

Topics

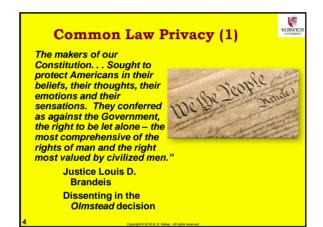
- Privacy in US Jurisprudence
- > Effects of Information Technology on Privacy
- Fourth Amendment Issues
- Key US Laws Protecting Privacy
- > Defending Privacy in
- Cyberspace > Privacy Resources for Everyone



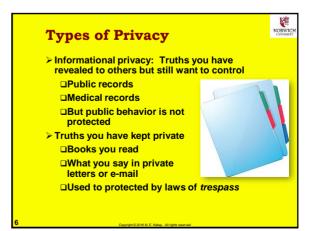
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Privacy in US Jurisprudence

- > Privacy:
 - Power to control truths about you that other people know
 - Dever to hide parts of the truth
- Myth: "If you have done nothing wrong, you have nothing to fear from breaches of privacy."
 - Many private acts and statements are not illegal or immoral, but societal norms allow them to remain private: known only to participants or those selected to know
 - Obvious example is sexual interactions
 - □But key issue is that those in power may use breaches of privacy to punish those who threaten the political power-structures







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Effects of Information Technology on Privacy

- > Controlling Electronic Information is Difficult
- Easier Data Acquisition
- Informational Privacy
- Privacy & the Internet
- Privacy & Social Media
- Data Collection on the Web
- ≻ IoT
- > Drones
- > Spyware



Controlling Electronic Information is Difficult

- E-mail messages often circulated without permission
- □Theoretical violation of copyright □In practice, impossible to stop once it starts
- Private message group discussions are often made public
 - □Can be embarrassing □Has led to lawsuits



Easier Data Acquisition

- Radical change in ease of acquiring data about individuals
 - □Electronic purchase records
 - □Telephone and e-mail records
 - □Surveillance technology redefines *public space*
 - □Identification technology reduces the anonymity of the crowd
 - □Public records online

Radical change in ease of acquiring aggregate data about groups







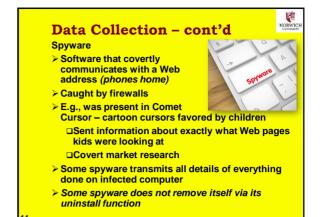


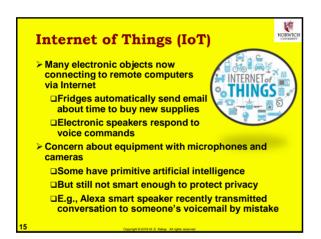
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Data Collection on the Web

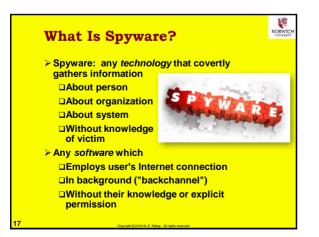
- Cookies store information about where you have been on a specific Web site
 - E.g., AMAZON uses cookies to track your identity and your book preferences
 Unless badly formed, cookies are not
 - supposed to be shared among Web sites
- > Web bugs
 - I-pixel images (invisible) that return information to specific advertisers
 - Allow tracking of how many people visit a Web page vs how many click on ads

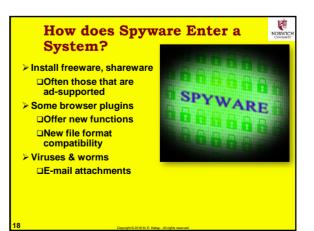












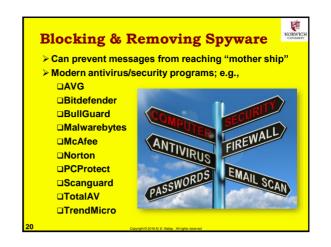
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Removing Spyware

- Problems with uninstalling spyware
 □Some products do not (or did not) include uninstall function
 - □Uninstall function failed in several cases □Some products reinstall themselves
- Tools available for removal; e.g.,
 AdAware
 Aureate/Radiate
 - DLL remover





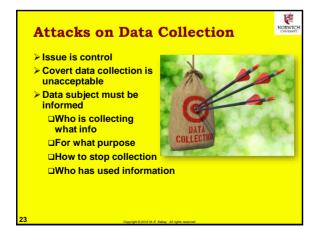
Preventing Spyware Infestations

- Read the fine print before installing software
 - Especially adware = freeware supported by advertising
- Run appropriate scanners (removal tools) periodically
- Firewalls help identify infestations as well as blocking transmissions
 Choose firewall capable of trapping
 - unexpected outbound connections
 - Set parameters to alert user to unauthorized connections

Arguments Defending Data Collection

- Doesn't hurt anyone
- No names collected
- Helps to improve effectiveness of advertising
- Improves market mechanisms by providing statistical information about consumer preferences







