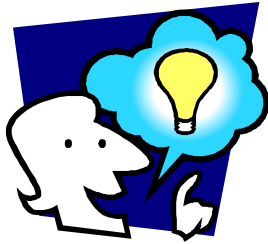




Welcome to the **Learning Guide** that helps you find what you need on the Internet using **directories** and **search engines**. Each site is described in three ways:



- Ⓢ **Source:** *Who created the site?* Discover authors, institutions, and organizations that you can depend on for information.
- ⓕ **Features:** *What kind of information and links are on the site?* Read in point form about the rich content and diverse perspective of each site.
- Ⓣ **Tips:** *What special strategies can you use?* Learn special ways to use this website effectively for reading and research.

Internet Directories

BBC Web Guide (16+)

<http://www.bbc.co.uk/webguide/schools/index.shtml>

- Ⓢ British Broadcasting Corporation
- ⓕ Links for British schools • lesson plans • site of the week
- Ⓣ Search Web Guide by keyword or browse sites by curriculum subject.

Canada's Digital Collections

<http://collections.ic.gc.ca/E/View.html>

- Ⓢ Government of Canada institutions (e.g., National Library, Museum of Civilization)
- ⓕ Links to Canada's history, geography, science, technology and culture • curriculum units • classroom activities, quizzes and games
- Ⓣ Search by subject index or alphabetical listing.

Canadian Information by Subject

<http://www.nlc-bnc.ca/caninfo/ecaninfo.htm>

- Ⓢ Library and Archives Canada
- ⓕ Links to information about Canada from Internet resources around the world • topics arranged in the form of a "Subject Tree", based on the Dewey decimal classification system
- Ⓣ Search by subject index or alphabetical listing.

Canadiana: Canadian Resources Page

<http://www-2.cs.cmu.edu/Unofficial/Canadiana/>

- Ⓢ S. Craven, Canadian computer consultant living in United States
- ⓕ Links to Canadian Information sources: news and information, facts and figures, travel and tourism, government services, politics and history, science and education, technology, commerce and industry, heritage, culture and entertainment
- Ⓣ Note the personal selection of links. Use Table of Contents on opening page to browse. Note the last updating of a particular subsection.

Culture Canada

<http://www.culture.ca/canada/english.jsp>

- Ⓢ Government of Canada: Department of Canadian Heritage

What is an Internet Directory?



An **Internet directory** is a website that organizes links to other websites into categories and subcategories.

An Internet directory is created by human beings that select best links and classify them for a particular audience. Results are fewer than those found with a **search engine** but are often more reliable when created by a respected source.

Most directories organize the links in a subject list or alphabetical list. These lists are sometimes called "indexes."

Use a directory when you want selected, authoritative results. A directory can save you time in the long run, especially if it has a search feature.

- ⓕ Gateway to fully-searchable Web resources • access to quality Canadian cultural sites • catalogued by the Library and Archives of Canada • six main categories: Arts & Expression, History & Heritage, Media & Publishing, People & Diversity, Places & Lands, Sports & Leisure
- Ⓣ Search by keyword. Check "Festivals and Events" for upcoming cultural happenings in Canada.

Digital Librarian

<http://www.digital-librarian.com/>

- Ⓢ Margaret Vail Anderson, a librarian in Cortland, New York
- ⓕ A dedicated librarians's choice of the best websites arranged alphabetically by popular topics
- Ⓣ Browse by subject (searching by keyword takes you to Amazon.com only). Use See Also links within each subject area to broaden search. Use the browser's "Find" button (under "Edit") to search page by keyword.

High School Hub

<http://highschoolhub.org/hub/hub.cfm>

- Ⓢ Schmidel & Wojcik, a New York consulting firm
- ⓕ Online interactive learning center for high school students with homework help and guides organized by subject • current events and daily features • learning activities • reference resources and tools • vocabulary building activities
- Ⓣ Note U.S. sources. Bookmark particular resources of a general nature. Explore learning activities in different ways (e.g., matching, drag and drop).

