

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

ELECTRONIC-COMMERCE

- ❖ 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
 - ❖ <http://www.census.gov/retail/mrts/www/data/html/10Q1.html>
- ❖ 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>
 - ❖ 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

ELECTRONIC-COMMERCE

- ❖ 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
 - ❖ <http://www.cs.umd.edu/~nelson/classes/utilities/Geolocation.html>

PROJECT #4

- ❖ Let's discuss the data validation process