

Google-eyed?

Don't despair !
Learn how to use Google wisely and well.



Francesca Frati
Librarian

JGH Health Sciences Library
September 2007

www.jgh.ca/hsl



Andy Remeter. Techno Tuesday: The Internet. *Fabrica* [blog]. Posted on Nov.7 2006. Accessed Sep. 28 2007 from www.fabrica.it/blog/techno_tuesday

Agenda



- What is Google and how does it work?
- When and when not to use Google
- Search tips

- What is Google Scholar and what does it index?
- When and when not to use Google Scholar
- Search tips

Please feel free to ask questions anytime!

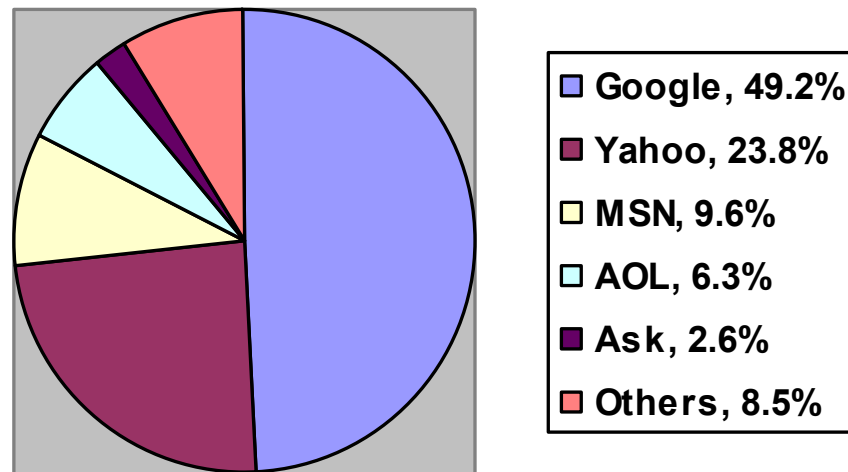
Google™ takes the world

(or at least North America)



Nielsen NetRatings Search Engine Ratings

500,000 US Home and work web surfers: July 2006

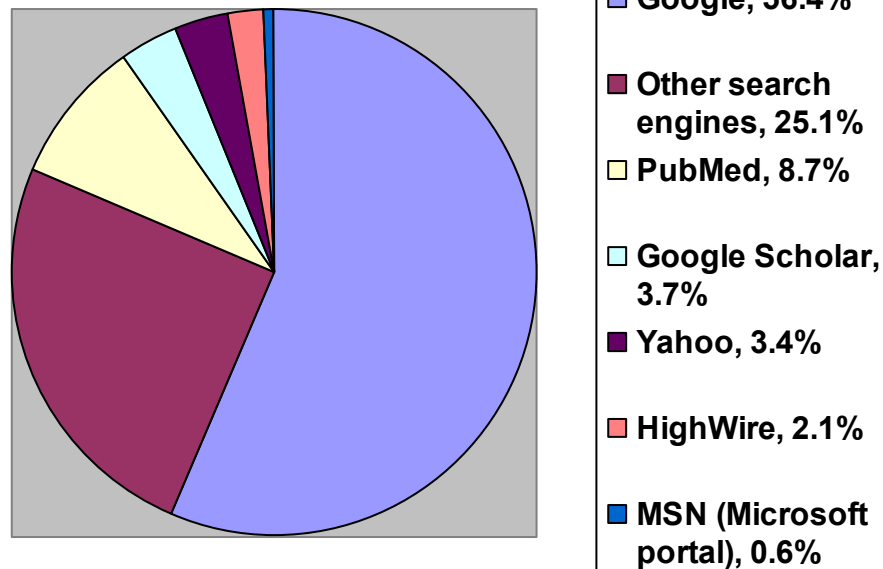


Sullivan, Danny. **Search engine watch: Nielsen NetRatings search engine ratings [online article]**. *SearchEngineWatch.com*. 2007. Retrieved on July 4 2007 from <http://searchenginewatch.com/showPage.html?page=2156451>



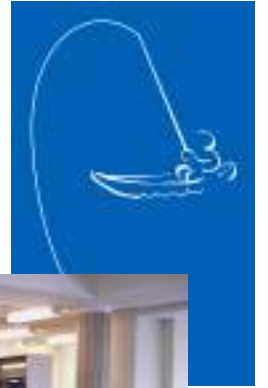
Google™ takes the world cont...

Referrals from Search Engines to Web Sites of 844 Journals Hosted by HighWire Press



Steinbrook, Robert. **Searching for the right search: Reaching the medical literature.** *New England Journal of Medicine*. 2006;354(1): 4-7. Retrieved on July 3 2007 from <http://content.nejm.org/cgi/content/full/354/1/4>

So what is Google?



- A search engine NOT a database



NOT



- Google does not create or own the information you find
- Google is not the Internet
- Google is just a means to an end

What is indexed?



