ANNOUNCEMENTS

- No posting of code in the forum
- Check class announcements daily
TWO-DIMENSIONAL ARRAYS

- JavaScript does not support actual two-dimensional arrays
- You can simulate two-dimensional arrays by using arrays of arrays
- About two-dimensional arrays
  - You can pass them and return them from functions like one-dimensional arrays
  - Any modifications in the function will be permanent
  - You can have ragged arrays
  - Nested loops (in particular for loops) are used with two-dimensional arrays
- Example: TwoDimensionalArrays.html
- Example: Let’s define a two-dimensional array of strings
What is electronic-commerce (e-commerce)?

- The buying and selling of goods and services on the Internet, in particular the Web
- Typically involves a shopping cart system and a payment processing system

Sales Estimates

- E-Commerce sales (first quarter of 2010) → $38.7 billion

According to eMarketer, biggest product categories are:

- Computer products, books, music, financial services, home electronics, apparel, gifts and flowers, travel services, others
ELECTRONIC-COMMERCE

- Advantages of e-commerce
  - Transaction processing costs are lower
  - Provide more information to customer than previously available
    - Where is your package?
  - Larger catalogs
    - Can you image sending over mail Amazon’s catalog?
- Difficulties with e-commerce
  - Getting people to come and return to a site
  - Getting people to buy
- Success stories
  - Amazon.com
    - [http://money.howstuffworks.com/amazon.htm](http://money.howstuffworks.com/amazon.htm)
  - Dell.com
ELECTRONIC-COMMERCE

- Affiliate Programs (Associate Programs)
  - Pioneered by Amazon
  - Amazon allows a person to set up a specialty book store
  - When someone buys from the specialty store the owner receives a commission
- CPC Link (CPC=Cost Per Click)
  - If you put a link to a company on your site the company pays you when someone clicks on the link
Recommendations for Setting an e-commerce site

- Might need a web hosting company supporting e-commerce
  - The company should provide support for credit card payments
  - Reasonable disk capacity that can change easily
  - Good network connection to the internet’s backbone
  - Security support for transactions
  - Reasonable support software
FUNCTIONS AS PARAMETERS

- We can pass functions to functions
- **Example:** AnonymousFunc.html
- Anonymous function
  - Dynamically declared at run time without having to provide a name
  - You can pass the anonymous function as a parameter
  - Can be used as a callback function
  - What is callback function?
- **Example:** FunctionsAsParameters.html
- **Example:** Geolocation
PROJECT #4

- Let’s discuss the data validation process