

# SPM1012 : Telecommunication and Networking

## Topic 2 : Web searching

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# Introduction



- Our discussion;
  - Introduction to web browser
  - Search tools
  - Searching technique

# Web Browser

What is web browser?

1. A web browser is a **software application that enables a user to display and interact** with text, images, and other information typically located on a web page at a website **on the World Wide Web**.
2. **Software that displays web pages,**
3. Software that gives **a user access to the World Wide Web**. Web browsers often provide a graphical interface that lets users **click buttons, icons, and menu options to view and navigate** Web pages..

# Web Browser

Name the web browsers you know:

1

2

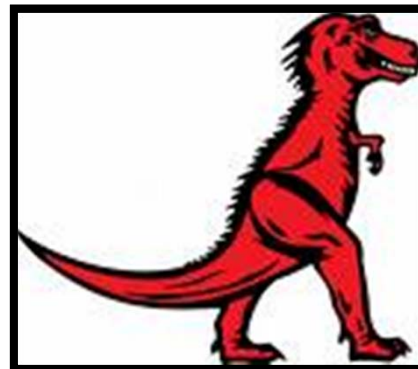
3

4

5

6





# Web Browser

- What can you do with web browser
  - Browse web pages if you know the URL
    - e.g <http://www.utm.my>  
<http://elearning.utm.my>  
<http://ocw.utm.my/>
  - Search the web using
    - Search tools
      - Search Engines
      - Subject Directories
      - Name Directories
      - Meta-Searchers
      - Specialized Search Tools and Searchable Databases
      - And others





# Search Tools

## Search engine

1. Software that **enables users to search the Internet** using keywords.
2. A search engine is a computer program that does the following:
  - Allows user **to submit a query that consists** of a word / phrase
  - **Searches the database**
  - Returns a **list of suitable URLs** which match the query
  - Allows **user to revise** and resubmit



# Search Tools

## Search engine

- Internet search engines **help users find web pages** on a given subject.
- The search engines **maintain databases of web sites** and use programs (often referred to as "spiders" or "robots") to collect information, which **is then indexed by** the search engine.
- Similar services are provided by "directories," which maintain ordered **lists of websites**, eg Yahoo!

# Search Tools

## Search engine

Give examples of search engines

1. Google : [www.google.com](http://www.google.com) ,
2. Yahoo search: [search.yahoo.com](http://search.yahoo.com)
3. AltaVista : <http://www.altavista.com>
4. Ask.com: <http://www.ask.com>
5. Bing : <http://www.bing.com>

– [Search engine list](#)

# Search Tools

## Search engine

- Computer software program designed to help users of the Internet **locate information on the World Wide Web**. It collects and indexes Internet resources ( Web pages, Usenet Newsgroups, programs, images, etc. ) and provides a **keyword search system** allowing the user to identify and retrieve resources.

There are many search engines available and each is **different in their scope, search protocols, and appearance**.

# Search Tools

## Directories

- Subjects Directories
  - **built by human selection** -- not by computers or robot programs
  - **organized into subject categories**, classification of pages by subjects -- subjects not standardized and vary according to the scope of each directory
  - **NEVER contain full-text of the web pages** they link to -- you can only search what you can see (titles, descriptions, subject categories, etc.) -- use broad or general terms

# Search Tools

## Directories

- Subjects Directories
  - **small and specialized** to large, but smaller than most search engines -- huge range in size
  - often carefully evaluated and annotated

# Search Tools

## Directories

- Subjects directories examples
  - BUBL Link : [bubl.ac.uk](http://bubl.ac.uk)
  - Google Directory : [directory.google.com](http://directory.google.com)
  - Yahoo! : [dir.yahoo.com](http://dir.yahoo.com)
  - Librarians' Index : [www.lii.org](http://www.lii.org)
  - Infomine : [infomine.ucr.edu](http://infomine.ucr.edu)
  - Academic Info : [www.academicinfo.us](http://www.academicinfo.us)

### List of subject directories :

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

# Search Tools

## Directories

### – Name

- e.g <http://www.anywho.com/>

# Search Tools

## Meta-Search

Search more than one search engine and/or subject directory at once and then compile the results in convenient display, sometimes consolidating all the results into a uniform format and listing.

– e.g. :

- **Dogpile** : [www.dogpile.com](http://www.dogpile.com)
- **Metacrawler** : [www.metacrawler.com](http://www.metacrawler.com)



# Search Tools

## Others

- Local Search / Maps
- Mobile Text Search
- Desktop Search
- Google Special Searches
- Audio/Video/Imej....

# Web Browser

## Search techniques

- Use subject directories.
- Use Boolean logic, phrase searching, truncation, and field searching effectively.
  - Boolean "operators" such as "AND," "OR," "AND NOT" and sometimes "NEAR."
    - AND requires all terms appear in a record.
    - OR retrieves records with either term.
    - AND NOT excludes terms.

# Web Browser

## Search techniques

- Identify key concepts, synonyms, and variant word forms in your search topic.
- Use phrase
  - More than one KEYWORD, searched exactly as keyed (all terms required to be in documents, in the order keyed). Enclosing keywords in quotations " " forms a phrase in Google , and some other search tools.
    - e.g ***“educational technology”*** / ***educational technology*** will give different results

# Web Browser

## Search techniques

- Use key search engines **effectively** including AltaVista, Google, Bing, HotBot, etc...
- Use **meta-search** engines.
- Use **specialty databases** when appropriate.
  - Social sciences:  
<http://www.intute.ac.uk/socialsciences/lost.html>
- Apply search strategies and techniques in a scavenger hunt exercise.

# Managing Your Browser

- Open file : htm,html, jpg, pdf, gif, txt
- Save : graphics (jpg,gif), file, frame etc
- Printing
- Use of Buttons: BACK, FORWARD, REFRESH, STOP

# Managing Your Browser

- Bookmarking
- Clear history
- Clear cache
- Clear URL
- Save/using bookmark/favourite
- Setting default page
- Multitasking
- **Downloading**
  - Setting download folder
  - Temp files
  - Plugin
- Other tools
-





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# Thank You !

