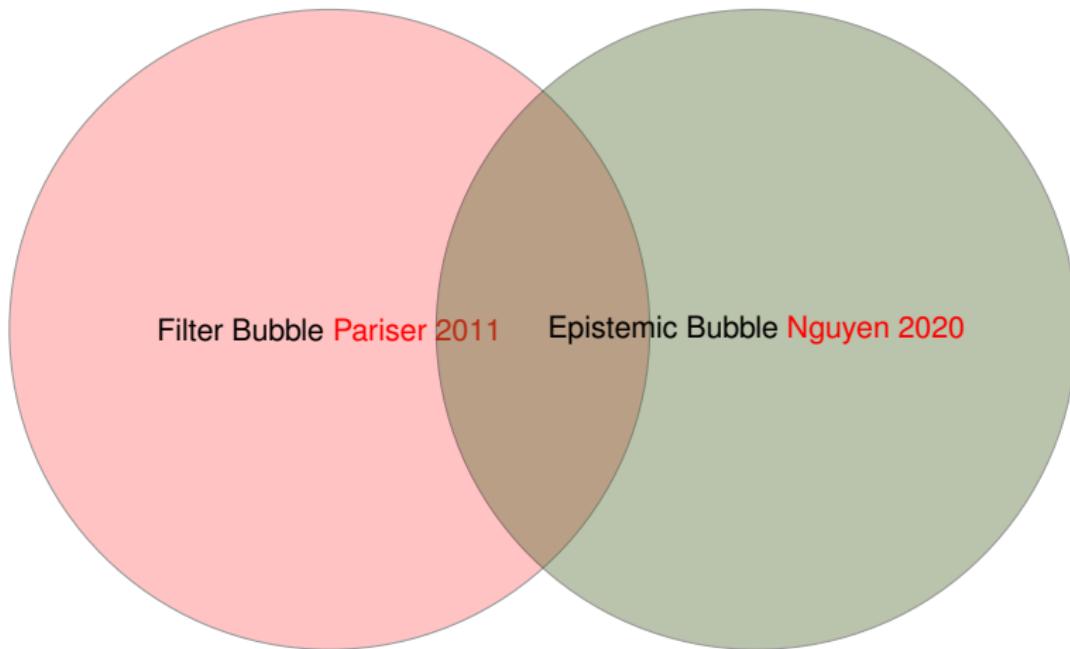
DEVELOPER API Find out how to access the Shodan database with Python, Perl or Ruby.

LEARN MORE Get more out of your searches and find the information you need.

FOLLOW ME Contact me and stay up with the latest features!

A screenshot of the Shodan search interface. It features a search bar at the top with the word "SHODAN". Below the search bar are navigation links: Home, Search Directory, Data Analytical Exports, Developer Center, and Logs. A prominent heading says "EXPOSE ONLINE DEVICES." followed by a list of device types: WEBCAMS, ROUTERS, POWER PLANTS, PHONES, WIND TURBINES, REFRIGERATORS, and VOIP PHONES. At the bottom of the page, there are three call-to-action buttons: "TAKE A TOUR" (red), "FREE SIGN UP" (green), and "Popular Search Queries" (black). The main content area shows a world map where many countries are marked with red dots, representing exposed devices. At the bottom, there are sections for "DEVELOPER API", "LEARN MORE", and "FOLLOW ME".

Sistemas de recomendación: efecto burbuja y cámara de eco



Burbujas

Filtro Actitudes, emociones, relaciones sociales e interacciones mediadas por Internet, redes sociales y, sobre todo, por el condicionamiento derivado de algoritmos personalizados (economía de la atención, perfilado, capitalismo de plataforma)

Epistémicas Contenido cognitivo, epistémico determinado biológica, cultural e históricamente (autoridades, paradigmas, presión de grupo, tradiciones, etc.)



RESEARCH

PUBLICATIONS

FELLOWS

LIBRARY & ARCHIVES

POLICYEd



A Rubicon

by Daniel E. Geer, Jr.
Friday, February 2, 2018



[CLICK HERE TO DOWNLOAD .PDF](#)

Optimality and efficiency work counter to robustness and resilience. Complexity hides interdependence, and interdependence is the source of black swan events. The benefits of digitalization are not transitive, but the risks are. Because single points of failure require militarization wherever they underlie gross societal dependencies, frank minimization of the number of such single points of failure is a national security obligation. Because cascade failure ignited by random faults is quenched by redundancy, whereas cascade failure ignited by sentient opponents is exacerbated by redundancy, (preservation of) uncorrelated operational mechanisms is likewise a national security obligation.

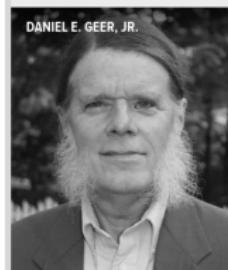
[A Rubicon](#) by Hoover Institution on Scribd



Scribd

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About the Author



[Additional Resources](#)

OSINT: Open-source intelligence

The
Economist

≡ Menu | Weekly edition | Search ▾

Leaders | The people's panopticon

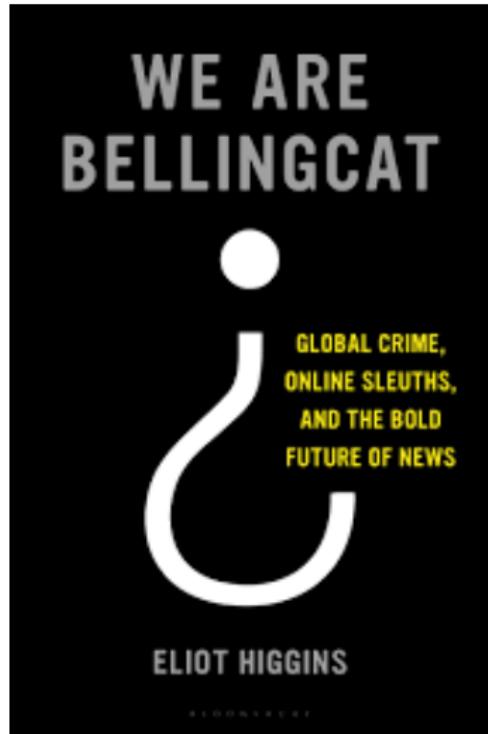
The promise of open-source intelligence

It is a welcome threat to malefactors and governments with something to hide



Mark Long

OSINT: Open-source intelligence



Sobre robots.txt

- ▶ Archivo de texto en el que se indican páginas web de nuestro sitio que no queremos que aparezcan en buscadores (Google, Bing, etc.)
 - ▶ El fichero es de acceso público, al igual que las direcciones de las páginas web que están en robots.txt
-  Por defecto, un atacante va a examinar toda la información disponible ...