Internet Public Library Teen Space

<http://www.ipl.org/div/teen/>

- Ⓢ School of Information and Library Studies at the University of Michigan
- ⓕ Annotated "best " links selected for teen curriculum and extra-curricular interests • special features in left frame: research help, ideas for what to read, career information, and helping girls succeed
- Ⓣ Search by subject or keyword in TeenSpace or entire Internet Public Library. Use sub-headings to broaden search.

Librarians' Index to the Internet

<http://lii.org/>

- Ⓢ Library of California
- ⓕ A searchable, annotated subject directory of Internet resources selected and evaluated by librarians for users of public libraries • link to newly added sites in right frame • advanced search to narrow research
- Ⓣ In the subject directory, click a main subject heading (e.g., Health and Medicine) for the list of subtopics or click a specific subtopic (Nutrition) under the main subject heading to go directly to that topic.

Open Directory Project

<http://dmoz.org/>

- Ⓢ Global community of volunteer editors, administered by Netscape (AOL Time Warner)
- ⓕ Open-source directory that gathers websites from "net-citizens" in all subjects without ranking or promotion
- Ⓣ Search by keyword in whole site or within a specific section. Individuals select links so test them for reliability.

School Libraries in Canada Sources

<http://www.schoollibraries.ca/Issue.aspx?IssueID=0>

- Ⓢ Internet Resources issue of School Libraries in Canada (Canadian School Library Association)
- ⓕ Links for Canadian students K-12 evaluated by teacher-librarians
- Ⓣ Under "In this issue," click relevant section and navigate columns. Use the browser's "Find" button (under "Edit") to search page by keyword.

SchoolNet Curriculum Area

<http://www.schoolnet.ca/home/e/resources/>

- Ⓢ A partnership with Canadian provincial/territorial governments, the education community, and the private sector

- ⓕ Curriculum Area of subject links • Teachers' Corner of professional resources • Federal Learning Resources created by government departments and crown corporations
- Ⓣ Search by keyword in the "blackboard" in the left frame. Click the Help symbol to learn added navigation features.

Yahoo! Canada

<http://dir.yahoo.com/Regional/Countries/Canada/>

- Ⓢ Yahoo! Inc.
- ⓕ Links to general topics and subtopics selected by editors to be of interest to Canadians
- Ⓣ Search by keyword on the Web or within a particular category. Note sponsored results on page top, bottom, and sides. Click on Yahoo icon or "Directory" to link to whole Yahoo site.

WWW Virtual Library

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

- Ⓢ Global volunteers coordinated by an elected council
- ⓕ Links to general and academic topics • varied method of organizing links at the subtopic level
- Ⓣ Browse by subject index or search by keyword in specific sites at subtopic level.

Internet Directories (Academic)

Academic Info

<http://www.academicinfo.net/table.html>

- Ⓢ Private company (Mike Madin)
- ⓕ Primary focus is academic, content-rich links for the upper high school level or above • links to digital collections from libraries, museums, and academic institutions
- Ⓣ Browse directory and sub-directories for specific topic. Note sponsored sites and advertisements on page top, bottom, and sides.

AllLearn Academic Directories

<http://www.allianceforlifelonglearning.org/er/directories.cgi>

- Ⓢ Online learning consortium among Oxford, Stanford, and Yale universities
- ⓕ Leading academic websites reviewed and catalogued by university experts • Learning Guides which identify essential online and off-line resources: books, online texts, websites, and special resources
- Ⓣ The Learning Guides are a comprehensive way of getting started with research. Note the emphasis of this site on signing up for online university courses.

Infomine Scholarly Internet Resources

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

- Ⓢ Librarians from the University of California, Wake Forest University, California State University, the University of Detroit - Mercy etc.
- ⓕ University level resources • databases, electronic journals, electronic books, online library card catalogs, articles etc.
- Ⓣ Browse or search by subject category. Use advanced search engine and search tips page to find specific links.

