

The term paper

- ◆ Read about topic.
 - ◆ Read existing *academic* analysis on ethics of topic and similar topic & more broadly about ethics theories & principles.
 - ◆ Analyse technologies or possible consequences in terms of *ethical theories or principles*.
 - ◆ You are the "practical ethicist".
-
- ◆ "...make appropriate use of citations and references"
 - ◆ For similar academic analyses / resources try:
 - ◆ *ACM Digital Library (dl.acm.org)*
 - ◆ *EBSCO interdisciplinary academic database (<http://search.ebscohost.com/>)*.
 - ◆ *Google Scholar (scholar.google.com)*

Computer Ethics (English)

BLG412E

4: Privacy

Contents of lecture

Privacy:

Framework:

- Definitions.
- Privacy as a value.
- Public & private information.
- Data-protection considerations.



Issues:

- Surveillance.
- Information collection.
- Data use.
- Data transfer.
- Data merging & matching.
- Data mining.
- Security of data.

Measures:

- By law.
- By businesses.
- By individuals.

Privacy: A history of definitions

- ◆ Accessibility Privacy.
 - ◆ Being left alone.
 - ◆ e.g. no body searches.
- ◆ Decisional Privacy.
 - ◆ Making own decisions.
 - ◆ e.g. "right to die".
- ◆ Informational Privacy.
 - ◆ Accessing and controlling personal information.
 - ◆ e.g. private political views.

Earlier

Later

Is/which privacy invaded here?

Slate

SCIENCE

THE STATE OF THE UNIVERSE.

JUNE 28 2014 5:50 PM

Facebook's Unethical Experiment

It intentionally manipulated users' emotions without their knowledge.



By Katy Waldman



Computer Ethics (English)

BLG412E

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Privacy as a value: values change between times and groups

The Telegraph

HOME NEWS SPORT FINANCE COMMENT BLOGS CULTURE TRAVEL LIFESTYLE

Technology News | Technology Companies | Technology Reviews | Video Games | Technology

HOME » TECHNOLOGY » FACEBOOK

Facebook's Mark Zuckerberg says privacy is no longer a 'social norm'

Facebook founder Mark Zuckerberg has denounced privacy as a 'social norm' of the past as social networking's popularity continues to grow.

Target exactly the audience you want

Location
Country
State
City or Town
Age
Gender
Interests
Activities
Music

Books
TV shows
Education
High school
College
Major
Work
Political views
Relationships



Facebook announced controversial changes to its privacy settings in December 2009 via its 'notifications' tab.

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Media »
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Digital Media »

IN FACEBOOK

Tech

**Eric Schmidt
(Google CEO,
2009):**

"If you have something that you don't want anyone to know, maybe you shouldn't be doing it in the first place."

When privacy may be bad

- ❖ Anonymity:
 - ❖ Hate speech.
 - ❖ Defamation.
- ❖ Opportunity for crime.
- ❖ Lack of openness (cf. deontological ethics).
- ❖ Obstacle to coordination (e.g. government institutions, businesses).

Privacy as a value

- ◆ Not an "Intrinsic Value", but "Necessary Condition"? (Fried, 1990)
 - + Security (Moor, 1998).
 - + Trust, friendship.
 - + Autonomy/control.

Also see: Kasper (2007). Privacy as a Social Good. Social Thought & Research, 28. 165-189.

Privacy as a social value

- ◆ Individual vs social interests dichotomy not helpful.
 - ◆ + Support normal social functioning.
 - ◆ + Defend against discrimination/persecution.
 - ◆ + Reduce concentration of power.
(information as power)

Also see: Kasper (2007). Privacy as a Social Good. *Social Thought & Research*, 28. 165-189.

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Public vs private personal information

	Public personal information	Private personal information
Main idea	Information revealed in a "public space".	Information kept away from public spaces.
Examples	City of residence. Workplace. Hair colour. Letterbox style.	Credit card number. Secret political views. Deviant thoughts. Income amount.

Blurred distinction:

- Public with respect to **whom?** (e.g. relationship status, wealth level, home-workplace route).
- Collation (data merging, matching, mining, etc.).

Better to think about:

Who controls personal information.

Computer Ethics (English)

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Data-protection considerations

Personal information about you.

- ◆ Can you:
 - ◆ Learn what data there is?
 - ◆ View the data?
 - ◆ Correct the data?
 - ◆ Ensure the accuracy of the data?
- ◆ 95/46/EC directive:
 - ◆ To what purpose is the data used?
 - ◆ Can data quality & safety be ensured?
 - ◆ Is the data sensitive?
 - ◆ Are you informed about its uses?
- ◆ Principle of Informed Consent:
 - ◆ I decide about my data.
 - ◆ First I need to know how it may be used.

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Surveillance



- ◆ Has always been an issue.
- ◆ Technology just got a lot better.
 - ◆ GPS.
 - ◆ Mobile phones.
 - ◆ Video cameras.
 - ◆ Automatic recognition (e.g. face).
 - ◆ Satellite, drones.
 - ◆ Computer monitoring.
 - ◆ Electronic transactions.

Surveillance technology improving

- Searchable face database (2014).
- Criminals + drivers + job applicants + ...



FBI's Facial Recognition Database Will Include Non-Criminals

By Jeremy Hsu

Posted 16 Apr 2014 | 13:00 GMT

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Surveillance technology improving

Your Hometown Newspaper

CAMBRIDGE TIMES.ca

Home > News > Business > Facial recognition working at Sochi

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Feb 14, 2014 | Vote [0](#) [0](#)

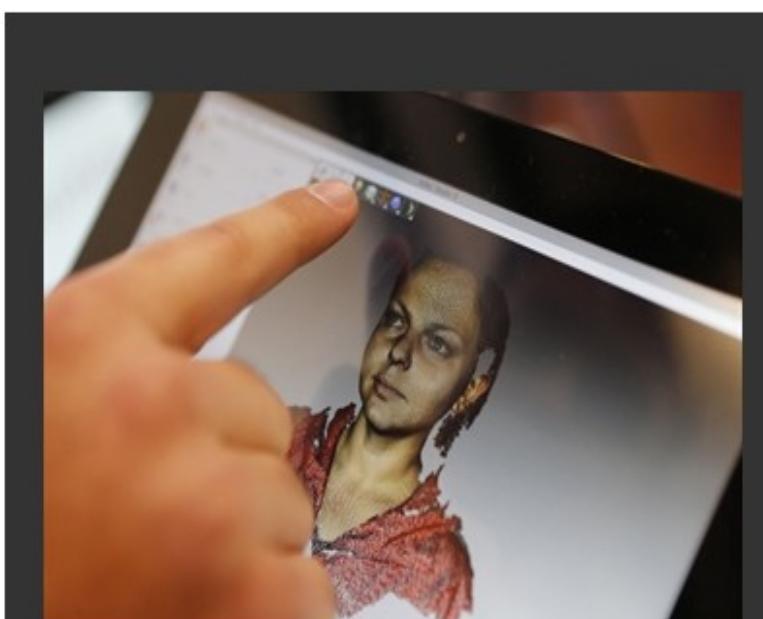
Facial recognition working at Sochi

Waterloo Region Record

By Heather Somerville

SAN JOSE, CALIF. — At the international airport in Sochi, Russia, the entry point for thousands of athletes, spectators and world leaders at the 2014 Winter Olympics, a state-of-the-art security system made by a Silicon Valley company is keeping watch.

Artec Group, a 3-D camera tech company founded in the valley by Russian engineers, has created facial recognition software that Sochi officials are using to improve airport security during the Games. The technology, which uses a 3-D camera to identify a person using their



Artec

<http://www.cambridgetimes.ca/news-story/4369866-facial-recognition-working-at-sochi/>

- Face recognition technology can find individuals in crowds.
- In use in airports (2014).

Surveillance technology improving

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HOMES

Biometric scanners that can identify people are poised for big growth in building security

Systems that can recognize by face, voice and build are rapidly being adopted by developers, and promise big financial savings as well

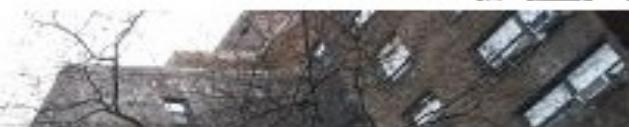
[Comments \(15\)](#)

BY BY MATT CHABAN / NEW YORK DAILY NEWS

FRIDAY, FEBRUARY 21, 2014, 2:00 AM

SHARE THIS URL:

nydn.us/NfRr1O



Surveillance: it can enter your home

The screenshot shows a news article from Computerworld. At the top, there's a yellow navigation bar with links for White Papers, Webcasts, and Newsletters. Below that is a dark navigation bar with tabs for Topics, News, In Depth, Reviews, Blogs, and Opinion. The main content area has a sidebar on the left under 'Security' with categories like Application Security, Cybercrime and Hacking, Cyberwarfare, Data, Mobile Security, and Privacy (which is highlighted). The main headline is 'Update: School district settles webcam spying suit for \$610,000'. The sub-headline says 'Lower Merion District was accused of snooping on students with school-issued laptop's webcam'. The author is listed as 'By Jaikumar Vijayan'. The article text discusses a lawsuit filed by Blake Robbins and his parents against the Lower Merion School District. It mentions that the district charged with remotely activating the webcam on Robbins' laptop to take thousands of pictures of him and his family members. The lawsuit was filed after a school official accused Blake of selling drugs and taking pills based on a photograph captured by the school computer at his home. The court documents accused the school of secretly monitoring students in their homes.

