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# Where Google and Libraries Meet?

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Jenny Walker  
Xrefer, Ltd

# Agenda

- Google in the scholarly domain
- Google Scholar and Library links
- What does it mean - a threat or an opportunity?

# Our domain used to be...

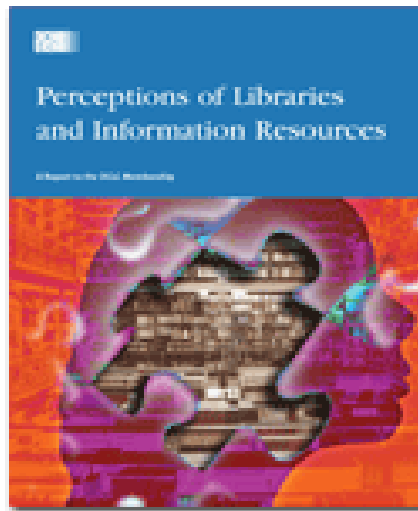
The collage displays several web browser windows from 2006:

- Entrez PubMed - Mozilla Firefox:** Shows the PubMed homepage with search options and a sidebar with links to various databases and services.
- ScienceDirect - Search Results:** Displays search results for the query "TITL-ABS-KEY-AUT(avian AND flu)".
- UTS Library - SuperSearch - Mozilla Firefox:** Shows the UTS Library SuperSearch page, which is a gateway to the library's collection of information resources. It includes a search bar, a "fast links" section, and a "Getting Started" section.
- Institute of Physics - Mozilla Firefox:** Shows the Institute of Physics homepage, featuring a search bar and a "New Search" button.
- Four Colleges - Mozilla Firefox:** Shows a search results page for the query "TITL-ABS-KEY-AUT(avian AND flu)".
- Windows XP Taskbar:** The bottom of the collage shows a Windows XP taskbar with various icons, including the start button, and a system clock showing 1:00 AM.

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# Perceptions of Libraries and Information Resources--OCLC Report, January 2006

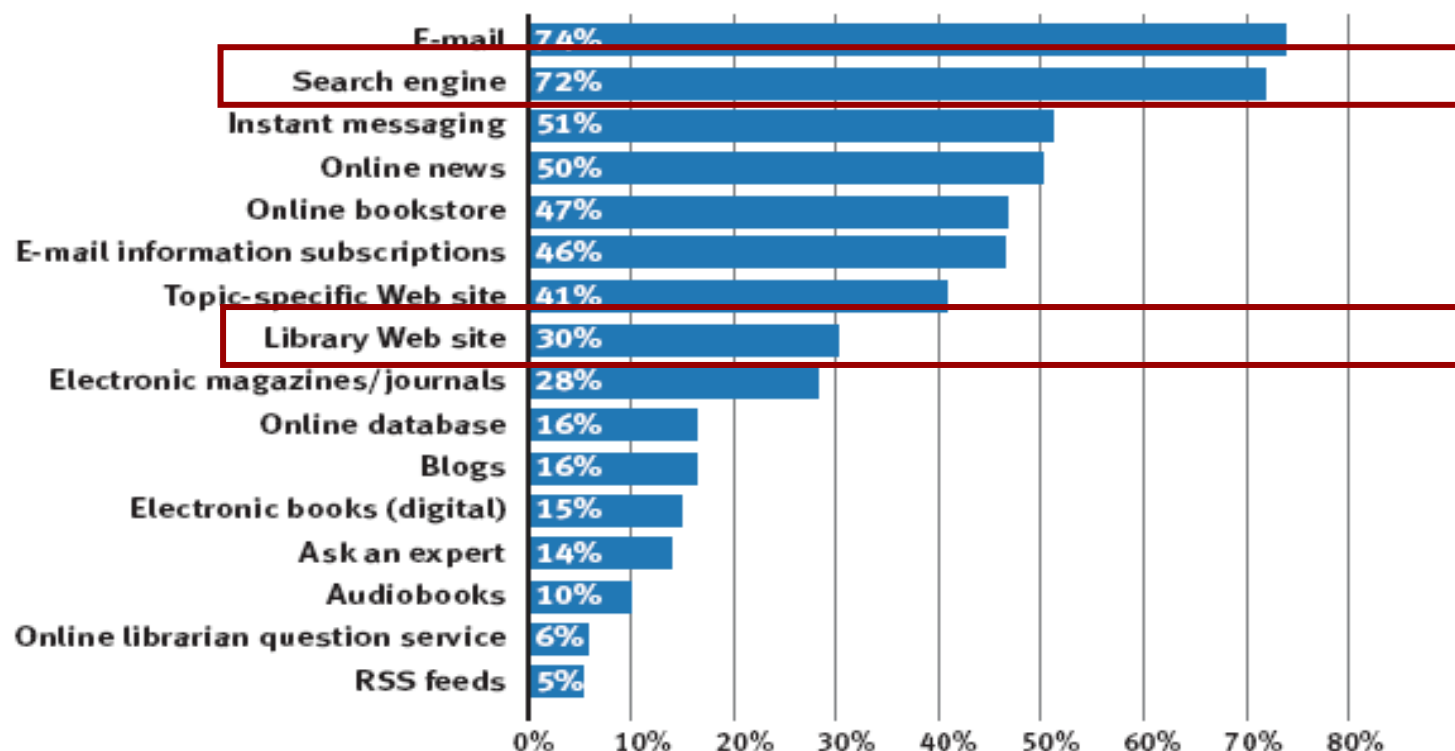
June 2005; 3,348 respondents; ages 14-65;  
From Australia, Canada, India, Singapore, UK and USA.



<http://www.oclc.org/reports/2005perceptions.htm>

## Usage of Electronic Resources— by Total Respondents

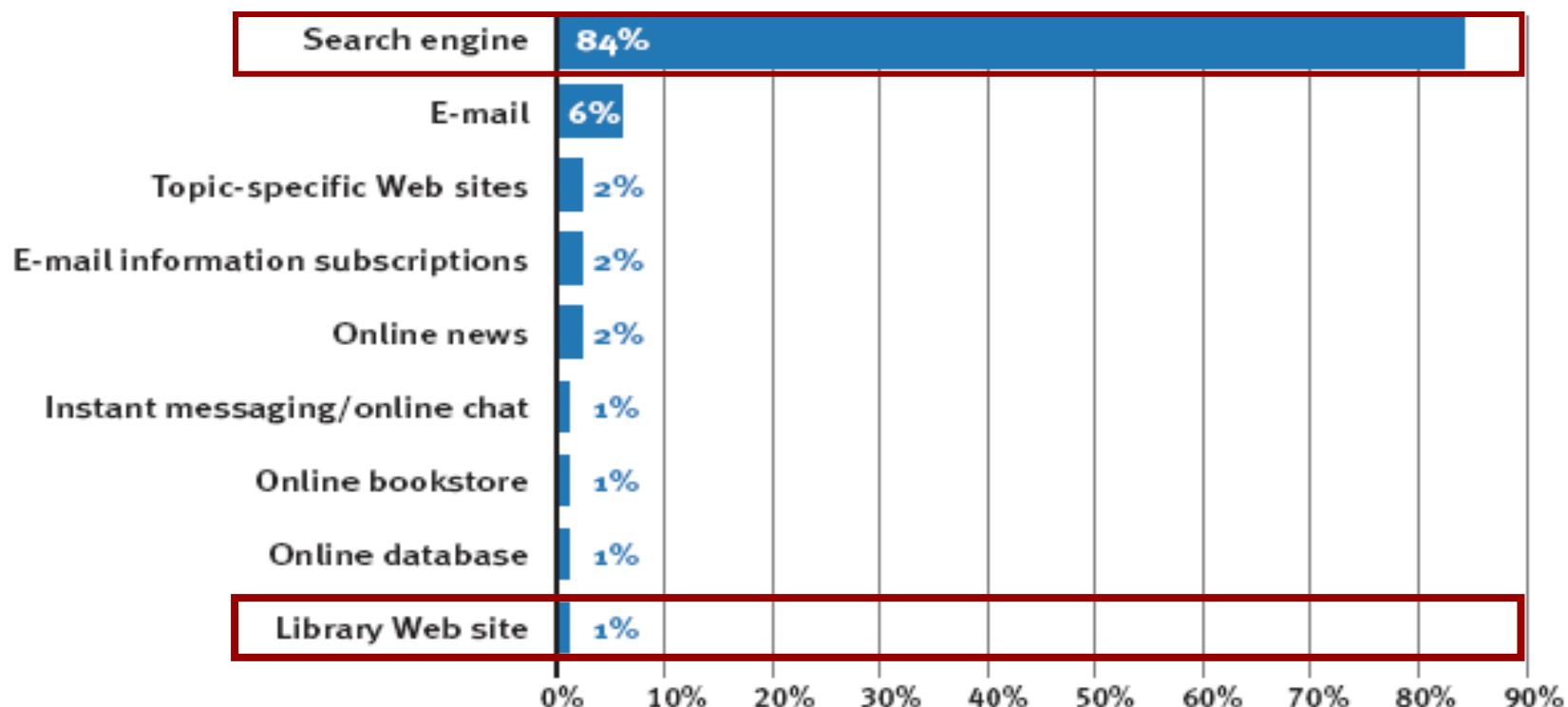
Please indicate if you have used the following electronic information sources, even if you have used them only once.



