

Lecture notes for 10.1-10.4 Privacy

Privacy

- [Discussion: what is it?]
- Def: the ability of a person to choose what information they reveal about themselves to who
 - Controlled disclosure
 - After disclosure, subject no longer controls future disclosure
 - Informed consent: future disclosure of private data done with consent of subject
- Established by: Fourth amendment to US Constitution, various laws
 - HIPAA, FERPA, others
 - Commercial sites can sell your info as long as they tell you they will (no deceptive practices)
- Tension: individual vs. corporate / government desire to acquire info

Sensitive data

- [Discussion: what would you like to protect?]
- [Textbook has a good list of examples... not retyping them here]

Who has privacy?

- [You? Britney Spears? Do you have equivalent privacy?]
- [Government official? Government agencies?]
- [Americans? Chinese?]
- [Who deserves privacy?]
 - [Are there good reasons to want to keep privacy?]
- [Who wants to strip privacy?]
 - [Are there good reasons to want to remove privacy?]

Impact of loss of privacy

- Embarrassment
- Loss of job
- Identity theft
 - Use of another person's credentials
 - Credit card, national ID number
- Annoyance (advertising)

Computer-related privacy

- [Privacy vs. logging information/access for attack detection]
- [Sale of your access records]
- [Who owns information about you? Website or you?]
- Data mining
 - Extraction of patterns from large quantities of data
 - Government mining of Internet accesses, phone records, travel records

Protections

- Minimize data revealed / stored
- Anonymize identifying data
- Policy

Examples

- [Google street view] [Is presence on the street part of private information?]
 - <http://www.youtube.com/watch?v=fPgV6-gnQaE> (search google maps vacationers)
 - <http://www.youtube.com/watch?v=X7gWEgHeXcA> (privacy and social networks)
 - <http://www.youtube.com/watch?v=BGrji2bIiG8> (stephen colbert police state)
 - <http://www.youtube.com/watch?v=LDk6jxcSDlQ> (big brother nsa copying everything on internet)
 - Google open webcam: inurl:/view.shtml