[https://www.securityinet.com/
security-value-of-robots-txt-time](https://www.securityinet.com/security-value-of-robots-txt-time) 42



Social Engineering

- ⇒ Recolección de información
- ⇒ Escoger objetivos interesantes (*sheeple*)
- ⇒ Porciones de datos inocuos
- ⇒ Agregación de datos
- ⇒ Explotación!!!

Peligro de las fuentes abiertas de datos

- ▶ Ataques por ingeniería social
- ▶ Búsqueda de código vulnerable
 - ▶ Common Vulnerabilities and Exposures
 - ▶ Packet Storm Security
 - ▶ Bases de datos de vulnerabilidades
 - ▶ Exploits as a Service 
- ▶ Ingeniería Social ⇒ phishing, spear phishing → ransomware

Thomas Ryan (2010). "Getting in bed with Robin Sage". In: *Proceedings of the Black Hat Conference*, p. 8

facebook Search for people, places and things

Robin Sage

Studied at Iowa State University

Work and Education

College Iowa State University
Class of 2005 - Ames, Iowa

Basic Information

Sex Female

26 Years old

Profile picture

Thomas Ryan (2010). "Getting in bed with Robin Sage". In: *Proceedings of the Black Hat Conference*, p. 8

facebook Search for people, places and things

Robin Sage

Studied at Iowa State University

Work and Education

College Iowa State University Class of 2005 - Ames, Iowa

Jennifer White
Mobile Security Talent Acquisition
London, United Kingdom | Staffing an

Previous H&M
Education The University of Edinburgh

Send Jennifer InMail

Thomas Ryan (2010). "Getting in bed with Robin Sage". In: *Proceedings of the Black Hat Conference*, p. 8

The screenshot shows a Facebook profile for a user named Robin Sage. The profile picture is a woman with long, dark hair tied back, wearing a dark jacket. The name "Robin Sage" is displayed prominently at the top. Below the name, it says "Studied at Iowa State University". A "Work and Education" section is visible, showing "College" and "Iowa State University Class of 2005 - Ames, Iowa". To the right, there is a thumbnail image of a building, likely the university's tower.

Robin Sage
Studied at Iowa State University

Work and Education

College Iowa State University
Class of 2005 - Ames, Iowa

The screenshot shows a Facebook profile for a user named Jennifer White. The profile picture is a woman with blonde hair. The name "Jennifer White" is displayed prominently at the top. Below the name, it says "Mobile Security Talent Acquisition" and "London, United Kingdom | Staffing an". A "Previous" section lists "H&M" and an "Education" section lists "The University of Edinburgh". A blue button at the bottom right says "Send Jennifer InMail".

Jennifer White
Mobile Security Talent Acquisition
London, United Kingdom | Staffing an

Previous H&M
Education The University of Edinburgh

Send Jennifer InMail



Julian Cohen (2014). “Contemporary Automatic Program Analysis”. In: *Proceedings of the Black Hat Conference*, p. 8

Felix Fischer et al. (n.d.). “Stack Overflow Considered Harmful? The Impact of Copy & Paste on Android Application Security”. In: *Proceedings of the 2017 IEEE Symposium on Security and Privacy - Oakland 2017 (to appear)*

Aylin Caliskan-Islam et al. (2015).
“De-anonymizing programmers via code
stylometry”. In: *24th USENIX Security
Symposium (USENIX Security), Washington,
DC*

Alemania aconseja a la población hacer acopio de agua y alimentos para diez días ante la crisis de suministros

Fideos, arroz, azúcar, conservas -de verduras, carne, pescado o productos listos para su consumo-, miel, sal o vinagre son algunos de esos alimentos



El Gobierno alemán ha recomendado hacer acopio de alimentos y bebidas | Ren Pengfei



Alejandra García Navia

© Publicado: 02/06/2022 • 13:18

Noticias relacionadas

Suecia y Finlandia firman el protocolo de adhesión a la OTAN

Rodrigo Isasi Arce

El COI triplicará su ayuda a los deportistas ucranianos para que puedan «alzar alto» su bandera

R.T.O.

Las mejores proteínas para acelerar el metabolismo a partir de los 40 años

Maria Palmero

Zelenski asegura que Ucrania recuperará Líchansk y los territorios en manos rusas

¿Está debidamente contextualizada la noticia?

Hagamos uso de Google Dorks:

"víveres" intitle:Alemania

after:2016-01-01 before:2017-01-01

About 30 results (0.43 seconds)

<https://www.elconfidencial.com> › sab... · [Translate this page](#) ::

[¿Nos ocultan algo? Alemania urge a su población a hacer ...](#)

Sep 6, 2016 — Alemania urge a su población a hacer acopio de agua y víveres. El nuevo plan del país germano nos tiene a todos en vilo, pues es el más serio y radical que ...



<https://www.elmundo.es> › 2016/08/23 · [Translate this page](#) ::

[Alemania se abastece desde hace años ante el riesgo de ...](#)

Aug 23, 2016 — El Gobierno alemán se aprovisiona de víveres desde hace años ante el riesgo de que el país sea víctima de una eventual situación de crisis, ha informado ...

<https://www.lavozdegalicia.es> › noticia · [Translate this page](#) ::

[Alemania pide a sus ciudadanos que se abastecan ante el ...](#)

Aug 22, 2016 — Solicita a los alemanes que se aprovisionen de víveres para diez días y agua para cinco. La oposición ha criticado las medidas por crear alarma y fomentar ...

<https://www.lavozdegalicia.es> › noticia · [Translate this page](#) ::

[La venta de kits de supervivencia se dispara en Alemania](#)

Aug 28, 2016 — Aunque en realidad no es sino una frase hecha para llamar al aprovisionamiento de víveres. Y es que el plan de defensa civil que acaba de aprobar el ...