- Google searches over 8 billion web pages
- Searches indexed sites not live web
 - This means time lag between published and available
- Google does not assign subject headings (i.e.MeSH)



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Web

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www.TheWellnessCommunity.org Recipes & Nutrition Info To Provide A Healthy Diet For Cancer Patients

[Canadian Cancer Society](#)
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[The Cancer Nutrition Center](#)
The Cancer Nutrition Center - Your source for information on the link between cancer and nutrition.
www.cancernutrition.com/ - 3k - [Cached](#) - [Similar pages](#) - [Note this](#)

[Cancer Nutrition Info, LLC](#)
Practical and useful information on the connection between nutrition and cancer.
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[Nutrition in Cancer Care - National Cancer Institute](#)
Expert-reviewed information summary about the causes and management of nutritional problems that occur in patients with cancer.
www.cancer.gov/cancerinfo/pdq/supportivecare/nutrition - 54k - [Cached](#) - [Similar pages](#) - [Note this](#)

[Cancer Diet and Nutrition Manual: What to eat for cancer?](#)
Cancer Diet and Nutrition Manual: what to eat for cancer? Discuss cancer diet helping alleviate symptoms such as taste change and sore mouth during cancer ...
www.healthcastle.com/cancerdiet.shtml - 43k - [Cached](#) - [Similar pages](#) - [Note this](#)

[ACS - Nutrition for Cancer Patients](#)
Cancer patients have special nutrition needs and issues related to eating. Get information to help maintain your health and cope with treatment.
www.cancer.org/docroot/MBC/MBC_6.asp - 27k - [Cached](#) - [Similar pages](#) - [Note this](#)

[Cancer and Nutrition- Diet-Food](#)

Canada about 65, 800, 000 hits

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[Eat Right Cookbook](#)
www.cancer.org Get the American Cancer Society's new healthy cookbook! Sponsored Links

[Diet For Cancer Patients](#)
www.TheWellnessCommunity.org Recipes & Nutrition Info To Provide A Healthy Diet For Cancer Patients

[The Cancer Nutrition Center](#)
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www.bookings.it/Rome-Italy Online hotels in Rome with reviews. Good availability and great rates!

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www.venere.com/Rome_Hotels Great hotels. Double rooms from 60€! Book now and pay when you check out.

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Hotels in Rome, Italy
This new hotel is set within the enchanting atmosphere of Via Veneto, in the heart of Rome, close to the historical sites and shopping areas, ...
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Web

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Rome Hotels
www.rome-hotels.it Free reservations, instant booking 200 hotels, maps, no booking fee

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Hotel a Roma, Italia
Collocato all'interno di un palazzo dalla tipica architettura italiana al centro di Roma, quest'hotel è stato rinnovato nel 2007 ed è situato in uno dei ...
www.booking.com/city/it/rome.it.html - [Pagine simili](#)

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Per visualizzare solo gli Hotel a Roma che hanno camere disponibili e prenotabili seleziona le date di arrivo e partenza dal box di ricerca sulla sinistra e ...
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Taiwan's Foreign Policy in the New Age
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If you want to delve deeper into the issues surrounding Taiwan, the following links from FOREIGN POLICY and other publications are a good place to start. ...
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United States-China-Taiwan Foreign Policy and Economic ...
The peaceful resolution(s) of the issues that separate China and Taiwan and conflict between China and the United States (US) is essential for long-term ...
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Foreign Policy Association: China and Taiwan/China&Taiwan
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GD 2001 China and Taiwan: What Role for U.S.? (Readings and Resources). Source: Foreign Policy Association. GD 2001 China and Taiwan: What Role for U.S.? ...
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Congressional Research Service Reports on Foreign Policy and ...
on Foreign Policy and Regional Affairs: Policy Issues ... 2006: The Rise of China and its Effect on Taiwan, Japan, and South Korea: U.S. Policy Choices; ...
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US FOREIGN POLICY EXPERTS CALL FOR DEFENSE OF TAIWAN
Twenty-three leading US conservatives and foreign-policy experts, including heads of the two

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Talk of war

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Taiwan FOREIGN POLICY - [繁体中文 BETA]
Chen's foreign policy is based on supporting democracy in the region and providing economic aid to the developing world. Because of Taiwan's successful economy, the country now provides a significant amount of foreign aid and technical ...
www.nationsencyclopedia.com/World-Leaders-2003/Taiwan-FOREIGN-POLICY.html - 12k - [类似网页](#)

Taiwan Foreign Policy in a New Age - Activities - Overseas Office - 繁体 - [[简体网页](#)]
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www.taiwanembassy.org/tc.asp?item=13750&ctNode=2240 - 6k - [类似网页](#)

Taiwan foreign policy experts participate in Washington Post ... - 繁体 - [[简体网页](#)]
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AIT - U.S. Foreign Policy - Key Documents
You Are In: AIT -> About AIT -> U.S. Foreign Policy - Key Documents. Last Updated: 05/01/2007 ... U.S. policy toward Taiwan and China, exemplified in part by the Taiwan Relations Act (TRA), has been "the key to maintaining peace and ...
www.ait.org/taiwan/about_ait/keydocs.aspx - 32k - [类似网页](#)

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On the most basic level, I would like to observe that there is a duality in Taiwan's foreign policy, which I think will not be unfamiliar to you. On the one hand, we are concerned with promoting our national values ...
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Talk of promoting national values

PageRank™ explained



- Google interprets a link from page A to page B as a vote, by page A, for page B
- it also analyzes the page that casts the vote- how important is this page?
- text-matching techniques find pages that are both important and relevant to your search

Other factors



- Google also searches full text and ranks hits by:
 - Word frequency
 - Word order
 - Word location
- There are possibly hundreds of other factors that we do not have information about

When to use Google



- When you are looking for a specific website:
 - Breastfeeding Committee for Canada
 - Regie de l'assurance maladie
- When you are looking for:
 - Consumer health information
 - Government documents
 - Grey literature (reports, proposals etc.)
 - Conference abstracts
 - Maps...