Virtual Reference Desk Learning Centre

<http://vrd.askvrd.org/index.asp?>

- Ⓢ United States Department of Education
- ⓕ Internet-based question-and-answer service that connects users with key sites and experts with subject expertise
- Ⓣ Search by subject index or alphabetical listing. Navigate tabs to ask experts and search archived questions.

Search Engines

AllTheWeb

<http://www.alltheweb.com/>

- Ⓢ Yahoo! Inc.
- ⓕ Global index to web pages and PDF and MS Word® files
 - searching support in 36 different languages
 - News search offers news from thousands of global sources
 - image, audio, and video searches for multimedia files.
- Ⓣ Refine your initial search by clicking "+" or "-" in area just above "Sponsor results" to include or exclude terms, and then clicking the "SEARCH" button. Use advanced search to narrow search by Boolean operators, language, domain, file format, and date.

AltaVista Advanced Search

<http://www.altavista.com/>

- Ⓢ Overture Services, Inc.,
- ⓕ Global index to web pages • searching support in different languages • News search offers news from thousands of global sources • image, MP3/audio, and video searches for multimedia files • topical directory of sites chosen by editors
- Ⓣ Click Help for help in building your queries. Click More for a handy Boolean chart. AltaVista Babel Fish Translation <http://babelfish.altavista.com/> enables you to translate short passages of text or entire Websites among 19 pairs of languages (works best when the text you wish to translate uses proper grammar).

Ask Jeeves

<http://www.ask.com/>

- Ⓢ Ask Jeeves Inc.
- ⓕ uses natural language in the form of questions or phrases to find sites • search for pictures, products, news • sponsored results are clearly stated • Related Searches on the right to narrow topics.
- Ⓣ Read Help for search tips and new features (e.g., search for famous people and spell check).

Google Canada

<http://www.google.ca/>

- Ⓢ Google, Inc.
- ⓕ Global index to web pages, PDF, MS Word® files etc. • searching support in many different languages • News search and newsgroups postings • image, audio, and video searches • special features (e.g., "I'm Feeling Lucky" for key result and cached results)
- Ⓣ Click "About Google" for comprehensive list of tips and features (e.g., Translate Tool). Click "more>>" for Google Directory of organized sites by topic.

Teoma

<http://www.teoma.com/>

- Ⓢ Ask Jeeves, Inc.
- ⓕ Global index that presents search findings in three ways: 1. *Results* lists relevant websites ranked by the number of same-subject references. 2. *Refine* suggests subject filters to narrow search. 3. *Resources* identifies expert resources about a particular subject • sponsored links identified in separate area
- Ⓣ Use *Refine* and *Resources* to focus your search. Use Advanced Search to narrow your search by (ten) languages, geographical area, and date.

What is Search Engine?



Search engines electronically gather Internet information into an index (database) to be searched using keywords, narrowing terms, and Boolean logic such as AND, OR and NOT.

When you use a search engine, you are NOT searching the Internet but searching that engine's own index. Because different search engines use different indexing methods they can give different results. Results can be overwhelming in number or confusing when their placement is paid for.

Use a search engine to browse from a wide range of results or find a particular reference. Keywords should be specific and complete.

Before you search, read the engine's Help page to understand its features and the Advanced Search section to narrow your search.

Metasearch Engines

Dogpile

<http://www.dogpile.com/>

- Ⓢ InfoSpace, Inc.
- ⓕ Combines results from these search engines: Google, Yahoo, Ask Jeeves, About, LookSmart, Overture, FindWhat • lists results by “relevance” or by search engine • identifies sponsored links under each entry
- Ⓣ Use this site sparingly to avoid overwhelming number of hits. Focus results with Advanced Search and “Tips and Tools.”

IxQuick

<http://ixquick.com/>

- Ⓢ Surfboard Holding BV (Holland)
- ⓕ Queries ten major search engines for web links, MP3, news, and pictures • organizes the results into a uniform format • presents/ranks them by relevance and source
- Ⓣ Explore “Power Search Techniques” (link at bottom of first results page). Note sponsored links in both main list and right frame.