Source: *Perceptions of Libraries and Information Resources*, OCLC, 2005, question 505.

## *Where Electronic Information Searches Begin— by Total Respondents*

Where do you typically begin your search for information on a particular topic?



Source: *Perceptions of Libraries and Information Resources*, OCLC, 2005, question 520.

## *Information Sources Considered and First Choice— by Total Respondents*

Next time you need a source/place for information, which source or sources would you consider? Select all that apply.

And, which source/place would be your first choice?

Sources Considered	%	First Choice...	%
Search engines	91%	Search engines	80%
Library (physical)	55%	Library (physical)	11%
Online library	42%	Online library	6%
Bookstore (physical)	37%	Bookstore (physical)	2%
Online bookstore	30%	Online bookstore	2%

Source: *Perceptions of Libraries and Information Resources*, OCLC, 2005, questions 1325 and 1335.

# US Search Share Rankings – August 2006

<b>Provider</b>	<b>Number of searches (000)</b>	<b>Year on Year Growth</b>	<b>Share of Searches</b>
1. Google Search	3,003,205	30%	50.2%
2. Yahoo! Search	1,434,169	23%	24.0%
3. MSN/Windows Live Search	595,584	3%	10.0%
4. AOL Search	328,559	-18.2%	5.5%

Nielsen//Netratings August



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And now.....



[www.msdevey.com](http://www.msdevey.com)

# A few Google tidbits

- 77% increase in revenue over 2005 and doubling of profits (3<sup>rd</sup> quarter 2006 results)
- First company ever to account for a quarter of all US online ad spending (2006 target US\$4 billion)
- “Google” is not a verb!



“Google's mission is to organize the world's information and make it universally accessible and useful.”

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# Google and Libraries


- Google Book Search (previously Google Print)
- Google Scholar
- Google News Archive

Some recent partnerships and acquisitions:

1. Partnership with Blackboard (October 2006)
2. Acquisition of Wiki startup – JotSpot (November 1<sup>st</sup> 2006)

“Google's acquisition of JotSpot validates the notion that people want to do more online than just read. The Web is moving from a monologue to a dialogue.”

# Google Book Search

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Book Search BETA

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- [Can I see a copy of a contract you have with a library partner?](#)
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- Google Publishers Program
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3. [What libraries are you working with?](#)
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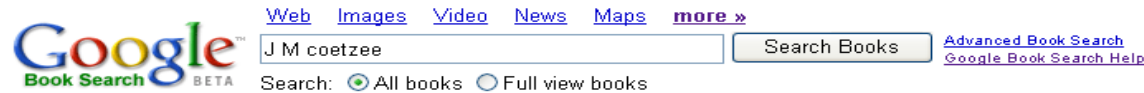
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# Google Publisher Program



## Book Search



### [Food, the Vital Stuff - Page 6](#)

by J. M. Coetzee, Graham Swift, John Lanchester - Fiction - 1995

OF THOUGHT Free Exchange Pierre Bourdieu and Hans Haacke In this remarkable book

by the leading social theorist Pierre Bourdieu and the artist H

Snippet view - [About this book](#)



### [Transzendente Theorie und Praxis: A Post-Colonial](#)

by Klaus Hammacher, Sue Kossew - 1996 - 258 pages

... **JM Coetzee** ...

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### [Postcolonial Narrative and the Work of Mourning: J](#)

by Sam Durrant - 2004 - 160 pages

This book focuses on three contemporary writers whose work  
regard: **JM Coetzee**, Wilson Harris, and Toni Morrison. ...

Limited preview - [Table of Contents](#) - [First page](#) - [Index](#) - [Ab](#)



### [The Lives of Animals - Page 18](#)

by Amy Gutmann, Marjorie B. Garber, J. M. Coetzee - 1999 - 130 pages

'Cf. **JM Coetzee**, "What Is Realism?" Salmagundi, nos. 114—15 (1997): 60—81. 2 Cf.  
Frederick R. Karl, Franz Kafka (New York Ticknor & Fields, 1991), 557—58.

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### [J. M. Coetzee And the Idea of the Public Intellectual - Page 42](#)

by Jane Poyner - 2006 - 246 pages

M. Coetzee and the Question of Literature Peter D. McDonald SEEN AGAINST the  
background of the vast scholarly and polemical literature on censorship, **JM** ...

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### **JM Coetzee**

by Dominic Head - [Find libraries](#)

Letterkunde; Postkolonialisme; Literatuurkritiek; South Africa (In literature); 6.680

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## INTRODUCTION

African apartheid, Harris the complex Caribbean history of genocide, slavery, and settlement, and Morrison, U.S. slavery and its legacies. While these histories are teasingly grouped together under the general heading of colonialism, the narratives that memorialize these histories are postcolonial in that they share a common horizon of emancipation, one that exceeds specific historical instances of liberation such as the U.S. Emancipation Proclamation in 1863, the independence of Guyana and other Caribbean nations in the 1960s and 1970s, and the multiracial elections in South Africa in 1994.<sup>1</sup> Although Morrison explicitly addresses her work, at least in the first instance, to an African American readership (Ruas 96), the work of all three writers is read throughout the English-speaking world and beyond, and forms part of a global conversation about the nature of this international conversation. In the context of this international conversation, the kind of cultural work I am talking about is postcolonial in a performative sense: they bear witness to the various histories of racial oppression that underwrite local, national, and international privilege and continue to inform, if not determine, our cultural and psychological existence in the hope that their literary witnessing will bring into being a truly postcolonial form of community.<sup>2</sup>

To understand our present as postcolonial is to raise the difficult question of the relation between postcolonialism and postmodernism (the schools of thought) and postcoloniality and postmodernity (as descriptions of our era). Certain postcolonial critics have attempted to distinguish between an apolitical or overly theoretical postmodernism that "marginalizes or rejects historical context" (Adam and Tiffin, cover notes) and a politically committed postcolonialism, grounded in the practicalities of political resistance. Such a distinction has been increasingly hard to maintain in the light of the ethico-political "turn" in those theorists loosely identified, despite their differences, as postmodern or poststructuralist. Derrida's *Specters of Marx*, for instance, from which I take my second epigraph, argues that deconstruction has always been fundamentally concerned with issues of justice, a claim complemented by Robert Young's argument that poststructuralism—and in particular deconstruction—arose historically out of the postwar crisis of the French empire and was always already, so to speak, postcolonial.

A related distinction between postmodernity as the (postpolitical) condition of Western states and postcoloniality as the (politicized) condition of

## Postcolonial Narrative and the Work of Mourning: J.M. Coetzee, Wilson Harris, and Toni Morrison

By Sam Durrant



Sam Durrant's powerfully original book compares the ways in which the novels of J. M. Coetzee, Wilson Harris, and Toni Morrison memorialize the traumatic histories of racial oppression that continue to haunt our postcolonial...