White Papers Webcasts Newsletters

Topics ▾ News In Depth Reviews Blogs ▾ Opinion

Security

Application Security | Cybercrime and Hacking | Cyberwarfare | Data
Mobile Security | **Privacy**

Home > Security > Privacy

News

Update: School district settles webcam spying suit for \$610,000

Lower Merion District was accused of snooping on students with school-issued laptop's webcam

By [Jaikumar Vijayan](#)

In February, Blake Robbins, a district high school student, and his parents, [filed a lawsuit against the school district](#) accusing it of spying on him in his home. The lawsuit charged Lower Merion with remotely activating the webcam on Robbins' laptop to take thousands of pictures of Blake and others members of his family, including some of Blake in his bedroom partially undressed, and some of him sleeping.

The lawsuit was filed after a school official accused Blake of selling drugs and taking pills based on a photograph captured by the school computer at his home. In court documents, lawyers for Blake accused Lower Merion

- ◆ School issued laptops.
- ◆ Used laptop webcams to secretly monitor students in their homes (2010).

Government surveillance

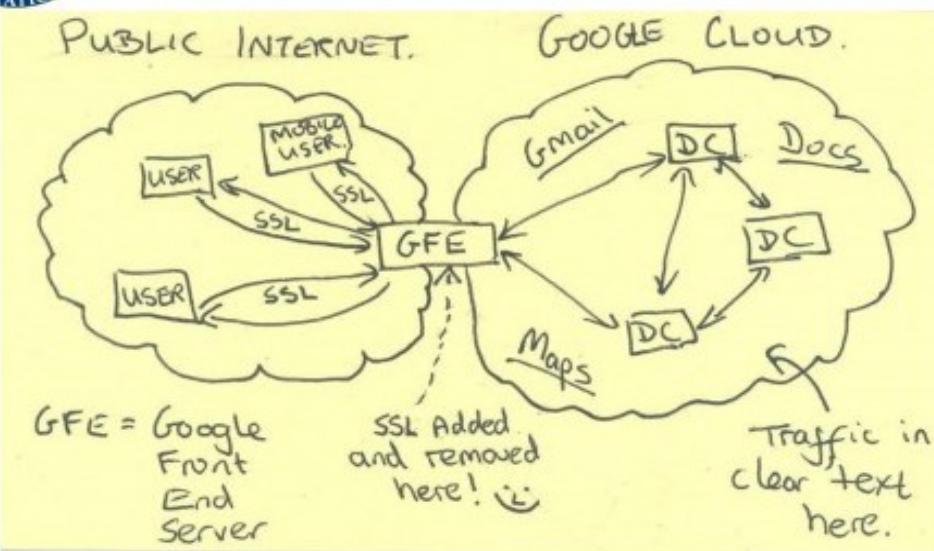
The Washington Post

NSA infiltrates links to Yahoo, Google data centers worldwide, Snowden documents say

TOP SECRET//SI//NOFORN



Current Efforts - Google



TOP SECRET//SI//NOFORN

In this slide from a National Security Agency presentation on "Google Cloud Exploitation," a sketch shows where the "Public Internet" meets the internal "Google Cloud" where user data resides. Two engineers with close ties to Google exploded in profanity when they saw the drawing.

The National Security Agency has secretly broken into the main communications links that connect Yahoo and Google data centers around the world, according to documents obtained from former NSA contractor [Edward Snowden](#) and interviews with knowledgeable officials.

By tapping those links, the agency has positioned itself to collect at will from hundreds of millions of user accounts, many of them belonging to Americans. The NSA does not keep everything it collects, but it keeps a lot.

Edward Snowden's Testimony to the European Parliament Committee on Civil Liberties, Justice and Home Affairs

On NSA surveillance systems: "I know the good and the bad of these systems, and what they can and cannot do, and I am telling you that without getting out of my chair, I could have read the private communications of any member of this committee, as well as any ordinary citizen. I swear under penalty of perjury that this is true."

<https://nakedsecurity.sophos.com/2014/09/16/just-how-much-information-can-be-squeezed-from-one-week-of-your-metadata/>

<http://www.scoop.co.nz/stories/HL1403/S00108/edward-snowdens-testimony-to-european-parliament-on-nsa.htm>

http://www.huffingtonpost.com/2013/11/26/nsa-porn-muslims_n_4346128.html

Turkish intel, security to get exclusive authority on personal data

Nuray Babacan
ANKARA

- ◆ Authority over personal data for:
 - ◆ police.
 - ◆ MIT.
 - ◆ gendarmerie.
- ◆ Citizens not informed of collection, can't learn.
- ◆ No inspections by Board for the Protection of Personal Data.

Government Surveillance

the guardian

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News > World news > The NSA files

Optic Nerve: millions of Yahoo webcam images intercepted by GCHQ

- 1.8m users targeted by UK agency in six-month period alone
- Optic Nerve program collected Yahoo webcam images in bulk
- Yahoo: 'A whole new level of violation of our users' privacy'
- Material included large quantity of sexually explicit images

Spencer Ackerman and James Ball

The Guardian, Friday 28 February 2014

<http://www.theguardian.com/world/2014/feb/27/gchq-nsa-webcam-images-internet-yahoo>

Some NSA Surveillance Efforts

Program	Description
ECHELON	1960s – Present. NSA Communications interception program.
THIN THREAD	Late 1990s. Smart analysis and capture of communications
TRAILBLAZER	Late 1990s – early 2000s. Analysis and capture of communications program. Whistleblowers persecuted.
STELLARWIND	2001-Present. A database of communications + datamining (successor to Thin Thread).
PRISM	2007-Present. Legal tapping of "cloud".
MUSCULAR	Present. Collaboration with UK spy agency to hack silicon valley etc. data centres.
...	...

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Turkey eavesdrops on almost 2,500 people, mostly foreigners

Published time: February 23, 2014 03:10

[Get short URL](#)

Turkey's deputy prime minister has revealed that the country's national spy agency is keeping tabs on almost 2,500 people, mostly foreigners. The news comes amid a parliamentary debate over expanding the bureau's espionage powers.

Tags

[Court](#), [Intelligence](#), [Internet](#), [Law](#), [Politics](#), [Turkey](#)

"As of today, National Intelligence Organization (MIT) eavesdrops on 2,473 people. More than half of them are foreigners," Deputy Prime Minister Besir Atalay said, as quoted by AFP.

Sub Categories: » HOMEPAGE / TURKEY/ LOCAL

Half million wiretapped in Turkey in last two years: Communications body

ANKARA - Anadolu Agency

More than half a million people have been wiretapped over the past two years in figures that the country's defense has declared 'out of hand,' according to Turkey's Telecommunications Directorate

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8

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Turkey's telecommunication authority TİB revealed that more than half a million people were wiretapped in various probes over the last two years. DHA photo

according to the report. Over the two years, some 509,516 people were tapped.

Turkey's telecommunication authority has revealed that more than half a million people were wiretapped in the last two years.

Turkey's Telecommunications Directorate (TİB) has been preparing a report on wiretapping amid reports that calls of several politicians, journalists and businessmen had been tapped.

A total of 257,545 people were wiretapped in 2012, and 252,062 people were wiretapped in 2013, some 1.1 million phone calls of

Companies do surveillance too

EDITION: INTERNATIONAL | U.S. | MÉXICO | ARABIC
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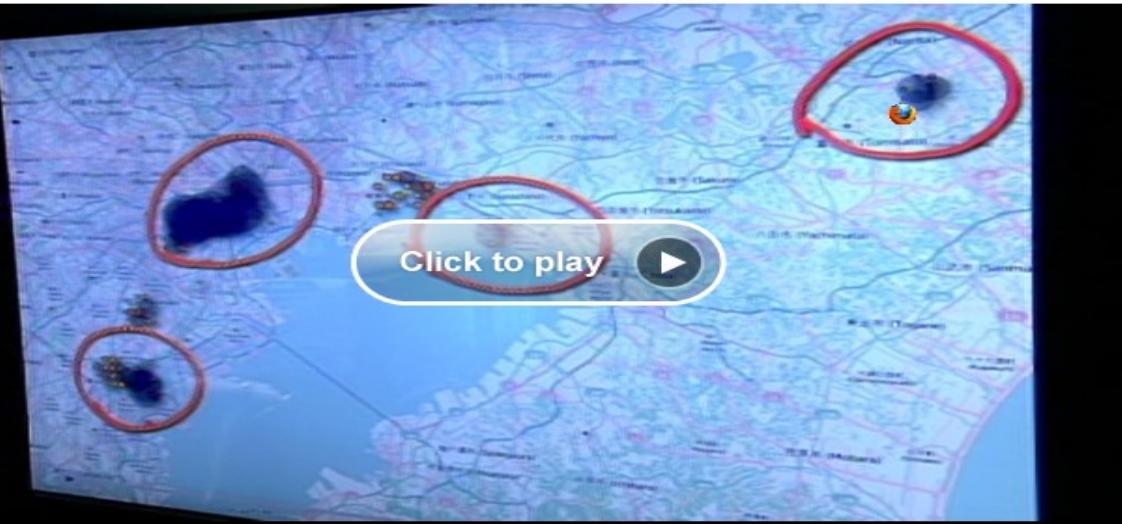
CNN

Home Video World U.S. Africa Asia Europe Latin America Middle East Business Wor...

Breaking news NATO, OSCE efforts to resolve the Ukraine standoff "are no dialogue, Russian FM Sergey Lavrov says.

Report: iPhones secretly track their users' locations

By John D. Sutter, CNN
April 21, 2011 -- Updated 1352 GMT (2152 HKT) | Filed under: **Mobile**



CNN tracks producer's iPhone

- ◆ iPhone sending location information home.
- ◆ Android and WindowsPhone also "phoning home" with locations.

STORY HIGHLIGHTS

- Apple iPhones and 3G iPads appear to log their users' locations

(CNN) -- Apple devices appear to be tracking their owners' locations and storing data about people's whereabouts without their knowledge, according to a report posted Wednesday on a site called iPhone Tracker.

