

Google and Beyond: Research-Quality Web Searching

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COURSE PAGES:

<http://www.lib.berkeley.edu/find/types/websites.html>

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



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Goals

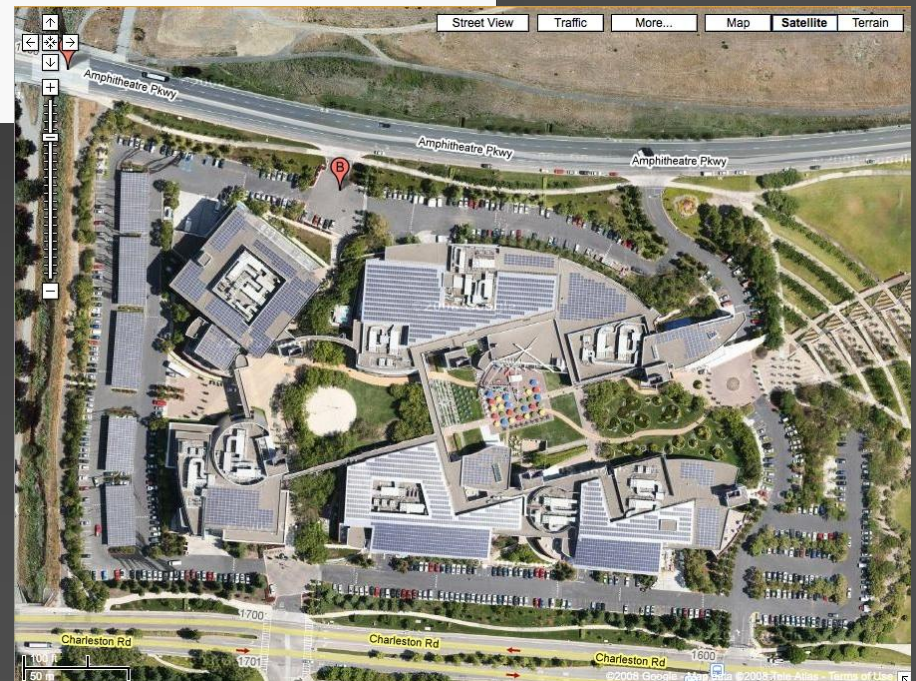
- Search Google effectively and precisely
- Know when to use other search engines and web directories
- Evaluate what you find on the web



[Advanced Search](#)
[Preferences](#)
[Language Tools](#)

[Advertising Programs](#) - [Business Solutions](#) - [About Google](#)

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How Google works

- BEFORE you search:
 - “Crawls” pages on the public web
 - Copies text & images, builds database
- WHEN you search:
 - Automatically ranks pages in your results
 - Word occurrence and location on page
 - Popularity - a link to a page is a vote for it
 - ~ 200 factors in all!

Searching Google

- Think “full text” = be specific

war of 1812 economic causes vs. **history**

- Use academic & professional terms

domestic architecture vs. **houses**

genome society

gets **International Mammalian Genome Society**

also try combinations with

**association, research center, institute,
directory, database**

Searching Google

- Specify exact phrases

“tom bates”

“what you're looking for is already inside you”

- Exclude or require a word

proliferation -nuclear

bush legacy +environment

Limit your search to ...

- Web page title

`intitle:hybrid`

`allintitle:hybrid mileage`

- Website or domain

`site:whitehouse.gov "global warming"`

`site:edu "global warming"`

Limit your search to ...

- File type

filetype:ppt site:edu "global warming"

- Definitions

define:pixel

define:"due diligence"

On the results page

- Search box (use to modify)
- “Cache”
- “Related pages”
- “Translate this page”

Google's other databases

The image shows a screenshot of the Google homepage from 2008. At the top, there are navigation links: [Web](#), [Images](#), [Maps](#), [News](#), [Shopping](#), [Gmail](#), and [more](#) with a downward arrow. Red arrows point to [Images](#), [Maps](#), and [more](#). The [more](#) dropdown menu is open, listing: [Blogs](#), [Books](#), [Calendar](#), [Documents](#), [Finance](#), [Groups](#), [Photos](#), [Reader](#), [Scholar](#), [Video](#), and [YouTube](#). A red arrow points to [Scholar](#). A blue arrow points to the [more](#) dropdown menu. Below the search bar, there are links for [Advanced Search](#), [Preferences](#), and [Language Tools](#). At the bottom, there are links for [Advertising Programs](#), [Business Solutions](#), and [About Google](#). The copyright notice [©2008 Google](#) is at the very bottom.

