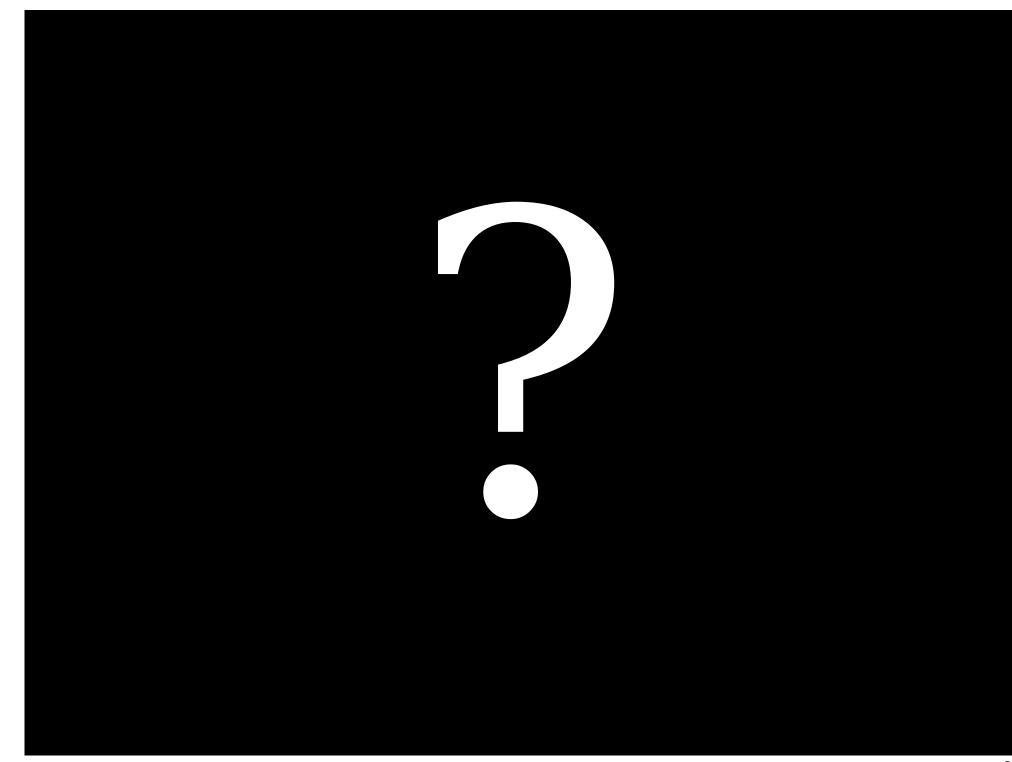
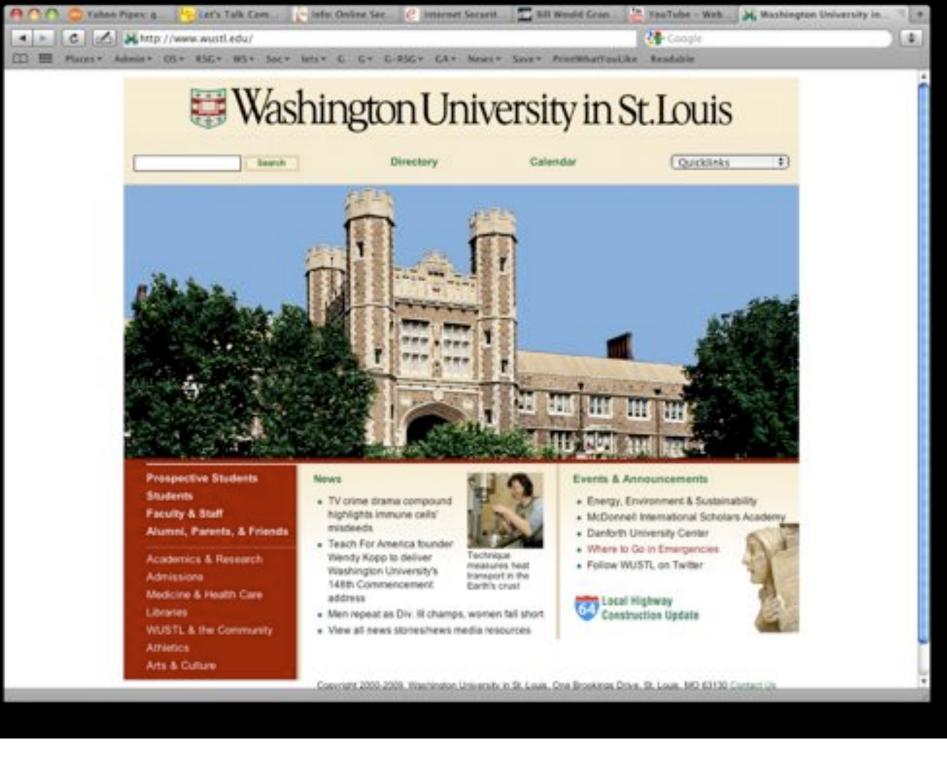
National Security After 9/11: Technology & the Law Ladue Chapel Presbyterian Church R. Scott Granneman Denise Lieberman