<http://edition.cnn.com/2011/TECH/mobile/04/20/iphone.tracking/>

Surveillance: anyone can do it

The screenshot shows the Fox News website homepage. At the top, there is a search bar and a 'Search' button. To the right of the search bar, it says 'ON AIR NOW' with a thumbnail of a host and the text '3a^{et} Red Eye w/ Greg Gutfeld'. Below this, there is a 'WATCH LIVE' button. On the left, there is a 'Listen to Fox News Radio Live' button. The main navigation menu at the bottom includes links for Home, Video, Politics, U.S., Opinion, Entertainment, Tech, Science, Health, Travel, and a 'Fair & Balanced' link.

Chips in Official IDs Raise Privacy Fears

Published July 11, 2009 / Associated Press

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Climbing into his Volvo, outfitted with a Matrics antenna and a Motorola reader he'd bought on eBay for \$190, Chris Paget cruised the streets of San Francisco with this objective: To read the identity cards of strangers, wirelessly, without ever leaving his car.

It took him 20 minutes to strike hacker's gold.

Zipping past Fisherman's Wharf, his scanner detected, then downloaded to his laptop, the unique serial numbers of two pedestrians' electronic U.S. passport cards embedded with radio frequency identification, or RFID, tags. Within an hour, he'd "skimmed" the identifiers of four more of the new, microchipped PASS cards from a distance of 20 feet.

- ◆ RFID identity chips accessible by anyone nearby.
- ◆ Much unsecured data available.

Surveillance can improve policing

- ◆ Video recording:
 - ◆ Increases police accountability.
 - ◆ Reduces complaints (study on wearable cameras).
 - ◆ Exonerate both police and citizens.
 - ◆ Can result in retaliations by police.



CC BY/NC-SA
Kevin Lim / Flickr

<http://arstechnica.com/tech-policy/2014/06/candid-camera-part-1-five-times-video-footage-showed-police-misconduct/>

<http://arstechnica.com/tech-policy/2014/06/candid-camera-part-2-four-times-that-video-evidence-exonerated-cops/>

<http://www.policefoundation.org/content/body-worn-camera>

Facial recognition nabs 14-year fugitive in Nepal, FBI says

Wanted man was "very comfortable" and "never thought he would be discovered."

by David Kravets - Aug 13, 2014 7:20pm EEST

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90

WANTED
BY THE FBI

Unlawful Flight to Avoid Prosecution - Failure to Appear (Criminal Sexual Penetration in the First Degree, Kidnapping, Criminal Sexual Contact of a Minor, Bribery of a Witness, Battery)

NEIL STAMMER



Captured

Captured

Computer Ethics (English)

BLG412E

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What should the rules be on data collection?

What institutions should be able to collect
whose data?

Under what conditions?

Should they get permission? Inform individuals?

Global
Government
Surveillance
Reform

AOL



Dropbox

facebook

Google

LinkedIn

Microsoft



YAHOO!

The value of data collection for business

- ❖ Competitive advantage from information.
- ❖ Targeted ads, marketing.
- ❖ Automatically improving processes.

<http://pando.com/2013/12/16/googles-for-profit-surveillance-problem/>

<http://www.economist.com/node/15557431>



i Our cookie policy has changed. Review our [cookies policy](#) for more details and to change your cookie preferences.

[Special report: Managing information ▾](#)

Clicking for gold

How internet companies profit from data on the web

<http://www.theglobeandmail.com/globe-debate/follow-your-data-from-your-phone-to-the-marketplace/article17056305/>

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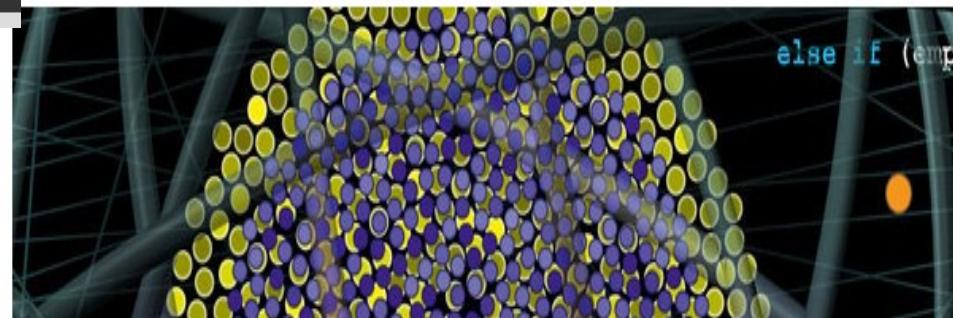
LIFE AFTER PRIVACY

How Big Data profits from your personal information

STUART A. THOMPSON, SUSAN KRASHINSKY AND SHANE DINGMAN

The Globe and Mail

Published Monday, Feb. 24 2014, 7:04 PM EST



How internet surveillance works (example)

- ◆ Cookies.
- ◆ Flash cookies.
- ◆ Javascript.
- ◆ Bugs.
- ◆ IP address.
- ◆ Form information.
- ◆ HTTP headers.

Example

Google Analytics

- Serve cookies through many different sites.
- Learn your IP address.
- Can combine with google account.

Browse at

Your Own

RISK

EVEN WITHOUT
COOKIES, FINGERPRINTING
LETS ADVERTISERS
TRACK YOUR EVERY
ONLINE MOVE

"Data Monetisation" mainstream business



REUTERS EDITION: UK ▾

SIGN IN

HOME BUSINESS MARKETS WORLD UK TECH MONEY OPINION BREAKINGVIEWS

Telecom firms mine for gold in big data despite privacy concerns

BY LEILA ABBoud

BARCELONA Sun Feb 23, 2014 10:10am GMT

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Big carriers like Telefonica, Verizon, Orange and Singapore's Starhub warn that they are only just starting to test the waters and pledge to market only anonymous crowd information to protect customers.

上海日报
ShanghaiDaily.com

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HOME » LATEST NEWS

Chinese Internet firms dig big data gold

Feb 19, 2014

by Xinhua writers Cheng Lu and Wang Wen

BELJING, Feb. 19 (Xinhua) -- Chinese Internet companies have been exploring business opportunities based on big data analytics during the world's largest human migration.

Anonymised data is not really anonymous

- ◆ Latanya Sweeney: 2000: 87% of Americans uniquely identifiable with 3 pieces of information.
- ◆ Anonymised health insurance data used to identify people who released it .
- ◆ Anonymous AOL search logs: users identified from searches.
- ◆ Anonymised twitter logs: users identified via flickr links, twitter network.
- ◆ Anonymised netflix logs: user preferences matched to IMDB profiles.
- ◆ Many many more.

<http://arstechnica.com/tech-policy/2009/03/pulling-back-the-curtain-on-anonymous-twitterers/>

http://news.cnet.com/2100-1030_3-6103098.html

<http://www.securityfocus.com/news/11497>



c|net

Mobile World **CONGRESS**
2014 Special Coverage

English ▾ Reviews News

AOL's disturbing glimpse into
users' lives

By Declan McCullagh
Staff Writer, CNET News

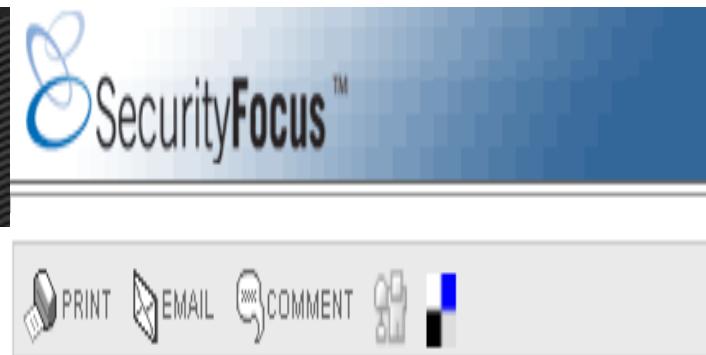


ars technica

Pulling back the curtain on “anonymous”
Twitterers

University of Texas researchers have shown that they can "de-anonymize" ...

by Nate Anderson - Apr 1 2009, 5:20am EEST



SecurityFocus™

PRINT EMAIL COMMENT

Researchers reverse Netflix anonymization

Robert Lemos, SecurityFocus 2007-12-04



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LAW & DISORDER / CIVILIZATION & DISCONTENT

Poorly anonymized logs reveal NYC cab drivers' detailed whereabouts

Botched attempt to scrub data reveals driver details for 173 million taxi trips.

by Dan Goodin - June 23 2014, 9:25pm EEST

GOVERNMENT PRIVACY 28

Data collection example: Google street view

Mobile World **CONGRESS**
2014 Special Coverage

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tyco Integrated Security / Trust your security to the security ex

CNET > News > Privacy Inc. > StreetView cars grabbed locations of phones, PCs

Street View cars grabbed locations of phones, PCs

scoop Google's Street View cars collected the locations of millions of laptops, cell phones, printers, and other Wi-Fi devices around the world, CNET has learned.

by Declan McCullagh | July 25, 2011 12:14 AM PDT

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Enterprise SAS & SATA SSDs

MUST READ: *SaaS puts the CMO in the driver's seat*

Topic: Google Discover Follow via: 

Google admits Street View cars collected e-mails, passwords

Summary: After analyzing the unencrypted WiFi payload data captured by its Street View cars, Google now admits that the system captured entire e-mails, URLs and even user passwords.

 By Ryan Naraine for Zero Day | October 23, 2010 -- 16:00 GMT (09:00 PDT)

Follow @ryanaraine



Data collection example: Facebook faces

The Telegraph

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Technology News | Technology Companies | Technology Reviews | Video Games | Technology V

HOME » TECHNOLOGY » FACEBOOK

Facebook defends using profile pictures for facial recognition

Facebook has defended its plans to use profile pictures to identify members using its controversial facial recognition technology.



- ◆ Opt-out:
 - ◆ Only applies to automatic tagging.
 - ◆ Face recognition still can happen.