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African apartheid, Harris the complex Caribbean history of genocide, slavery, and settlement, and Morrison, U.S. slavery and its legacies. While these histories are uneasily grouped together under the general heading of colonialism, the narratives that memorialize these histories are postcolonial in that they share a common horizon of emancipation, one that exceeds specific historical instances of liberation such as the U.S. Emancipation Proclamation in 1863, the independence of Guyana and other Caribbean nations in the 1960s and 1970s, and the multiracial elections in South Africa in 1994.<sup>1</sup> Although Morrison explicitly addresses the African American reader, her work is written for an American readership (Routledge's introduction out the English-speaking conversation about the nature of contemporary community. Within the context of this international conversation, I retain the term "postcolonial" as a marker of the kind of cultural work I see each writer as carrying out. Their work is postcolonial in a performative sense: they bear witness to the various histories of racial oppression that underwrite local, national, and international privilege and continue to inform, if not determine, our cultural and psychological existence in the hope that their literary witnessing will bring into being a truly postcolonial form of community.<sup>2</sup>

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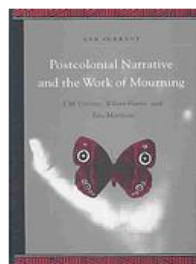


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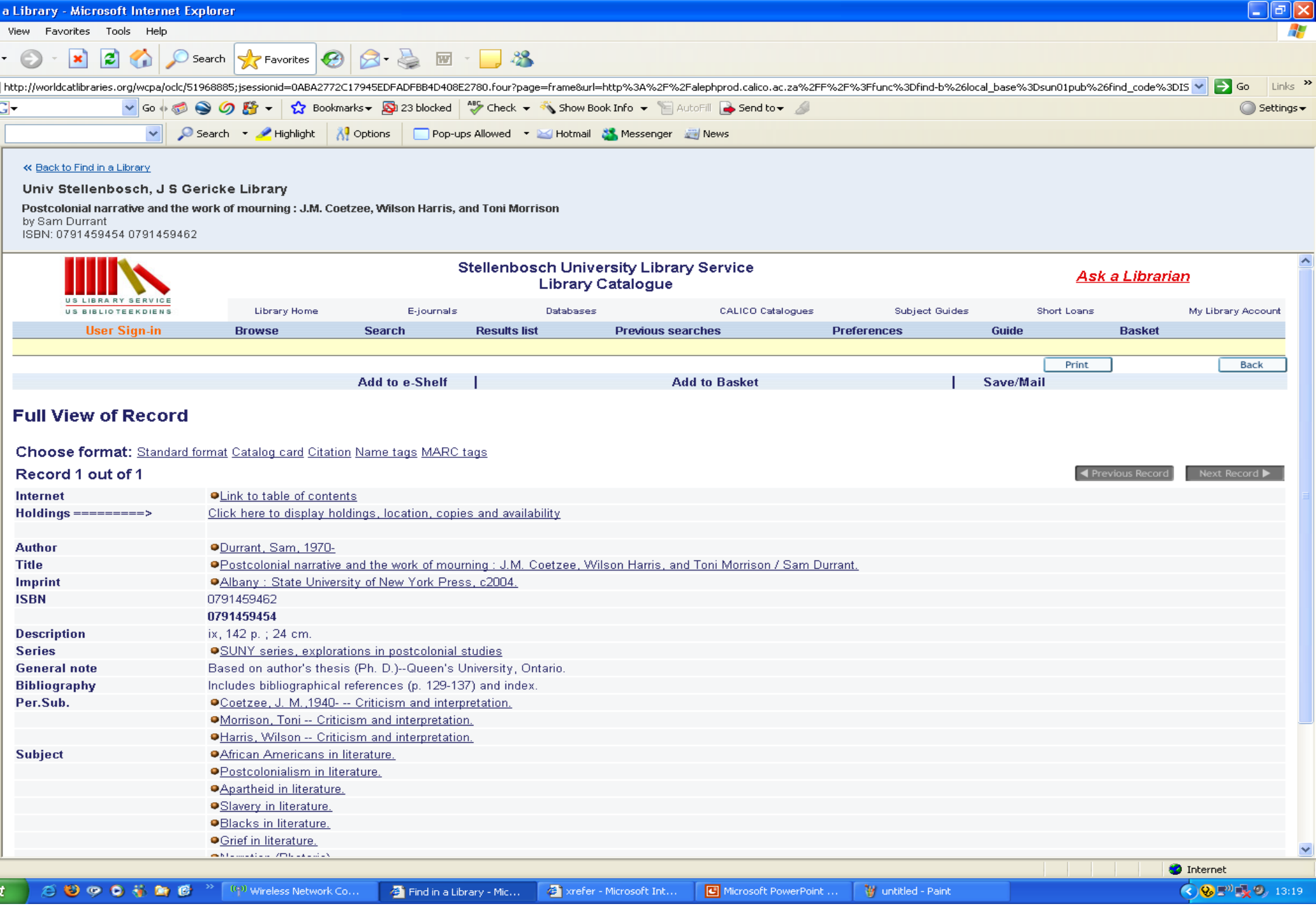
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by University of Glasgow. Library - 1845

The **pocket French grammatical and critical dictionary**. 12mo. Edin. 1830.

Susan Hopley ; or, the adventures of a maid-servant. 8vo. Edin. 1842. ...

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by Joseph Turnley - 1850 - 788 pages

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## PREFACE.

3

multifarious meanings of *on*, *en*, *y*, and *que*, to which the Author thinks himself justified in laying peculiar claims, would occupy too much space here.

But among the general heads, the one entitled *Popular Errors*, the other, *Peculiarities*, should not be passed over in silence, because these two essential features of the Dictionary, in which are described the niceties, difficulties, and periclitations attending the composition of the French language, form two prominent points, which, like beacons, will be found to possess the combined power of pointing out dangers, and the way how they may be avoided.

The different French authorities which have been consulted, and from which materials have been drawn, are, *Le Dictionnaire de l'Académie Française*; *Les Remarques sur la Langue Française*, by Vaugelas; *Le Nouveau Dictionnaire Grammatical*, by Chapsal; *Le Dictionnaire des Difficultés*, by Lavaux; an Abridgement of the latter by Boiste; *Les Synonymes*, by Girard; *Les Homonymes*, by Philipon de la Madelaine; *La Grammaire des Grammaires*; *Les Annales de la Société Grammaticale de Paris*; lastly, *Le Dictionnaire des Locutions Vicieuses*, from the preface of which the following paragraph is quoted, that the reader may understand one of the principal objects the Author has had in view in the present work :—

“ C'est avec peu de fondement que l'on dirait contre l'utilité d'un pareil livre, que nous avons d'excellentes Grammaires et le Dictionnaire de l'Académie qui doivent

## The pocket French grammatical and critical dictionary

By Gabriel Surenne



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16

THE FRENCH

*J'ai été en Italie pour\* voir  
les antiquités Romaines.*

I have been in Italy—to  
see the Roman antiqui-  
ties.

*Il faut beaucoup d'argent  
pour\* voyager agréable-  
ment.*

It requires much money—  
to travel comfortably.

*La politesse est essentielle  
pour\* plaire aux Dames.*

Politeness is essential—to  
please the Ladies.

*Il prit son épée pour\* se tuer,  
mais on l'en empêcha à  
temps.*

He took his sword—to kill  
himself, but he was pre-  
vented in time.

*Il faut lire beaucoup et avec  
fruit pour\* devenir au-  
teur.*

Reading much and to ad-  
vantage is necessary—to  
become an author.

*Les Français et les Anglais  
devraient faire tout leur  
possible pour\* maintenir  
la paix en Europe.*

The French and the Eng-  
lish ought to do every  
thing possible—to main-  
tain peace in Europe.

See *Pour*.

**ABSTRAIT, DISTRAIT.—ABSORBED, ABSENT.**  
Do not use the one for the other, as learners of French do ;  
the former means a total absence of mind ; the latter sig-  
nifies the taking of one object for another ; say, therefore,  
*Il a l'esprit distrait,\** for, he is absent.

# The pocket French grammatical and critical dictionary

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Page 16

Accent circonflexe (\*) **circumflex** accent. ...

[Page 17](#)

The same care ought to be taken in putting the  
**circumflex** accent upon *acre*, ...

[Page 176](#)

... yours ; require the **circumflex** accent to be  
placed on the *o*, as above. ...