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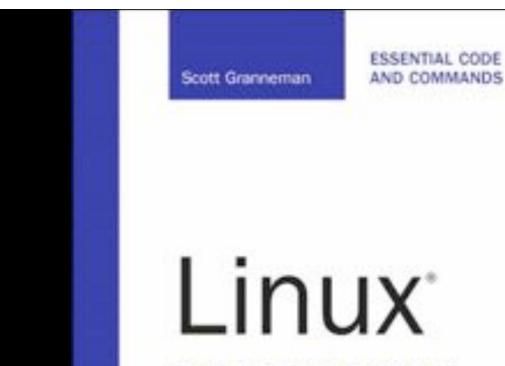


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Washington University in St. Louis

Technology in Our Changing Society Technology for Managers Web Site Management Web Design & Advanced Web Design From Blogs to Wikis: **Building Community** in a Virtual Environment **Practical Security** Technology & the Law



PHRASEBOOK







PRACTICE SOFTWARE FREEDOM

Mac and iPhone book for users and developers



Mac OS X Snow Leopard for Power Users

Advanced Capabilities and Techniques

Scott Granneman

Apress.

Denise Lieberman denise@deniselieberman.com 314-780-1833



Legal Director of ACLU-EM 1997-2005



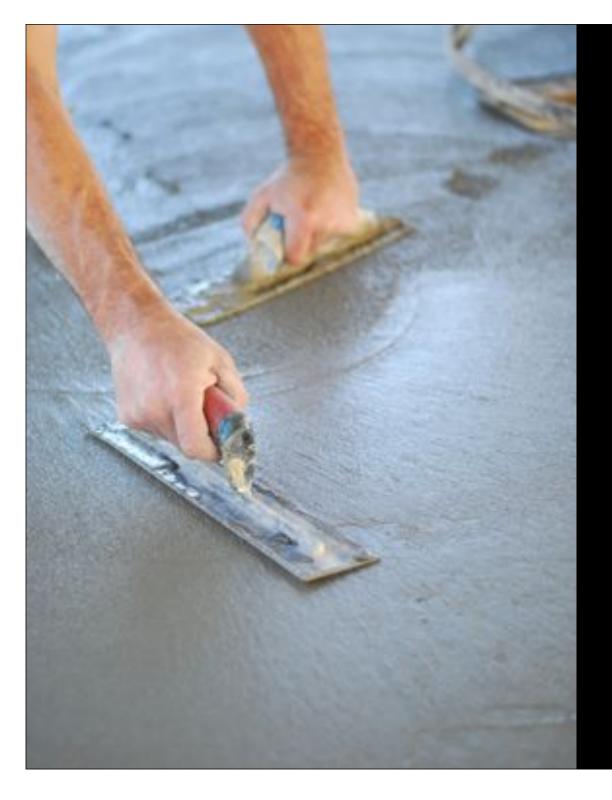
Courts & Civil Liberties National Security, Civil Liberties & the Law Gender & Law Sexuality & Law Technology & the Law



Missouri Voter Protection Coordinator

Technology never gets worse. It only gets better.

Bruce Schneier



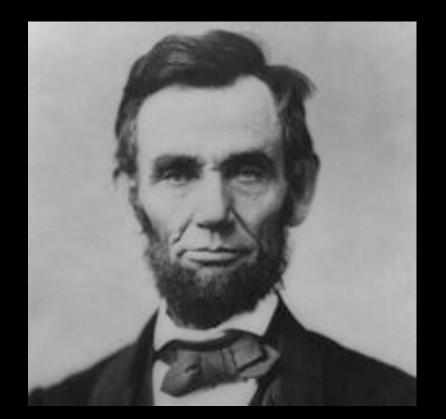
Law is like cement

Civil Liberties & Crisis

Throughout history, conflicts have coincided with curbs on civil liberties

1861

President Lincoln suspends Habeas Corpus

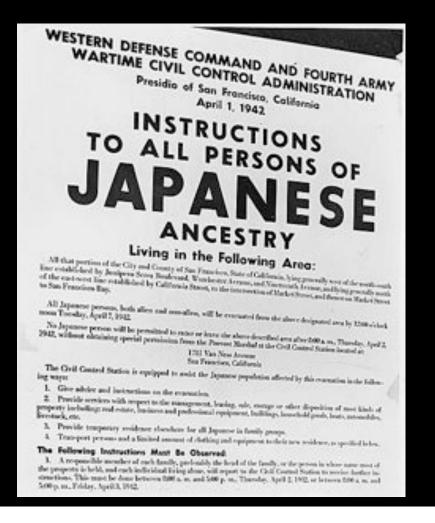


World War I Espionage Act Restrictions on German & Russian immigrants



WWII

Internment of Japanese Americans Military Tribunals



Cold War

Surveillance & investigation of political groups House Un-American Activities Committee



Vietnam War & Civil Rights Movements Targeting of protesters Expansion of FBI powers



9/11



How is 9/11 different?