KartOO

<http://www.kartoo.com/>

- Ⓢ KartOO Technologies
- ⓕ Produces results in map form • map identifies relevant sites by icon, name and document type, with most relevant sites closer to the centre • moving the pointer over a site illuminates a brief description on the left frame • additional topics to filter the search appear on the map between sites and on the left
- Ⓣ Go to Help for important instructions, especially which icon represents which document type. If you do not have Flash, click “HTML Version” on main page to view results in standard form (the left frame provides buttons to add or ignore keywords). Commercial nature of many of KartOO’s sites may limit educational searches.

Vivisimo

<http://vivisimo.com/>

- Ⓢ Vivísimo, a privately-held corporation with investments from Innovation Works, private investors and grants from the National Science Foundation
- ⓕ Returns searches in clusters by subject or keyword • searches the cluster for specific focus • identifies sponsored links at beginning of results
- Ⓣ Read Help for information on beginning your search, browsing the clusters, accessing the results, and using additional features. Click “Details” to view search statistics.

Specialty Directories/Engines

Artcyclopedia (Fine Arts)

<http://www.artcyclopedia.com/>

- Ⓢ John Malyon, IT professional from Calgary, Canada
- ⓕ A comprehensive index of 8,100 artists represented at 1800 museum sites • archives to 150,000 artworks • online resources • 60,000 inks for most well-known artists
- Ⓣ Search by artist’s name (best), title, or museum. Browse by art movement (best), subject, or medium. Site contains a valuable linked list of woman artists by period.

What is a metasearch engine?



A **metasearch engine** finds results from multiple search engines. Some metasearch engines rank results while others complicate the search with duplicate “hits”, engine-by-engine results, or added paid-for-placement sites.

Use a metasearch engine carefully when you want to combine results for the broadest search.

Read the Help page to learn how to use each metasearch engine effectively.

What is a specialty directory/search engine?



Specialty directories/search engines, often created by authoritative organizations and institutions, narrow results to particular subjects or disciplines.

Explore the site *Pinakes: A Subject Launchpad* listed below to see the wide range of engines available on the Internet.

EEVL (Engineering, Math, Computing)

<http://www.eevl.ac.uk/>

- Ⓢ Sponsored by Adept Scientific
- ⓕ *Tab 1: Search All* (search by specific keyword) • *Tab 2: Key Sites* (outstanding subset of sites with filter by resource type or source) • *Tab 3: EEVL Catalogue* (search descriptions of 10,000 selected sites with filter by resource type or source); • *Tab 4: Websites*: Search for sites within the EEVL catalogue
- Ⓣ Explore key links in the right frame: 1. Web Tutorials provides extensive information skills training for mathematicians, computer scientists, engineers, etc. 2. Resource Finder helps you find quality Internet resources in a number of subject areas, including biomedical sciences, engineering, mathematics, computing, the humanities, the physical sciences and the social sciences.

Health Web

<http://www.healthweb.org/index.cfm>

- Ⓢ A collaborative project of the health sciences libraries of the Greater Midwest Region (GMR) of the National Network of Libraries of Medicine (NN/LM) and others.
- ⓕ Search by keyword (Advanced Search available) or browse by subject in the directory
- Ⓣ Subject directory provides useful categories of links (e.g., metasites, educational resources, and special topics). Search within a category (e.g., cell biology) for greater focus. At the top, click User Guides for extra help on MEDLINE Access, Evaluating Internet Resources, Searching the Internet, and Document Delivery.

HUMBUL (Humanities)

<http://www.humbul.ac.uk/>

- Ⓢ A service of the Resource Discovery Network funded by the Joint Information Systems Committee and the Arts and Humanities Research Board, and hosted by the University of Oxford
- ⓕ Search by keyword or browse by subject in the entire directory or within a subject after you have clicked the subject
- Ⓣ Focus your search by historical period (20th century) or intended audience (e.g., general public). Explore key links in the right frame: 1. Web Tutorials (click subject words not icon) for extensive information skills training in English, history, modern languages, etc.); 2. free electronic journals by subject; 3. special topic lists (e.g., history of the book, witchcraft). Internet resources booklets in PDF are available for English and History.

