Privacy in a Networked World

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Administrivia

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Required Course Work

- Class attendance

- **Weekly** required readings on-line
  - Note: Read them before class!
  - During last 10–15 minutes of each class, you will answer a short question on the assigned readings

- Week-in-review
  - 5-minute presentation on recent relevant news stories (you’ll each do one week)
Group Reading & Term Project

- Small groups (two/three people)
- Book reading: Deliverables (due mid-semester)
  - “Quote of the week” on Canvas
  - Summary (5–7 pages)
  - Presentation (10 minutes)
- Term project: Deliverables (last two classes)
  - Term paper (10–15 pages)
  - Presentation (15 minutes)
- See later for sample titles and topics
Work Load Breakdown

Work load breakdown

• 2.5 hrs/week: Class attendance
• 3.5 hrs/week: Readings
• 3.0 hrs/week: Book reading/team project
Grading

- 25%: Course participation, week-in-review & quizzes
  - Worst quiz will be dropped
- 20%: Book reading
  - Book summaries and report in Canvas
  - Presentations on Oct 2
- 25%: Group project
  - Project report in Canvas
  - Presentations on Nov 27/Dec 4
- 30%: Final exam (Dec 11??)
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# What’s this course about?

## Privacy
- What is privacy and why it matters
- Threats to privacy
- Protecting privacy

## Technology
- How technology changed the “privacy game”
- How technology can *hurt* privacy
- How technology can *help* privacy
Privacy in Your Words

- Privacy relates to . . .
What is privacy and why it matters

- Informational privacy and the “data shadow”
- The skeptic’s arguments
  - “I’ve got nothing to hide”
  - “Privacy has to die for security to flourish”
  - “You have zero privacy anyway”
  - “Privacy is the price of modern comforts”
- Conceptualizing Privacy: Contextual integrity and other frameworks
Class Topics (2)

Technological threats to privacy

- User tracking, online (www, apps) and offline (GSM, GPS, RFID, CCTV)
- Surveillance
- Consumer profiling
- Leak of personally identifiable information (PII)
Class Topics (3)

Protecting privacy

- Privacy regulations and best practices
- Privacy-enhancing technologies (PETs)
  - Privacy policy tools (P3P)
  - Anonymous networking (mix-nets, TOR)
  - Crypto tools (e-cash, credentials, multi-party computation)
  - Differential privacy
Group Reading Options (1)

i. Nothing to Hide: The False Tradeoff between Privacy and Security. D. Solove

ii. The Future of Reputation. D. Solove

iii. Understanding Privacy. D. Solove

iv. The Digital Person. D. Solove
Group Reading Options (2)

v. Privacy in Context. H. Nissenbaum

vi. The Limits of Privacy. A. Etzioni

vii. Code 2.0. L. Lessig

viii. The Future of the Internet and How to Stop It. J. Zittrain
Group Reading Options (3)

ix. Privacy and Freedom. A. Westin

x. Privacy Lost. D. Holtzman


xii. (Other books are also possible. Please talk to me.)
Class Topics

What is privacy and why it matters

- Informational privacy and the “data shadow”
- The skeptic’s arguments
  - “I’ve got nothing to hide”
  - “Privacy has to die for security to flourish”
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Privacy as an Individual Right

- **S. Warren and L. Brandeis**
  - Privacy as “the right to be let alone”
  - Privacy “[..] a part of the more general right [..] to one’s personality”

- The Universal Declaration of Human Rights (UN, 1948)
  - “Everyone has the right to the protection of the law against [..] arbitrary interference with his privacy”
Constitutional Protections of Privacy

Amendment IV

“The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no Warrants shall issue, but upon probable cause, supported by Oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized”
Constitutional Protections of Privacy

Amendment I

“Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the Government for a redress of grievances”
Constitutional Protections of Privacy

Amendment V

“No person shall be held to answer for a capital, or otherwise infamous crime, unless on a presentment or indictment of a Grand Jury, except in cases arising in the land or naval forces, or in the Militia, when in actual service in time of War or public danger; nor shall any person be subject for the same offence to be twice put in jeopardy of life or limb; nor shall be compelled in any criminal case to be a witness against himself, nor be deprived of life, liberty, or property, without due process of law; nor shall private property be taken for public use, without just compensation.”
Constitutional Protections of Privacy

**Amendment IX**

“The enumeration in the Constitution, of certain rights, shall not be construed to deny or disparage others retained by the people”
Franklin’s Quote

“Those who would give up essential liberty to purchase a little temporary safety, deserve neither liberty nor safety”

- Privacy & Security: Which one is it?
  - Privacy $\land$ Security
  - Privacy $\lor$ Security
  - Privacy $\oplus$ Security
  - Privacy $\Rightarrow$ Security
  - Privacy $\Leftarrow$ Security
Privacy & Personal Growth

Privacy

- Freedom to experiment with ideas;
- Space for self expression;
- Creativity outlet

Self confidence;
Public life

Personal growth
Why Privacy Matters

Privacy & Personal Growth

Privacy

⇓

Freedom to experiment with ideas;
Space for self expression;
Creativity outlet

⇓

Self confidence;
Public life

⇓

Personal growth
Why Privacy Matters

Privacy & Personal Growth

Privacy

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Personal growth
Why Privacy Matters

Privacy & Democracy

Privacy

⇓

Individual autonomy

⇓

Personal opinions and beliefs

⇓

Democracy
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Democracy
Dimensions of Privacy

- Informational privacy
- Bodily privacy
  - Biometrics
- Privacy of communication
- Territorial privacy
  - Privacy in the workplace
The Skeptic’s Arguments

“I’ve got nothing to hide”

- Privacy is not just about hiding things
  - It’s about dignity & autonomy
  - It’s about self-determination
  - It’s about control

- Unwarranted surveillance, wiretaps, and email interception violate the above especially when there is nothing to hide
  - Need for warrant ensures due process
The Skeptic’s Arguments (2)

“Privacy has to die for security to flourish”

- “After all, security is a common good; privacy is at best an individual right”

A: Security is not a social goal. It should free us from preoccupation and fear—not create uneasiness by killing our privacy

“Those who would give up essential liberty to purchase a little temporary safety, deserve neither liberty nor safety,”

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The Skeptic’s Arguments (3)

“You have zero privacy anyway”

“Info about you is easily found everywhere”

A: Sure; we should push to change the balance: let’s make it easier for people to maintain control over their info

- Consumer awareness
- Suitable technology (e.g., encryption)
- Laws/regulations on information privacy
- Enforcement of existing norms
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“Privacy is the price of modern comforts”

- “You’ve given up your privacy when you . . .”
  - “. . . signed up for free on-line accounts”
  - “. . . entered the Mall-of-Mall sweepstake”
  - “. . . got your free-membership credit cards”
  - “. . . enrolled at this school”
  - “. . . [ your favorite example here]”

A: “Privacy vs. Comfort” is a false choice

- Have your privacy and eat it too
The Skeptic’s Arguments (4)

“Privacy is the price of modern comforts”

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