Technology... changes how threats operate changes how governments respond

Nature of threats different Non-state-sponsored Less hierarchical Dispersed Anonymous

Our response is different Near-constant surveillance

Year	Incident	Deaths
1983	Beirut barracks	242
1985	Air India Flight 182	329
1993	World Trade Center	6
1995	Oklahoma City	168
1998	U.S. embassies in Kenya & Tanzania	224
1998	Lockerbie Bombing	270
2001	9/11	3000

Operation Aurora

Cyber attacks 2^{nd} half of 2009













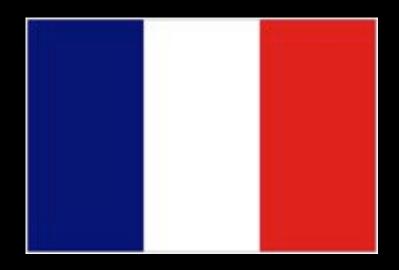


Google's programming code stolen Gmail accounts of dissidents hacked

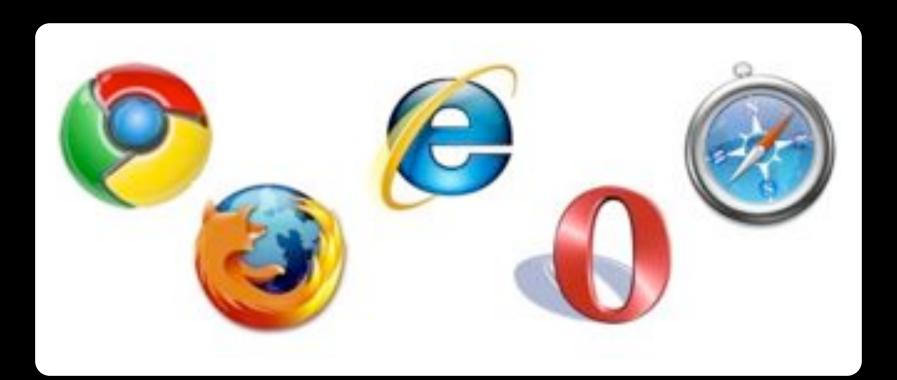
Attackers used *zero-day vulnerabilities* in Internet Explorer