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When to use Google cont...



- When you are looking for:
 - Images
 - News
 - Phone #
 - Documents in different formats (doc, pdf, ppt, xls etc)
 - Tracking information for letters or parcels
 - Other search engines!
 - Etc.



When ~~not~~ to use Google*

* Or at least think twice

- When you are looking for the most recent articles on a topic
- When creating a comprehensive bibliography or writing a systematic review
- When answering a clinical question



When ~~not~~ to use Google cont...

- When you think what you're looking for may appear past the 2nd page of results:
 - use a clustering search engine instead:
www.clusty.com
- When you don't trust your judgement
- When you don't find what you're looking for!
 - Not everything is indexed by Google. Do not assume it doesn't exist because Google didn't find it!!!!



Tip: you can ask Google to display up to 100 results per page

Another reason not to trust your results



Google

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arthritis

Search

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Search: ☒ 3 the web ☐ 4 pages from Canada

Web

Refine results for **arthritis**:

Treatment 20 Tests/diagnosis 21 For patients 22 From medical authorities 23
Symptoms 24 Causes/risk factors 25 For health professionals 26 Alternative medicine 27
Patient handouts 28 Clinical trials 29 Continuing education 30 Practice guidelines



Hint

[Ottawa Panel evidence-based clinical practice guidelines for ...](#) 31

GUIDELINE TITLE. Ottawa Panel evidence-based clinical **practice guidelines** for therapeutic exercises and manual therapy in the management of osteoarthritis. ...

www.guideline.gov/summary/summary.aspx?ss=15&doc_id=7785&nbr=4490 - 44k -

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[Guidelines - Rheumatoid arthritis - Musculoskeletal disorders ...](#) 36

Rheumatoid **arthritis** (new). Karen Walker-Bone and Sarah Fallow · Interventions · Key points
· About this condition · Updates · **Guidelines** · References ...

www.clinicalevidence.com/ceweb/conditions/msd/1124/1124_guidelines.jsp - [Similar pages](#) 37

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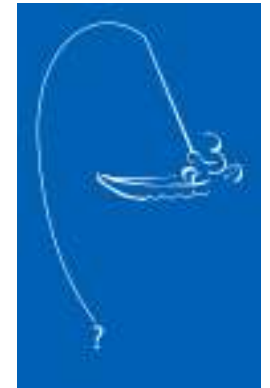
[Practice Guidelines](#) 39

Practice Guidelines. Many specialty societies and other professional ... **Guidelines** for the Management of Rheumatoid **Arthritis** - 2002 Update - 2/02 ...

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[Coping with Arthritis?](#) [43](#)

LivingWell.ca 5 Simple Steps to help you delay the potential onset of **arthritis**.

[Symptoms Of Arthritis](#) [44](#)

www.symptoms-of-arthritis.org Find **Arthritis** Symptoms and Diagnose an Arthritic Condition

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[For health professionals](#) [51](#)

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[Arthritis Foundation | Symptoms Treatments | Prevention Tips ...](#) [53](#)

A voluntary health agency covering all **arthritis** and related conditions.

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[Arthritis - Wikipedia, the free encyclopedia](#) [57](#)

Arthritis (from Greek arthro-, joint + -itis, inflammation; plural: arthritides) is a group of conditions where there is damage caused to the joints of the ...

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[Arthritis.com, your online Arthritis Resource](#) [61](#)

Arthritis.com is your resource for **arthritis** information online. Living with **arthritis** can be a challenge. Find out about osteoarthritis, ...

www.arthritis.com/ - 19k - [Cached](#) [62](#) - [Similar pages](#) [63](#) - [Note this](#) [64](#)

[MedlinePlus: Arthritis](#) [65](#)

If you feel pain and stiffness in your body or have trouble moving around, you might have **arthritis**. Most kinds of **arthritis** cause pain and swelling in your ...

