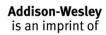


Lecture 16 Privacy and the Government



Clicker Quiz: "Split the Dollar"

- Suppose I promised to give you \$100, provided that you offer to split it with a random (anonymous) student in class, and he/she accepts your proposed split. If he/she rejects the split, you both get nothing.
- How much do you offer to the other student?
 - A. \$50
 - − B. \$40
 - C. \$30
 - D. \$20
 - E. \$10

Solove's Taxonomy of Privacy

- Privacy can become an issue in four different ways:
 - Information collection: gathering personal information
 - "How much information do I have to give to rent a car?"
 - Information processing: storing, manipulating, and using information that has been collected
 - "Should Google use the content of my emails to target ads to me?"
 - Information dissemination: spreading personal information
 - "Is it wrong to forward an email that was sent to me?"
 - Invasion: intruding upon a person's daily life
 - "Is it a good idea to email professors you might be interested in working with in grad school? How many: 2, 10, 100, 1000?"

Public Records: Statutory Disclosures

Census

- Purpose: ensure that seats in Parliament are apportioned correctly
- Worry: this data may also be used for other purposes
- Concern over the long-form census

Revenue Canada

- Intentional disclosure (rogue employees)
- Unintentional disclosure (lost laptops)

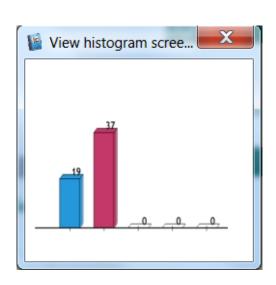
...how worried should we be about the existence of such records?

Privacy and the Government

"The government should create a database identifying the DNA of every resident and make it available to medical researchers and police."

Privacy and the Government

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Wiretapping in the Digital Age

- Carnivore Surveillance System
 - Created by FBI in late 1990s
 - Monitored Internet traffic, including email exchanges
 - Captured packets going to/from a particular IP address
 - Used about 25 times between 1998 and 2000
- Post 9/11:
 - Bush authorized new, secret, intelligence-gathering operations inside United States
 - OK for NSA to intercept international phone calls & emails initiated by people inside U.S.; no search warrant required
 - Monitored ~500 people inside U.S.; 5000-7000 people outside
 - Two al-Qaeda plots foiled
 - Plot to take down Brooklyn bridge
 - Plot to bomb British pubs and train stations

USA PATRIOT Act (2001; 2011)

Provisions

- Greater authority for intelligence agencies to monitor communications within USA
- Greater powers to regulate banks to prevent money laundering, particularly involving foreigners
- Greater border controls
- New crimes and penalties for terrorist activity, including indefinite detention of foreigners
- Terrorism redefined to include domestic terrorism
- Critics say Act undermines 4th Amendment rights
 - Searches (of phone, internet, financial records) and seizures without warrants
 - Warrants issued without need for showing probable cause

Bill C-30

- "Protecting Children from Internet Predators Act"
 - Originally titled "Lawful Access Act"
- Proposed on February 14, 2012, by Canada's public safety minister, Vic Toews
- Key elements:
 - Requiring internet service providers to give subscriber data to police and national security agencies without a warrant, including names, unlisted phone numbers and IP addresses.
 - Forcing internet providers and other makers of technology to provide a "back door" to make communications accessible to police.
 - Allowing police to seek warrants to obtain information transmitted over the internet and data related to its transmission, including locations of individuals and transactions.
 - Allowing courts to compel other parties to preserve electronic evidence.

Wiretapping

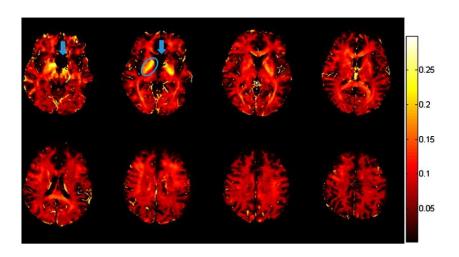
 Law enforcement argues that it's necessary to have the ability to listen in to conversations, record IP traffic on the internet, in order to catch criminals.

• What do you think?

"Lie Detectors"

- Present Day: Polygraphs
 - Scientific status: ambiguous
 - NAS: better than chance, far from prefer (in lab conditions)
 - Legal status:
 - USA:
 - Maybe admissible as evidence
 - Subject must volunteer
 - Canada:
 - Not admissible as evidence
 - Legal for investigating
- Near Future: Neuroimaging
 - Legal status:
 - India: 1 murder conviction





A Working Lie Detector

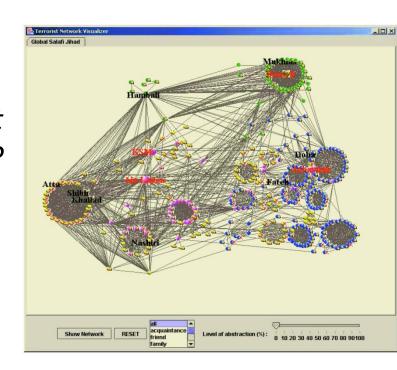
- Suppose a 98%-accurate lie detector were invented.
 What should its legal status be?
 - A. Admissible in court, and can be court ordered.
 - B. Admissible in court, if the subject volunteers. (USA)
 - C. Usable during investigation, not admissible in court. (Canada)
 - D. Never to be used.

Information Processing and Policing

- "Dave's story"
- Statistical inference:
 - False positives and false negatives
 - What is an acceptable error rate?
 - Given the possibility of error, what is an acceptable level of response?

Information Processing and Policing

- "Dave's story"
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- Inference on social networks
 - Should governments be able place people under investigation, based on distant (2+ hops) network activity?



Government-Issued ID

- Government-issued ID is needed for many activities
 - Getting into a bar
 - Flying on a plane
 - Renting a car
 - Opening a bank account
- Advantages:
 - reduce illegal activities
 - Hard for people to change identities
- Disadvantages:
 - Facilitates fraud (easier to assume my identity)
 - Facilitates data mining (provides a unique key)
- Questions: Should everyone be required to have a government ID card? Should there be rules about what I'm allowed to do without showing government ID?