<https://www.dw.com> › gobierno-ale... · [Translate this page](#) ::

[Gobierno alemán acuerda nuevo plan de protección civil - DW](#)

Presidentes y consortes de todos los países

```
SELECT ?p ?pLabel ?ppicture ?w ?wLabel ?wpicture WHERE {
  BIND(wd:Q183 AS ?country)
  ?country (p:P6/ps:P6) ?p.
  ?p wdt:P26 ?w.
  OPTIONAL {
    ?p wdt:P18 ?ppicture.
    ?w wdt:P18 ?wpicture.
  }
  SERVICE wikibase:label { bd:serviceParam wikibase:language "[AUTO_LANGUAGE],en". }
}
```



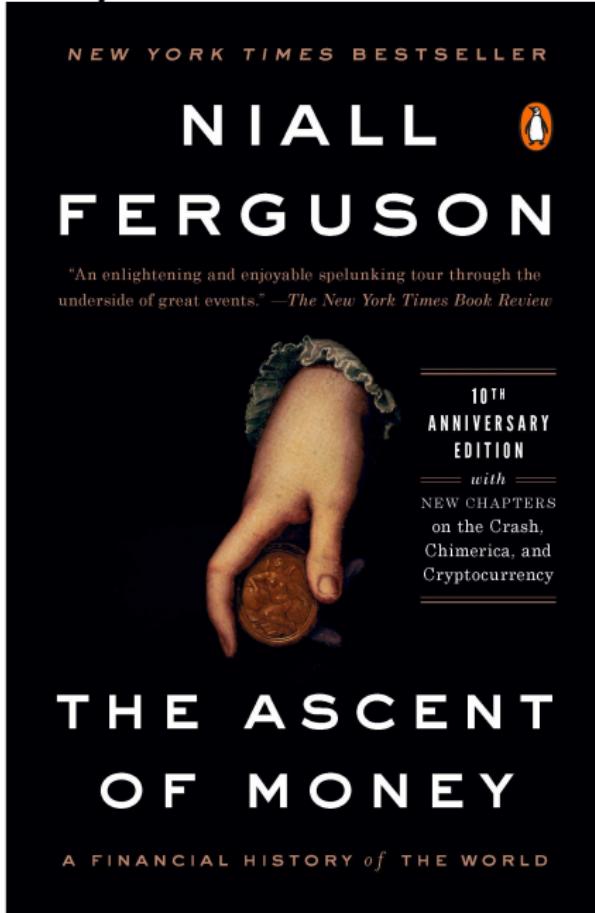
Países que tienen un enlace de sitio a en.wiki

```
SELECT ?country ?countryLabel ?article WHERE {
    ?country wdt:P31 wd:Q3624078 .
    ?article schema:about ?country .
    ?article schema:isPartOf <https://en.wikipedia.org/>.

    SERVICE wikibase:label {
        bd:serviceParam wikibase:language "en"
    }
}
```



Criptomonedas → desregulación



Descentralización o acto de fe I

- ▶ Elevado volumen de estafas piramidales: dificultad de realizar atribución
- ▶ Complejidad de uso: si se pierden las claves criptográficas se pierde todos
- ▶ Internet es un medio distribuido pero no descentralizado
- ▶ En el caso de la minería (PoW), existe un número muy pequeño de actores con alta capacidad de cómputo

Descentralización o acto de fe II

- ▶ En el caso de la minería: elevadísimo consumo energético
- ▶ Pregunta: ¿inviertes en bolsa?
- ▶ Pregunta: ¿qué es invertir? 

Descentralización o acto de fe III

"Stop going for the easy buck and start producing something with your life. Create, instead of living off the buying and selling of others." Carl Fox (Martin Sheen). Classic line from the Wall Street screenplay by Oliver Stone and Stanley Weiser



El mundo de las apps



- ▶ Android está configurado mediante un sistema de control de acceso centrado en aplicaciones
- ▶ Permisos sensibles requieren autorización explícita por parte del usuario
- ▶ En el caso de apps preinstaladas no se requiere consentimiento expreso
- ▶ Además, existen riesgos como código débil, secuestro de aplicaciones, etc.

3 Problemas de lo gratuito

Correo electrónico

Almacenamiento de información

Redes Sociales

Sistemas de recomendación

OSINT

Criptomonedas

El mundo de las apps

Software gratuito



















ios





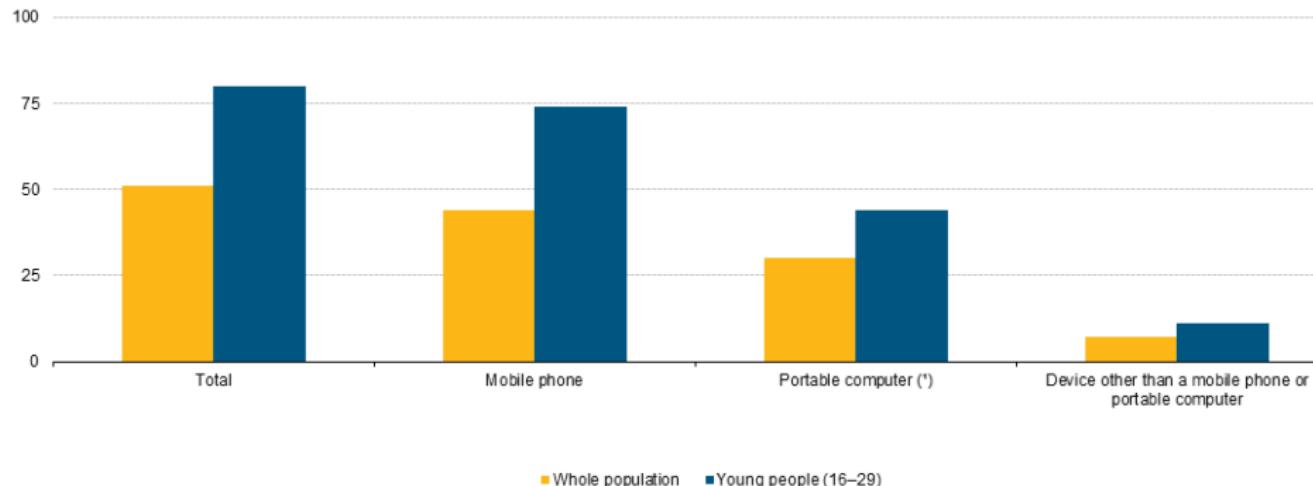
iOS





iOS





(*) Laptop, notebook, netbook or tablet computer.

Source: Eurostat (online data code: isoc_ci_ifp_pu)

Personas que no eran usuarios de PCs, hoy en día usan móviles



1

¹<http://www.mediapost.com/publications/article/209366/seniors-are-now-the-growth-opp-for-mobile.html>

Desde el punto de vista de una organización

- ▶ Ventajas potenciales en términos de productividad
- ▶ Riesgo de exposición de datos sensibles

smartphones ⇒ dispositivo portátil de cómputo ⇒ se pierden y son robados con cierta facilidad²

²<http://edition.cnn.com/2012/03/20/tech/mobile/lost-smartphones-security/>

La geolocalización y sus demonios...