www.nlm.nih.gov/medlineplus/**arthritis**.html - 78k -

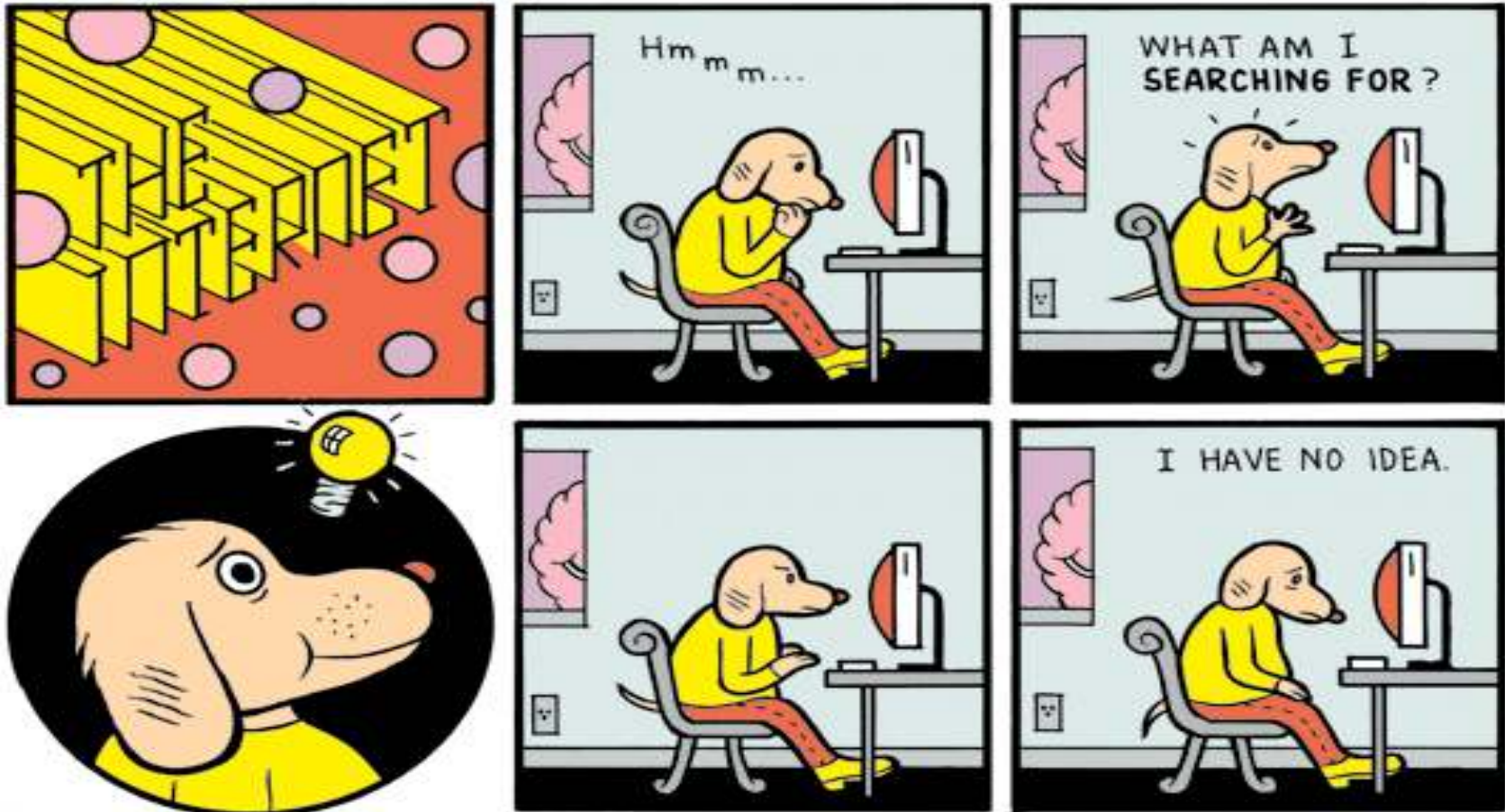
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[About Arthritis - Rheumatoid Arthritis - Osteoarthritis - Related ...](#) [69](#)

Information about **arthritis** pain relief, symptoms, medication, treatment, and diet. Information

Can you spot the differences?

It helps to know what you're looking for...



Andy Remeter. Techno Tuesday: The Internet. *Fabrica* [blog]. Posted on Nov. 23 2006. Accessed Aug. 28 2007 from www.fabrica.it/blog/techno_tuesday



Complimentary and alternative places to look

- Sometimes it's better to go directly to a good resource or use another search engine:
 - www.newslink.org : newspapers of the world
 - www.clusty.com : meta search engine
 - www.acronymfinder.com : acronyms
 - www.gacguidelines.ca : practise guidelines



Tip: you can use Google to find these resources

Tip: save the great resources you find to your favourites



General search tip



Use words that are as *specific* and *descriptive* as possible

i.e. Vancouver 2010 Olympics rather than Olympics

i.e. Montreal mirror listings rather than mirror

Search tips: Boolean



- Boolean = AND OR NOT
- Google =
 - **AND**: is automatically inserted between words
 - *Unless* it is an “exact phrase search”



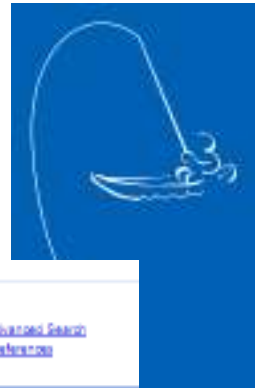
The **surprising** truth about exact phrase searching:

it is almost never necessary to put quotes around a search phrase!

Use quotes when you need Google to recognize common words such as “the “and” “when” and your search without quotes didn’t get results

i.e. The book titles “The corrections” and “War and peace”

Example: exact phrase search with and without using quotes



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Results 1 - 10 of about 1,880,000 for "chronic obstructive pulmonary disease" [definition]. (0)

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[COPD - Chronic Obstructive Pulmonary Disease - symptoms, causes ...](#)

Learn about COPD - Chronic Obstructive Pulmonary Disease which is primarily two related diseases - chronic bronchitis and emphysema.

