

# INTRODUCING THE WORLD WIDE WEB



# TOPICS TO BE COVERED

- ◉ **What Is The World Wide Web?**
- ◉ **Web Sites, Servers, and Pages**
- ◉ **Four Ways Of Finding Web Pages**
- ◉ **Evaluating Web Pages**

# WHAT IS THE WORLD WIDE WEB (WWW)?

- ◉ **A tool for accessing the Internet**
  - Easy to use
  - Can display text and graphics
  
- ◉ **Collection of Web pages residing on computers all over the world**

# INTERNET

```
graph TD;
  Internet[INTERNET] --- WWW[WWW];
  Internet --- Gopher[Gopher];
  Internet --- FileTransfer[File Transfer];
  Internet --- Telnet[Telnet];
  Internet --- Email[Email];
  Internet --- Newsgroups[Newsgroups];
  WWW --- TextOnly[Text-Only];
  WWW --- Graphical[Graphical];
  TextOnly --- Lynx[Lynx];
  Graphical --- Browsers[Browsers];
  Browsers --- Examples["Examples:  
Internet Explorer  
Firefox"];
  ISPs["Private Internet Service Providers  
(ISPs)"];
  ISPs --- List["List of ISPs available at  
http://www.thelist.com"];
  style WWW stroke:#800080,stroke-width:2px;
  style Graphical stroke:#800080,stroke-width:2px;
  style Examples stroke:#800080,stroke-width:2px;
```