Data collection: Data brokers

COMMUNICATIONS
OF THE
ACM

Data Brokers Are Watching You

By Gary Anthes

Communications of the ACM, Vol. 58 No. 1, Pages 28-30

10.1145/2686740

- ◆ Data:
 - ◆ Collected without consent.
 - ◆ Mined, analysed, integrated.
 - ◆ Sold on.



Computer Ethics (English)

BLG412E

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What should it be possible to do with this data?

- ❖ Will data be used for something other than original purpose?
- ❖ Who is allowed to access the data?
 - ❖ Technicians?
 - ❖ Managers?
 - ❖ Clerical workers?
- ❖ Whose data?

Opportunities to misuse data are many

The screenshot shows the header of The Register website with a red background. The main title 'The Register®' is in large white letters. Below it is a grey navigation bar with links: Hardware, Software, Music & Media, Networks, Security, Cloud, Public Sector, Business, and Science. Underneath the navigation bar, there are social sharing buttons for Print and Tweet, and an 'Alert' button. The main headline reads 'Oz 'pseudo-ID card' database racked by identity fraud claims'. Below the headline, it says '19 sacked, 92 resigned'. The author is listed as 'By OUT-LAW.COM · Get more from this author'. The article was posted on '28th August 2006 08:02 GMT'.

- ◆ Australia's citizen database used for personal means by staff (2006).
- ◆ Including identity fraud.

Australia's citizen database was routinely searched for personal reasons by government agency employees, some of whom have been sacked. Police are now investigating allegations of identity fraud resulting from the security breaches.

There were 790 security breaches at government agency Centrelink involving 600 staff. Staff were found to have inappropriately accessed databases containing citizens' information.

The situation has not improved in recent years

The screenshot shows the ITV News homepage with a navigation bar at the top featuring links for Player, Shows, Guide, News, Sport, and More. Below the navigation bar, there are links for News, Regions, Topics, Entertainment, Meet the team (which is underlined), and Top news. The main content area displays a news article with a timestamp of 8:58AM, TUE 11 FEB 2014, and the headline "HUNDREDS OF POLICE STAFF FORCED TO QUIT FOR SNOOPING". The article title is "Almost 300 police staff forced to quit over data misuse". It was last updated on Tuesday 11 Feb 2014. The article is categorized under UK • Police. A brief summary states that hundreds of police staff, including high-ranking officers, have been censured for breaching data protection laws. At the bottom of the article is a close-up photograph of a police officer's badge.

- ◆ UK Police using data to:
 - ◆ Spy on family, friends.
 - ◆ Spread rumours.
 - ◆ Give names to media.
 - ◆ ...

(2014)

Public records often available to other parties

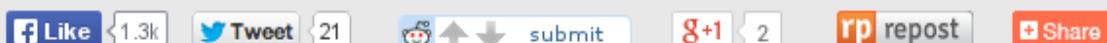


The screenshot shows the Bill Moyers & Company website. At the top is a black header with the "Moyers & company" logo, which features a stylized graphic of overlapping colored squares (blue, red, yellow, green) followed by the word "Moyers" in a white script font and "& company" in a smaller orange sans-serif font. Below the header is a navigation bar with links: HOME, TOPICS, VIDEO, TAKE ACTION, SHOWS, MOYERS MOMENTS, GUESTS, TV, SPOTLIGHT, Liberalism, Bill's Essays, Net Neutrality, Climate Change, Economic Inequality, and Democracy.

MOYERS MOMENTS

Look Who's Selling Your Voting Records

March 12, 2014



Through her research, Angwin discovered that over 200 data brokers had information on her, in one of the “least transparent” industries in America. Of those brokers, about a dozen would let her view her personal information (and when she did, she found some major inaccuracies, such as the names of previous employers) and less than half allowed her to opt out. Some sites even required her to submit her driver’s license number, social security information or pay a fee to complete the opt-out process.

Spyware and smartphones: how abusive men track their partners

- ◆ Hidden apps:
 - ◆ Tap phone calls.
 - ◆ Track location.
 - ◆ Copy messages.
 - ◆ Use camera.
- ◆ With or without consent:
 - ◆ A long leash.

Computer Ethics (English)

BLG412E

4: Privacy

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Issues:

- Surveillance.
- Information collection.
- Data use.
- Data transfer. ←
- Data merging & matching.
- Data mining.
- Security of data.

Measures:

- By law.
- By businesses.
- By individuals.

To whom should it be possible to transfer data?

- ◆ Ad providers?
- ◆ Business partners?
- ◆ Police?
- ◆ State security institutions?
- ◆ Creditors?
- ◆ Interested individuals?
- ◆ Should permission be sought?

Public institutions often provide personal data

- ◆ Murderer obtained address via car registration agency.
- ◆ Subsequently, "Driver's Privacy Protection Act (1994)".

The screenshot shows a news article from the Investigation Discovery website. The main title is "INVESTIGATION DISCOVERY". Below it, the specific article title is "Hollywood Crimes : Rebecca Schaeffer". On the left sidebar, there is a list of other "Hollywood Crimes" including Marvin Gaye, Phil Hartman, Erik and Lyle Menendez, Marilyn Monroe, and Ramon Novarro. The main article text begins with "The Dawn of Stalking: The Murder of Rebecca Schaeffer" and describes her rise to fame and the tragic event. To the right of the text is a small, blurry portrait of Rebecca Schaeffer.

Hollywood Crimes : Rebecca Schaeffer

Hollywood Crimes

Marvin Gaye

Phil Hartman

Erik and Lyle Menendez

Marilyn Monroe

Ramon Novarro

The Dawn of Stalking: The Murder of Rebecca Schaeffer

Twenty-one-year-old fresh-faced beauty Rebecca Schaeffer was co-star of the popular 1980s sitcom *My Sister Sam*. Schaeffer quickly climbed the Hollywood ladder of success before a crazed fan,



Institutions change their policies / situations

The header of the Wired.com website features the word "WIRED" in large, bold, white capital letters on a black background. Below it, a horizontal menu bar contains links for "SUBSCRIBE", "SECTIONS", "BLOGS", "REVIEWS", "VIDEO", and "RSS".

POLITICS : LAW

Toysmart Settles: Database Killed

Associated Press 01.10.01

WASHINGTON -- In a case that could affect other fledgling dot-coms, a defunct online toy store will be paid \$50,000 and have its customer database destroyed rather than being sold off to pay creditors, federal regulators said Tuesday.

Toysmart.com assured its customers that their personal information would never be shared with a third party, but the company took out an advertisement in *The Wall Street Journal* to sell the database after going out of business last May.

Internet privacy activists protested, claiming that if the sale of that information were allowed, it could encourage a wave of other failing dot-coms to abandon privacy assurances in return for cash.

- ◆ Company promised to keep customer data confidential.
- ◆ Went bankrupt, tried to sell data to pay debts (2001).

<http://www.wired.com/politics/law/news/2001/01/41102>

Institutions change their policies / situations



Home | Archives | Tags | Best of RWW | Featured: [ReadWriteCloud](#) | [RWW Solution Series](#)

While Facebook & Twitter Sit on Sidelines, MySpace Jumps Into Bulk User Data Sales

By [Marshall Kirkpatrick](#) / March 12, 2010 10:30 AM / [View Comments](#)

[Tweet](#)



MySpace has taken a bold step and allowed a large quantity of bulk user data to be put up for sale on startup data marketplace InfoChimps. Data offered includes user playlists, mood updates, mobile updates, photos, events, reviews, blog posts, names and zipcodes. Friend lists are not included. Remember, Facebook and Twitter may be the name of the game these days in tech circles, but MySpace still sees 1 billion user status updates posted every month. Those updates will now be available for bulk analysis.

This user data is intended for crunching by everyone from academic researchers to music industry information scientists. Will people buy the data and make interesting use of it? Will MySpace users be ok with that? Is this something Facebook and Twitter ought to do? The MySpace announcement raises a number of interesting questions.

- ◆ Myspace monetising data by selling it (2010).
- ◆ Names, locations, writings, photos, likes,...

https://www.readwriteweb.com/archives/myspace_bulk_data.php

Institutions reserve their rights to do new things

facebook

Email
 Keep me logged in

Sign Up Facebook helps you connect and share with the people in your life.

SOCIAL CAMPAIGN

U.S. Politics on Facebook...

Get Notes via RSS

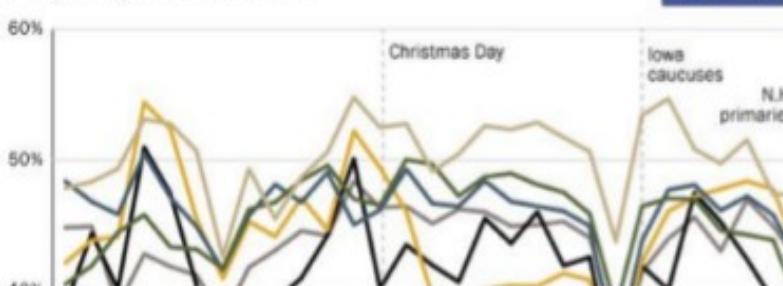
Politico, Facebook Team Up to Measure GOP Candidate Buzz
by U.S. Politics on Facebook on Thursday, January 12, 2012 at 7:16am

WASHINGTON, DC - January 12, 2012 - POLITICO is joining forces with Facebook to offer its readers an exclusive look at the conversation taking place on the social networking site about the Republican presidential candidates ahead of South Carolina's crucial primary on Jan. 21.

Facebook will measure mentions of the candidates in U.S. users' posts and comments as well as assess positive and negative sentiments expressed about them. Facebook's data team will use automated software tools frequently used by researchers to infer sentiment from text. This aggregate information will be exclusively available on POLITICO with analysis by its journalists. The first set of data can be found [here](#).

NEGATIVE FACEBOOK MENTIONS BY CANDIDATE
Facebook measured the volume of its users' status updates, postings and comments over the last month to gauge the amount of social traffic around the Republican presidential contenders.