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[MedlinePlus: COPD \(Chronic Obstructive Pulmonary Disease\)](#)

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[MedlinePlus Medical Encyclopedia: Chronic obstructive pulmonary ...](#)

Smoking and COPD (Chronic Obstructive Pulmonary Disorder) ... Chronic obstructive pulmonary disease (COPD) is a group of lung diseases that cause swelling ...

www.nlm.nih.gov/medlineplus/ency/article/000091.htm - 26k -
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[What Is COPD?](#)

Chronic obstructive pulmonary disease (COPD) is a lung disease in which the lung is damaged, making it hard to breathe.

www.nhlbi.nih.gov/health/doi/Diseases/Copd/Copd_WhatIs.html - 14k -
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[Chronic Obstructive Pulmonary Disease \(COPD\) Fact Sheet - American ...](#)

Chronic obstructive pulmonary disease (COPD) is a term referring to two lung diseases, chronic bronchitis and emphysema, that are characterized by ...

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Can you spot the difference (s)?

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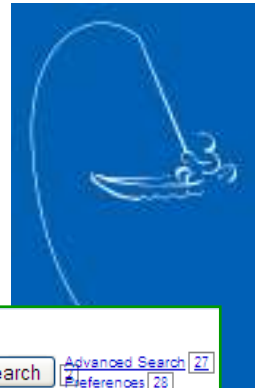


- Boolean = AND OR NOT
- Google =
 - **OR**: type OR (capitalized) between two words or phrases when either one will do



If you use the Canadian spelling Google will *sometimes* find the US variation as well i.e. colour / color, but don't count on it

It is debatable whether using OR can get you better results



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 Rock pioneer Bo Diddley suffers heart attack [32] - 1 hr
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Myocardial infarction - Wikipedia, the free encyclopedia [33]
The phrase "heart attack" is sometimes used incorrectly to describe sudden cardiac ...
Heart attack rates are higher in association with intense exertion, ...
en.wikipedia.org/wiki/Myocardial_infarction - 314k - Cached [34] - Similar pages [35]

Act in Time to Heart Attack Signs [37]
Heart Attack Signs: National Heart, Lung, and Blood Institute - About this site - Resources for Health Professionals - Resources for Patients and the Public ...
www.nhlbi.nih.gov/actintime/index.htm - 9k - Cached [38] - Similar pages [39]

What is a Heart Attack? [40]
A heart attack occurs when the supply of blood and oxygen to an area of heart muscle is blocked, usually by a clot in a coronary artery.
www.nhlbi.nih.gov/health/dci/Diseases/HeartAttack/HeartAttack_WhatIs.html - 17k - Cached [41] - Similar pages [42]

MedlinePlus: Heart Attack [43]
Each year over a million people in the U.S. have a heart attack. About half of them die. Many people have permanent heart damage or die because they don't ...
www.nlm.nih.gov/medlineplus/heartattack.html - 75k - Cached [44] - Similar pages [45]

But we've
lost the
"clusters"



Google heart attack OR myocardial infarction [1] Search Advanced Search [27] Preferences [28]

Web News [30]

Myocardial infarction - Wikipedia, the free encyclopedia [33]
Acute **myocardial infarction** (AMI or MI), more commonly known as a **heart attack**, is a medical condition that occurs when the blood supply to a part of the ...
en.wikipedia.org/wiki/Myocardial_infarction - 314k - Cached [34] - Similar pages [35]

Heart Attack (myocardial infarction) by MedicineNet.com [36]
Overview on **heart attack (myocardial infarction)** and **heart attack** symptoms including signs of a **heart attack**, includes causes, risk factors, prevention, ...
www.medicinenet.com/heart_attack/article.htm - 57k - Cached [37] - Similar pages [38]

MedlinePlus Medical Encyclopedia: Heart attack [39]
Myocardial infarction; MI; Acute MI. Definition Return to top. A **heart attack** is when low blood flow causes the **heart** to starve for oxygen. ...
www.nlm.nih.gov/medlineplus/ency/article/000195.htm - 34k - Cached [40] - Similar pages [41]

Myocardial Infarction (Heart Attack) - Patient UK [42]
Myocardial infarction (MI) is usually caused by a blood clot in a **heart** (coronary) artery. Phone for medical help immediately if you develop severe chest ...
www.patient.co.uk/showdoc/23068792/ - 45k - Cached [43] - Similar pages [44]

HeartPoint: Myocardial Infarction [45]
The proper use of the non-medical term "**heart attack**" is "**Myocardial Infarction**". Either term is scary. "**Myocardial Infarction**" (abbreviated as "MI") means ...
www.heartpoint.com/mi.html - 6k - Cached [46] - Similar pages [47]

Heart attack and high blood pressure information from iVillage ... [48]
Heart attack, or **myocardial infarction**, information including a **heart** healthy diet and exercise tips. - Page 1.
heart.health.ivillage.com/cholesterol/heartattack.cfm - 41k - Cached [49] - Similar pages [50]

Heart Attack [51]
Heart disease is the leading killer of Americans today; **heart attack** is its most visible sign. Find an explanation of **heart attack**, prevention guidelines, ...
www.americanheart.org/presenter.jhtml?identifier=1200005 - 37k - Cached [52] - Similar pages [53]