WWW

Gopher

Email

Text-Only

File Transfer

Newsgroups

Graphical

Lynx

Telnet

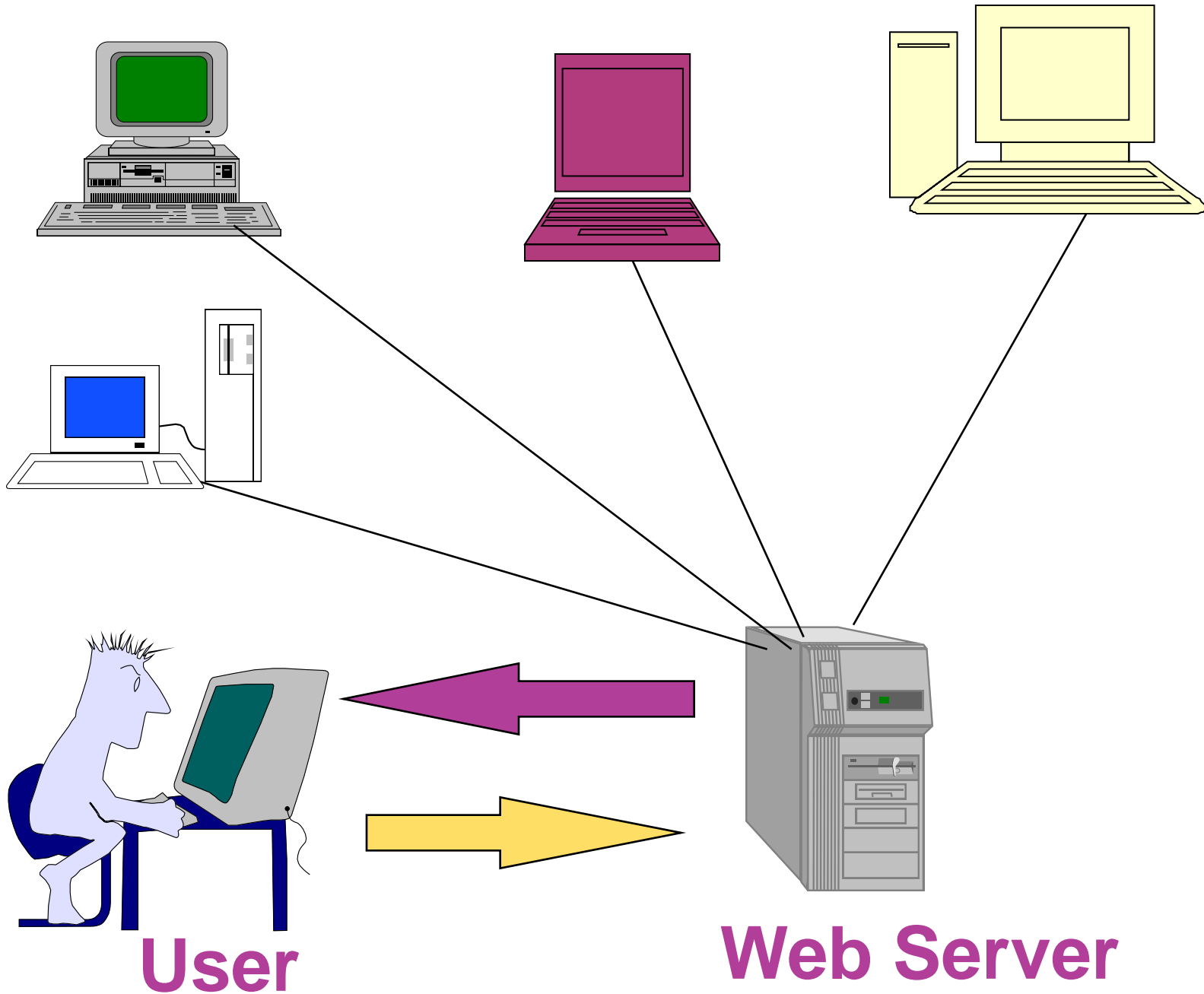
**Browsers**

*Examples:  
Internet Explorer  
Firefox*

**Private Internet Service Providers  
(ISPs)**

List of ISPs available at  
<http://www.thelist.com>

# Web Sites



# WEB SITES AND SERVERS

## ◎What is a Web Site?

**A computer connected to the Internet that stores the Web pages of a certain individual, group, or organization**

## ◎What is a Web Server?

**Specialized software that transmits information from a Web site to a user's computer**

# WHAT IS A WEB PAGE?

- ◉ An **electronic document** residing on a Web server
- ◉ Written in **HTML** (Hypertext Markup Language) coding language
- ◉ May include **images, sound** and/or **video**
- ◉ May have **links** to other Web pages or sections within the same Web page

# WHAT IS A HOME PAGE?

- ⦿ The **initial Web page** transmitted by a Web server when you access a Web site.
- ⦿ A home page typically provides a **table of contents** or directory for other Web pages.

# FOUR WAYS OF FINDING WEB PAGES

- ◉ **Using an Address (URL)**
- ◉ **Web Surfing**
- ◉ **Using Subject Directories**
- ◉ **Using Search Engines**

# Method One for Finding Web Pages

## Using an Address

**Uniform Resource Locator  
(URL)**

# WHAT IS A URL?

**A Uniform Resource Locator (URL) is a unique address typed into the computer to tell it which Web page to retrieve.**

## **Examples:**

**<http://www.loc.gov/index.html>**

**<http://www.scasd.org>**

**<http://www.psu.edu>**

# URL ANATOMY: TRANSFER PROTOCOL

**http://**

◎ **Hypertext Transfer  
Protocol**

# URL ANATOMY: HOST COMPUTER

**http://www.loc.gov**

**http://www.scad.org**

**http://www.psu.edu**

# SOME TYPES OF DOMAIN NAMES USED IN URLS

- ◉ **.edu**      **educational institution**
- ◉ **.com**      **commercial enterprise**
- ◉ **.gov**      **governmental agency**
- ◉ **.org**      **organization, non-profit**
- ◉ **.us, .ca**    **country codes**

# URL ANATOMY: DIRECTORY PATH

<http://www.loc.gov/folklife/>

[http://www.scasd.org/  
2497\\_12012109515/site/](http://www.scasd.org/2497_12012109515/site/)

<http://www.ppath.cas.psu.edu/>

# URL ANATOMY: FILE NAME

**<http://www.ppath.cas.psu.edu/research.html>**

**[http://www.scasd.org/2497\\_12012109515/lib/2497\\_12012109515/FINAL\\_Fall2008\\_Revision.pdf](http://www.scasd.org/2497_12012109515/lib/2497_12012109515/FINAL_Fall2008_Revision.pdf)**

# ERROR MESSAGES

**If you get an error message trying to access a site, it may mean:**

- You have typed in URL incorrectly
- Site is no longer at this address
- Communication lines are busy

**Possible solutions:**

- Check spelling and capitalization
- Try again later

# METHOD TWO FOR FINDING WEB PAGES

## Web Surfing

# WEB SURFING

To begin Web surfing, simply start  
With a good page and then follow  
Links that look interesting

*Surfing* may reveal wonderful  
treasures *but* may also be  
**TIME CONSUMING**

# METHOD THREE FOR FINDING WEB PAGES

## **Using Subject Directories (Subject Searching)**

# WHAT IS A SUBJECT DIRECTORY?

- ⦿ **A listing of Internet resources arranged by subject categories**
- ⦿ **Most have keyword searching available**

# SELECTED LIST OF SUBJECT DIRECTORIES

- ◎ Yahoo

- <http://dir.yahoo.com/>

- ◎ Google Directory

- <http://www.google.com/dirhp>

- ◎ INFOMINE

- <http://infomine.ucr.edu/>

- ◎ About.com

- <http://www.about.com/>

# METHOD FOUR FOR FINDING WEB PAGES

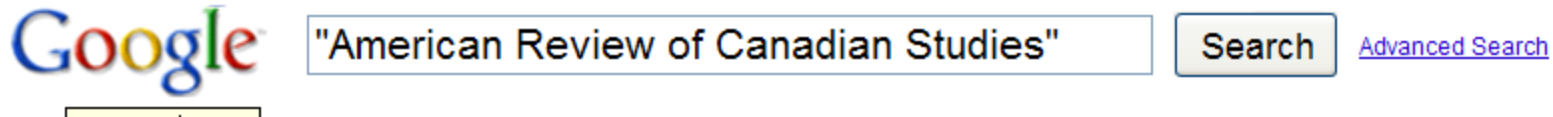
## **Using Search Engines (Keyword Searching)**