- ▶ <https://www.mylnikov.org/archives/1170>
- ▶ **Fake GPS**
- ▶ PinMe: Tracking a Smartphone User around the World

Mobile Device Management

- ▶ Conjunto de herramienta para establecer una política de seguridad

Mobile Device Management

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- ▶ Evitar la instalación de software no autorizado

Mobile Device Management

- ▶ Conjunto de herramienta para establecer una política de seguridad
- ▶ Evitar la instalación de software no autorizado
- ▶ Habilitar el borrado remoto de dispositivos móviles

Mobile Device Management

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- ▶ Evitar la instalación de software no autorizado
- ▶ Habilitar el borrado remoto de dispositivos móviles
- ▶ Deshabilitar interfaces de conexión *peligrosas* (bluetooth, NFC)

Mobile Device Management

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- ▶ Habilitar el borrado remoto de dispositivos móviles
- ▶ Deshabilitar interfaces de conexión *peligrosas* (bluetooth, NFC)
- ▶ Impedir la conexión a puntos de acceso maliciosos (*rogue access points*)

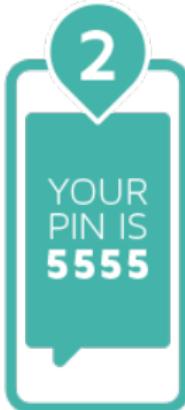
Mobile Device Management

- ▶ Conjunto de herramienta para establecer una política de seguridad
- ▶ Evitar la instalación de software no autorizado
- ▶ Habilitar el borrado remoto de dispositivos móviles
- ▶ Deshabilitar interfaces de conexión *peligrosas* (bluetooth, NFC)
- ▶ Impedir la conexión a puntos de acceso maliciosos (*rogue access points*)



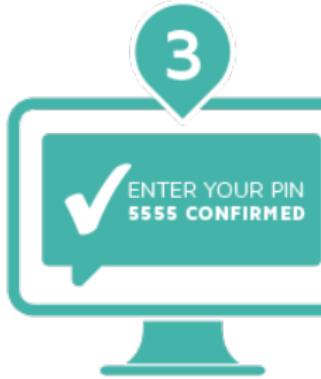
1

ENTER YOUR PHONE NUMBER
XXX XXXX XXXX



2

YOUR
PIN IS
5555



3

✓ ENTER YOUR PIN
5555 CONFIRMED



"I have your MRI results. Half your brain is clogged with passwords and the other half is clogged with user names."



Design

User experience

Password Change Sign Up sheet

If you'd like to change your password please fill out the form below and we will change your password on the system you indicate.

Full Name	System (Yardi, email, ect.)	Current password	New password
Kyle Smith	Email	Scooter 49\$	Skeeter 442 (all upper case)
LIZ JONES	PHOIVE	89621	4281
Jack H.	Email	Password	Password 2
Big Ed	Facebook	redstopin	mimifray
Sam Adams	Pike Pass		

Política, contraseñas ...



FOR IT SUPPORT, PLEASE CALL X4499
ACCESS TO GUEST WIFI
USER LOG-IN: uniwifiguest
PASSWORD: uniwifiguest
[Select current month:
ie Jan=01; Nov=11]

Identificación ≠ Autenticación

media.ccc.de/v/35c3-9545-venenerkennung_hacken

 media.ccc.de

Search...

 starbug and Julian



Cifrado de información



OpenKeychain: Easy PGP

Cotech - Confidential Technologies Comunicación

★★★★★ 2.443

3 PEGI 3

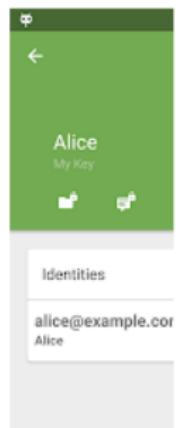
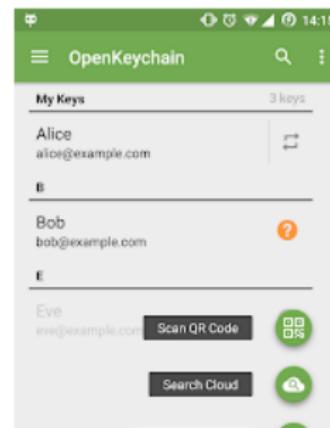
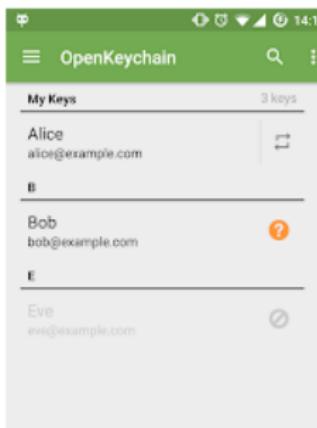
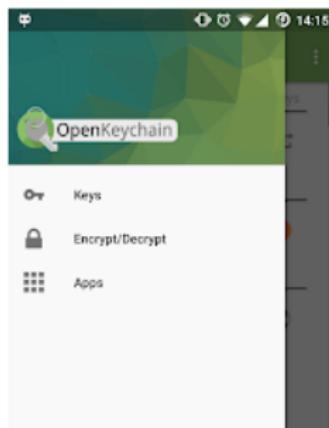
Ofrece compras en la aplicación

⚠ No tienes dispositivos.



Añadir a la lista de deseos

Instalar



Gestores de contraseñas



Password Store

Zeapo Productivity

3 PEGI 3

⚠ You don't have any devices.

Add to Wishlist

The screenshot shows the main interface of the Password Store app. At the top, there's a header bar with the title "Password Store". Below it is a search bar and a menu icon. The main area displays a list of saved items in a tree view:

- /code/ (with a lock icon)
- /social/ (with a lock icon)
 - facebook
 - twitter
- /gmail (with a lock icon)

This screenshot shows the "social/" folder expanded. It lists two entries: "facebook" and "twitter", each preceded by a lock icon.

This screenshot shows the details for the "twitter" entry. It includes fields for "Password" (containing a long string of characters), "Username" (set to "my_user"), and "Extra content" (also set to "username: my_user"). There is also a note at the bottom stating "Remembered content to clipboard, now fresh".

Más allá...