Search tips: Boolean



- Boolean = AND OR NOT
- Google =
 - **NOT:** type minus sign “-” before the word you want to exclude



Sometimes there are too many words to exclude and adding a term that narrows the search might be better

i.e. instead of

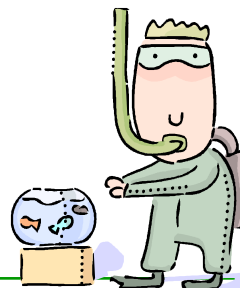
bass –fishing –fish –beer

try

bass guitar



NOT



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Search: ☒ the web ☐ pages from Canada

Web

[Bass guitar - Wikipedia, the free encyclopedia](#)
The electric **bass** guitar (or "electric **bass**") is a **bass** string instrument played with the fingers by plucking, slapping, or using a pick. ...
[en.wikipedia.org/wiki/Bass_guitar](#) - 84k - [Cached](#) - [Similar pages](#)

[Double bass - Wikipedia, the free encyclopedia](#)
The double **bass** (also known as the contrabass, string **bass**, upright **bass**, bull fiddle, or simply **bass**) is the largest and lowest pitched bowed string ...
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[ESPN - Bassmaster Index](#)
By joining **BASS**, you will receive Bassmaster Magazine, have a voice in ... Bassmaster Pro Series: The highest level of **BASS** competition includes the ...
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The official home of **Bass** beer, the original pale ale. Experience British beer at its best.
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[Ontario Smallmouth and Largemouth Bass Fishing](#)
Largemouth and smallmouth **bass** biology, fishing tips and tricks and fishing lodges in Ontario, Canada.
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The double **bass** (also known as the contrabass, string **bass**, upright **bass**, bull fiddle, or simply **bass**) is the largest and lowest pitched bowed string ...
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[Club Bass® - Canada's Bass Guitar Store](#)
Specializing in **bass** guitars and accessories. Includes product details, prices, ordering information, specials and stock list.
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For NOT use a minus sign “-”

2 ways to define:

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Web

Definitions of **lethargy** on the Web:

- a state of comatose torpor (as found in sleeping sickness)
- inaction: weakness characterized by a lack of vitality or energy
- languor: inactivity; showing an unusual lack of energy; "the general appearance of sluggishness alarmed his friends": wordnet.princeton.edu/perl/webwn
- A condition of drowsiness or indifference: www.nutrabio.com/Definitions/definitions_1.htm
- Drowsiness or prolonged lapses into unconsciousness: www.drgecko.com/glossary.htm
- the feeling of being very tired or weary: alephelgusa.com/define.php
- Drowsiness: www.ohiohealth.com/healthreference/healthtopics/glossary.htm
- lack of energy, sluggishness, dullness, apathy: www.bringascents.com/Glossary.htm
- A condition of sluggishness. Getting a good night's sleep and still waking up feeling exhausted: www.springspringsprings.com/glossary1.php
- A feeling of tiredness, drowsiness or lack of energy: www.schizophrenicpen.com/de2.html

Answers.com lethargy Search

Did you mean: [fatigue](#) (medical), [Lethargy](#) (Rock Band)

Dictionary

leth·ar·gy (lĕth'ar-jē)

n., pl. -gies.

1. A state of sluggishness, inactivity, and apathy.
2. A state of unconsciousness resembling deep sleep.

[Middle English *letargie*, from Old French, from Late Latin *lēthārgia*, from Greek *lēthārgō*, from *lēthargos*, forgetful: *lēthē*, forgetfulness + *argos*, idle (a-, without; see *a-* + *argos*, work).]

SYNONYMS: *lethargy, lassitude, torpor, torpidity, stupor, languor.* These nouns refer to a deficiency in mental and physical alertness and activity. *Lethargy* is a state of sluggishness, drowsy dullness or apathy. *The war roused the nation from its lethargy.* *Lassitude* implies weariness or diminished energy such as might result from physical or mental strain. *"His anger had evaporated; he felt nothing but utter lassitude"* (John Galsworthy). *Torpor* and *torpidity* suggest the suspension of activity characteristic of an animal in hibernation: *"My calmness was the torpor of despair"* (Charles Brockden Brown). *Nothing could dispel the torpidity of the indifferent audience.* *Stupor* is often produced by the effects of alcohol or narcotics; it suggests a benumbed or dazed state of mind. *"The huge height of the buildings . . . the hubbub and endless stir . . . struck me into a kind of stupor of surprise"* (Robert Louis Stevenson). *Languor* is the indolence typical of one who is satiated by a life of luxury or pleasure. *After the banquet, I was overcome by languor.*

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~ synonyms



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Psychologists study such phenomena as perception, cognition, emotion, **personality**, motivation, and interpersonal relationships. **Psychology** also refers to the ...
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Cognition - Wikipedia, the free encyclopedia
Cognition or **cognitive** processes can be natural and artificial, conscious and ... The sort of **mental** processes described as **cognitive** or **cognitive** processes ...
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www.psych.utoronto.ca/ - 13k - [Cached](#) - [Similar pages](#)