Microsoft later admitted it had known about the holes since September 2009









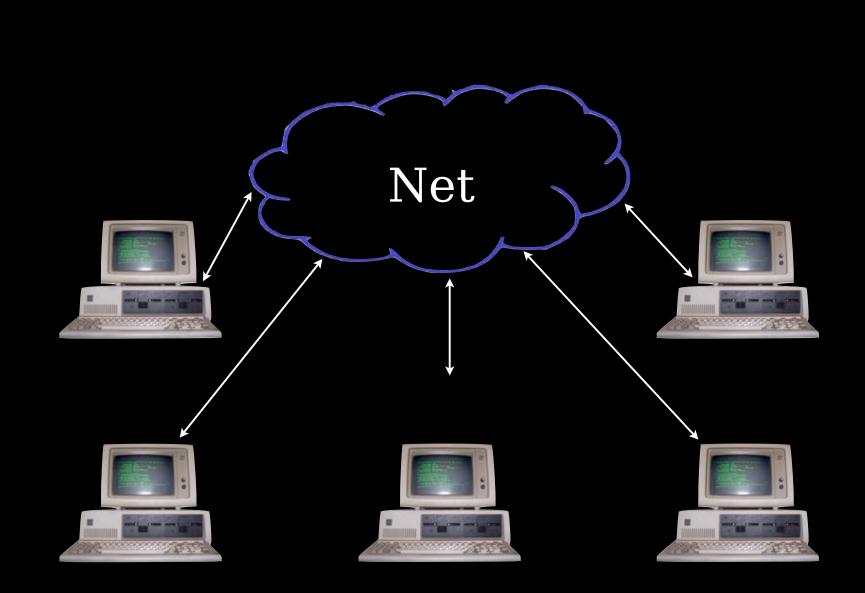


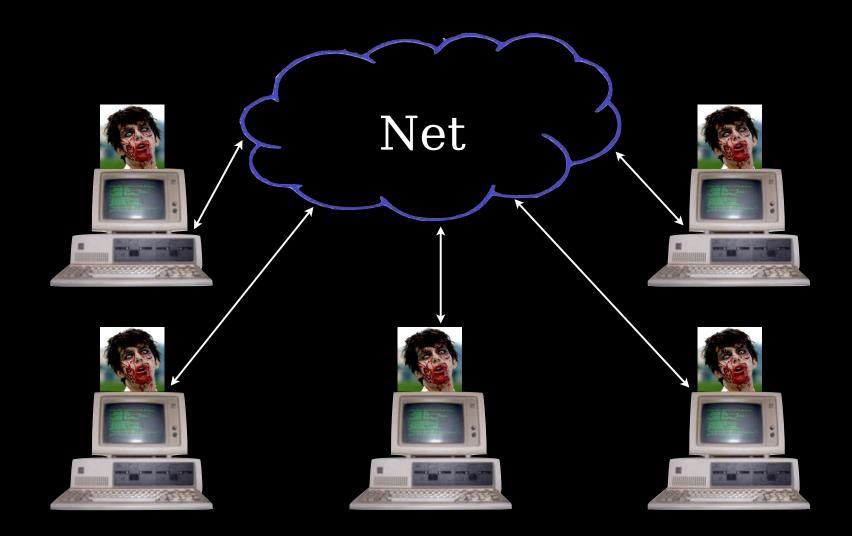


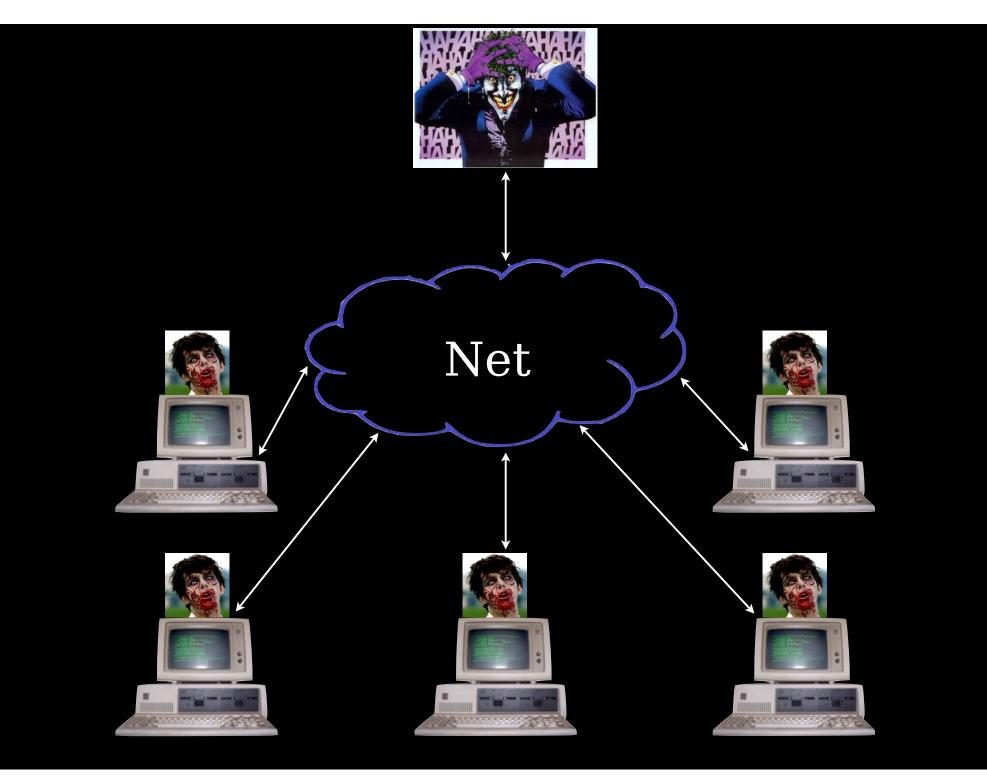
Botnets

June 2007 FBI announces botnet containing over 1 million Windows PCs

