

Fair information practices and privacy principles

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Engineering &
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Outline

- Quiz
- Returning HW1
- Using library resources
- Writing a literature review
- Course project
- Fair Information Principles

HW1 Grades

- Average: 93.6%
- Essay Rubric
 - Students got -1 to -5 points for grammar and clarity issues (Grammar was out of 10 points)
 - Students got -2 points for not citing Eggers when The Circle was first introduced, so long as the eventually cited the book
 - Students got -5 points for not citing The Circle at all (but the book was clearly mentioned in the essay)
 - Students got -5 points for using only one source for their essays
- These should be written on the student's paper if they lost points

Is this plagiarism?

Solove (2007) writes that the "nothing to hide" argument misses important dimensions of privacy and results in a very narrowly focused debate. He argues that when we consider privacy more broadly, we see that this argument "has nothing to say."

Using Library Resources

CMU Libraries

- <http://library.cmu.edu>
- Engineering and Science (a.k.a. E&S)
 - Location: Wean Hall, 4th floor
 - Subjects: Computer Science, Engineering, Mathematics, Physics, Science, Technology
- Hunt (CMU's main library)
 - Location: Its own building, between Tepper and Baker
 - Subjects: Arts, Business, Humanities, Social Sciences
- Lots of online resources
 - See off campus VPN instructions

If it's not at CMU, but you need it today: Local Libraries

- Carnegie Library of Pittsburgh
 - Two closest locations
 - Oakland: Practically on campus (4400 Forbes Ave.)
 - Squirrel Hill: Forbes & Murray (5801 Forbes Ave.)
 - <http://www.carnegielibrary.org/>
- University of Pittsburgh Libraries
 - 16 libraries! Information science, Engineering, Law, Business, etc.
 - Get a borrowing card by showing CMU ID at Hillman Library lending desk
 - <http://pittcat.pitt.edu/>

If it's not at CMU, and you can wait: ILLiad and E-ZBorrow

- ILLiad and E-ZBorrow are catalogs of resources available for Interlibrary Loan from other libraries nationwide (ILLiad) and in Pennsylvania (E-ZBorrow)
- Order items online (almost always free)
- Delivery usually in a few days to 2 weeks
- Find links to ILLiad and E-ZBorrow online catalogs by following Interlibrary Loan link at <http://search.library.cmu.edu/>

Other Useful Databases

- Links to many more databases, journal collections
- Lexis-Nexis
 - Massive catalog of legal sources – law journals, case law, news stories, etc.
- IEEE and ACM journal databases
 - ACM Digital Library <http://dl.acm.org/>
 - IEEE Xplore <http://ieeexplore.ieee.org>
- Google Scholar
 - <http://scholar.google.com>
- INSPEC database
 - Huge database of scientific and technical papers
- JSTOR
 - Arts & Sciences, Business, Mathematics, Statistics

And of course...

- Reference librarians are available at all CMU libraries, and love to help people find what they need – just ask!

Writing a Literature Review

Writing a literature review

- What is a literature review?
 - A critical summary of what has been published on a topic
 - What is already known about the topic
 - Strengths and weaknesses of previous studies
 - Often part of the introduction, or can be its own section
- A literature review should
 - be organized around and related directly to your research question
 - synthesize results into a summary of what is and is not known
 - identify areas of controversy in the literature
 - formulate questions that need further research

Dena Taylor and Margaret Procter. 2004. The literature review: A few tips on conducting it.
<http://www.writing.utoronto.ca/advice/specific-types-of-writing/literature-review>

Literature review do's + don'ts

- Don't create a list of article summaries or quotes
- Do point out what is most relevant about each article to your paper
- Do compare and contrast the articles you review
- Do highlight controversies raised or questions left unanswered by the articles you review
- Do take a look at some examples of literature reviews or related work sections before you try to create one yourself
 - See for example
http://cups.cs.cmu.edu/soups/2013/proceedings/a7_Leon.pdf or
<https://www.usenix.org/system/files/conference/soups2015/soups15-paper-schaub.pdf>

Course project

Project overview

- Group project – teams of 3 to 5 students
- Project list on website, or suggest project within a week
- Rank projects on preference survey by Sept 29
- All projects have final paper and poster as deliverable
 - Some projects may have other deliverables such as software, user interface designs, etc.
- Past course websites have information about past projects
 - Several past projects have been turned into a thesis or published paper, some software projects have been released publicly or contributed to open source projects
- <http://cups.cs.cmu.edu/courses/pp1t-fa15/project.html>

Fair Information Practices

Fair information practices

- What are FIPs?
- Why are they important?

What do these privacy terms mean?

- Data subject
- Data controller
- Secondary use of data

OECD FIPs: definition and example?

- <http://oe.cd/privacy>
- Collection limitation
- Data quality
- Purpose specification
- Use limitation
- Security safeguards
- Openness
- Individual participation
- Accountability

US FTC simplified principles

- Notice and disclosure
- Choice and consent
- Data security
- Data quality and access
- Recourse and remedies

How do these differ from the OECD principles?

US Federal Trade Commission, Privacy Online: A Report to Congress (June 1998), <http://www.ftc.gov/reports/privacy3/>

Other privacy principles

- APEC privacy framework (2005)
<http://www.apec.org/About-Us/About-APEC/Fact-Sheets/APEC-Privacy-Framework.aspx>
 - Designed to achieve accountable cross-border flow of personal information with APEC region
 - Includes implementation guidance
- Generally Accepted Privacy Principles (2009)
<http://www.aicpa.org/InterestAreas/InformationTechnology/Resources/Privacy/GenerallyAcceptedPrivacyPrinciples/>
 - Designed by and for CPAs
 - Includes detailed controls and procedures

The Prada NYC dressing room



- <http://www.quantumglass.com/node/11/concept/3>
- What aspects seem privacy invasive?
- How could the design be changed to reduce privacy concerns?
(Think about the FIPs)

Applying the FIPs

- Google Street View
- Gmail advertising
- Publicly accessible web cams
- Amazon.com book recommendations
- Giant Eagle Advantage Card
- Transportation Security Administration watch lists



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