In partnership with **facebook**



- Facebook shares data with partners.
- Analysis of presidential candidate popularity (2012).

Data transfer: business to government

Tech companies say tens of thousands of user accounts were subject to national security spying

BY **TIMOTHY B. LEE**  February 3 at 3:51 pm



Several of the nation's leading technology companies released new data on Monday detailing the extent of NSA surveillance of their users. Numbers released by Yahoo, Google, Microsoft, LinkedIn and Facebook show that in the first six months of 2013, the NSA submitted requests for private information from at least 59,000 user accounts.

Of the five companies, Yahoo appears to have been the favorite of NSA analysts. The Sunnyvale company received national security requests for "content" from [at least 30,000 users](#). Microsoft [fielded](#) requests affecting at least 15,000 accounts, while Google requests affect 9,000 user accounts. Facebook [said](#) that its requests affect at least 5000 users. LinkedIn said it received fewer than 250 national security requests.

The companies may also have received requests for "non-content" information, such as data about the times, senders, and recipients of e-mail messages. Yahoo, Google, Facebook, and Microsoft all said they received fewer than 1,000 of these in the first half of 2013.

Computer Ethics (English)

BLG412E

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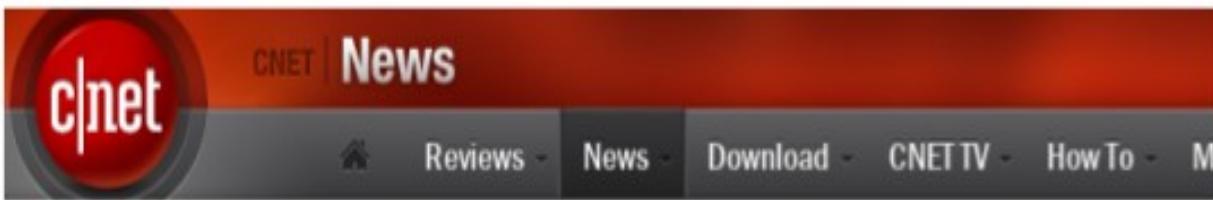
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- By individuals.

Merged data valuable for businesses



CNET > News > News - Digital Media

March 2, 2000 5:10 PM PST

DoubleClick postpones data-merging plan

By Evan Hansen

Staff Writer, CNET News

Related Stories

Consumer group blasts DoubleClick in report to FTC

March 1, 2000

Is DoubleClick privacy plan adequate?

Bowing to pressure from privacy advocates and consumers, online advertising giant DoubleClick today said it will hold off on plans to combine online and offline data that it collects on consumers.

"It is clear...I made a mistake by planning to merge names with anonymous user activity across Web sites in the absence of government and industry privacy standards," DoubleClick CEO Kevin O'Connor said in a [statement](#) on the company's Web site.

- ◆ Online ad company planned to combine online & offline data.
- ◆ Names to be connected to website activity.
- ◆ Subsequently bought by google.

<http://news.cnet.com/2100-1023-237532.html>

http://www.businessweek.com/magazine/content/11_12/b4220038620504.htm

ANONYMISATION

Merged data valuable for businesses

Forbes

Clare O'Connor, Forbes Staff

The consumer economy: retail, and the people reinventing it.

+ Follow (1,045)

 Follow 4.7k

RETAIL | 3/11/2014 @ 3:43PM | 1,918 views

Twitter Goes To The Mall: Social Giant Will Use Big Data To See Where You Shop

+ Comment Now + Follow Comments



Twitter's Colorado-based marketing company Datalogix has access to rich databases of your personal information shared with them by 1,500 retailers, mostly through customer loyalty programs (think a My Starbucks Rewards card or Walgreens' Balance Rewards) or mail-order sales.

Twitter provides Datalogix with a list of email addresses of all users who've seen a Promoted Tweet. Datalogix then cross-references their database, matching users who've bought a bathing suit at the Gap in the 30 days following that tweet ad.

1. Twitter tweets + retailer loyalty programs combined via (hashed) emails.

2. Profit.

Home devices now internet connected: data can be used

GIGAOM

EVENTS

RESEARCH

JOBS

APPLE CLEANTECH CLOUD DATA EUROPE MEDIA MOBILE

google / nest labs / tony fadell

Google to acquire connected home device maker Nest for \$3.2B

by [Jeff John Roberts](#) JAN. 13, 2014 - 1:11 PM PDT

Google announced on Monday that it's in the process of acquiring Nest Labs, a home-automation company known for its digital thermostats and smoke alarms. The proposed purchase for \$3.2 billion, which is to close in coming months, will give the Silicon Valley giant one of the hottest names in energy-management technology and product design, and comes at a time when Google is also expanding its presence in robotics, energy and internet-of-things (IoT) technology.

The search giant announced the news in a [blog post](#):

Nest's mission is to reinvent unloved but important devices in the home such as thermostats and smoke alarms. Since its launch in 2011, the Nest Learning

Shaw) Connect | Expand ▾

ON TV: Bake With Anna Olson



NATIONAL

LOCALS

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THE INTERNET OF THINGS

March 4, 2014 8:40 pm

Internet of Things has potential but raises security, privacy issues

By James Armstrong Global News

Comments

Facebook 18

Twitter 37

Google+

Email

Print

PLAY VIDEO



The Internet of Things: Challenges

- ❖ Personal information:
 - ❖ Time spent in home.
 - ❖ House temperature.
 - ❖ Video monitoring.
 - ❖ Heart rate!
- ...
- ❖ All mixed up in cloud with emails, browsing history, etc.

Computer Ethics (English)

BLG412E

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- By individuals.

Data-mining: Whose data?

SILICON VALLEY
BUSINESS JOURNAL

Class-action Gmail lawsuit seeks trillions



Eric Van Susteren

Digital Producer
Silicon Valley Business Journal
[Email](#) | [Twitter](#)

Plaintiffs in a class-action lawsuit against Google Inc. want the company to pay \$100 per day to each of the email users whose accounts were allegedly improperly scanned by the company over a 5-year period.

The case would seek damages for anyone who sent or received a message from Google's Gmail during that time, meaning Google would have to pay trillions in damages based on the plaintiffs' claims, according to the San Francisco Chronicle.



- Gmail scans users' emails for content.
- People who send you an email did not opt-in.
- Legal case hinges on data storage vs. wiretap.

Datamining → profiling

Chicago's Controversial New Police Program Prompts Fears Of Racial Profiling

The Huffington Post | by Joseph Erbentraut

Posted: 02/25/2014 6:25 pm EST | Updated: 02/25/2014 6:59 pm EST



A controversial new policing strategy being touted by Chicago's top cop for helping reduce gang violence is raising questions over its possible racist implications.

On Tuesday, Chicago Police Superintendent Garry McCarthy held a news conference to discuss his department's pilot program which, as McCarthy describes it, involves officers visiting the homes of individuals they identify as likely victims or perpetrators of crime **almost immediately on the heels of violence erupting in their neighborhoods.**

Those visited by officers as part of the program, which has been deployed so far in six predominantly black police districts on the city's West and South Sides, are offered **social services** such as job training to help them avoid a life of crime, McCarthy said Tuesday, according to NBC Chicago.

Each of the individuals visited appear on a "heat list" compiled by the police department. The list is part of a department-wide strategy that relies on a "rank-order list of potential victims and subjects with the greatest propensity for violence" based on data crunched using an algorithm developed by an Illinois Institute of Technology engineer.

- ◆ Datamining predicts likely criminals.
- ◆ Added to a "heat list".
- ◆ Issues:
 - ◆ Lack of transparency
 - ◆ Race focus.
 - ◆ Justification of stereotypes.
 - ◆ Stigmatisation.
 - ◆ Vicious cycle.

Data-mining: a thought experiment

- 1) You apply for credit and give details to the bank.
- 2) System mines those records.
- 3) System: İTÜ graduates with $\text{GPA} > 2.5$ and $\text{GPA} < 3.25$ who start businesses are 35% likely to default on business loans.
- 4) Try getting a loan now.

Computer Ethics (English)

BLG412E

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It just takes one mistake to lose data

- Internet Service Provider accidentally posted search histories of 650,000 people.

The screenshot shows a news article from CNET News. The header includes the CNET logo, a red 'News' button, and a link to 'Manage Packages With UPS My Choice'. Below the header are navigation links for 'Reviews', 'News', 'Download', 'CNET', 'How To', and 'M'. The main headline reads 'AOL's disturbing glimpse into users' lives'. The byline says 'By Declan McCullagh Staff Writer, CNET News'. A 'Related Stories' sidebar lists 'AOL apologizes for release of user search data' and 'Google, feds face off over search records'. The main text discusses AOL's publication of search histories and its impact on privacy.

CNET | News Manage Packages With UPS My Choice

Reviews News Download CNET How To M

CNET > News > Corporate & legal

August 7, 2006 8:05 PM PDT

AOL's disturbing glimpse into users' lives

By Declan McCullagh
Staff Writer, CNET News

Related Stories

AOL apologizes for release of user search data

August 7, 2006

Google, feds face off over search records

AOL's publication of the search histories of more than 650,000 of its users has yielded more than just one of the year's bigger privacy scandals.

The 21 million search queries also have exposed an innumerable number of life stories ranging from the mundane to the illicit and bizarre.

For its part, AOL [has apologized](#) for a researcher's disclosure of the massive database and has yanked the file from its Web site. It was too late: The database already had been mirrored.

The biggest institutions can lose data

the guardian

News | Sport | Comment | Culture | Business | Money | Life & style |

News > Politics

3.30pm GMT update

Brown apologises for data blunder

Deborah Summers, politics editor, and Allegra Stratton
guardian.co.uk, Wednesday 21 November 2007 15.53 GMT



Gordon Brown at prime minister's question time on November 21 2007. Photograph: PA Wire

The government has apologised to the country for the loss of two CDs containing the personal information of 25 million people. Gordon Brown, the prime minister, today faced down loud barracking and made an official apology for the loss of the discs. The CDs are still missing.