Why go beyond Google?

- Search more of the web

Yahoo! search.yahoo.com

- Get more options

Exalead www.exalead.com/search

Why go beyond Google?

- Take advantage of human selectivity

[Librarians' Internet Index](#)

www.lii.org

[InfoMine](#)

infomine.ucr.edu

[Google Custom Search Engines \(CSE\)](#)

How to find these:

www.lib.berkeley.edu/find/types/websites.html

Scroll down to “New Approaches to Web Searching”

CRITICAL EVALUATION

Why Evaluate What You Find on the Web?

- Anyone can put up a web page
- Many pages not updated
- No quality control
 - most sites not “peer-reviewed”
 - less trustworthy than scholarly publications

Before you click to view the page...

- Look at the URL - personal page or site ?
 - ~ or % or **users** or **members**
- Domain name appropriate for the content ?
 - Restricted: **edu, gov, mil, a few country codes (ca)**
 - Unrestricted: **com, org, net, most country codes (us, uk)**
- Published by an entity that makes sense ?
 - News from its source?
www.nytimes.com
 - Advice from valid agency?
www.nih.gov/
www.nimh.nih.gov/

Scan the perimeter of the page

- Can you tell who wrote it ?

- name of page author
- organization, institution, agency you recognize

- Credentials for the subject matter ?

- Look for links to:

“About us” “Philosophy” “Background” “Biography”

- Is it current enough ?

- Look for “last updated” date

Examine the content

■ Text

- possibly forged ?
- why not a link to published version ?

■ Sources

- documented with links or notes ?
- do the links work ?

■ Evidence of bias

- in text or sources ?

Do some detective work

- Search the URL in [alexa.com](https://www.alexa.com)
 - Click on “Site info for ...”
 - Who owns the domain?
 - Who links to the site?
 - What did the site look like in the past?
(Wayback Machine)

Do some detective work

- Which blogs link to it? What do they say?
 - Try the URL in [Google Blog Search](#)
- See what links are in Google's "Similar pages"
- Look up the page author in Google

Does it all add up ?

- Was the page put on the web to
 - inform ?
 - persuade ?
 - sell ?
 - as a parody or satire ?
- Is it appropriate for your purpose?

Try evaluating some sites...

1. Search a controversial topic in Google such as
 - **nuclear armageddon**
 - **prions danger**
 - **“stem cells” abortion**
2. Scan the first two pages of results
3. Visit one or two sites
 - Use the checklist (next two slides) to evaluate their quality and reliability

Web Page Evaluation Checklist



Title and URL of page you are evaluating:	
Personal page or site?	<input type="checkbox"/> ~ or %, or <i>users, members, or people</i>
What type of domain is it? Appropriate for the content?	<input type="checkbox"/> .com <input type="checkbox"/> .org/net <input type="checkbox"/> .edu <input type="checkbox"/> .gov/mil/us <input type="checkbox"/> non-US _____ <input type="checkbox"/> other:
Published by entity that makes sense? Does it match the name of the site?	Publisher or Domain Name entity:
Who wrote the page?	<input type="checkbox"/> E-mail <input type="checkbox"/> Name:
Credentials on this subject? (Truncate back the URL if there are no useful links.)	Evidence?
Dated?	Date _____ Current enough for your purpose?

Web Page Evaluation Checklist

Sources documented with links or notes? Can you verify that quoted text was not altered or forged?	
Links to more resources? Do they work?	
Evidence of bias?	
Search URL in alexa.com, click on "Site info for ..."	Who owns the domain? Who links to the site?
Is the page rated well in a directory? www.lii.org or infomine.ucr.edu or about.com	
Which blogs link to it? What do they say? blogsearch.google.com	
Look up the author in Google	
Why was the page put on the Web?	<input type="checkbox"/> Inform <input type="checkbox"/> Persuade <input type="checkbox"/> Sell <input type="checkbox"/> Satire or parody? Other:

Bottom Line:

Is the web page appropriate for
your purpose?