CS 121

Our Digital World: Privacy & Anonymity

February 12, 2018

Security & Privacy

- Security:

- Privacy:

> What data do we have or produce that is valuable?
>
> To whom?

- Anonymity:

- Why do we value each?

Who?

- Big Brother

- Little Brother

Data

- How do we give data away?

- What data do we give away willingly?
  - What do we get in return?

- What data do we not realize we give away?

Privacy threats

- Web Browsing Tracking

- Purchase/interaction Tracking

- Phone App Tracking

Strava

- https://labs.strava.com/heatmap

  - What does this map tell us?
    - look at the full earth map

  - see link on class schedule web page
    - Forest Grove

  - What concerns were raised in the articles?
    - Who shoulders the blame?

Phone Apps

- Open   play.google.com

  - search for "Brightest Flashlight Free"

  - What permissions does this app require?

  - "Updates to Brightest Flashlight Free may automatically add additional capabilities with each group."

Your Phone

- What permissions does your favorite app require?

- Do these seem reasonable?

Define

- Cookie

- Beacon

Privacy Tester

- Open Chrome

  - Login to BoxerMail

- Visit the following web page, click on a link or two:

  cnn.com
  oregonlive.com
  facebook.com
  pacificu.edu
  espn.com   https://panopticlick.eff.org/

  two other favorite websites

What does Google know about you?

- Visit the following page:
    - http://adssettings.google.com
    - login with your PUNetID account or personal Google account

- How well does Google know you?
    - is the age range correct?
    - gender?
    - Do the categories fit you?

# My Office Computer: Google

Your categories   Below you can edit the interests and inferred demographics that Google has associated with your cookie:

Category	
Arts & Entertainment	Remove
Arts & Entertainment - Humor	Remove
Computers & Electronics - Computer Security - Network Security	Remove
Computers & Electronics - Networking - Network Monitoring & Management	Remove
Computers & Electronics - Programming	Remove
Computers & Electronics - Programming - C & C++	Remove
Computers & Electronics - Programming - Development Tools	Remove
Food & Drink - Candy & Sweets	Remove
Internet & Telecom	Remove
News - Weather	Remove
Demographics - Age - 35-44 ?	Remove
Demographics - Gender - Male ?	Remove

Amazon

- What other class am I teaching this semester?

Recommendations for You, Chadd

How are you tracked?

- https://panopticlick.eff.org/
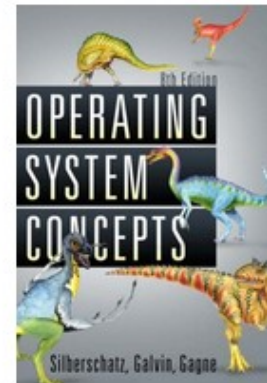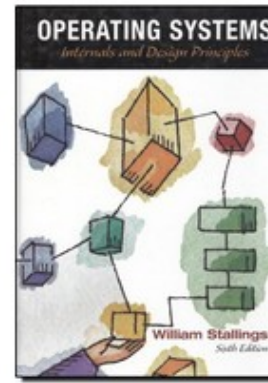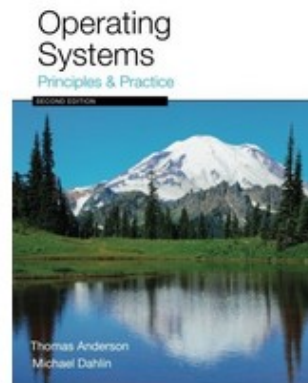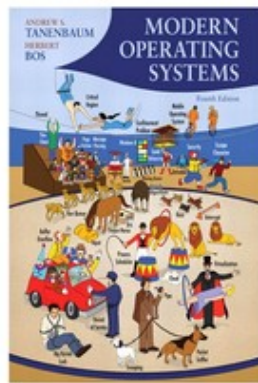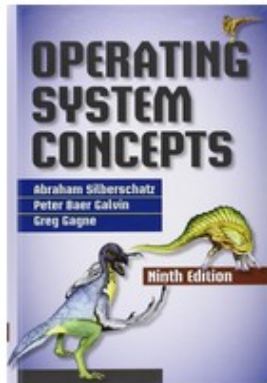
- bits of identifying information
  - lower is better

- one in x browsers have this value
  - lower is better
  - which number is highest?

- Install Privacy Badger and re-run the test

Activity

- Find one piece of software to allow you to manage your cookies. Provide download link and brief description of how to use it, what the software does.

Activity

- Find one piece of software to manage, hide, stop, or confuse web trackers/beacons in your web browser

  - Look for a Firefox or Chrome Extension

Wednesday

- Read three articles posted on class web site

- Questions (answer in your blog):

  - What are two advertised uses for Alexa, Siri, or Google Home?

  - Explain why someone might choose to use on of these systems.

  - Do you use one of these systems?

  - Explain briefly some privacy concerns here.

    – Consider: Where is the voice recognition done?

    – Why might company posted documentation be wrong?

    – What risks can you think of?

Monday

- Read the three articles online

- Smartphone use: pro/con

- On your blog:
    - Summarize your reaction to the Cons article.
    - How do you see people outside of your age group (sibling, parents, grandparents, etc) using the smart phone differently than you?
    - How concerned are you with your phone usage?
    - Often do you turn off your phone completely?