[Page 210](#)

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# Google Library project

- Mass digitization of material from library partners (the “Google Five”), including out-of-print material:
  - ❑ Michigan (entire collection)
  - ❑ Stanford (most?)
  - ❑ Harvard (out of copyright works)
  - ❑ Oxford (19<sup>th</sup> century collection – out of copyright)
  - ❑ New York Public (pilot)
- Now also:
  - ❑ University of California, Universidad Complutense de Madrid, University of Wisconsin - Madison

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# Google Library Project – dispelling some myths

- 56% of works are held uniquely by one of the Google Five libraries
- 50% of the holdings of the five libraries are in a language other than English
- 430 different languages represented

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# Google News Archive

- Launched in September 2006
- Archival news aggregation
- Free content (such as BBC News, Time Magazine and Guardian) plus content that requires a fee (such as Washington Post Archives, Newspaper Archive, and New York Times Archives)
- Anurag Acharya (Google Scholar) is the lead developer



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Subscription - The Independent - HighBeam Research - Jan 7, 2005

FORMER SOUTH African President **Nelson Mandela** revealed yesterday that his son ... "His [**Nelson Mandela's**] courage shows his commitment to the fight against ...[Mandela says his son died of AIDS](#) - International Herald... - HighBeam Research (Subscription)[Mandela, Anti-AIDS Crusader, Says Son Died of...](#) - New York Times (\$4.95)[San Francisco Chronicle](#) - [International Herald...](#) - [All 53 related](#) - [Related web pages](#)[Key Witness Backs Madikizela-Mandela; Truth Panel Testimony by ...](#)

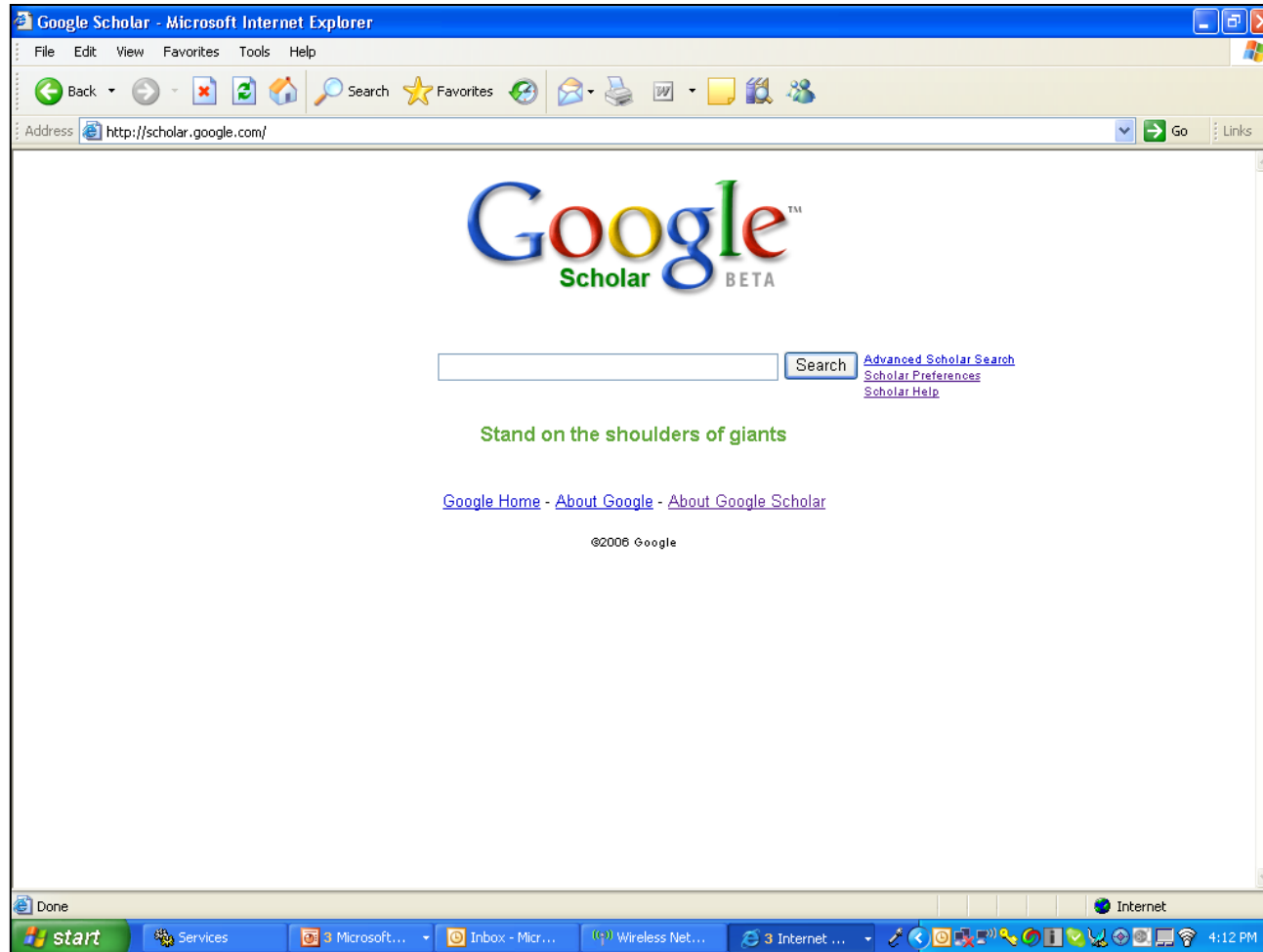
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Sisulu and Madikizela-**Mandela** had much in common: Like **Nelson Mandela**, Walter Sisulu, husband to Albertina, had been a political prisoner for decades. ...[MADIKIZELA-MANDELA DENIES ACCUSATIONS St. Louis...](#) - St. Louis Post-Dispatch - NewsBank (\$2.95)[Madikizela-Mandela calls accusations 'ludicrous...](#) - CNN[Kansas City Star](#) - [St. Louis Post-Dispatch](#) - [All 84 related](#) - [Related web pages](#)[South African Judge Gives Nelson Mandela a Divorce](#)

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# Google Scholar



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# Google Scholar

- First introduced in November 2004
- Goal: “best possible scholarly search”
  - Scholarly literature = peer-reviewed papers, theses, books, preprints, abstracts and technical reports
- Single place to find scholarly material
  - “All research areas, all sources, all times”
- Features: fast, fun, familiar; has relevance ranking, citations, links to libraries



avian influenza

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where my words occur

avian influenza

10 results

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### Publication

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e.g., J Biol Chem or Nature

### Date

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e.g., 1996

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Human influenza:

EC Claas, AD Oster

... Comment in: Lan

A H5N1 virus related

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Character

K Subbarao

... Character

a Fatal Respiratory I

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... 1998 Feb 14;351(

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TH Tran, TL Nguyen

... Selected Literatur

Title: Avian influen

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M Koopmans, B Wil

... 582-3. Click here

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A H5N1 virus related to a highly pathogenic **avian influenza** virus. ...  
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### How are articles ranked?

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M Koopmans, B Wilbrink, M Conyn, G Matrop, H van ... - Lancet, 2004 - ncbi.nlm.nih.gov  
... 582-3. Click here to read Transmission of H7N7 **avian influenza** A virus to human  
beings during a large outbreak in commercial poultry farms in the Netherlands.



avian infl

## Scholar

[Human influenza A H5N1 virus](#)  
EC Claas, AD Osterhaus, R van Bee  
... Comment in: Lancet. 1998 Feb 14  
A H5N1 virus related to a highly path  
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... Characterization of an Avian Infl  
a Fatal Respiratory Illness. ... **Avian**  
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diagnosis of human disease associat  
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**Title:** Human influenza A H5N1 virus related to a highly pathogenic avian influenza virus.

**Authors:** Claas, E.C.J.  
Osterhaus, A.D.M.E.  
Van Beek, R.  
De Jong, J.C.  
Rimmelzwaan, G.F.  
Senne, D.A.  
Krauss, S.  
Shortridge, K.F.  
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avian influenza

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Title: Avian influenza A (H5N1) in 10 patients in Vietnam. ...

