



Internet Research
is it “REAL” research?

What is Research?

systematic investigation and study of materials, sources, etc., in order to establish facts and reach conclusions. *v.* do research into or for.

The Pocket Oxford Dictionary of Current English, © Oxford University Press 1996

Research or Search?

1 (also absol.) look through or go over thoroughly to find something. 2 examine or feel over (a person) to find anything concealed. 3 probe (*search one's conscience*). 4 (foll. by for) look thoroughly in order to find. 5 (as **searching** *adj.*) (of an examination) thorough; keenly questioning (*searching gaze*). 6 (foll. by out) look for; seek out.
n. 1 act of searching. 2 investigation.

Information on the Internet

Deep Thinking and Deep Reading

in an Age of Info-Glut, Info-Garbage

Info-Glitz and Info-Glimmer

On the Web vs. Via the Web

- Anyone with server access can place anything on the net
- Very little bibliographic control, no language cont.
- Quality of info varied
- Cost is low or free
- Various databases, many providers, not directly searchable via web search tools
- Typically well indexed and highly structured
- Uniformly high quality, professional resources
- Invisible Web often low cost or free: proprietary info can vary in cost, can often be expensive

On the Web vs. Via the Web

Examples:

Your vacation pictures

Alta Vista, Google,
Northern Light, etc.

Many Invisible and
Visible Web sites

Examples:

Full-text of peer reviewed
journals & newspapers

Dialog, Lexis-Nexis, Dow-
Jones News, Medline

Retrieval

Internet Searching

- Search Engines & Directories
- Gateways & Portals
- Public & Academic Libraries
- Guides & Tools

Search Engines & Directories

- AltaVista www.altavista.com
- Google www.google.com
- HotBot www.hotbot.com
- Lycos www.lycos.com
- Northern Light www.northernlight.com
- Yahoo www.yahoo.com

Researching...

- Thinking skills are essential
- Avoid the mere collection of data without a purposeful use of that information.
- Give assignments which focus on using the knowledge learned.
- Teach the process not the outcome.
- Expect “new” insight not just facts.

Research Cycle

- > **QUESTIONING**
- > **PLANNING**
- > **GATHERING**
- > **SORTING & SIFTING**
- > **SYNTHESIZING**
- > **EVALUATING**
- > **REPORTING**

Essential Questioning...

- Unanswerable
- Hypothetical
- Strategic
- Irreverent

Subsidiary Questioning...

- Elaborating
- Clarifying
- Telling
- Probing
- Planning

Keep Questioning...

- Provocative
- Divergent
- Inventive
- Irrelevant

What is an Essential Question?

- Essential questions reside at the top of *Bloom's Taxonomy* (Bloom, 1954).
- Answers to essential questions cannot be found. They must be invented.
- Essential questions engage students in the real life applied problem-solving.
- Essential questions usually lend themselves well to multidisciplinary investigations.

Bloom's Taxonomy (Bloom, 1954).

They require students to

- EVALUATE
- SYNTHESIZE
- ANALYZE



Gateways, Portals & Vortals

- IPS Portals

www.unescobkk.org/ips/portals.htm



www.hw.ac.uk/libWWW/irn/pinakes/pinakes.html

- Educational Portals and Starting Points

<http://www.eduscapes.com/tap/topic21.htm>

- VerticalMatter.com

www.verticalmatter.com

Pathfinders

- Direct Search

www.freepint.com/gary/direct.htm

- Librarians' Index to the Internet

www.lii.org

- WebData

www.Webdata.com/Webdata.htm

- AlphaSearch

www.calvin.edu/library/searreso/internet/as/

Metasearch Engines

DÖGPILE[®]
All results, no mess.