What Botnets Are



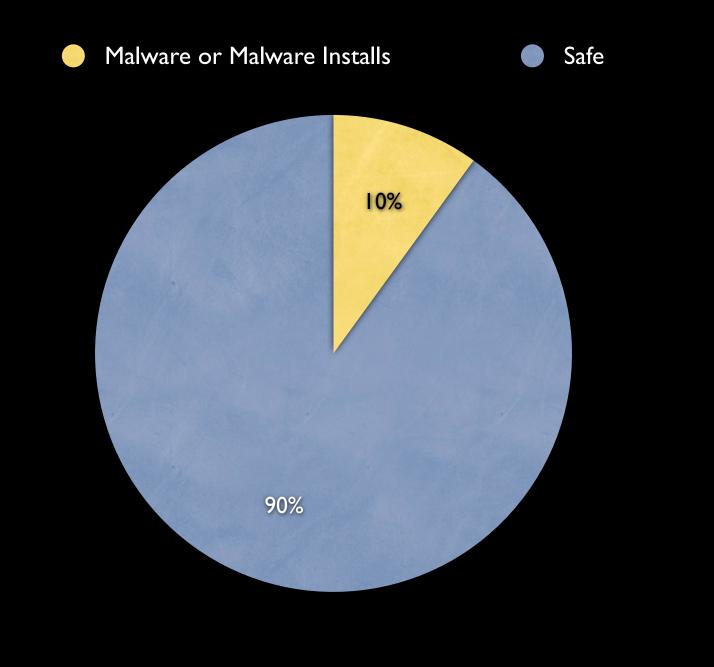


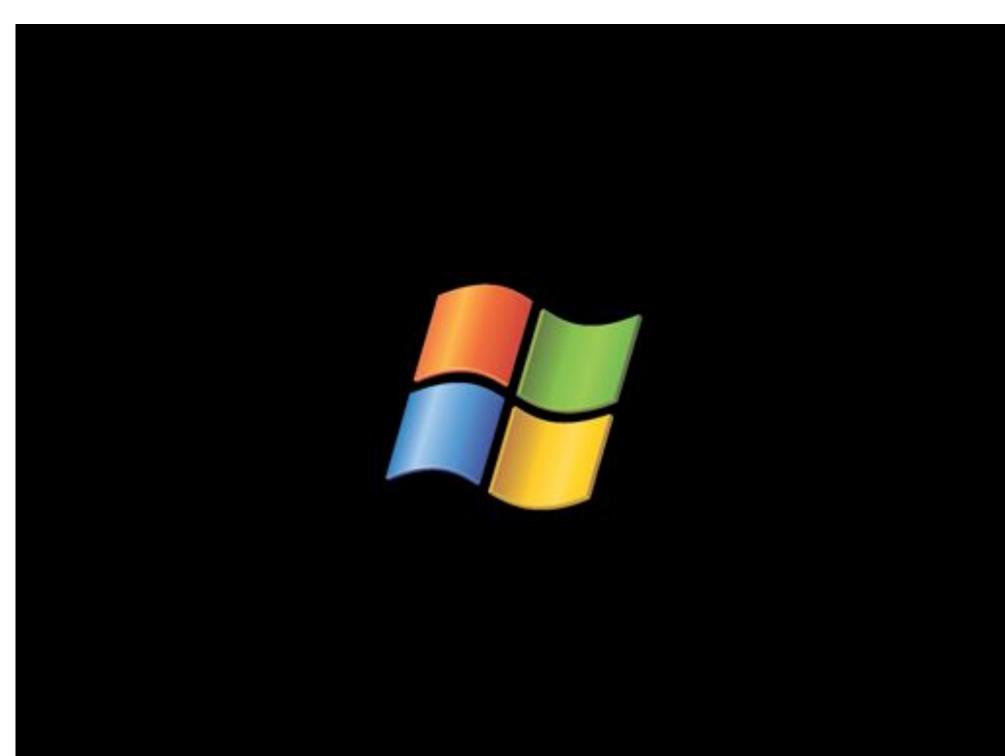


How Botnets Spread

Google researchers examined 4,500,000 web pages

http://www.networkworld.com/community/?q=node/15121 http://www.usenix.org/events/hotbots07/tech/full_papers/provos/provos.pdf