Actividades Navegador web Firefox mié 12:39
privacytools-es - cifrado contra la vigilancia masiva - Mozilla Firefox
privacytools-es - cifrado contra la vigilancia masiva - Mozilla Firefox
privacytools-es - cifrado contra la vigilancia masiva - Mozilla Firefox
https://victorhck.gitlab.io/privacytools-es/
Servicios Navegador Software Sistemas operativos Participa Acerca de Comparte Dona Código fuente

🔗 Software de sincronización segura de archivos

SparkleShare

SparkleShare crea una carpeta especial en tu equipo. Puedes añadir de manera remota carpetas (o "proyectos") a esta carpeta. Este proyecto automáticamente se mantendrá sincronizado tanto en el "host" como en todos los "pareos" cuando alguien añada, elimine o edite el archivo.

[Site web: sparkleshare.org](http://site.web.sparkleshare.org)

Sistemas operativos: Windows, Mac, GNU/Linux.

Syncthing

Syncthing reemplaza servicios en la nube y sincronización con algo abierto, confiable y descentralizado. Tus datos son sólo tus datos y tú deseas escoger donde almacenarlos, si son compartidos con terceros y cómo son transmitidos por Internet.

[Site web: syncthing.net](http://site.web.syncthing.net)

Sistemas operativos: Windows, Mac, GNU/Linux, Android, BSD, Solaris.

Vale la pena mencionar

- [git-annex](#) - Permite gestionar archivos mediante git, sin comprobar el contenido de archivos en git. Mientras que esto puede resultar paradójico, es muy útil cuando manejas archivos más grandes de los que puede actualmente utilizar git, ya sea debido a limitaciones en memoria, tiempo o espacio de disco.

🔗 Software de gestión de contraseñas

Si actualmente estás utilizando software de gestor de contraseñas como 1Password, LastPass, Roboform o iCloud Keychain deberías escoger una de las opciones que aquí se presentan.

KeePass / KeePassX - Local

KeePass es un gestor de contraseñas libre y de código abierto.

LessPass - Navegador

LessPass es un gestor de contraseñas libre y de código abierto.

Software gratuito



Last week, Sonatype discovered multiple Python packages that not only exfiltrate your secrets—AWS credentials and environment variables but rather upload these to a publicly exposed endpoint.

These packages were discovered by Sonatype's automated malware detection system, offered as a



Products ▾ Solutions ▾ Pricing Resources ▾ Compa

- **loglib-modules** — appears to target developers familiar with the legitimate 'loglib' library.
- **pyg-modules** — appears to target developers familiar with the legitimate 'pyg' library.
- **pygrata** — unknown target
- **pygrata-utils** — unknown target; contains identical malicious code to that seen in 'loglib-modules'
- **hkg-sol-utils** — unknown target

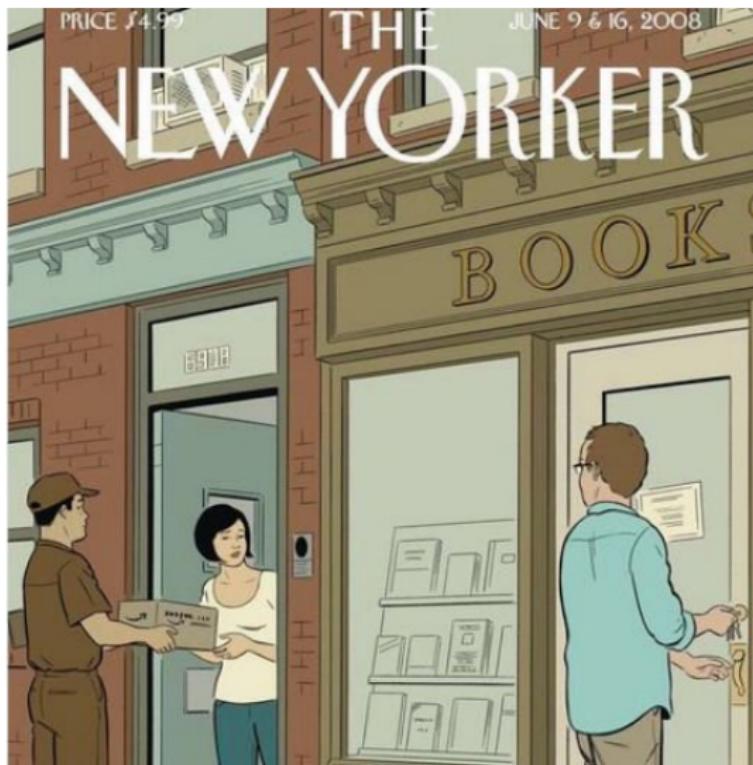
Recomendaciones

- ▶ Verificar fuentes
- ▶ Emplear herramientas/servicios de análisis estático/dinámico de código:
Virus Total
- ▶ ↓ , , , ; ↑  ☺

PRICE \$4.99

THE NEW YORKER

JUNE 9 & 16, 2008





Navegación segura

- ▶  Google Chrome
- ▶  Firefox
- ➔ <https://www.privacytools.io/#browser>
- ➔ Requestmap

Configurar Firefox



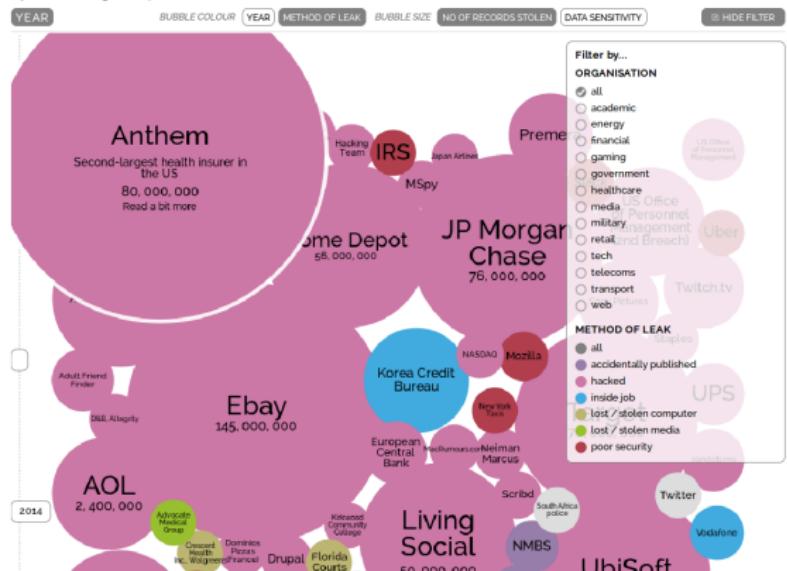
All Slides

1. 11 Default Firefox Settings You Should Change If You Care About Your Privacy
2. Stop Firefox's data collection
3. Remove unnecessary information from the home screen
4. Change the default search engine
5. Review search suggestions in Firefox
6. Switch to more secure HTTPS websites
7. Stop websites from annoying you
8. Clear your browsing history and cookies
9. Enable tracking protection
10. Switch to a better password manager
11. Get privacy-friendly add-ons
12. A few final changes