www.dogpile.com



mamma

www.mamma.com/powersearch.html

The **Mother** of All
Search Engines™

MEGA
Crawler

www.metacrawler.com

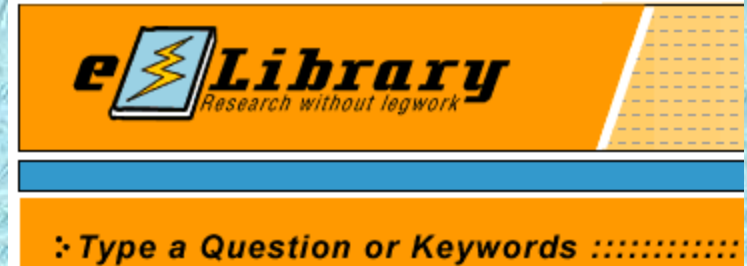
ProFusion
Powered by Intelliseek

www.profusion.com/

Reference

- Encyclopedia Britannica

www.eb.com



FREE

- Information Please Almanacs

www.infoplease.com

- Great Books Online

<http://www.bartleby.com/dickinson>

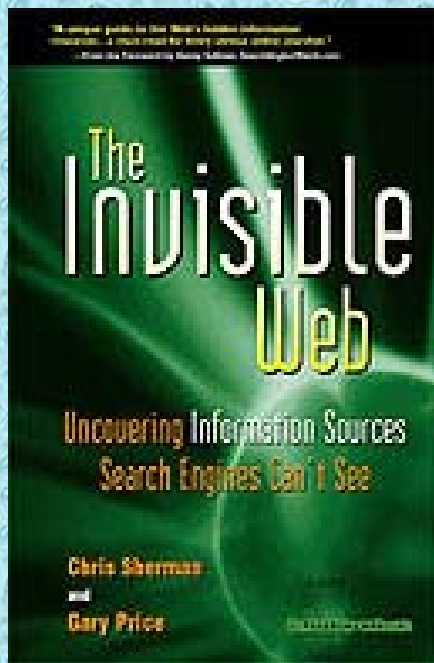
Public & Academic Libraries

- Internet Public Library www.ipl.org
- Libweb www.libweb.org
- Library Catalogs www.libdex.com/webcats/
- Providence Public Library www.provlib.org
- URI www.uri.edu/library

Guides & Tools

- [about.com](#)
- [Find Articles](#)
- [Module Maker](#)
- [Trackstar](#)