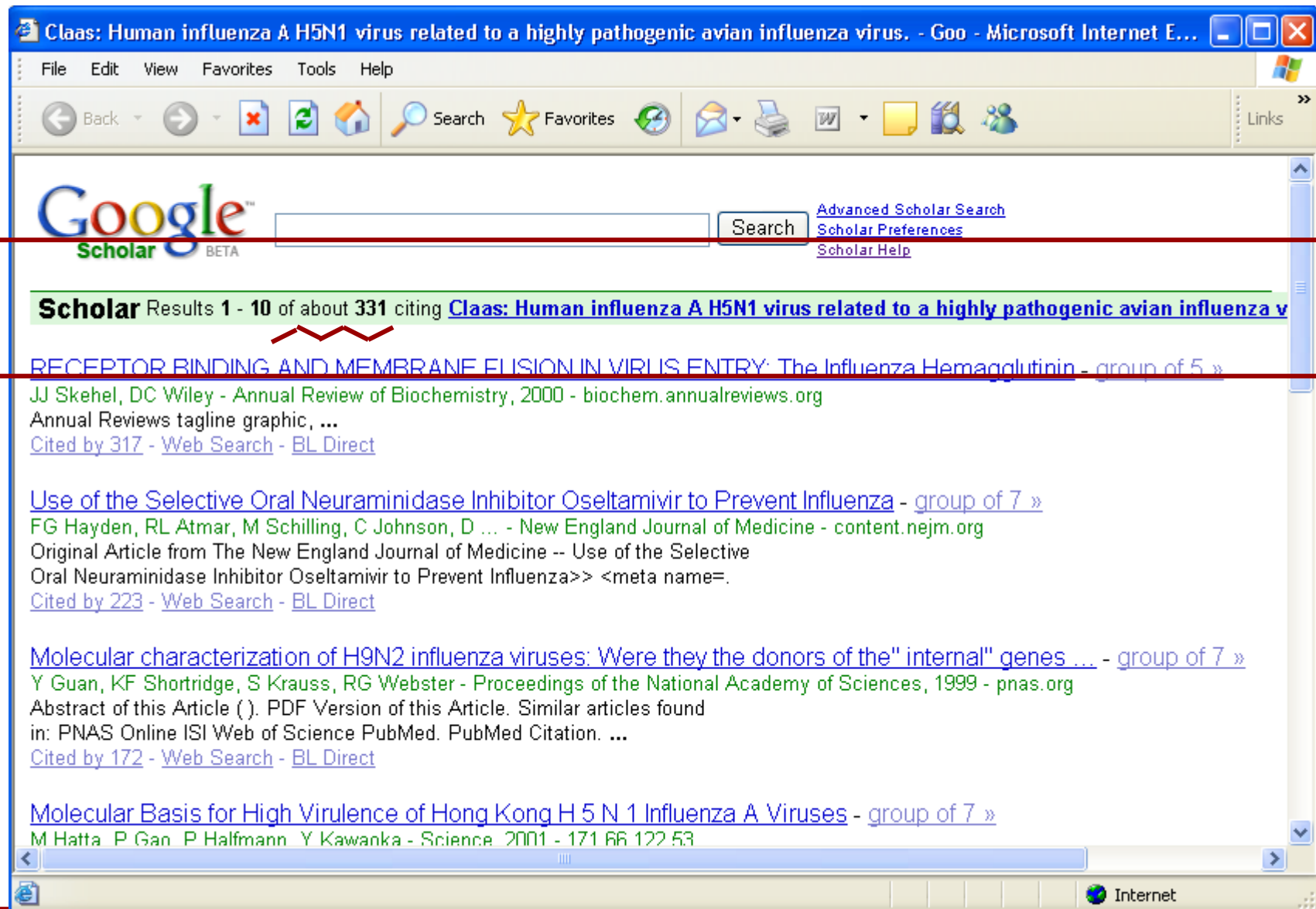
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TY Fan - Quantum Electronics, IEEE Journal of, 1992 - [ieeexplore.ieee.org](#)

... Pulse repetition rate limitations due to **stress fracture** are investigated; it is found that the maximum repetition rate is proportional to doping concentra ...

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RH Bell, RJ Hawkins - Clin Orthop, 1986 - [ncbi.nlm.nih.gov](#)

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D Broek - 1981 - [books.google.com](#)

... **fracture**. The occurrence of low **stress fracture** in high strength materials induced the development of **Fracture Mechanics**. Engineering ...

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[Another sports fatigue fracture. Stress fracture of the coracoid process of the scapula](#) - [group of 2](#) »

AR Sandrock - Radiology - [radiology.rsna.org](#)

... **Stress fracture** of the coracoid process of the scapula. ... An example of **stress fracture** of the coracoid process of the scapula in a transplant is presented

# Agenda

- Google in the scholarly domain
- Google Scholar and Library links
- What does it mean - a threat or an opportunity?

---

# Google Scholar – beyond search?

- “Only librarians like to **search**, everyone else likes to **find**” (Roy Tennant)
- .. But, finding is mainly about accessing the item (article, book, image) and not just viewing a citation...
- Google Scholar’s “default” access is not always appropriate

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[Avian influenza A virus \(H7N7\) associated with human conjunctivitis and a fatal case of acute ... - group of 12 »](#)

RAM Fouchier, PM Schneeberger, FW Rozendaal, JM ... - Proceedings of the National Academy of Sciences, 2004 - [pnas.org](#)  
... MICROBIOLOGY **Avian influenza A virus (H7N7) associated with human conjunctivitis and a fatal case of acute respiratory distress syndrome** ...  
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[Avian H5N1 Influenza in Cats - group of 7 »](#)

T Kuiken, G Rimmelzwaan, D van Riel, G van ... - Science, 2004 - [sciencemag.org](#)  
... **Avian H5N1 Influenza in Cats.** ... **Avian Influenza** -- A Challenge to Global Health Structures. N Engl J Med 351: 2363-2365 [Full Text]; (2004). ...  
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[CITATION] Probable Person-to-Person Transmission of **Avian Influenza A(H5N1)** - [group of 8 »](#)

K Ungchusak, P Auewarakul, SF Dowell, R Kitphati, ... - New England Journal of Medicine, 2005  
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Vol. 306, no. 5694, p. 241

DOI: 10.1126/science.1102287

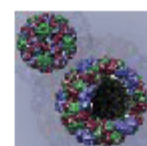
[Prev](#) | [Table of Contents](#) | [Next](#) >**BREVIA****Avian H5N1 Influenza in Cats****Thijs Kuiken,\* Guus Rimmelzwaan, Debby van Riel, Geert van Amerongen, Marianne Baars, Ron Fouchier, Albert Osterhaus**

During the 2003 to 2004 outbreak of avian influenza A (H5N1) virus in Asia, there were anecdotal reports of fatal infection in domestic cats, although this species is considered resistant to influenza. We experimentally inoculated cats with H5N1 virus intratracheally and by feeding them virus-infected chickens. The cats excreted virus, developed severe diffuse alveolar damage, and transmitted virus to sentinel cats. These results show that domestic cats are at risk of disease or death from H5N1 virus, can be infected by horizontal transmission, and may play a role in the epidemiology of this virus.

Department of Virology, Erasmus Medical Center, 3015 GE Rotterdam, Netherlands.

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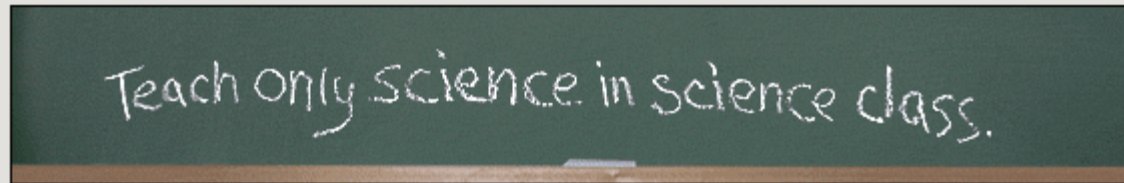
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diagnosis of human disease associated with **avian influenza** A H5N1 virus. ...

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[Avian-to-human transmission of H9N2 subtype \*\*influenza\*\* A viruses: Relationship between H9N2 and H5N1 ...](#)

YP Lin, M Shaw, V Gregory, K Cameron, W Lim, A ... - J. Virol, 2005 - [dx.doi.org](#)

... Katz Isolation and Characterization of **Avian Influenza** Viruses, Including Highly

Pathogenic H5N1, from Poultry in Live Bird Markets in Hanoi, Vietnam, in 2001 J ...

