

CS121: Our Digital World

Privacy



Big Brother/Little Brother

+ 1984 Today?

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- Security cameras
- Permanent surveillance
- One camera for every dozen people in the UK
- Not just cameras, what other data is collected, stored, and analyzed?

+ Collected Information

- Cell Phone Companies:
 - Numbers you called
 - Where your phone has been
- Credit Card Companies:
 - Where you spent money
 - What you spent it on
- Bank:
 - Keeps electronic records of transactions
 - Why?



Targeted Advertising

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+ Loss of Privacy

- Not forced upon us; we accept it
- What do Google and Yahoo! know about you?
 - http://www.google.com/privacy/ads/
 - http://info.yahoo.com/privacy/us/yahoo/opt_out/targeting/

+ Activity: Advertising Online

- Examine Yahoo! and Google's advertising privacy policies and answer the following:
 - What are interest-based ads?
 - What is a cookie?
 - Can you opt out of interest-based ads? If so, how?
 - List five ways in which Ads are targeted:
 - 1.
 - 2.
 - 3.
 - 4.
 - 5.

+ Targeted Advertising

http://online.wsj.com/video/how-advertisers-use-internetcookies-to-track-you/ 92E525EB-9E4A-4399-817D-8C4E6EF68F93.html

+ Activity: Website Trackers

- Go to: <u>http://blogs.wsj.com/wtk/</u>
- Find your frequently used web sites and look at how many tracker files are generated

+ Targeted Advertising

- How do you feel about targeted advertising?
- List some pros:
- List some cons:





Anonymity

+ How anonymous are you online?

- Mr. Owad wrote a simple piece of software that allowed him to download public wish lists that Amazon.com customers post
- These lists usually include the name of the list's owner and his or her city and state.
- Mr. Owad was able to download over 250,000 wish lists over the course of a day. He then searched the data for controversial or politically sensitive books and authors, from Kurt Vonnegut's "Slaughterhouse-Five" to the Koran. He then used Yahoo People Search to identify addresses and phone numbers for many of the list owners.
- Mr. Owad ended up with maps of the United States showing the locations of people interested in particular books and ideas, including George Orwell's "1984."

+ Connecting the Dots

- Can data be de-identified?
- Latanya Sweeney at MIT identified Governor Weld from health insurance information that:
 - DID NOT include name, address, social security number, and telephone number.
 - DID include gender, birth date, and zip code.
- Who made a mistake here?

+ Privacy

• What is or should be private?

- Name?
- Address?
- Zip code?
- Birth date?
- Driver license number?

Cameras Everywhere!

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+ Vigilante Justice

- We are all little brothers
- Examples:
 - Captured perpetrator of assault on Boston public transportation.
 - Korean lady who let her dog defecate on the subway.





GPS & RFID

+ GPS



Global Positioning System that is a space based navigation system.

■ Used in:

- Map making
- Navigation
- Surveying
- Clock synchronization
- Cell phones

+ Activity: RFID

- Technology used by companies to track merchandise
- Used at toll roads and bridges:
 - Example: Nelson Gross
- Go online and find answers to the following:
 - What is RFID?
 - Give 4 examples of where it is used.
 - What are the controversies surrounding the use of RFIDs? Give examples.

Privacy Policies

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+ Activity: Pacific University Privacy Policy

- Did you know that Pacific University has a privacy document.
- Answer the following:
 - Under what conditions are exceptions to the privacy policy made?
 - Can users expect privacy of their electronic communication?



 Google recently changed it's privacy policy, which caused an uproar in the media.

Do some research:

- Summarize the changes to Google's privacy policy.
- Where do you stand with regards to the changes?
- How can someone

+ References

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