British government lost CDs containing child benefit records of 25 million people (2007).

Data can be intentionally released

The screenshot shows a news article from The Register. The header features the site's logo 'The Register' in a large, white, stylized font on a red background. Below the logo is a navigation bar with links: Hardware, Software, Music & Media, Networks, Security, Cloud, Public Sector, Business, Science, Government, Law, and Policing. The main headline reads 'Every Italian's tax bill published online Makes UK government look like amateurs'. Below the headline, it says 'By John Oates · Get more from this author' and 'Posted in Government, 1st May 2008 09:20 GMT'. At the bottom of the article, there is a summary: 'The British government might be useless at keeping our data safe, but the outgoing Italian government has gone one better - it has published the tax details of every single Italian on a website and made them available to anyone interested.' There are also social sharing buttons for Print and Tweet, and an 'Alert' button.

- Italian government published income and tax details of every citizen.
- They did it on purpose.
- Later site was closed.

The Italian revenue deliberately published the information in an effort to increase transparency and reduce tax evasion.

Not all overseas

OFFICE OF INADEQUATE SECURITY

YOUR INFO, THEIR SCREW-UPS.

Home About Breach Laws Privacy Policy

Feb
29
2012

Redhack hits Ankara police website

Breach Incidents, Government Sector, Hack, Non-U.S.

Another law enforcement site, this one in Turkey, hit. ANF reports:

- Hacker group took and published files from Ankara police, containing personal data of informants.

“

The website of the police headquarter in Ankara has been hacked by Redhack in the organization of 'AntiSec' formation. Panicked after the attack, the police shut down all their servers, writes the Redhack site, but they could not prevent Redhack from getting the files.

<http://www.databreaches.net/redhack-hits-ankara-police-website/>

<http://www.ibtimes.co.uk/redhack-hackers-turkey-police-informants-anonymous-363377>

Data breaches happen a lot (March 11 2014)

Google search results for "data breach":

- Web News Images Video
- About 64,200 results (0.25 seconds)
- [Target's chief information officer is stepping down in wake of data ...](#)
Washington Post - Mar 5, 2014 Share
- [Loyaltybuild reopens for business after huge data breach](#)
Irish Times - 15 hours ago Share
- [UNI Still Searching for Answers After Possible Data Breach](#)
KCRG - Mar 11, 2014
- [University of Maryland, College Park data breach slightly smaller ...](#)
Baltimore Sun (blog) - by Scott Dance - 10 hours ago Share
- [Assisted Living Concepts alerts employees to data breach](#)
Chicago Tribune - by Becky Yerak - 11 hours ago Share
- [Seattle Archdiocese, FBI investigate data breach](#)
KING5.com - Mar 11, 2014 Share

- Every day new (big) data breaches are reported in the news.

[NHS England patient data 'uploaded to Google servers', Tory MP says](#)
The Guardian - by Randeep Ramesh - Mar 4, 2014 Share
Dr Sarah Wollaston MP tweeted: 'So HES [hospital episode statistics] data uploaded to 'google's immense army of servers', who consented to ...'

 [NHS patient data made publicly available online](#)
Wired.co.uk - by Olivia Solon - Mar 3, 2014 Share
The shambles that is NHS England's Care.data patient **data sharing** scheme ... An HSCIC spokeswoman told us: "The link to this tool has been ... We are investigating urgently the source of the data used by Earthware UK and ... + Show more

Computer Ethics (English)

BLG412E

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Privacy law in the USA: a *mismash*

- ◆ Federal Trade Commission (FTC) Act (1914).
 - ◆ Unfair or deceptive practices.
- ◆ Video Privacy Protection Act (1988).
 - ◆ Applies to video sale.
- ◆ Health Insurance Portability and Accountability Act (1996).
 - ◆ Health related information.
- ◆ Driver's Privacy Protection Act (1994).
 - ◆ When government institutions can release information without consent
(includes use by employers, private eyes...)
- ◆ Financial Services Modernization Act (1999).
 - ◆ Financial information security, consent measures vary.

<http://uk.practicallaw.com/6-502-0467>

<http://arstechnica.com/tech-policy/2008/04/suit-accuses-blockbuster-facebook-of-privacy-law-violations/>



ars technica

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LAW & DISORDER

Suit accuses Blockbuster, Facebook of privacy law violations

A Texas woman has sued Blockbuster over its activities relating to Facebook's ...

by Jacqui Cheng - Apr 18 2008, 7:24pm EEST

Privacy law in the USA: FTC's Code

- ❖ Code of Fair Information Practices (guideline):
 - ❖ Notice/awareness.
 - ❖ Choice/consent.
 - (but purpose can be vague – e.g. 3rd parties, data market)
 - (and frequently are vague)
 - ❖ Access/participation.
 - ❖ Integrity/security.
 - ❖ Enforcement/redress.
 - (this code is not enforced in the USA)

USA is pushing for a new law

the WHITE HOUSE PRESIDENT BARACK OBAMA



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the ADMINISTRATION

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The White House

Office of the Press Secretary

E-Mail

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Share



For Immediate Release

February 23, 2012

We Can't Wait: Obama Administration Unveils Blueprint for a "Privacy Bill of Rights" to Protect Consumers Online

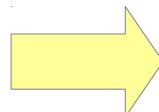
Internet Advertising Networks Announces Commitment to "Do-Not-Track" Technology to Allow Consumers to Control Online Tracking

WASHINGTON, DC – The Obama Administration today unveiled a "Consumer Privacy Bill of Rights" as part of a comprehensive blueprint to improve consumers' privacy protections and ensure that the Internet remains an engine for innovation and economic growth. The blueprint will guide efforts to give users more control over how their personal information is used on the Internet and to help businesses maintain consumer trust and grow in the rapidly changing digital environment. At the request of the White House, the Commerce Department will begin convening companies, privacy advocates and other stakeholders to develop and implement enforceable privacy policies based on the Consumer Privacy Bill of Rights.

EU's new data protection law (2014)

95/46/EC directive (principles):

- ◆ To what purpose is the data used?
- ◆ Can data quality & safety be ensured?
- ◆ Is the data sensitive?
- ◆ Are you informed about its uses?



New law:

- ◆ Big fines for misuse, neglect.
- ◆ Right to be forgotten.
- ◆ Explicit consent.
- ◆ Individual access to data.
- ◆ Countries responsible for policing.

COMPUTERWORLD

– it-nyheter døgnet rundt

IDG – verdens største mediehus innen IT

Security | Software | IT Management | Virtualization | Operating systems | Hardware Systems | Co

IDG News Service >

Europe approves new data protection law, tech industry reps dismayed

o Jennifer Baker

12.03.2014 kl 15:07 | IDG News Service\Brussels Bureau

g+1 0

Tweet 1

The right to data protection was underlined by European politicians on Wednesday as the European Parliament voted by a huge majority in favour of new laws safeguarding citizens rights.

<http://news.idg.no/cw/art.cfm?id=23A81939-E3C1-BC3B-AEE6FDDC90BEDAE7>

"Right to be forgotten" – potential for misuse?

- ◆ Government & corporate censorship.
- ◆ e.g. Merrill Lynch:

The
disappeared
article:

The screenshot shows a BBC News website layout. At the top, there is a dark navigation bar with the BBC logo, a 'Sign in' link, and categories for News, Sport, Weather, Capital, TV, and Radio. Below this is a red header bar with the word 'NEWS' on the left and 'Peston's Picks' on the right. The main content area has a light gray background. The article title 'Merrill's mess' is displayed in bold black text above a horizontal line. To the left of the title is the author's name, 'Robert Peston', and to the right is a timestamp '09:19 UK time, Monday, 29 October 2007'. Further to the right is a 'Comments' link and social sharing icons for Facebook and Twitter. The article text discusses Stan O'Neal's challenges at Merrill Lynch due to massive losses from sub-prime lending. A small portrait photo of Stan O'Neal is visible in the bottom right corner of the article area.

US/EU data-sharing

EU/US data sharing agreements exist (troubled).

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Search euronews.co

home > European Affairs > European Parliament calls for suspension of US data-sharing

EUROPEAN AFFAIRS | Brussels bureau

European Parliament calls for suspension of US data-sharing

12/03 17:50 CET



MEPs have threatened to block a free trade deal between the US and the EU if Washington fails to stop its mass spying activities.

The call came in a non-binding European Parliament resolution that follows a six-month inquiry, which took testimony from fugitive whistleblower Edward Snowden.



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NEWS

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Page last updated at 13:59 GMT, Thursday, 11 February 2010

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European Swift bank data ban angers US

The European Parliament has blocked a key agreement that allows the United States to monitor Europeans' bank transactions - angering Washington.

The US called the decision a "setback for EU-US counter-terror co-operation".



GETTY IMAGES

Tracking funding has been a priority for the US since 9/11

INSIDE EUROPE

LATEST NEWS

Barroso backs

LISBON TREATY

Q&A: The List

Q&A: EU Exte

UK AND EUROP

Data protection law in Turkey

- ❖ Constitution/anayasa (1982):
 - ❖ Respect for family and private life (exceptions for law).
 - ❖ Right to request data protection.
 - ❖ Notice, access, consent, purpose-consistent.
 - ❖ Secrecy of communication fundamental.

Data protection law in Turkey

- ❖ Law on the Right to Information/Bilgi Edinme Hakkı Yasası (2003/2004):
 - ❖ Access to information held by public institutions.
 - ❖ Restrictions on access to private/commercially sensitive information.

What constitutes public records?



Public officials' personal texts and e-mails subject of open records flap

States grappling over whether officials' private communications can be disclosed.

by David Kravets - June 28 2014, 8:30pm EEST

ACTIVISM LAWSUITS WEB CULTURE

69

California's top court agreed Friday to decide whether government employees' personal texts and e-mails are subject to disclosure under public records law.