<http://www.informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/>

World's Biggest Data Breaches

Selected losses greater than 30,000 records
(updated 11th August 2015)



Necesidad de soluciones integrales I

- ▶ have i been pwned? Check if you have an account that has been compromised in a data breach 
- ▶ 'Worse Than KRACK' – Google And Microsoft Hit By Massive 5-Year-Old Encryption Hole 
- ▶ Vietnamese researcher shows iPhone X face ID 'hack' 

Necesidad de soluciones integrales II

- ▶ Japan researchers warn of fingerprint theft from 'peace' sign 
- ▶ Hacker fakes German minister's fingerprints using photos of her hands 
- ▶ Side channel attacks
 - ▶ Eavesdropping attacks on computer displays

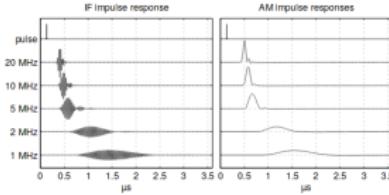


Figure 1: Receiver output resulting from a single nanosecond-short impulse at the antenna input.



The quick brown fox
The quick brown fox

Figure 2: Text displayed on a cathode-ray tube (top) and signal seen by eavesdropper (bottom).

Necesidad de soluciones integrales III

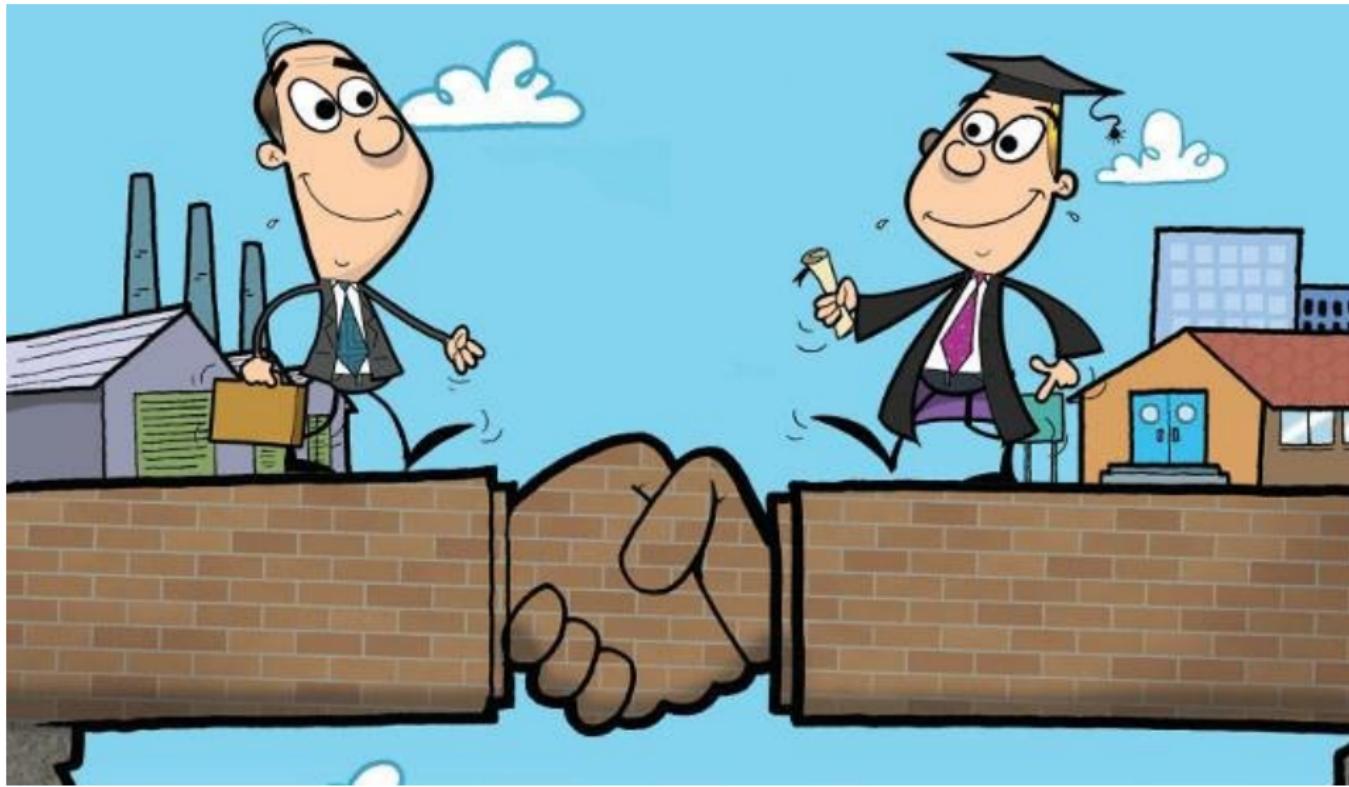
- ▶ Acoustic side-channel attacks on printers 

CORRECTA ALINEACIÓN DE
INTERESES DE NEGOCIO
RESTRICCIONES LEGALES Y
POSIBILIDADES TECNOLÓGICAS

Conclusiones

¿De qué me fío?

¿Cómo puedo
construir una red
de confianza?



European Commission - Press release

Commission signs agreement with industry on cybersecurity and steps up efforts to tackle cyber-threats

Brussels, 5 July 2016

The Commission today launches a new public-private partnership on cybersecurity that is expected to trigger €1.8 billion of investment by 2020. This is part of a series of new initiatives to better equip Europe against cyber-attacks and to strengthen the competitiveness of its cybersecurity sector.

