

Ì	Internet Basics
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	Strategy2Design

## Internet Basics

## Origins of the Internet

- Advanced Research Projects Agency (ARPA) of the U.S. government created the Internet in 1969
- Un-interruptible communications network
- Government
- Military
- Research

### **Internet Basics**

## Benefits of the Internet

- It was a worldwide system of computer networks a network of networks
- It allowed research scientists to "talk to" each other at distant universities, military installations, etc.
- All text-based information
   HTLML

## Internet Basics

### The Key Benefit

- Messages could be routed or rerouted
- In more than one direction
- Network could/would continue to function even if parts of it were destroyed\* in the event of a military attack or other disaster.
  - \*It worked on September 11th when cell phones couldn't...

## Internet Basics

### What is the Internet today?

- worldwide network of networks open to the public that is used for:
  - Communication
  - Research
  - Education
  - Commerce
  - Military/government business
- Entertainment
- everything...

### **Internet Basics**

#### What changed?

- Creation of the WWW
   Tim Berners-Lee 1989
- Development of a Graphic User Interface (GUI) A "Browser"
  - MIT Mosaic 1993
- WWW part of the Internet became accessible to the public

### **Internet Basics**

#### What Is A Browser

- A translator of programming language
- A graphical interface for the code
  - A window to the Internet
- A way to access search tools
- A tool for bookmarking favorite sites
- A tool for collecting images for later use

### Internet Basics

## The Internet & Education

- Research
- WebQuests
- Virtual field trips
- Communication
- Publishing
- Contact experts
- Global Projects

### Search Basics

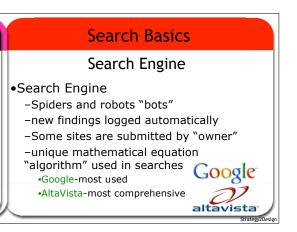
## Where do we begin searching?

- Understand the search tools
- Pick a topic
- Formulate a search question
- Choose keywords and phrases
- · Give it a few tries
- Refine your methods
- Create a strategy
- Modify your strategy

### Search Basics

### Understand the Search Tools

- Search Engine and Meta Search Engine
- Directory (also called subject directories)
- Portal (also called vortal vertical portal)
- Database
- User/Discussion Groups
- Blogs
- Wikis
- Podcasts



### Search Basics

### Meta Search Engine

- Engines that search other engines
- oOne search returns results from many other search engines
  - Dogpile
  - www.dogpile.com
  - Mebcrawter
     Mamma Metasearch
  - http://www.mamma.com/

### **Search Basics**

## (also called subject directories)

- Good starting point if you don't have a very specific topic or question
- Good for general questions
- very selective
- index reviewed by human being
- smaller database coverage
- paid inclusion

## Search Basics

### Specialized Search Engines

- Directory of Google Custom Search Engines for Teachers http://www.customsearchengine.com/
- Digital Library for Earth System Education

http://www.dlese.org/library/index.jsp

## Search Basics

### Meta Site

(also called specialized directories or portals)

- Good starting point if you need info on a specific topic or question
- Specialized
- Very selective
- Immediate "expertise"
- Index reviewed by human being
- Smaller database coverage
- Paid inclusion

## Search Basics

### Pick a topic and a tool

- Choose between
  - Directory
  - Meta site or specialized directory
  - Search Engine
  - Meta search engine
  - Specialialty search engine

### Search Basics

### Formulate a search question

- This may be given by the teacher
  - Make it a good question!
  - Research rather than report
  - Open ended!
- This may be chosen by the students
  - Help them ask a good question
- Research rather than report
- Workable





## Search Basics Modify your strategy

- •Make corrections to narrow or expand
- •Choose different keywords
- •Use Boolean terms or quotes
- •Change the order of words

# The Grammar of the Internet

## How to read the URL

- (http://) is a protocol name
- · (www.) is the location of the site
- (gpsk12) This is the name of the organization that maintains the site
- (.com, .org, .gov, .net, .mil, .edu or state.us) domain or suffix that identifies the category of the organization
- http://www.gpsk12.org

## The Grammar of the Internet

### Look at these URLs

http://ccbit.cs.umass.edu/SchoolofEducation/Preservice/v rroom

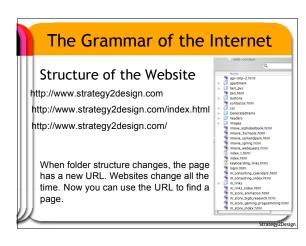
http://memorialhall.mass.edu/home.html

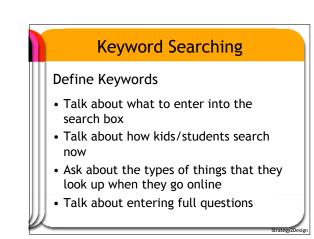
http://www.strategy2design.com/keyboarding\_links.html http:broccoli.cs.umass.edu/pvma/pvma\_staging/ http://www.gazettenet.com/12032001/sports/sports.htm http://massachusetts.ihigh.com/0,1713,5\_\_\_216,00.html

## The Grammar of the Internet

What happens when a page is not found?

- Deconstruct the URL to see if you can find the missing web page...
- Go to the home page and see if there is a search feature

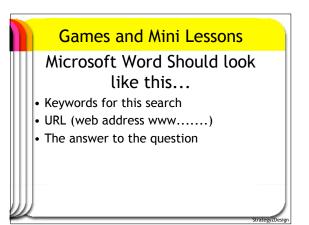


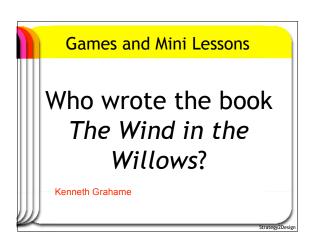


## **Keyword Searching**

How do you teach keyword searching?

- Think out loud
- Brainstorm a list of keywords
- Take keywords out of questions
- Formulate research questions
- Practice
- Use games and make it fun!

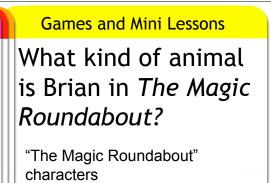




## Games and Mini Lessons

What are the short pleated skirts associated with Scotland called?





snail





## Games and Mini Lessons

On which temperature scale is 212 degrees the boiling point of water?

"boiling point of water" Fahrenheit

### Games and Mini Lessons

Part 2 - At high altitude, does water boil at a higher or lower temperature and why?