Data protection law in Turkey

- ◆ Civil Law/Medeni Kanunu (2002):
 - ◆ Compensation for privacy violations.
- ◆ Criminal Code/Ceza Kanunu (2004):
 - ◆ Unlawful recording of sensitive, personal data: prison.
 - ◆ Keeping data beyond legal limit: prison.
- ◆ Also:
 - ◆ Labour Law/İş Kanunu.
(confidentiality of employee data).
 - ◆ Banking Law/Bankacılık Kanunu.
(confidentiality of customer data).
 - ◆ Medical Deontology Decree/Tıbbi Deontoloji Tüzüğü (1960).
(confidentiality of patient data).
 - ◆ Bank Cards and Credit Cards Law/Banka Kartları ve Kredi Kartları Kanunu.
(don't keep credit card data)

Computer Ethics (English)

BLG412E

4: Privacy

Contents of lecture

Privacy:

Framework:

- Definitions.
- Privacy as a value.
- Public & private information.
- Data-protection considerations.

Issues:

- Surveillance.
- Information collection.
- Data use.
- Data transfer.
- Data merging & matching.
- Data mining.
- Security of data.

Measures:

- By law.
- By businesses. ←
- By individuals.

Business self-regulation

- ◆ Businesses promote self-regulation through:
 - ◆ **Codes of practice.**
 - ◆ **Industry standards.**
 - ◆ **Certification programs.**
- ◆ General Code:
 - ◆ Data collection purpose should be clear.
 - ◆ No unnecessary collection.
 - ◆ Don't re-use for other purposes.
 - ◆ Without permission, don't transfer.
 - ◆ Opt-out better vs. opt-in.
 - ◆ Do-not-track in HTTP protocol.
- ◆ Inter-operability:
 - ◆ Trusted Data Format.
- ◆ Does this work in practice?

e.g.



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How we matched these ads

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www.studyinteractive.org/Master-Online
MSc, MA & MBA Degrees 100% Online
Business, Management & Finance!

This ad is based on emails from your mailbox and information from your Google account. [Ads Settings](#) puts you in control of the ads you see.

Your email and Google account

This ad is based on an email from your mailbox.

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Ads Settings

Settings for Google Ads

Ads enable free web services and content. These settings help control the types of Google ads you see.

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Gmail



YouTube



Maps

Google Ads Across the Web ?



Google Ads Across the Web

Gender

Male [Visit your Google Profile](#)

Male

Based on your Google profile ?

Age

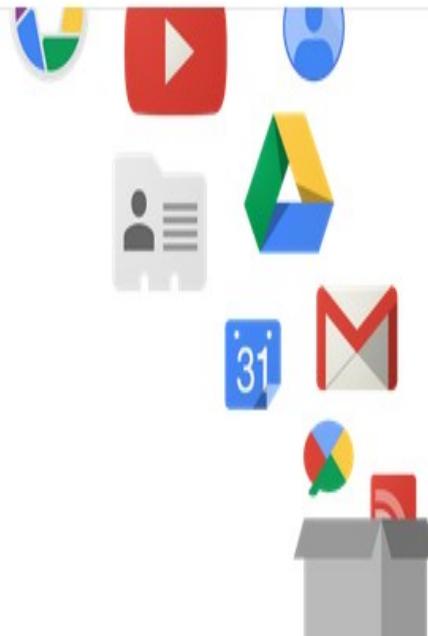
35-44 [Visit your Google Profile](#)

35-44

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Your account, your data. Download a copy.

Customize an archive with your data from Google products.

[Create an archive](#)

Supporting 17 products and counting...



Bookmarks



Mail



Calendar



Contacts



Drive



Voice



Profile



Hangouts



Google+ Circles



Google+ Stream



+1s



Google+ Pages



Blogger



Messenger



YouTube



Google Photos



Google Code Project Hosting

Business self-regulation: Google

- ◆ Google+'s real-name policy.
- ◆ Privacy policy wording under attack:
 - ◆ Vague & self-serving.
 - ◆ Legally problematic.

The
Atlantic

Reading the Privacy Policies You Encounter in a Year Would Take 76 Work Days

ALEXIS C. MADRIGAL | MAR 1 2012, 2:25 PM ET

347

One simple answer to our privacy problems would be if everyone became maximally informed about how much data was being kept and sold about them. Logically, to do so, you'd have to read all the privacy policies on the websites you visit. A few years ago, two researchers, both then at Carnegie Mellon, [decided to calculate how much time it would take](#) to actually read every privacy policy you should.

Share

486

Tweet

http://www.huffingtonpost.com/2012/01/23/google-plus-real-names-policy_n_1224970.html
http://www.theregister.co.uk/2012/03/06/why_google_privacy_policy_is_so_difficult_to_follow/
<http://www.telegraph.co.uk/technology/google/7951269/Young-will-have-to-change-names-to-escape-cyber-past-warns-Google-s-Eric-Schmidt.html>

The Telegraph

Home News World Sport Finance Comment Culture Travel Life Women Fashion

Technology News | Technology Companies | Technology Reviews | Video Games | Technology V

HOME » TECHNOLOGY » GOOGLE

Young will have to change names to escape 'cyber past' warns Google's Eric Schmidt

The private lives of young people are now so well documented on the internet that many will have to change their names on reaching adulthood, Google's CEO has claimed.

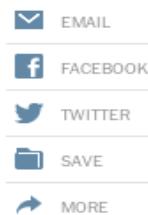
Business self-regulation: Facebook

- ◆ Facebook's policy:
 - ◆ Closed account information retained.
 - ◆ Default settings increasingly open.
 - ◆ Privacy model continually changing.
 - ◆ Opt-out model a problem? Necessary for profit?

TECHNOLOGY

Facebook Deal on Privacy The New York Times

By VINDU GOEL FEB. 13, 2014



SAN FRANCISCO — Despite a class-action settlement in August that was supposed to ensure that [Facebook](#) users clearly consent to their comments, images and “likes” being used in ads, it has been business as usual on the service.

If you are among Facebook’s 1.2 billion users, the company says, you are automatically consenting to such social ads. Opting out is impossible for some ads, and for others, [the control](#) to stop them is buried deep within the service’s privacy settings.

<http://mattmckeon.com/facebook-privacy/>

http://www.nytimes.com/2014/02/13/technology/facebook-deal-on-privacy-is-under-attack.html?_r=0

http://redtape.nbcnews.com/_news/2012/03/06/10585353-govt-agencies-colleges-demand-applicants-facebook-passwords

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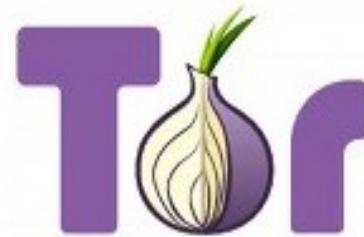
Privacy protection measures

- ◆ If governments/business are not solution?
 - ◆ Individual measures.
 - ◆ Protect your own privacy.
 - ◆ Contribute to the privacy of others.
 - ◆ Technology development.
 - ◆ Research institutes.
 - ◆ Tools to search out privacy violations .
 - ◆ Encryption & peer-to-peer tools and alternatives.
 - ◆ HTTPa (accountability built in to HTTP).
 - ◆ You're an engineer!!

Privacy protection measures

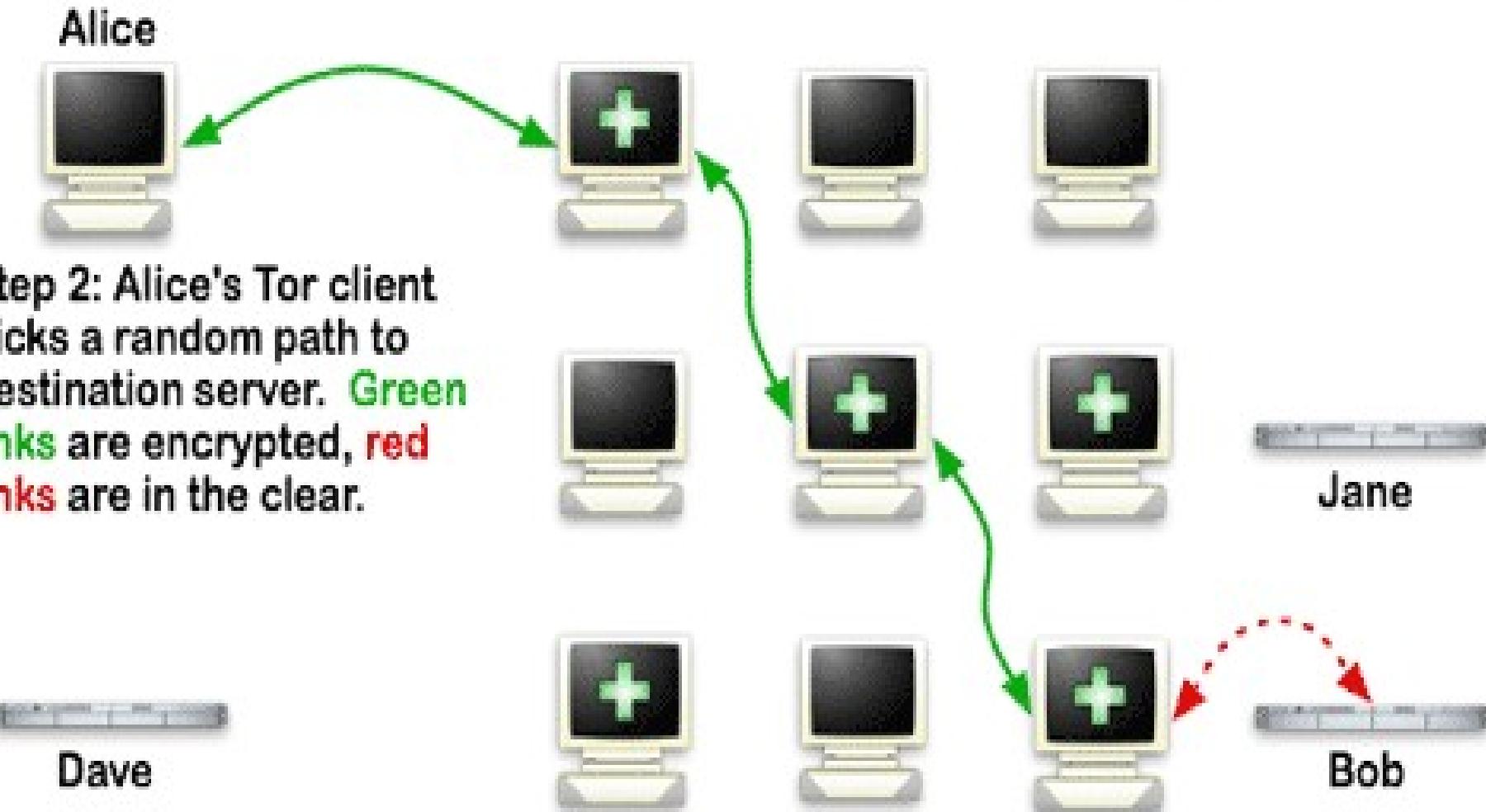
- ◆ Web privacy.
 - ◆ Browser options:
 - ◆ SSL.
 - ◆ Disable cookies.
 - ◆ Browser add-ons:
 - ◆ NoScript.
 - ◆ AdBlock+.
 - ◆ Ghostery.
 - ◆ Other tools:
 - ◆ TOR-type tools.
 - ◆ Proxies, VPNs, VPSs.
 - ◆ Password software.
 - ◆ Opt-out from everything.