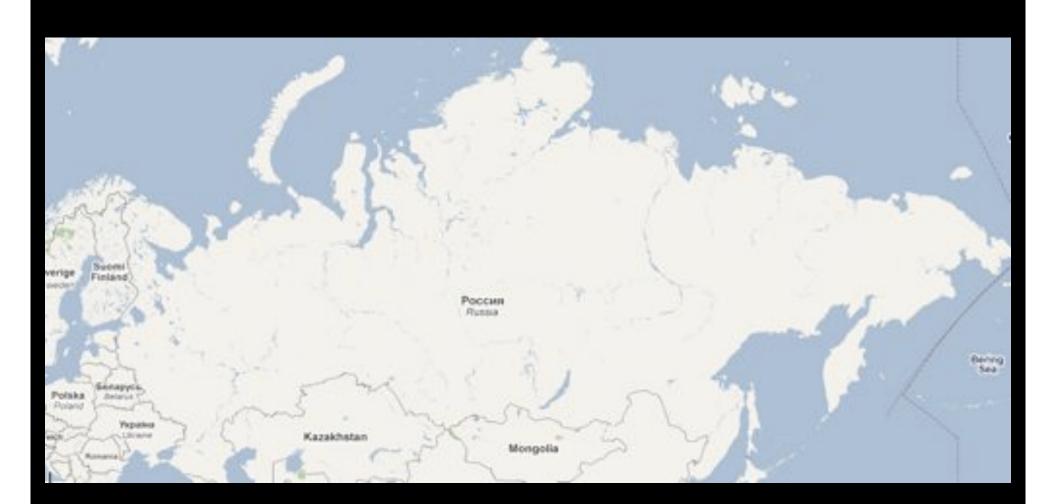




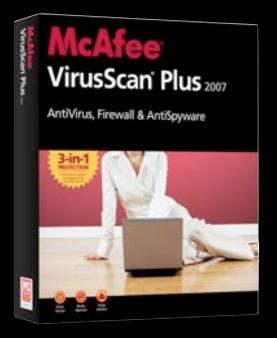


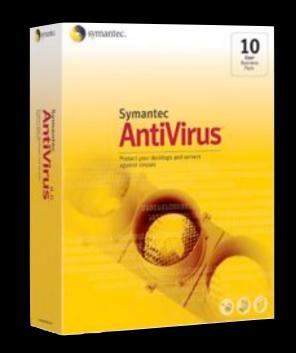
Storm

"Professionalized crimeware"



Works like peer-to-peer network No central location & no one command point to take out Communications encrypted







As you try to investigate Storm, it knows, and it punishes.

Security researcher

Who?





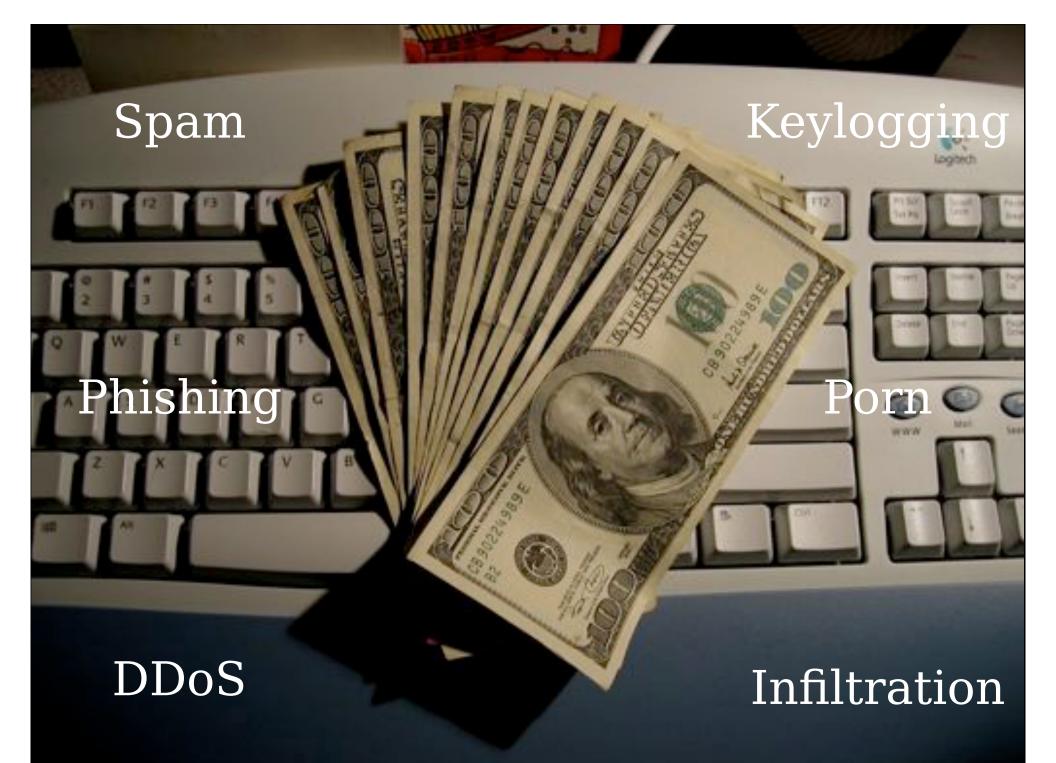


"... skilled, professional software developers learning from their mistakes, improving their code on a weekly basis and making a lot of money in the process."

http://searchsecurity.techtarget.com/news/article/0,289142,sid14_gci1286808,00.html







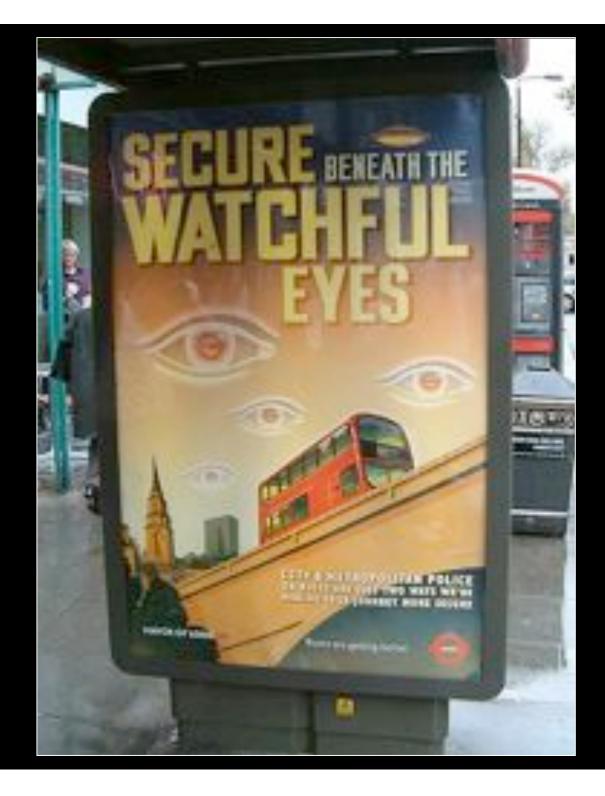
<u>\$100</u> day	DDoS attacks
\$1000	10,000 bots for spam