News results for ~psychological

 **Bramer got no mental health help** - 25 Aug 2007
Blumberg said a **mental** health provider would have to evaluate Bramer to determine whether he needs **psychological counseling**. "We don't know if it's an issue ..."
Baltimore Sun - [78 related articles »](#)
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Internet Mental Health
The 52 most common **mental** disorders, medications, news, recovery stories, links.
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Canadian Psychological Association / Société canadienne de psychologie
Detailed site on **psychology** in Canada. Available in French and English.
www.cpa.ca/ - 8k - [Cached](#) - [Similar pages](#)

Canadian Psychiatric Association
National organisation presents details of services and membership.
www.cpa-apc.org/ - 2k - [Cached](#) - [Similar pages](#)

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Department of **Psychology**.
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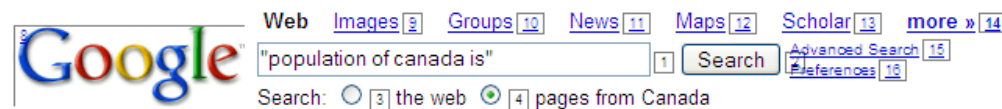


- You can also search Google for
 - movie listings → movie:montreal
 - Patents → patent 5123123
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Search tips: looking for answers



When you are looking for an answer to a question
put your question in the form of an answer



Web

[Canada's population clock](#) [20]

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www.statcan.ca/english/edu/clock/population.htm - 16k - [Cached](#) [21] - [Similar pages](#) [22]

[The Daily, Thursday, October 26, 2006. Canada's population by age ...](#) [23]

Canada's population keeps getting older, as is the case for almost every other developed nation in the world. As of July 1, 2006, the median age of the ...
www.statcan.ca/Daily/English/061026/d061026b.htm - 31k - [Cached](#) [24] - [Similar pages](#) [25]
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[The Atlas of Canada - Aboriginal Population](#) [27]

The Aboriginal population of Canada is a diverse population with distinct cultures, languages, religious beliefs and political systems. ...
atlas.nrcan.gc.ca/site/english/maps/peopleandociety/population/aboriginalpopulation/1-2 - 2k - [Cached](#) [28] - [Similar pages](#) [29]

[Canada Travel - Information for travelling in Canada](#) [30]

The population of Canada is 32 million, equivalent to the population of the State of California or half of the UK, there is lots of room for visitors! ...
www.flyfromcanada.com/canada-travel.html - 25k - [Cached](#) [31] - [Similar pages](#) [32]

[Centennial Convention Report: Canada: The Status of Our Work, Our ...](#) [33]

The population of Canada is being added to every year by hundreds of thousands of those who are nobly assisting in changing the forests and great prairies ...
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Right on the money!

But results are not always what you are looking for

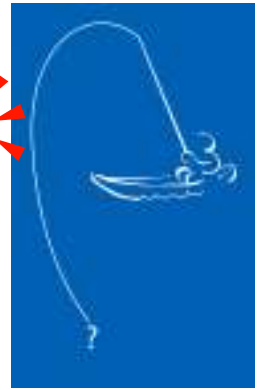
Image search: Important reminder about “fair dealing”*



- Most images you find using Google are probably copyrighted.
 - Rule of thumb: if it doesn't say it's *not*, you should assume it *is* copyrighted
- You can still use them but only for “private study and research purposes”
 - Must get permission to include in published work
 - Always cite your source, even if it's not for publication- this will also help you find it again (If you're not sure how to cite your work, please ask a librarian for help).
- More info from the Canadian Intellectual Property Office:
http://strategis.ic.gc.ca/sc_mrksv/cipo/cp/copy_gd_protect-e.html

*Canada's “fair dealing” is *almost* the same thing as “fair use” in the US

Search tips: personalize your



- If you have a gmail account you can personalize your news
- Decide what news you are most interested in (country, language, subject etc.)
- Get same story reported by different sources
- Frequently updated
- Access your account from any computer

Search tips: personalize your news cont...



www.Google.ca > News > Personalize this page > follow instructions

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North American leaders end summit with pact on import safety

L'Afghanistan en quête de conclusion



Google as a diagnostic tool

- Much discussion was inspired by an article in Nov 10 2006 issue of BMJ^[1] which revealed that Google searches achieved the correct diagnosis 58% of the time (15 out of 26 cases, 95% CI 38% to 77%) in an Internet-based study using Google to search for diagnosis.
- Is 58% good enough?
- It is not clear what search strategies were used, or what resources were found using Google to search:

Moral: *Google is only as good as the resources you find with it.*

^[1] Tang H, Hwee Kwoon Ng J. Googling for a diagnosis- use of Google as a diagnostic aid: Internet based study. BMJ. 2006; 0(2006). Retrieved March 14 2007 from:
www.bmj.com/cgi/content/abstract/bmj.39003.640567.AEv1?hrss=1



Tips for evaluating what you find

- Who developed the website?
- What is their mission?
- What is the domain of the site? (.gov, .com, .org?)
- How current is the information? (when was the page last updated?)
- Who is the intended audience?
- What criteria was used to include information on the site?
- Who reviews and/or creates the content?
- Are there dead links?

What is Google Scholar (GS)?



- Search multiple resources at once = metasearching...
- ...but search a single index.
- Searches full text not just title and abstract
- Does not map to keywords, or MeSH subject headings
- Cannot save search results or search results

What is indexed in Google scholar?



