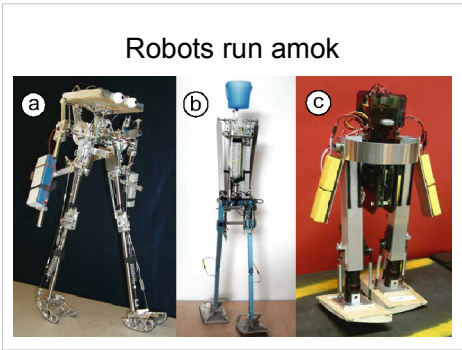
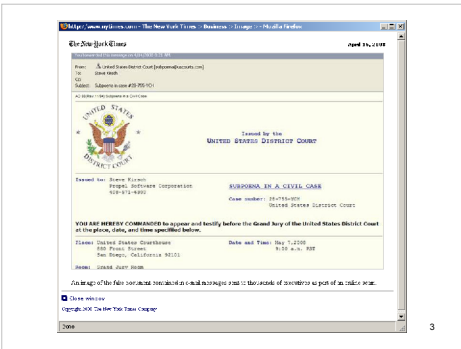




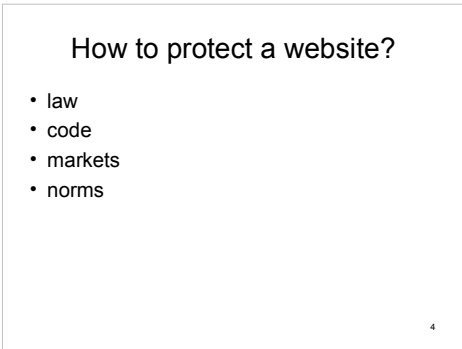
1



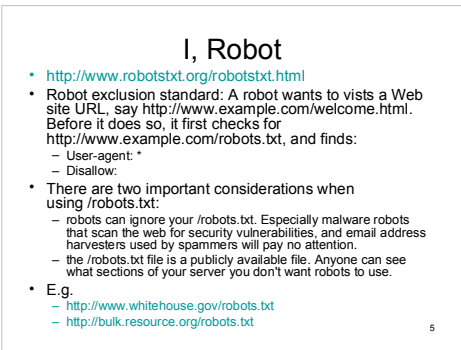
Robots run amok



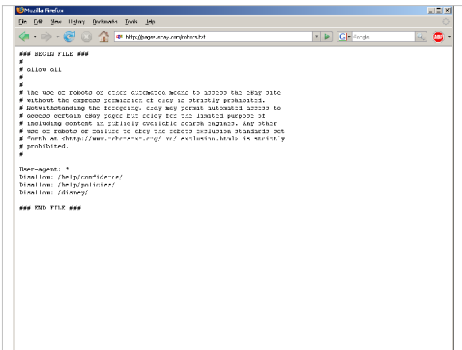
3



4



5



## CheepTix

- CheepTix.com wants to set up an airfare search engine to help travelers find discount flights to vacation spots, offering alternative destinations if it can't find the one requested. CheepTix gets its listings by "crawling" airline websites and "screen-scraping" the fare information they list.
- Just before launch, the CheepTix GC comes to you for advice. What questions do you have for her in assessing the risk of a lawsuit?

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- You (a different you) have been hired by Gamma Airlines to develop the company response to screen-scraping robots. Help your client to evaluate the business and legal considerations here.

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## eBay v. Bidder's Edge



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## Intel v. Hamidi



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## Register.com v. Verio



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The data in Register.com's WHOIS database is provided to you by Register.com for information purposes only, that is, to assist you in obtaining information about or related to a domain name registration record. Register.com makes this information available "as is," and does not guarantee its accuracy. By submitting a WHOIS query, you agree that you will use this data only for lawful purposes and that, under no circumstances will you use this data to: (1) allow, enable, or otherwise support the transmission of mass unsolicited, commercial advertising or solicitations via direct mail, electronic mail, or by telephone; or (2) enable high volume, automated, electronic processes that apply to Register.com (or its systems). The compilation, repackaging, dissemination or other use of this data is expressly prohibited without the prior written consent of Register.com.

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Email: domainregistrar@register.com  
Register Name: Register.com  
Register Whois: whois.register.com  
Register Homepage: http://www.register.com  
Domain Name: REGISTER.COM  
Created on: Wed, Aug 04, 1999  
Expires on: Tue, Aug 08, 2015  
Record last updated on: Fri, Jun 09, 2006  
Administrative Contact, Technical Contact, Zone  
Register.com, Inc.  
Domain Registrar  
275 Eighth Avenue, 11th Floor  
New York, NY 10018  
US  
Phone: 212-798-6100  
Fax: 212-798-5644  
Email: domainregistrar@register.com  
Domain servers in listed order:  
NS1 REGISTER.COM 216.21.254.96  
NS2 REGISTER.COM 216.21.256.96  
NS3 REGISTER.COM 216.21.254.97  
NS4 REGISTER.COM 216.21.256.97  
Visit <http://about.isrg.org> for more information about  
[About: register.com](http://about.isrg.org)

## EF Cultural Travel v. Zefer



Zefer (contractor)

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## How far is too far?