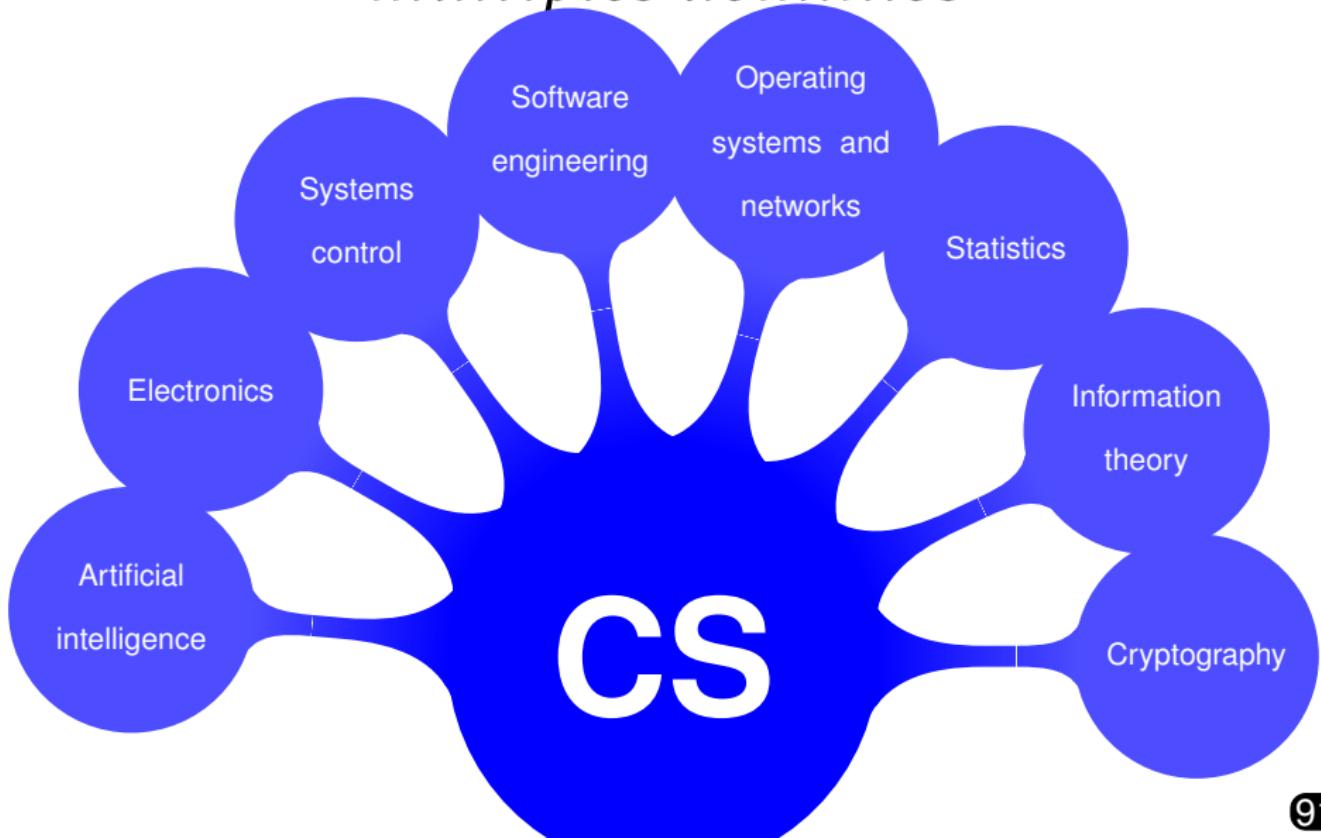
According to a [recent survey](#), at least 80% of European companies have experienced at least one cybersecurity incident over the last year and the number of security incidents across all industries worldwide rose by 38% in 2015. This damages European companies, whether they are big or small, and threats to undermine trust in the digital economy. As part of its [Digital Single Market strategy](#) the Commission wants to reinforce cooperation across borders, and between all actors and sectors active in cybersecurity, and to help develop innovative and secure technologies, products and services throughout the EU.

Andrus Ansip, Vice-President for the Digital Single Market, said: "Without trust and security, there can be no Digital Single Market. Europe has to be ready to tackle cyber-threats that are increasingly sophisticated and do not recognise borders. Today, we are proposing concrete measures to strengthen Europe's resilience against such attacks and secure the capacity needed for building and expanding our digital economy."

Günther H. Oettinger, Commissioner for the Digital Economy and Society, said: "Europe needs high quality, affordable and interoperable cybersecurity products and services. There is a major opportunity for our cybersecurity industry to compete in a fast-growing global market. We call on Member States and all cybersecurity bodies to strengthen cooperation and pool their knowledge, information and expertise to increase Europe's cyber resilience. The milestone partnership on cybersecurity signed today with the industry is a major step ."

Today's action plan includes the launch of the first European **public private partnership on cybersecurity**. The EU will invest €450 million in this partnership, under its research and innovation programme Horizon 2020. Cybersecurity market players, represented by the European Cyber Security Organisation (ECSO), are expected to invest three times more. This partnership will also include members from national, regional and local public administrations, research centres and academia. The aim of the partnership is to foster cooperation at early stages of the research and innovation process and to build cybersecurity solutions for various sectors, such as energy, health, transport and finance. Commissioner Oettinger today signs the partnership with the ECSO in Strasbourg ([photos](#) and [videos](#) to be available at around 12.00 CET).

Ciberseguridad: disciplina que engloba múltiples dominios



Schumpeter

How real-estate barons have ridden the tech boom

Digitisation has created unlikely winners: real-estate barons



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The Moral Character of Cryptographic Work

Phillip Rogaway, University of California, Davis

Abstract:

Cryptography rearranges power: it configures who can do what, from what. This makes cryptography an inherently political tool, and it confers on the field an intrinsically moral dimension. The Snowden revelations motivate a reassessment of the political and moral positioning of cryptography. They lead one to ask if our inability to effectively address mass surveillance constitutes a failure of our field. I believe that it does. I call for a community-wide effort to develop more effective means to resist mass surveillance. I plead for a reinvention of our disciplinary culture to attend not only to puzzles and math, but, also, to the societal implications of our work.

Phil is a Computer Science professor at the University of California, Davis. He studied cryptography at MIT (1991), then worked as a security architect for IBM before joining UCD in 1994. Co-inventor of “practice-oriented provable security,” Rogaway’s work seeks to meld cryptographic theory and cryptographic practice in a mutually beneficial way.