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[A review of \*\*avian influenza\*\* in different bird species](#)

DJ Alexander - Vet. Microbiol, 2000 - [ingentaconnect.com](#)

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AS Beare, RG Webster - Archives of Virology, 1991 - [ncbi.nlm.nih.gov](#)

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the pelvis showing a **stress fracture** of the ri  
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... This bivariate model correctly assigned 80  
respective **stress fracture** or nonstress frac  
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... Australia. OBJECTIVE. To review the cases of **stress fracture** seen over  
a 2-year period at a sports medicine clinic. DESIGN. One ...

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fracture in athletes. Eighty-six cases, proven with computerized tomography.

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# Google Scholar – 2006 developments

- Links with reference tool of choice
- Significant increase in non-English language material
  - Portuguese, Spanish, Simplified and Traditional Chinese, German & French
- 15 national/regional union catalogs
  - Hungary, Iceland, Israel, Portugal, Sweden, western Switzerland, Australia, Czechoslovakia, Denmark, China, Slovenia, Taiwan...

---

# Google Scholar and link resolvers

- OpenURLs are not perfect (but getting better...)
- Holdings:
  - ❑ Libraries need to provide a holdings file (based on a match on holdings – Google presents a different link)
  - ❑ Holdings summary only (no specific provider and/or date threshold)

---

# Google Scholar and OpenURL

- There are issues, but let's not forget:
  - ❑ Major non-library vendor adopts a library standard (this is really good!)
  - ❑ Google worked with libraries and Link Resolver vendors
  - ❑ With OpenURL, Google accepted 2 new policies:
    - Linking to URLs that are not crawled
    - Enables institutional branding (e.g. SFX@UCL)

---

# Google Scholar Library Links

- As of October 2006: 850+ link resolvers registered
  - ❑ US, UK, Germany, Israel, Turkey, Canada, China, Denmark, Japan, Czech Republic, Belgium Australia, Netherlands, Spain, Korea, Italy, Ireland Finland, Sweden, Slovakia, South Africa, Switzerland, France Norway, Mexico....
- Usage seems to be picking up..
- It's also about education (and some marketing...):
  - ❑ Information on web site; tutorials; library classes (incl. differences, etc)



# Search Engines and Useful Links

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## Search Engines

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A British-based multi-disciplinary catalog covering all academic subjects

### Google

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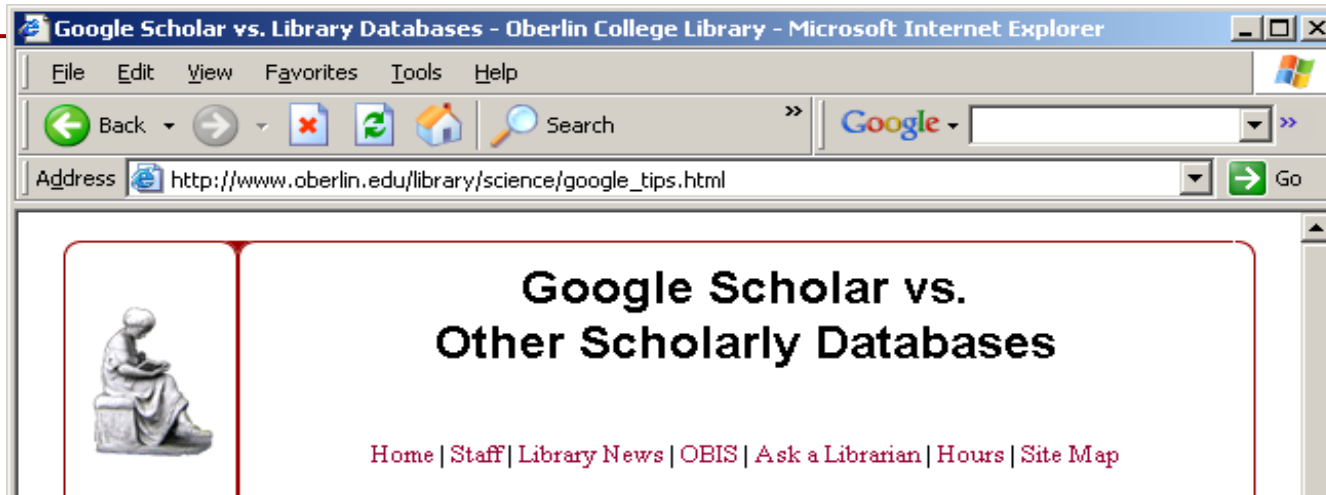
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Google Scholar is fast, easy to use, and can lead to hundreds of relevant, scholarly articles within seconds. But there are dozens of other databases that may be more relevant and comprehensive for your research topic. Consider these factor when searching Google Scholar:

#### Access \$\$\$

Links for thousands of articles indexed in Google Scholar go to publishers' Web sites, where access requires a subscriber's login or an access fee (\$30-45).

#### The Library already paid!

Many of these same articles are available to you without additional fee, since the library pays the subscription. Our payments to OhioLINK give access **at the OhioLINK EJC**, but may not extend to accessing the *very same* article at the publisher's Web site.

#### Get quick access with no extra charge.

Look for **Find it with OLinks** or **OhioLINK OLinks** in the Google Scholar search results. OLinks provides access to full-text online for Oberlin subscriptions, plus a link to our **catalog** and **interlibrary loan** information.

#### Other databases also include full-text and may be more relevant for your topic.

Other articles indexed in Google Scholar may be accessible through **Academic Search Premier** or **Lexis Nexis**. Another incredibly rich archive, **JSTOR**, is excluded from Google Scholar, as are millions of articles only found by searching comprehensive subject indexes such as **SciFinder Scholar**, **Biological Abstracts**, **GeoRef**, and **Inspec**, among others.

#### Improve your search strategies

---

# Google Scholar – some of the good

- Google branding, familiar and easy to use, ..
- Single place for “everything”:
  - “all research areas, all sources, all time”
- Covers broad, heterogeneous range of sources, (but...)
- Important features: Quick, relevance ranking, citation search (but...)
- Links to your library!

# Google Scholar – some of the issues

## ■ Scope:

- What is covered? What is not? (Elsevier and ACS are not...)
- Coverage is often partial (pub time periods; most recent not always there)

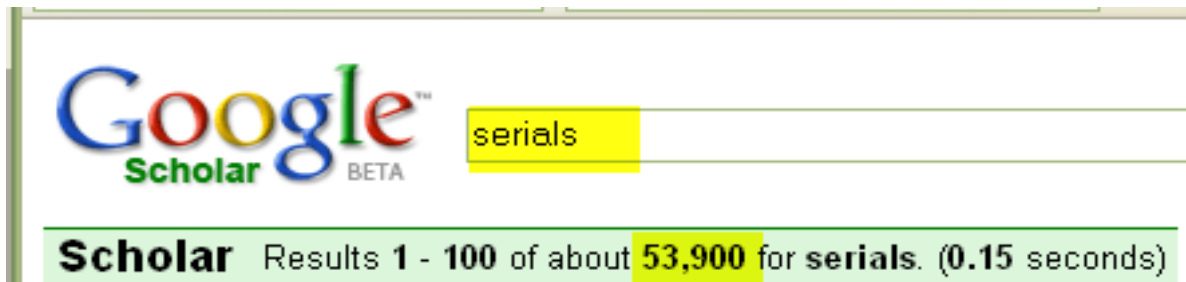
## ■ Is *not* Context Sensitive:

- No distinction between licensed & unlicensed resources
- Different types of users (researchers, under grads, grads,...) with different types of needs (research paper, course assignment,...)