- Sending a worm that exploits holes, guesses passwords, and bogs down computer networks.
- Scraping screens from a publicly accessible website
- Even if tipped off to the organization of those screens by a misappropriated trade secret?

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## How might we stop spam?

- CAN it?
- Block it?
- Ignore it?

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## How might we stop spam?

- CAN it? (law)
  - Place liability on the sender
  - Place liability on the advertiser
  - Place liability on the ISP
- Block it?
  - Where?
    - At the ISP level
    - At the user level
  - How?
    - Blacklists
    - Black hole lists
    - Whitelists
    - Trusted senders
    - Sender confirmation
    - Do-not-email registry
- Ignore it?

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## How should we evaluate anti-spam?

- Who is regulating / regulated?
- Who feels the impact?
  - Who apart from the target?
- How effective is the regulation?
  - Where are its errors?
- How easy to administer?
- How transparent is the regulation?

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## CAN-SPAM

- What's prohibited?
- Who can enforce?
- Against whom?

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## What are the effects of spam-blocks?

- On spammers?
- On email recipients?
- On non-spamming email senders?
- On developers of email software?
- On ...

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## Special Medzz

- Bruno's Botanicals wants to introduce people to its new "healing compound." Can it harvest email addresses of potential customers from natural healing weblogs?
- Can it send emails to its prior customers?
  - If Bruno hasn't asked for their consent?
  - From [bruno@amazon.com](mailto:bruno@amazon.com), because that's more likely to get opened?
  - If the list includes customers who have specifically opted out of email communications?

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## Technical measures

- MAPS RBL
  - Blackhole lists of IP addresses "that have been shown to send spam and/or allow their resources to be used by those who send spam."
  - "Loss of connectivity hurts us all. Spam hurts us all even more."
- DomainKeys sender authentication
  - Signatures linking email messages to the domain from which they are sent
  - "Finally, you could choose to send unauthenticated mail.... If you choose this path, you should carefully monitor the amount of authenticated mail over time to ensure that this strategy does not impact the deliverability of your email."

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## Technical measures...

- Local spam blockers
  - Spamassassin
  - DSPAM
  - Bayesian filtering
- Other sender verification
  - Bonded sender
  - Challenge-response
  - Whitelist

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## OptInRealBig v. SpamCop

- SpamCop runs a service to which users can forward spam they have received. SpamCop identifies ISPs from header information and URLs in the message, and forwards complaints mechanically to ISP abuse departments.
- OptInRealBig is a "sender of bulk commercial emails" whose ISPs limit or terminate service after complaints received via SpamCop.
- Can OptInRealBig recover from SpamCop? <sup>23</sup>

## How should we evaluate anti-spam?

- Who is regulating / regulated?
- Who feels the impact?
  - Who apart from the target?
- How effective is the regulation?
  - Where are its errors?
- How easy to administer?
- How transparent is the regulation?

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DKIM.org

Home Deployment DKIM WG FAQ RFPs

### DomainKeys Identified Mail (DKIM)

Introduction News Industry Activity Deployment Collaborators

DomainKeys Identified Mail (DKIM) lets an originator take responsibility for a message while it is in transit. The originator is a handler of the message (either an originator or an intermediate). The originator is the basis for evaluating whether to trust the message for delivery. Traditionally, DMARC provides a method for validating a domain name identity that is associated with a message through cryptographic authentication.

The DKIM WG website is hosted by MBPA (Mutual Internet Practices Association).

#### Introduction

The first version of DKIM was developed as an extension of the original DomainKeys and Identified Mail email specifications. It was the result of a year-long collaboration among various industry players, including AOL, to develop an open standard email authentication specification. Participants include AOL Technologies, AOL, Broadwing Information Systems, Cisco, Earthlink, IBM, Microsoft, POP Corporation, Sendmail, StrongMail Systems, Tumbleweed, VeriSign and Yahoo!. The team produced the initial specification and consulting on email, which submitted the work to the IETF for further development and formal standardization. The IETF has now approved the revised specification as a Proposed Standard and published it as RFC 4871.

- [DKIM 0 slide Teaser, 2 October 2004](#) (pdf, ppt)
- [DomainKeys Identified Mail \(DKIM\): Introduction and Overview, 27 March 2004](#) (html, pdf, ppt)
- [DomainKeys Identified Mail \(DKIM\) Overview Overview, draft-ietf-dkim-overview](#) (pdf, html, ppt)
- [E-Mail Authentication Proposal DomainKeys Identified Mail Submitted to the IETF for Consideration](#)