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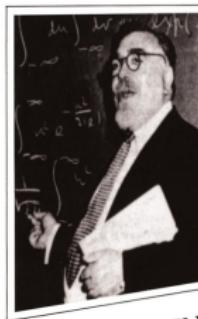




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CYBERNETICS AND SOCIETY



NORBERT WIENER

NORBERT WIENER

We have decided to call the entire field of control and communication theory, whether in the machine or in the animal, by the name *Cybernetics*, which we form from the Greek χυβερνήτης or *steersman*. In choosing this term, we wish to recognize that the first significant paper on feedback mechanisms is an article on governors, which was published by Clerk Maxwell in 1868, and that *governor* is derived from a Latin corruption of χυβερνήτης.¹

—NORBERT WIENER

Santiago Ramón y C



REGLAS Y CONSEJOS S INVESTIGACIÓN CIENTÍFICA

Los tónicos de la voluntad



CAPÍTULO V

Enfermedades de la voluntad

Todos hemos visto profesores superiormente dotados, desbordantes de actividad e iniciativas, en posesión de suficientes medios de trabajo, y que, sin embargo, no realizan obra personal ni escriben casi nunca. Sus discípulos y admiradores esperan con ansia la *obra grande*, legitimadora del alto concepto que del maestro se formaron, pero la *obra grande* no se escribe y el maestro continúa callando.

No nos engañen el optimismo y el buen deseo. A despecho del mérito excepcional y del celo y actividad desplegados en determinadas funciones docentes, dichos maestros son enfermos de la voluntad. No lo serán acaso a los ojos del frenópata, su modorra y dejadez no justifican todavía el diagnóstico de *abulia*, pero sus discípulos y amigos harán bien en considerarlos como anormales y en proponerles, con el respeto y dulzura debidos a su alta mentalidad, tratamiento espiritual adecuado.

Estos ilustres fracasados agrúpanse en las principales clases siguientes: *dilettantes* o *contempladores*, *eruditos* o *bibliófilos*, *organófilos*, *megalófilos*, *descentrados* y *teorizantes*.

Contempladores.—Variedad morbosa muy frecuente entre astrónomos, naturalistas, químicos, biólogos y físicos, reconócese en los síntomas siguientes: amor a la contemplación de la Naturaleza, pero sólo en sus manifestaciones estéticas: los espectáculos sublimes, las bellas formas, los colores espléndidos y las estructuras

Macy conferences...



MEET THE CONFERENCE ATTENDEES
RALPH W. GERARD (1896-1973)
Neurophysiologist

Ralph W. Gerard was born in 1896 in New York City. He received his Ph.D. from Columbia University in 1921. He was a professor at the University of Illinois from 1922 to 1936, and then moved to the University of Chicago where he remained until his retirement in 1961. He was a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He died in 1973.

Ralph W. Gerard
(Neurophysiologist)



MEET THE CONFERENCE ATTENDEES
MOLLY HARROWER (1896-1983)
Psychologist

Molly Harrower was born in 1896 in New York City. She received her Ph.D. from Columbia University in 1921. She was a professor at the University of Illinois from 1922 to 1936, and then moved to the University of Chicago where she remained until her retirement in 1961. She was a member of the National Academy of Sciences and the American Academy of Arts and Sciences. She died in 1983.

Molly Harrower
(Psychologist)



MEET THE CONFERENCE ATTENDEES
GEORGE EVELYN HUTCHINSON (1890-1978)
Ecologist

George Evelyn Hutchinson was born in 1890 in New York City. He received his Ph.D. from Columbia University in 1914. He was a professor at the University of Illinois from 1922 to 1936, and then moved to the University of Chicago where he remained until his retirement in 1961. He was a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He died in 1978.

George Evelyn Hutchinson
(Ecologist)



MEET THE CONFERENCE ATTENDEES
HEINRICH KLUVER (1893-1981)
Psychologist

Heinrich Klüver was born in 1893 in Berlin, Germany. He received his Ph.D. from the University of Berlin in 1917. He was a professor at the University of Illinois from 1922 to 1936, and then moved to the University of Chicago where he remained until his retirement in 1961. He was a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He died in 1981.

Heinrich Klüver
(Psychologist)



MEET THE CONFERENCE ATTENDEES
LAWRENCE S. KUBIE (1892-1970)
Psychiatrist

Lawrence S. Kubie was born in 1892 in New York City. He received his Ph.D. from Columbia University in 1916. He was a professor at the University of Illinois from 1922 to 1936, and then moved to the University of Chicago where he remained until his retirement in 1961. He was a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He died in 1970.

Lawrence S. Kubie
(Psychiatrist)



MEET THE CONFERENCE ATTENDEES
PAUL F. LAZARSFELD (1890-1946)
Sociologist

Paul F. Lazarsfeld was born in 1890 in Vienna, Austria. He received his Ph.D. from the University of Vienna in 1914. He was a professor at the University of Illinois from 1922 to 1936, and then moved to the University of Chicago where he remained until his retirement in 1961. He was a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He died in 1946.

Paul F. Lazarsfeld
(Sociologist)



MEET THE CONFERENCE ATTENDEES
KURT LEWIN (1890-1947)
Psychologist

Kurt Lewin was born in 1890 in Berlin, Germany. He received his Ph.D. from the University of Berlin in 1914. He was a professor at the University of Illinois from 1922 to 1936, and then moved to the University of Chicago where he remained until his retirement in 1961. He was a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He died in 1947.

Kurt Lewin
(Psychologist)



MEET THE CONFERENCE ATTENDEES
RAFAEL LORENTE DE NO (1895-1973)
Neurophysiologist

Rafael Lorente De Nò was born in 1895 in Madrid, Spain. He received his Ph.D. from the University of Madrid in 1921. He was a professor at the University of Illinois from 1922 to 1936, and then moved to the University of Chicago where he remained until his retirement in 1961. He was a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He died in 1973.

Rafael Lorente De Nò
(Neurophysiologist)



MEET THE CONFERENCE ATTENDEES
DONALD G. MARQUIS (1894-1970)
Psychologist

Donald G. Marquis was born in 1894 in New York City. He received his Ph.D. from Columbia University in 1918. He was a professor at the University of Illinois from 1922 to 1936, and then moved to the University of Chicago where he remained until his retirement in 1961. He was a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He died in 1970.

Donald G. Marquis
(Psychologist)



MEET THE CONFERENCE ATTENDEES
WARREN S. MCCULLOCH (1898-1985)
Neuropsychiatrist

Warren S. McCulloch was born in 1898 in New York City. He received his Ph.D. from Columbia University in 1924. He was a professor at the University of Illinois from 1922 to 1936, and then moved to the University of Chicago where he remained until his retirement in 1961. He was a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He died in 1985.

Warren S. McCulloch
(Neuropsychiatrist)

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Ciberseguridad

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