## ■ Features:

- Relevance Ranking: some issues of accuracy; what about new works?; is not user/discipline sensitive; how does it work?!?
- No sort options (e.g. recent work first)

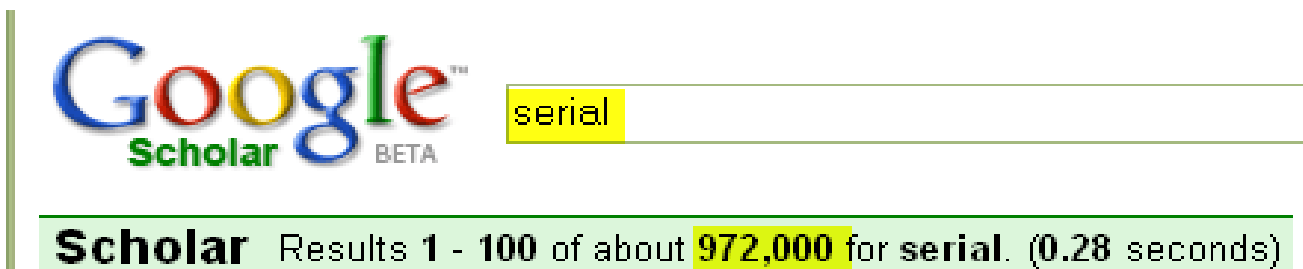
# Innumeracy: Basic Boolean Blunder



Google Scholar BETA

serials

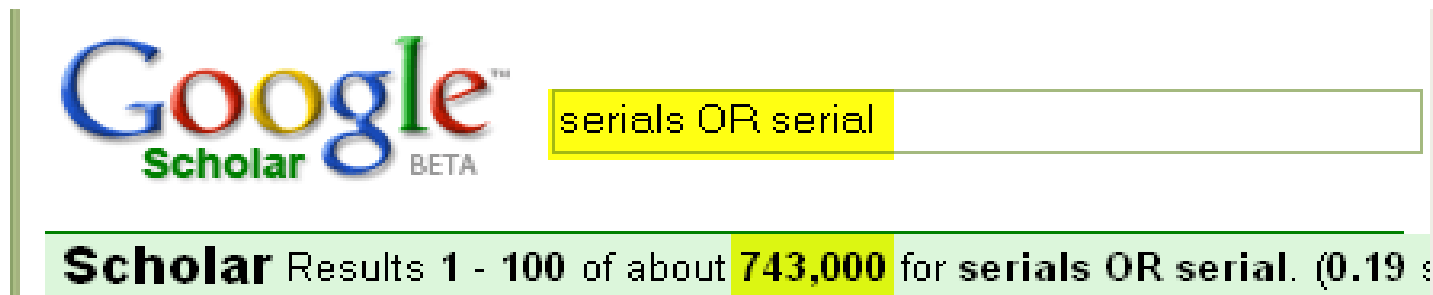
**Scholar** Results 1 - 100 of about 53,900 for serials. (0.15 seconds)



Google Scholar BETA

serial

**Scholar** Results 1 - 100 of about 972,000 for serial. (0.28 seconds)



Google Scholar BETA

serials OR serial

**Scholar** Results 1 - 100 of about 743,000 for serials OR serial. (0.19 seconds)

# Illiteracy and/or innumeracy?



The image is a screenshot of a Google Scholar search interface. The search bar contains the word "semiconductors". To the right of the search bar, there is a date filter set to "2006 - 2006", which is highlighted by a red rectangular box. Below the search bar, the text "Scholar" is displayed on the left, and "Results 1 - 2 of 2 for semiconductors." is displayed on the right. The first search result is titled "Far-infrared time-domain spectroscopy with terahertz beams of dielectrics and **semiconductors**". The authors listed are "D Grischkowsky, S Keiding, M van Exter, C ...". The publication information is "- JOSA B, 2006 - josabdev.osa.org". Below the title and authors, there is a snippet of the abstract: "... Far-infrared time-domain spectroscopy with terahertz beams of dielectrics and **semiconductors**. D. Grischkowsky, Soren Keiding, Martin van Exter, Ch. Fattinger. ...". At the bottom of the snippet, there are links: "Cited by 98 - Web Search - josab.osa.org - adsabs.harvard.edu".

Google Scholar BETA

semiconductors

2006 - 2006

Scholar

Results 1 - 2 of 2 for semiconductors.

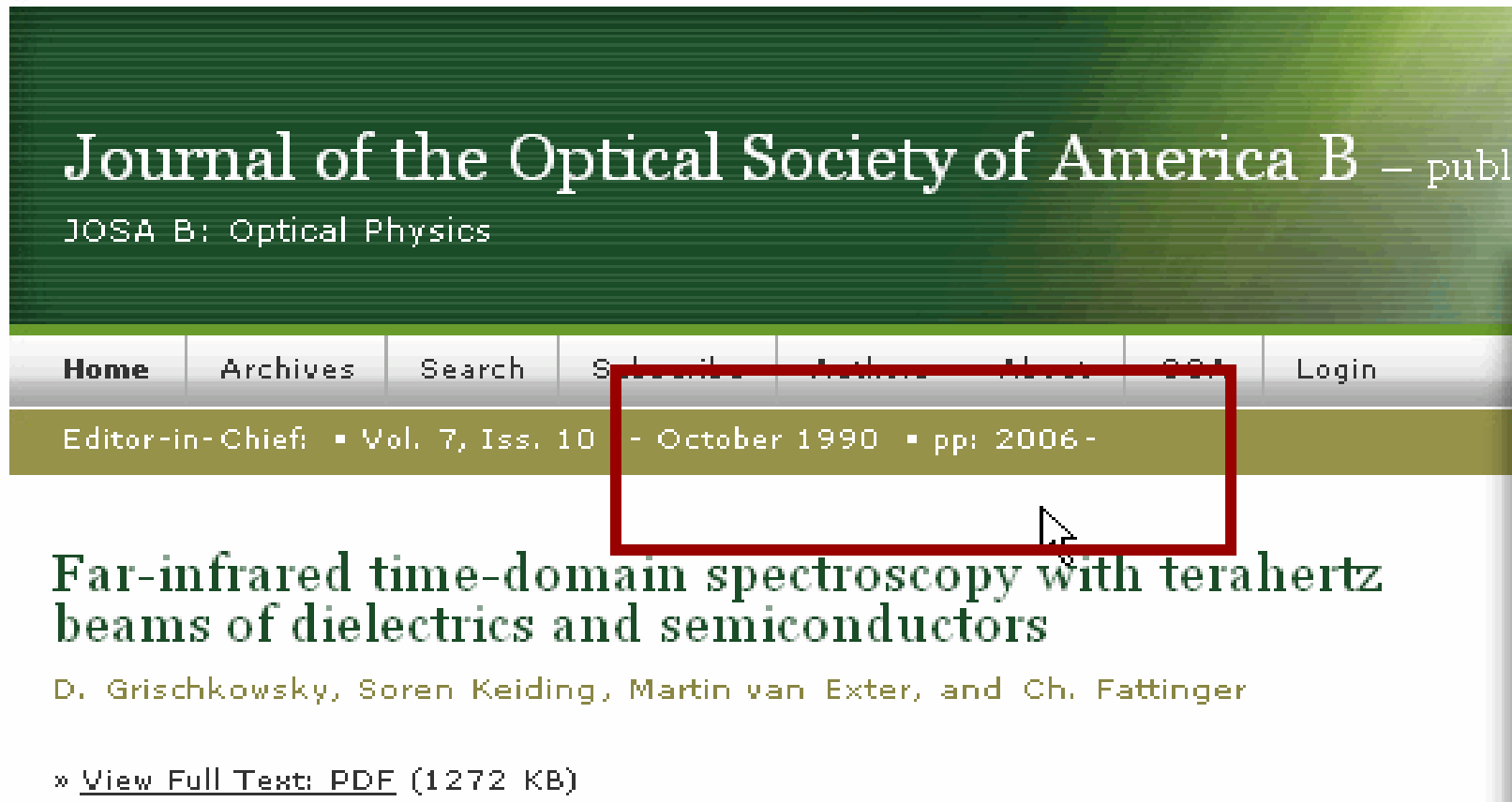
Far-infrared time-domain spectroscopy with terahertz beams of dielectrics and **semiconductors**

D Grischkowsky, S Keiding, M van Exter, C ... - JOSA B, 2006 - josabdev.osa.org

... Far-infrared time-domain spectroscopy with terahertz beams of dielectrics and **semiconductors**. D. Grischkowsky, Soren Keiding, Martin van Exter, Ch. Fattinger. ...