\$1	Credit card & CVV
\$10	Credit card, CVV, & SSN
\$50	Full bank account

Surveillance

You have zero privacy anyway. Get over it.

Scott McNealy, Sun, 1999



Better & Better

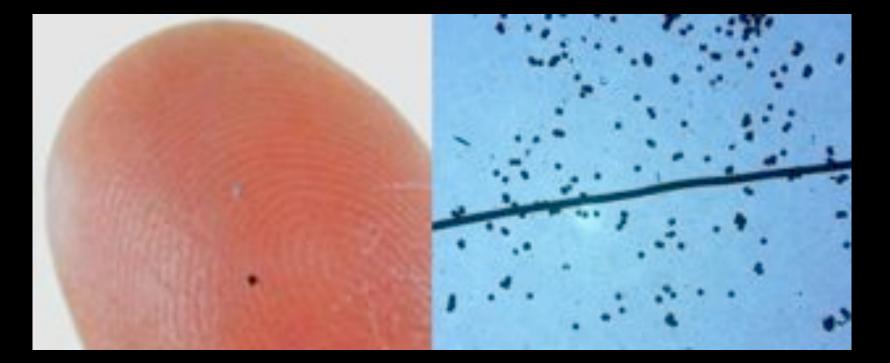


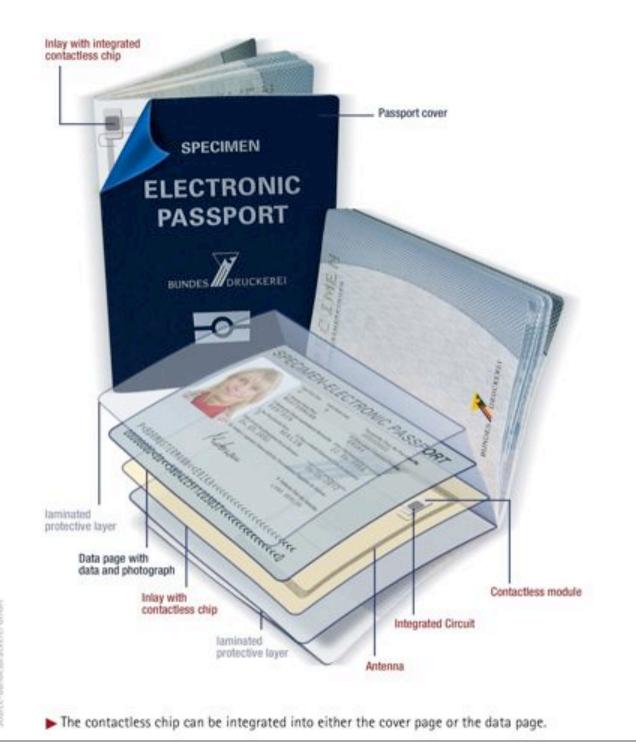






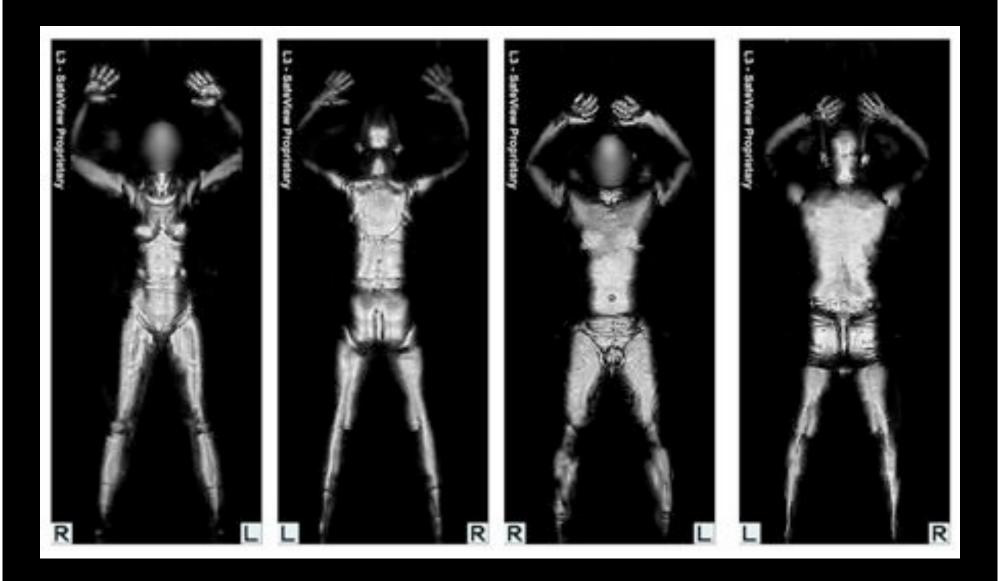






There is a subscription of the

Virtual strip searches?



Virtual strip searches?



Virtual strip searches?



2009 TSA claims "scanned images cannot be stored or recorded."

2010

US Marshals saved 10s of 1000s of images

TSA requires all scanners to be able to store & transmit images

Heathrow Airport, March 2010

Airport worker photographs woman's image as she goes through a scanner

The Miami Herald 7 May 2010

"Miami airport screener accused of attack after jeers at genitals"

The Daily Mail October 18, 2009 "Child porn fears scupper airport 'nude X-ray' scans"

US Government's Response

PATRIOT Act

Expanded government access without probable cause of a crime