Online Books Page Book Search

<http://digital.library.upenn.edu/books/search.html>

- Ⓢ John Mark Ockerbloom, University of Pennsylvania Library
- ⓕ An index of thousands of online books freely readable on the Internet • search by author or title
- Ⓣ Click Home for: 1. pointers to significant directories and archives of online texts; 2. special exhibits of particularly interesting classes of online books; 3. information on how readers can help support the growth of online books.

Pinakes: A Subject Launchpad

<http://www.hw.ac.uk/libWWW/irm/pinakes/pinakes.html>

- Ⓢ Dave Bond, Roddy MacLeod, and Heriot-Watt University, Edinburgh, Scotland
- ⓕ Graphic list of subject directories, search engines, and multi-subject gateways
- Ⓣ Click Subject List (top right) for alphabetical list by subject with drop-down menu.

Scholarly Sports

<http://www.ucalgary.ca/library/ssportsite/>

- Ⓢ University of Calgary Library, the North American Sport Library Network (NASLIN) and the International Association for Sports Information (IASI)
- ⓕ Index to sport-related subjects • scroll down to Databases/Directories for particular subjects
- Ⓣ When viewing the major subject areas (e.g. Associations), look for notes on contents under the major subject heading. Some listings are annotated when specific features need emphasis. A keyword search engine is also provided below the introduction.

Scirus (Science)

<http://www.scirus.com/srsapp/>

- Ⓢ B. V. Elsevier, Amsterdam, The Netherlands
- ⓕ Searches more than 167 million science-related pages • filters out non-scientific sites (e.g., if you search on Dolly, Google finds Dolly Parton, Scirus finds the cloned sheep) • finds peer-reviewed articles such as PDF files, which are often invisible to other search engines • goes deeper than the first two levels of a website
- Ⓣ Select to search in a range of subject areas including health, life, physical and social sciences. Narrow your search to a particular author, journal or article. Restrict your results to a specified date range (e.g., for current information). Refine, customize and save your searches.

SOSIG (Social Science)

<http://www.sosig.ac.uk/>

- Ⓢ Part of the UK Resource Discovery Network.
- ⓕ Search Engine and Subject Directory based on a database of over 50,000 social science web pages.
- Ⓣ Click Help for tips on site navigation, browsing and searching SOSIG, and training resources. When browsing the Subject Directory, explore the “Top 50 sites” in that subject and (in left frame) training resources when available. When using the Search Engine, explore the Thesaurus for related or narrower terms.

Searching the Internet: Choosing Keywords and Boolean Searching

CHOOSING KEYWORDS

1. Use unique words

- tigers (too general)
- Bengal tigers (more specific)

2. Multi-step process

- do your initial search
- scan the first couple of pages of results for relevancy
- revise your search

3. Narrow your search

- if keywords produce too much information, revise your search by adding another key word, e.g., Bengal tigers habitat

4. Upper and lower case

- Java (coffee/island)
- JAVA (programming language)

5. Initial caps for proper names

- Person - Celine Dion
- Geographic - United Arab Emirates
- Title - Merchant of Venice

6. Check spelling (if no results found)

- Note: American spelling -
centre vs. center
labour vs. labor
theatre vs. theater

BOOLEAN SEARCHING - is a complex search using operators such as **AND**, **OR**, **NOT**, and **NEAR** that define the relationships between the terms in your search

use AND to find only those articles containing all your search terms

- Renaissance AND sculpture
- +Renaissance +sculpture
- Renaissance sculpture (select All the words option)

use OR to find those articles with any one, or combinations, of your terms

- “Jean Chretien” OR “prime minister of Canada”
- “Jean Chretien” “prime minister of Canada”
- “Jean Chretien” “prime minister of Canada” (select Any of the words option)

use NOT to find any articles that exclude one or more terms

- python NOT Monty, Martin Luther NOT King
- python AND NOT Monty
- python -Monty