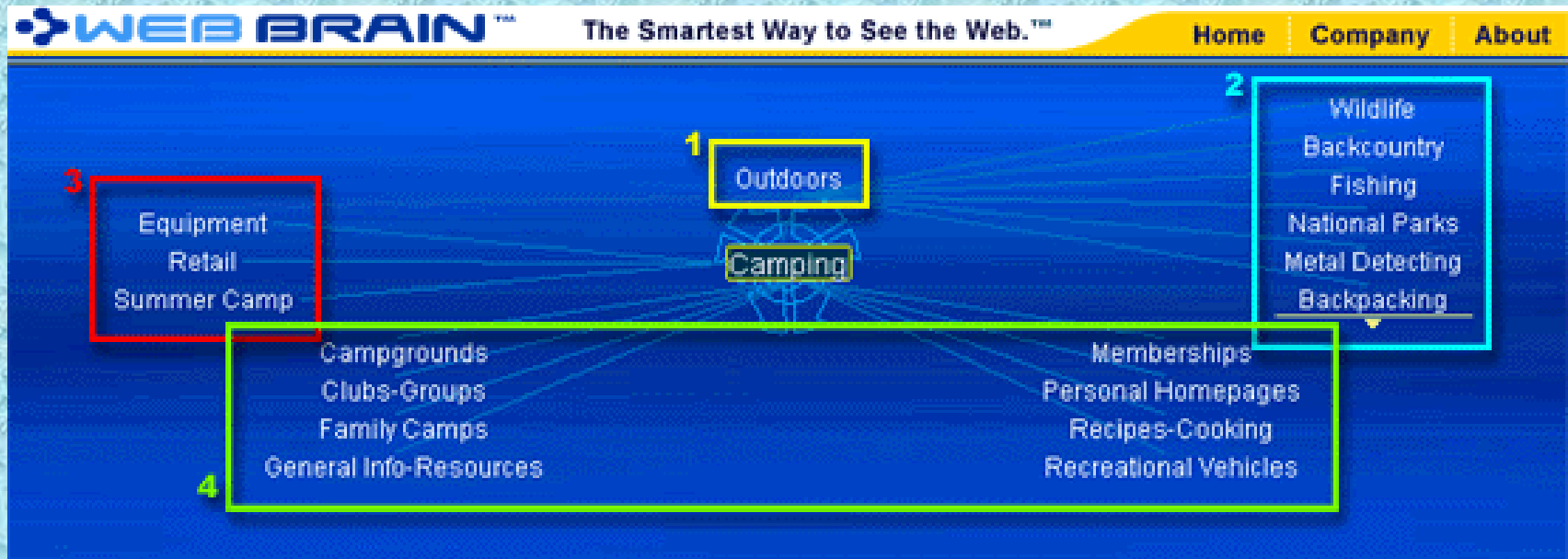
More Tools



NoodleLinks



Find useful resources



The Building Blocks of Research

E

ENGAGING

D

DEFINING

I

INITIATING

L

LOCATING

E

EXAMINING

R

RECORDING

C

COMMUNICATING

E

EVALUATING

Targeted Directories

- EEVL Edinburgh Engineering Virtual Library
www.eevl.ac.uk/
- Classic Resources on the Web
www.classics.cam.ac.uk/Faculty/links.html
- Internet Intelligence Index
www.fuld.com/i3/index.html
- Odden's Bookmarks
www.oddens.geog.uu.nl/indexhtml

Focused Crawlers

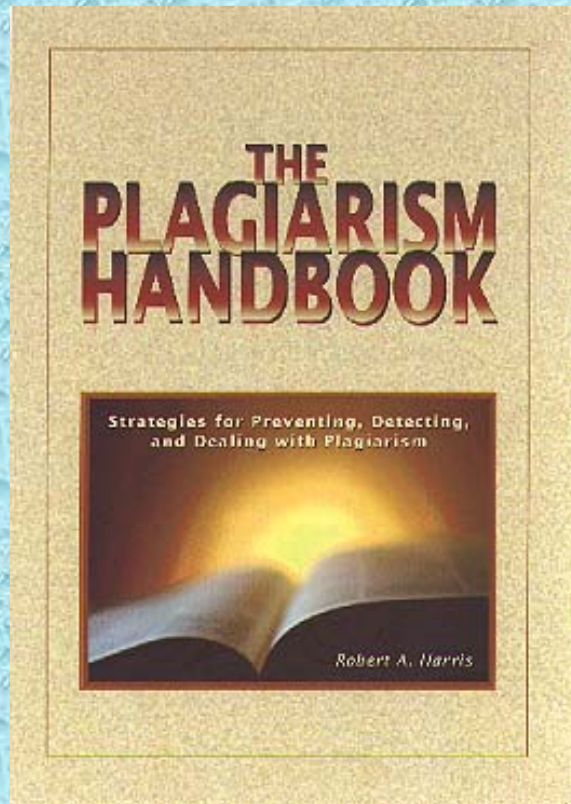
- LawCrawler lawcrawler.lp.findlaw.com
- PsychCrawler www.psychcrawler.com
- PoliticalInformation.com
www.politicalinformation.com
- SearchMil.Com www.searchmil.com
- SearchEdu.com www.searchedu.com
- FirstGov.Gov www.firstgov.gov

Can you TRUST the Web?

Evaluating what you find

1. Only careful evaluation can tell you if any resource is reliable.
2. The size of the web comes mostly from commercial sites (over 60% of all sites).
3. Search engines are organized by computers and the results are ranked by computer programs oblivious to information quality.

Plagiarism is ...



Cheating
Stealing
Lying
Wrong
Unethical

“Enemy of Thought” (McKenzie, 129)

Definition of Plagiarism

- “ To take and use (the thoughts, writings, inventions, etc. of another person) as one's own.”
- “ To pass off the thoughts, etc. of another person as one's own.”

The Concise Oxford Dictionary 8th ed. Oxford, Clarendon Press, 1990.



Vic Lockman

"Dear Mr. Trent: Since you only pretended to write this paper, I only pretended to grade it!"



"Plagiarism?" But my roommate gave me permission to use his paper and said I didn't have to cite him."

Avoiding plagiarism...

- Create research assignments that support student thinking not collecting.
- Emphasize Research as a process based on questioning.
- Direct students' focus on developing the highest levels of Bloom's Taxonomy.
- Demand students' organize their ideas.

Strategies...

- Plagiarism Internet Search Services

www.turnitin.com

www.paperbin.com

- Databases (Note cards)

Organizing...

- Create simple Database for Note taking and Bibliography
 - Access information quickly
 - Organize and sort information
 - Manipulate and find data to easily

Database Fields

- Subjects
- Keywords
- Abstracts
- Notes
- Works Cited
- Bibliography

Works Cited

- Author
- Title
- City
- Publisher
- Date(s)
- URL



only the
Beginning...