✓ Business documents
✓ 3rd party documents
✓ Electronic communications

FBI given greater latitude to go on "fishing expeditions"

NSA wiretapping of all international phone calls

No, all domestic phones calls & emails!

Objections

Will bad guys "take down the Internet"?

"If you're not doing anything wrong, then you won't object if the government watches you."

2 maxims about power

2 maxims about power

Power corrupts, & absolute power corrupts absolutely

2 maxims about power

Power corrupts, & absolute power corrupts absolutely

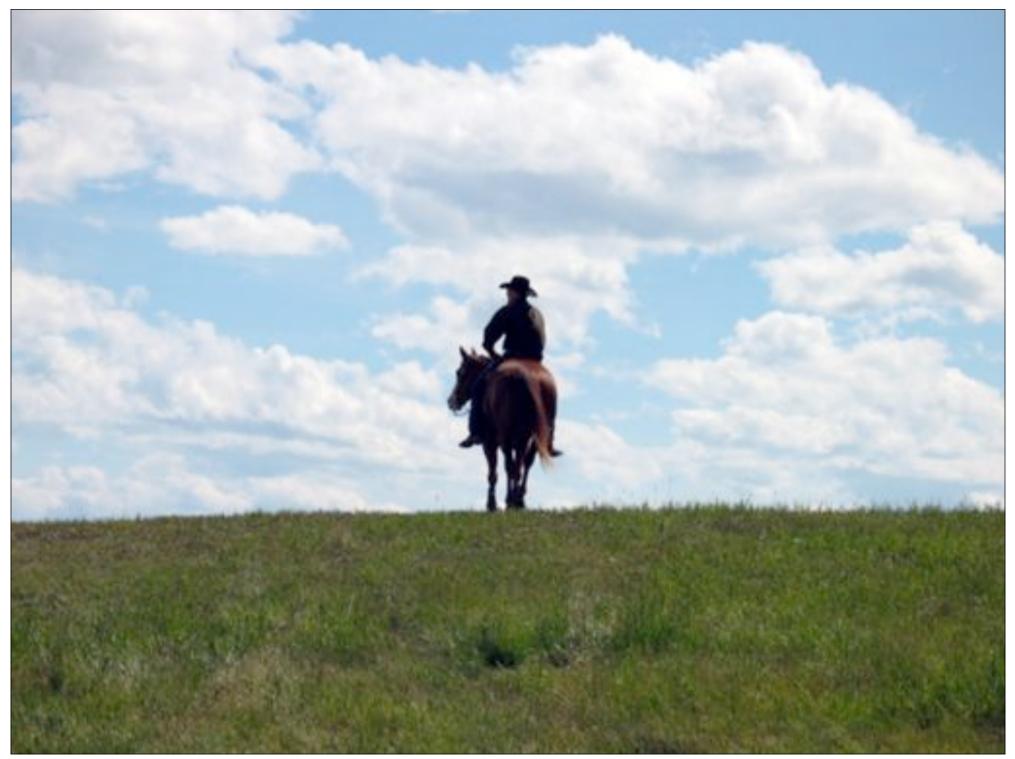
Quis custodiet custodes ipsos? (Who will watch the watchers?)

Cardinal Richelieu:

"If one would give me six lines written by the hand of the most honest man, I would find something in them to have him hanged."

Malo periculosam libertatem quam quietum servitium

(I prefer liberty with danger to peace with servitude.)



Thank you!

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Questions? Email scott@granneman.com