# SELECTED LIST OF SEARCH ENGINES

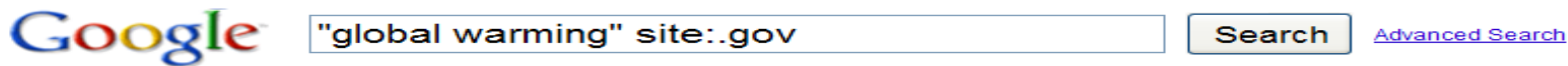
- ◎ **Google**
  - <http://www.google.com>
- ◎ **Yahoo! Search**
  - <http://search.yahoo.com>
- ◎ **Alta Vista**
  - <http://www.altavista.com>
- ◎ **Cuil**
  - <http://www.cuil.com>
- ◎ **Bing**
  - <http://www.bing.com>

# TIPS FOR OPTIMIZING WEB SEARCHES

- Place quotation marks around phrases



- To restrict a Web search to a specific domain, type "site:[domain extension]"



Web [+ Show options...](#)

Results

## [US EPA - Global Warming Site](#)

The EPA Climate Change site provides comprehensive information on the issue of climate change and **global warming** in a way that is accessible and meaningful ...

[www.epa.gov/climatechange/](http://www.epa.gov/climatechange/) - [Cached](#) - [Similar](#)

### [Climate Change: What it is ...](#)

When scientists talk about the issue of climate change, their concern is about **global warming** caused by human activities. ...

[www.epa.gov/climatechange/kids/gw.html](http://www.epa.gov/climatechange/kids/gw.html) - [Cached](#) - [Similar](#)

[+ Show more results from www.epa.gov](#)

## [Global Warming Frequently Asked Questions](#)

Aug 20, 2008 ... Answers to frequently asked questions about climate change.

[www.ncdc.noaa.gov/oa/climate/globalwarming.html](http://www.ncdc.noaa.gov/oa/climate/globalwarming.html) - [Cached](#) - [Similar](#)

## [NOAA Paleoclimatology Program - Perspective on Global Warming](#)

Jul 13, 2009 ... NOAA Paleoclimatology Perspective on **Global Warming**.

[www.ncdc.noaa.gov/paleo/globalwarming/home.html](http://www.ncdc.noaa.gov/paleo/globalwarming/home.html) - [Cached](#) - [Similar](#)

[+ Show more results from www.ncdc.noaa.gov](#)

# EVALUATING WEB PAGES

- ⦿ Quality of information *cannot be guaranteed*
- ⦿ Virtually *anyone* can publish on the Web
- ⦿ Often little or no *editorial review*

# EVALUATING WEB PAGES

- ⦿ Often difficult to determine *authorship*
- ⦿ Information frequently *not dated*
- ⦿ Information often *old*

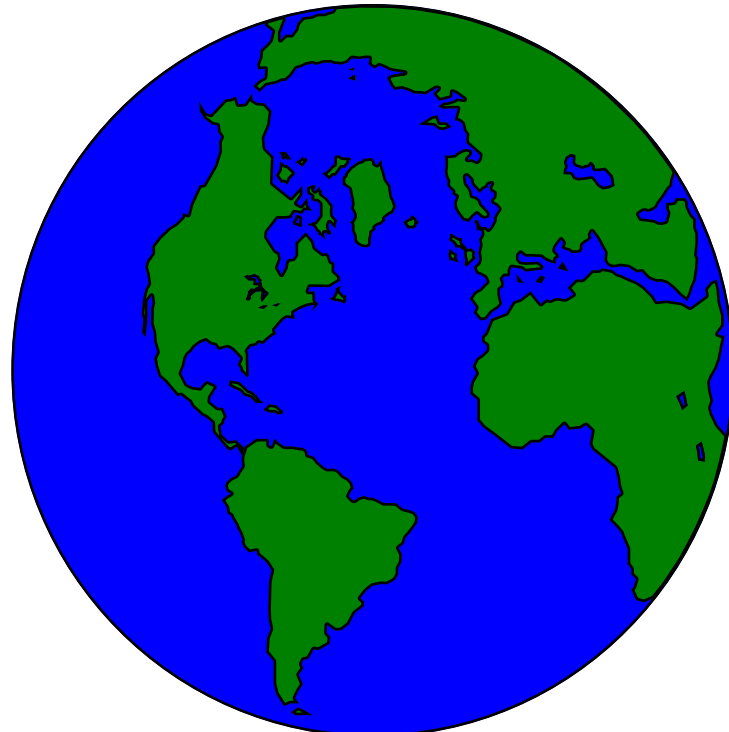
# ADDITIONAL PROBLEMS WITH ELECTRONIC INFORMATION

- ⦿ **Contents can be maliciously altered**
- ⦿ **Pages can be moved or removed without notice**

# ADDITIONAL POINTS

- ⦿ Information *not always free*
- ⦿ Certain pages require *additional software for viewing*
- ⦿ Browsers may *view resources differently* (e.g., Internet Explorer, Firefox)

# THE WORLD WIDE WEB A GATEWAY TO THE WORLD



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# QUESTIONS OR COMMENTS?

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