# E-Commerce I

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1. Introduction and discussion.

Coming Up

Quiz.

1 Administrivia
Announcements
Quiz questions?
Assignment
Read 10.4–10.5 and Chapter 10 Above & Beyond. Questions on pg. 600: 17, 18, 21. Questions on pg. 607: A3, A4.
From Last Time
JavaScript lab.
Outline

# 2 Introduction and Discussion

# 2.1 Advantages and Discussion

The advantages of e-commerce:

- 1. To start, ask students.
- 2. Use search engines to find best prices. froogle.com, bizrate.com, shopper.com.
- 3. Can find almost anything.
- 4. Great prices on used items through online auctions.
- 5. No sales tax.

The disadvantages of e-commerce:

- 1. To start, ask students.
- 2. Can't see items (important for clothes).
- 3. Concern over eavesdropping on connection, e-commerce site being hacked, marketing of customer data.
- 4. Shipping costs.
- 5. Have to wait for package to arrive.

But: package tracking; typical delivery times.

### Personal experience:

1. Credit card information hacked (McGlen).

- 2. Item advertised was not item delivered (video card).
- 3. SPAM.

## 2.2 Safeguards

- 1. Shop with merchants whom you know and trust.
- 2. Look for and read each merchant's delivery, return, and privacy policies.
- 3. Never transmit sensitive data over a page which does not have an address beginning with https:// and a locked padlock icon.
- 4. Make online purchases with a credit card, not a debit card.
- 5. Don't hit the "BUY" button more than once be patient.
- 6. Never send credit card info via e-mail.
- 7. Print and save all online receipts at least until you receive all ordered items in good condition.
- 8. Search for the best prices before buying.

#### Background:

1. Digital Certificates: sent by Web site; used to encrypt session data.

But still, how do you know the site is legitimate?

2. Certificate authorities: organizations which vouch for e-commerce sites.

Web browsers have a list of them. Sometimes, the list must be updated.

### 2.3 Potential Problems

1. Site spoofing: Counterfeit Web sites (www.whitehouse.gov vs. www.whitehouse.com).

2. Unauthorized disclosure: Sending sensitive data in the clear.

Why would they do that?

- 3. Unauthorized action: Unauthorized alteration of Web pages.
- 4. Data alteration: Intercept and modification of data being transmitted to a Web site.

Encryption via SSL guards against all of these. 128-bit encryption is best (no one can break). Don't accept anything below 64-bit (only NSA can break) — 56 or 40.