- We don't know because they won't tell us
- We do know: 1.4. million of 16 million records in Medline (site:ncbi.nlm.nih.gov)
- Just made deal with Elsevier 2 months ago= 2000 sci-tech journals = "25% of the world's science, technology and medicine full text and bibliographic information" (According to the publisher)

	search for the word Elsevier*	search for the word the*
Aug 29	7, 520, 000 hits (including books)	1,490,000,000 hits
Oct 10	7, 800, 000 hits (including books)	1,510,000,000 hits

*Important notes: There is no way to remove duplicates. There is also no way to search for articles hosted by Elsevier as they are available through so many different websites.



Google Scholar as a biomedical database [\[1\]](#)[\[2\]](#)

- Pros
 - easy to use
 - easy to search multiple sources
 - good for browsing and serendipitous discovery
 - good for finding key words and search terms used often in a particular subject area
 - quick and easy way to track citations (has been compared with Scopus and Web of Science and found to be useful but probably not as complete) [\[3\]](#)[\[4\]](#)
 - quick and easy way to find seminal authors on a given topic
 - searches full text

[\[1\]](#) Giustini D, Barsky E. A look at Google Scholar, PubMed, and Scirus. JCHLA/JABSC. 2005;26:85-89. Retrieved March 14 2007 from: http://weblogs.elearning.ubc.ca/googlescholar/giustini_barsky.pdf

[\[2\]](#) Giustini D. How Google is changing medicine. BMJ. 2005; 331(1487). Retrieved March 14 2007 from www.bmj.com/cgi/content/full/331/7531/1487?ijkey=21vP1aA69zNR5gN&keytype=ref

[\[3\]](#) Bakkalbasi N, Bauer K, Glover J, Wang L. Three options for citation tracking: Google Scholar, Scopus and Web of Science. *Biomedical Digital Libraries* 2006, 3(7).

[\[4\]](#) Giustini D. Citation rivals? Google Scholar, Scopus, Web of Science [blog post]. UBC Academic Search: Google Scholar Blog. Posted July 5 2006, retrieved March 14 2007 from: <http://weblogs.elearning.ubc.ca/googlescholar/archives/028659.html>



Google Scholar as a biomedical database

Cont... [\[1\]](#)[\[2\]](#)

- Cons
 - not as up to date
 - not as reliable and
 - not as comprehensive as specialised databases such as PubMed
 - there is no way to know what is indexed (i.e. is everything in PubMed indexed in GS or only some of it?)
 - does not map to keywords or MeSH subject headings
 - Cannot save search results or search strategy

So...

when to use Google Scholar *



- When you are searching for a few seminal articles on a topic
- When your topic is multidisciplinary
- When the article is very old and obscure (regular Google is also a good choice)
- When you want to search multiple databases quickly
- When you have no access to McGill resources and are hoping to find something for free (PubMed is also a good choice)

* This symbol was created by IIT Bombay and is not copyrighted. Accessed from: www.designofsignage.com/application/symbol/index.html

When to use Google Scholar cont...



*



- When you suspect your citation may be wrong (don't use quotes and variations will be found)
- When you want to track citations...
 - ...in non-ISI Web of knowledge journals
 - ...and ensure all minor title/author variations are covered
 - ...track citations in non-english sources



Tip: type in the authors last names to find an article

When ~~not~~ to use Google Scholar



- When you are creating a comprehensive bibliography or writing a systematic review
- When you want the most recent articles on a topic
- When you want to save your search and run it again later
- When you want to track citations...
 - ...and only include scholarly citations
 - ...in journals not indexed by Google Scholar (as we have said it is not always clear what is indexed)
 - ...in older publications
 - ...and you want the most recent update



Tip: Regular Google is a better place to look for articles that are not in scholarly journals

Implications for practice



- You are better off using a medical database such as Medline or UptoDate
 - To search for reviews
 - To answer a clinical question
 - For an exhaustive search of publications

Search tips: exact citation



Try typing in all the authors' last names if you can't find an article by title



Without using quotes is not precise enough for GS

Google Scholar search results for "reflections on google scholar". The search bar shows "reflections on google scholar" and the results list several articles, including "Mediterranean diet and public health: personal reflections" and "Acoustic rhinometry: evaluation of nasal cavity geometry by acoustic reflectometry".

Using quotes but no hits

Google Scholar search results for "reflections on google scholar". The search bar shows "reflections on google scholar" and the results show "Your search - 'reflections on google scholar' - did not match any articles."

If the article is not in a scholarly journal try regular Google

Google search results for "reflections on google scholar". The search bar shows "reflections on google scholar" and the results list several articles, including "Reflections on Google Scholar" and "Really Simple Sidi (RSS): Comparison of Google Scholar and Web Of Science".

Note: quotes are not needed in regular Google

Collaborated on & written by

Google Scholar

Web Images Video News Maps more »

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Search

Scholar

All Results

Tip: Try removing quotes from your search to get more results

[E Corbi](#)
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[Oviposition behaviour in *Lygus rugulipennis*: a morph](#)
R Romani, G Salemi, F Frati, E Corbi, N Isidoro ... - Entomol
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Another reason not to trust GS



Sep 5: same search as previous but completely different results!

Google Scholar BETA

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author:francesca-frati

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