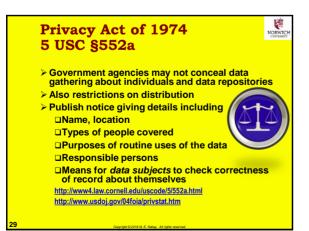






Gramm-Leach-Bliley Act (GLB), 1999





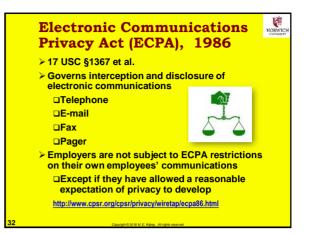


Privacy Protection Act (PPA) of 1980 42 USC §2000aa

- Protects journalists' and writers' materials and sources
- Require probable cause for search or seizure Except if crime is in process



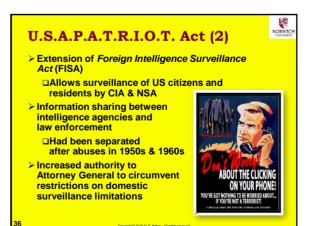
- or has already occurred To prevent immediate injury to a victim
- Steve Jackson Games case
 Secret Service raided game company
 Seized computers, refused to return them
 - See http://www.eff.org/Legal/Cases/SJG/
 - http://www4.law.cornell.edu/uscode/42/2000aa.htm







V U.S.A.P.A.T.R.I.O.T. Act (1) <u>Uniting and Strengthening America</u> by Providing Appropriate Tools Required to Intercept and THE Obstruct Terrorism Act PATRIOT ACT: > Called the "US Patriot Act" Turning Citizens into Suspects to sway public opinion in its favor Since 2001 Passed by a Congress whose members did not read the text of the Act before approving it Based on premise that civil liberties prevented discovery of 9/11 plot







Health Insurance Portability and Accountability Act (HIPAA), 1996 > 42 USC 1297ii > Protects employees who change jobs but want to keep their health insurance

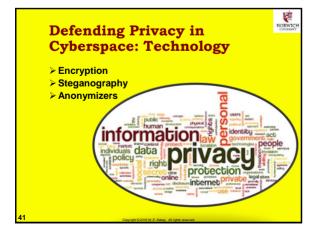
- > Mandates administrative simplification
- Privacy provisions affect everyone who collects, keeps and transmits medical information
- Patients must have full access to their medical files
- Standards for protecting individually identifiable health information
- http://www.hcfa.gov/hipaa/hipaahm.htm

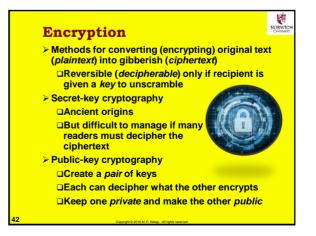




agencies, SEC, National Credit Union Administration

<u>http://www.senate.gov/~banking/conf/grmleach.htm</u>

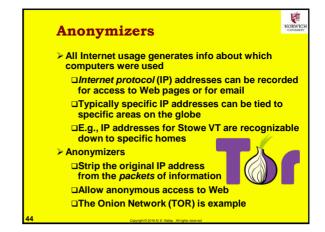




Steganography

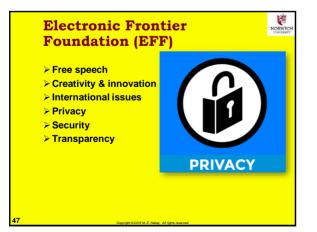
- Information in images based on series of bits (1s and 0s) defining pixels
- Can alter *lower-order* bits without making obvious changes to colors of the pixels
- Thus can store other info in pixels using special steganography ("hidden writing") program
- Needs the same special program to decode the hidden message
- Must know that the message is hidden in the image

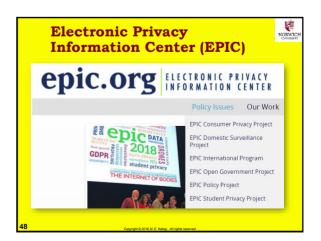












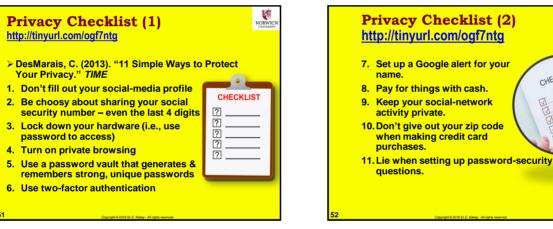
Privacy International (PI)

- ≻ AI
- Biometrics
- Data Retention
- Communications Surveillance
- Cross-Border Data Access
- Cyber Security
- Data Protection
- Financial Privacy
- > GDPR
- Govt Hacking

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- Identity & Privacy
 - ≻ IoT
 - Mass Surveillance
 - > Migration & Borders
 - > Policing & Tech
 - ➤ Profiling
 - > Security-Assistance Agreements between
 - Governments
 - Smart Cities Social-Media
 - Surveillance

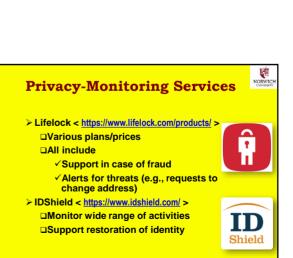




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AARP Fraud Watch

AARP [US] https://www.aarp.org/

Join Renew

AARP

Fraud Watch Network

http://tinyurl.com/y77czozd

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CHECKLIST

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