Abstractions: Privacy and Security

- Why does phishing work?
  - What is whaling?
- Birthday+zip=knowledge
  - Who are you?
- What should Congress know?
  - Annie Anton
  - Latanya Sweeney
  - Lorrie Cranor

Cookies: Big picture overview

- Cookies help http
  - http is stateless
  - server
  - get fb.com
  - client
  - content back
  - 1.3.2.4
  - Cart??
  - Buy this, buy that!

Cookie overview continued

  - Reasonable overview
- Cookie is a small textfile, not code/executable
  - Expires at end of session or in the future
  - Stored on your computer
  - Comes from a server you “visit”
    - Third party cookies
- How can a cookie track you? It can’t (well, ok)
  - Helps client-server back and forth and ...

www.si.com

- 40 cookies
  - cnn.com
  - si.com
  - tacoda.net
  - doubleclick.net
  - revsci.net
- Dependencies:
  - Content comes from many places
  - Scripts, content, images, ads
Cookies from websites

- **nbc.com**
  - 43 cookies
  - google.com
  - doubleclick.net
  - quantserve.com
  - bluekai.com
  - tacoda.net
  - atwola.com
  - advertising.com
  - crwdcntrl.com

- **People.com**
  - 36 cookies
  - doubleclick.net
  - atwola.com
  - tacoda.net
  - google.com
  - quantserve.com
  - revsci.net
  - advertising.com
  - 2o7.net

College Newspaper Cookies

<table>
<thead>
<tr>
<th>School Paper</th>
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<th>Cookie Sites</th>
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<tr>
<td>MIT</td>
<td>7</td>
<td>MIT, Google</td>
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</table>

Anony [ mity | mous ]

Packin' the K (Eugene Kaspersky)

The Register

Security boss calls for end to net anonymity
Kaspersky's online police state
By Dan Goodin in San Francisco • Get more from this author
Posted in Security, 16th October 2009 20:06 GMT
Free khắp(identifier) — Avoiding 7 common mistakes of IT security compliance

The CEO of Russia's No. 1 anti-virus package has said that the internet's biggest security vulnerability is anonymity, calling for mandatory internet passports that would work much like driver licenses do in the offline world.

What can you say, where can you say?

- **Rush Limbaugh and the NFL**
  - Source, story, repercussions

- **Steinbuch v Cutler**
  - Blog, private becomes public, politics

- **Ciolli v Iravani**
  - AutoAdmit: JuicyCampus for law school?
Anonymous and wannabe-anonymous

- Limbaugh forced out of NFL-owner/bid
    - “The quotes were added by a user with the IP address of 69.64.213.146” stevonline.com
    - Rick Sanchez CNN tweets: “I’ve know rush. in person, i like him. his rhetoric, however is inexcusably divisive. he's right tho. we didn't confirm quote. our bad.”
  - Can an IP address be spoofed?
- Mainstream news hasn’t picked this up, all over the blogosophere

Steinbuch v Cutler (and Hachette)

- Washingtonienne blog by Jessica Cutler
  - Risqué too mild: what she did with “RS”
  - Robert Steinbuch sues, $20 million
  - Wonkette blog links, sued too
- Communications Decency Act
  - Some struck down: First Amendment
  - Section 230 protects third-party/websites

John Doe v “man walks into bar”

- AutoAdmit and Anthony Ciolli
  - Anonymous and in 2007 gossipy
  - Two female Yale Law students targeted
    - Subsequently one doesn’t get job offers, why? Google!
  - Anonymous, defamation online
- High profile, likely pro bono defenders
  - Ciolli countersues, section 230
- Slimed Online article summarizing issues
  - If Heller and Iravani identify... trouble?

Juicy? They're Back and They're Bad

The Daily Tar Heel

Juicy Campus faces new competition

Since the infamous college gossip Web site Juicy Campus closed in February, alternative Web sites have sprung up to fill the gap.

The Cavalier Daily

Please don't feed the college gossip sites

by WSN Editorial Board
Published September 23, 2009

print email
Anonymity on the Internet

What's different about Juicy Campus is that vicious, anonymous attacks are the site's raison d'être, not unfortunate by-products.

The 20-year old at the heart of web's most anarchic and influential site

The Onion Router (TOR)

- Online Anonymity
  - Trusted network ensures anonymity
  - How can we know it’s trusted?

- For Alice to talk to Bob, need three relays
  - Alice talks to R1->R2->R3->talks to Bob
  - Secure protocols/handshaking help
  - Open source BSD license, “free”

Who Uses Tor? (torproject.org),

- 300,000 daily users
  - Why does each group use TOR?
  - China? Iran?

- Can you Tor?
  - Usability

How is Tor like bittorrent like p2p?

- What does peer-to-peer mean?
  - Who are the peers, how organized?
  - Centralized, distributed, ...
  - Why do we want p2p connections?

- Commons