Ethics and TOR



- ❖ Your internet requests routed through random other computers on TOR network.
- ❖ Random other computers on TOR network route their requests through your computer.
- ❖ You are anonymous, private (not 100%).
- ❖ You are helping strangers be anonymous, private.
 - ❖ What if they commit a crime?

E) How Tor Works: 2



Privacy protection measures

- ❖ Personal privacy:
 - ❖ Don't give unnecessary information.
- ❖ Privacy of others.
 - ❖ Data noise.
 - ❖ Switching cards/accounts/etc.
 - ❖ Emacs M-x spook
 - ❖ TOR-type tools.
 - ❖ Open Wireless Movement
 - ❖ Lobby: government, businesses, individuals.

Dangers of unsecured/public wifi



The screenshot shows the BBC News Technology homepage. At the top, there's a red navigation bar with the BBC logo and links for News, Sport, Weather, Capital, Future, and Share. Below it, the word 'NEWS' is prominently displayed next to 'TECHNOLOGY'. A secondary navigation bar includes Home, UK, Africa, Asia, Europe, Latin America, Mid-East, US & Canada, Business, Health, and Sci/Enviro. The main headline is 'Free wi-fi hotspots pose data risk, Europol warns' by Dan Simmons. The date is 7 March 2014, and the time is 03:11 GMT. Social sharing icons for Share, Facebook, Twitter, and Email are visible.

- Wireless access point spoofing.

Free wi-fi hotspots pose data risk, Europol warns

By Dan Simmons

Click presenter

Sensitive information should not be sent over public wi-fi hotspots, to avoid hackers stealing it, Europe's top cybercrime police officer has warned.

Troels Oerding, head of Europol's cybercrime centre, told BBC Click people should send personal data only across networks they trusted.

He said the warning was motivated by the growing number of attacks being carried out via public wi-fi.

Europol is helping a number of countries after such attacks, he said.

Stolen data

"We have seen an increase in the misuse of wi-fi, in order to steal information, identity or passwords and money from the users who use public or insecure wi-fi connections," he said.

<http://www.bbc.com/news/technology-26469598>

http://www.theregister.co.uk/2014/03/10/wifi_insecurityReminder/

<http://arstechnica.com/security/2014/06/free-wi-fi-from-xfinity-and-att-also-frees-you-to-be-hacked/>

Open Wireless Movement



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LAW & DISORDER / CIVILIZATION & DISCONTENTS

New open-source router firmware opens your Wi-Fi network to strangers

EFF says open Wi-Fi tool promotes efficiency, neighborliness, and privacy.

by Joe Silver - June 20 2014, 11:27pm EEST

ACTIVISM PRIVACY

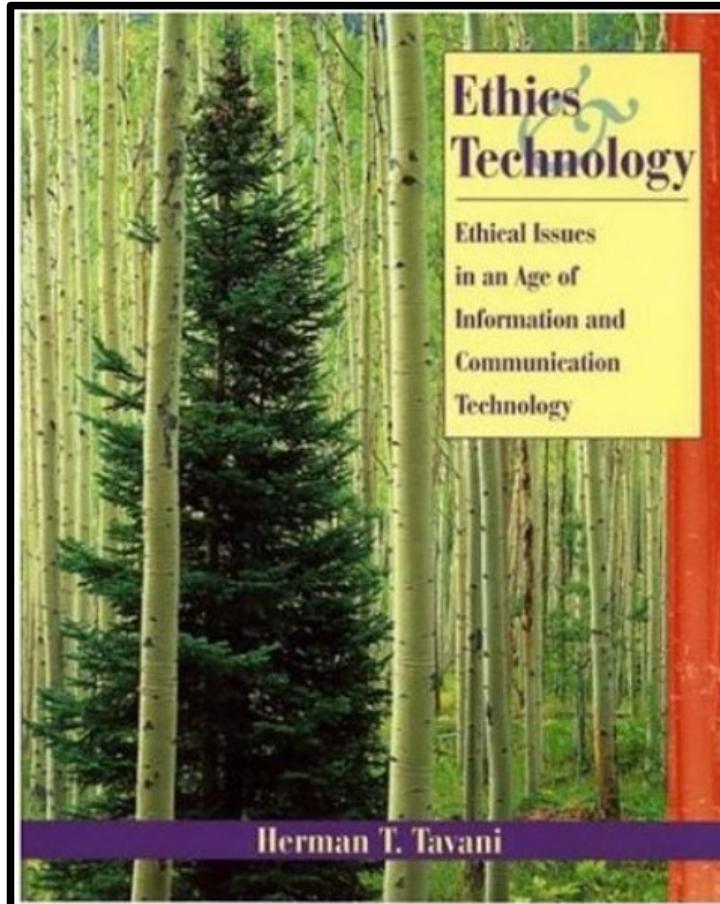
150

LAT
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Reading:

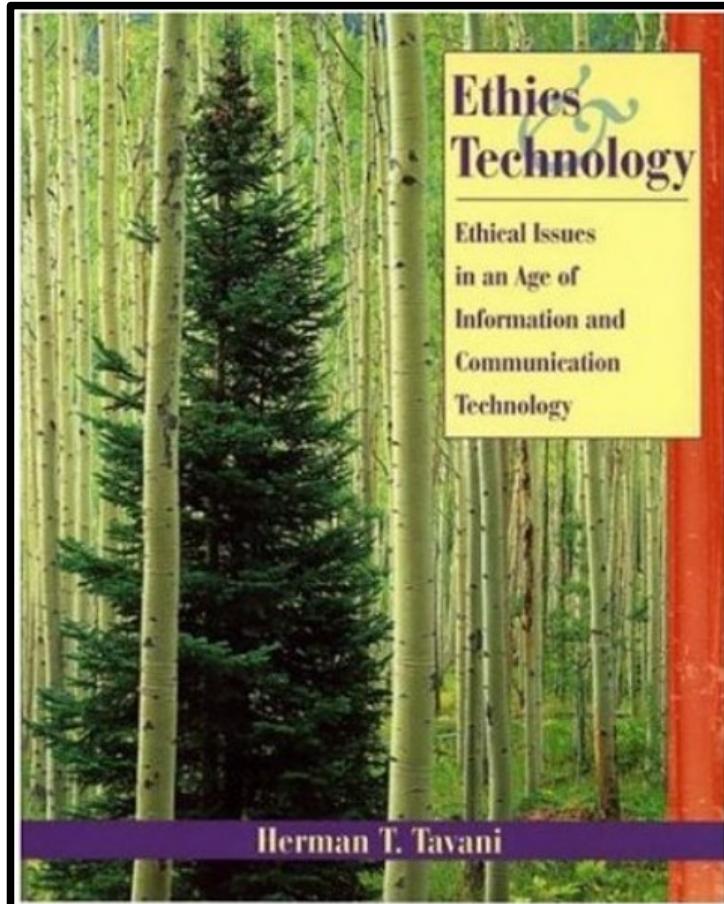
Tavani Chapter 5: Privacy in Cyberspace



5

Reading for next time:

Tavani Chapter 8: Intellectual Property Disputes in Cyberspace



8

Other interesting recent news

<https://putthebookback.wordpress.com/2014/10/03/the-day-my-son-went-viral/>

[http://cacm.acm.org/magazines/2014/11/179832-big-datas-end-run-around-procedural-priva
cy-protections/fulltext](http://cacm.acm.org/magazines/2014/11/179832-big-datas-end-run-around-procedural-priva cy-protections/fulltext)

[http://www.theguardian.com/culture/2014/mar/30/charlotte-laws-fight-with-internet-revenge-po
rn-king?CMP=fb_gu](http://www.theguardian.com/culture/2014/mar/30/charlotte-laws-fight-with-internet-revenge-po rn-king?CMP=fb_gu)

Take-home question

What are the measures that can be taken to protect privacy in the following situations by:

- ◆ law?
- ◆ businesses?
- ◆ individuals?

Try to rank the measures by effectiveness and make an argument for their effectiveness.

Installation of tracking applications on mobile phones by abusive spouses?

Small companies keeping sensitive customer data insecurely.

Private information kept by big companies being accessed by senior management to blackmail friends?

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