

Announcements

- Project #1 due tonight
- Project #2 will be posted today
- Research Paper assignment will be posted soon
- We will begin Javascript on Friday

Authoritative Web Resources

Great examples:

<http://www.dhmo.org/>

Web Page Authors

The Web is Scary

Be Careful!

- **Anybody can create a web page**
- **Web sites are not typically reviewed by experts**
- **Information may be inaccurate, biased, out-of-date, propaganda, or just plain lies!**

Evaluating Web Sources

- Does the URL look like a personal page?
- Is it written by an expert?
 - Is information included about the author?
 - Try doing a search for the author's name
- Is the domain name a known entity?
 - www.wallstreetjournal.com
 - www.nih.gov
- Is it current? (Look for “last updated...”)
- Are sources cited?
- Does it appear biased?
- What is the author's motivation? Conveying information?
Selling something? Political agenda?

Evaluating Web Sources

Lookup useful info about a website here:

<https://www.whois.com/whois/>

Excellent resource for more information:

<http://www.lib.berkeley.edu/TeachingLib/Guides/Internet/Evaluate.html>

Doing Research: Advantages of the Library

Library	World Wide Web
Universal cataloging/classification systems	No universal organization
Almost everything has been edited and reviewed prior to publication	Anybody can create a web site! (Scary.)
Free information	Some resources only available through paid subscription
Knowledgeable librarians on site	You are on your own
Frequently has materials dating back many years	Typically only newer resources are available

Doing Research: Advantages of the WWW

World Wide Web	Library
Information instantly at your fingertips	Requires you to physically walk around searching for materials
Enormous amount of material available	Limited amount of material available
Available 24 hours a day	Only open during certain times
Constantly updated to provide most current information	Updates tend to come slowly
Complete multi-media experience	Mostly just books and printed materials
Resources do not disappear on you	Books can be checked out by other patrons

Search Engines

- Google
- Yahoo!
- Bing
- Ask Jeeves
- Many others...

Search Engine

Behind the Scenes:

- Maintains database of on WWW (presently about 100 billion web pages)
- Constantly “crawls” the WWW looking for new pages

When you “search”:

- Ranks pages that you are seeking
 - Word occurrence and placement
 - Popularity of page
 - Much more (over 200 factors for Google search!)

Effective Searching

Be specific:

- **cat food vs. cat food nutrition recommended**
- **art vs. modern art colorful**

For academic research, try including terms like:

**database, directory, association, center,
institute, etc.**

More Tips

Use “or” to find webpages with one or more of your terms:

politician (Delaware or Maryland or Virginia)

Use quotes for exact phrase:

best cat food ever vs. “best cat food ever”

Use ‘-’ to exclude a word

best cat food ever -dry

Review – Identifiers and Classes

**Let's look at a solution to the in-class exercise from last time...
(Next slide please...)**

Snorkeling

Introduction

Snorkeling is really a lot of fun! Even if you're not a great swimmer, you can see a lot of interesting life underwater by snorkeling. Although scuba divers can explore further down in the depths of the ocean, snorkeling still allows you to explore the surface of the ocean without the expense and complexity of scuba diving. Even little children can enjoy snorkeling.

Fun Facts

- Snorkels were used 5000 years ago by sponge farmers in Crete.
- There are three kinds of snorkel: dry, semi-dry, and wet.
- Snorkeling is a lot easier with fins!

Equipment

Typical Snorkeling Equipment

name	purpose
snorkel	allows you to breathe
mask	keeps water out of your eyes and also keeps water from going up your nose
fins	allow you to propel yourself more easily
wet suit	optional – keeps you warm
booties	optional – protects your feet while entering/exiting the water
camera	optional – let's you document what you've seen

JavaScript Overview

- **HTML/CSS is not really “programming”**
- **JavaScript is a “scripting” (lightweight programming) language.**
- **JavaScript programs can be embedded into web pages**
- **Web pages become “dynamic” (interactive)**
 - Perform calculations
 - Respond to user’s actions
 - Modify behavior based on circumstances
 - Repeat tasks/outputs
 - Communicate with server
- **JavaScript is not Java**

Quiz #2

Please clear your desk...