Cited by 98 - Web Search - josab.osa.org - adsabs.harvard.edu

# Illiteracy and/or innumeracy



The screenshot shows the homepage of the Journal of the Optical Society of America B. The header is green with white text. Below the header is a navigation bar with links: Home, Archives, Search, Subscribe, Authors, Alerts, and Login. A red box highlights the 'Subscribe' link, which is broken. Below the navigation bar, the text 'Editor-in-Chief: ■ Vol. 7, Iss. 10 ■ - October 1990 ■ pp: 2006 -' is displayed. The main content area features the title 'Far-infrared time-domain spectroscopy with terahertz beams of dielectrics and semiconductors' by D. Grischkowsky, Soren Keiding, Martin van Exter, and Ch. Fattinger. A link to 'View Full Text: PDF (1272 KB)' is provided.

Journal of the Optical Society of America B – published online

JOSA B: Optical Physics

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Editor-in-Chief: ■ Vol. 7, Iss. 10 ■ - October 1990 ■ pp: 2006 -

Far-infrared time-domain spectroscopy with terahertz beams of dielectrics and semiconductors

D. Grischkowsky, Soren Keiding, Martin van Exter, and Ch. Fattinger

» [View Full Text: PDF \(1272 KB\)](#)

# Peter Jacso: side-by-side comparison

<http://www2.hawaii.edu/~jacso/>

Peter Jacso      side-by-side2      Native Search Engines vs Google Scholar      (updated:10/22/05)

This PolySearch engine shows side by side what results are retrieved by the special Google Scholar search engine versus the native search software from the archives of some publishers which let in the crawlers of Google Scholar as a special privilege for unfettered binge crawling.

Check 2 or 4 boxes **in the same row** to search the full text or the title field of the **same archive** using the native engine of the publisher's archive and the Google Scholar search engine (restricted in my script to the publisher's domain).

Type in a simple query like *dark matter* in the query cell. **Don't use any search operators, truncation symbol, except for the double quotes** for exact phrase searching, like "*dark matter*". The result pages of the target archives will be displayed side by side in small panes. Some native search engines automatically pluralize and/or singularize the query terms, Google Scholar does not do that. Consider this when comparing the hits. See [some test results](#).

You may navigate in the target sites by right clicking the mouse. See some test search results and commentary in the detailed review of the updated Google Scholar in the June, 2005 issue of [Peter's Digital Reference Shelf](#).  
**Enjoy.**

Microsoft Internet Explorer

## ----- Full Text Search -----

### ---- Native Engine -----

- ☐ Annual Reviews
- ☐ Blackwell
- ☐ Institute of Physics
- ☐ Nature Publ. Group
- ☐ Wiley Interscience

### ---- Google Scholar --

- ☐ Annual Reviews
- ☐ Blackwell
- ☐ Institute of Physics
- ☐ Nature Publ. Group
- ☐ Wiley Interscience

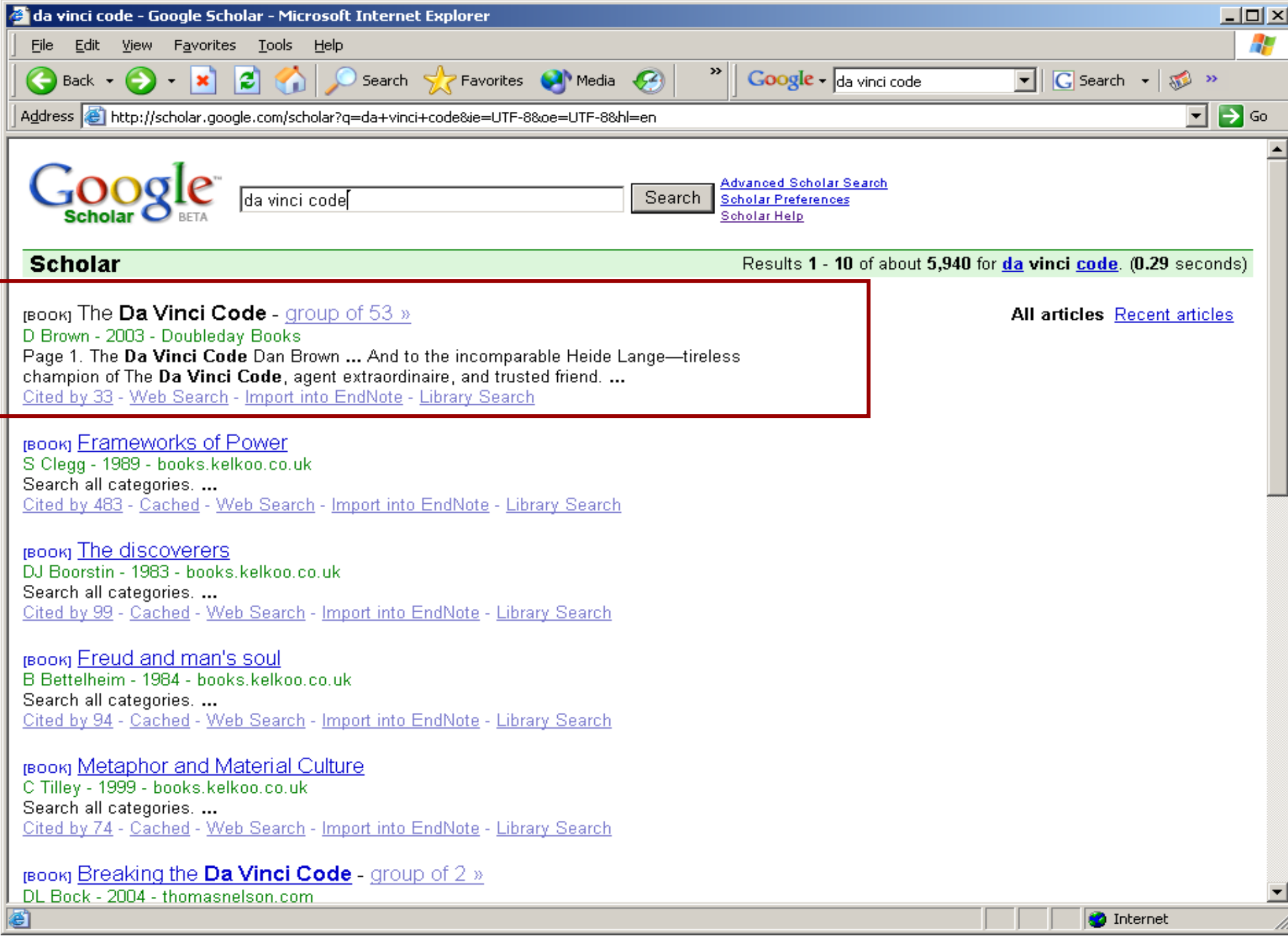
## ----- Title-only Search -----

### ---- Native Engine -----

- ☐ Annual Reviews
- ☐ Blackwell
- ☐ Institute of Physics
- ☐ Nature Publ. Group
- ☐ Wiley Interscience

### --- Google Scholar --

- ☐ Annual Reviews
- ☐ Blackwell
- ☐ Institute of Physics
- ☐ Nature Publ. Group
- ☐ Wiley Interscience





Abstract/title Search Phys. Rev. Lett. Volume: Page/Article: Retrieve

## APS Journal Search Results

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[Back to search form](#) [Next 25 results](#)

[ [1-25](#) | [26-50](#) | [51-75](#) | [76-100](#) | [101-125](#) | [126-150](#) | [151-175](#) | [176-200](#) | [201-...](#) | [276-300](#) ]

### Expand/Refine Search:

AND Abstract/Title: MATCHES Refine Search

Showing results 1 through 25 (of 300 total) for  
title:"quantum hall effect"

Results marked with a red dot are located outside of PROLA and may require a separate subscription for full access.

- 1. [Edge and surface states in the quantum Hall effect in graphene](#)

A. H. Castro Neto, F. Guinea, and N. M. R. Peres

Phys. Rev. B **73**, 205408 (2006)

- 2. [Griffiths phase in the thermal quantum Hall effect](#)



ISI Web of Knowledge [v3.0] - Microsoft Internet Explorer

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WELCOME

HELP

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ADVANCED SEARCH

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Record 1 of 1

Title: SINGULARITIES IN THE FERMI-LIQUID DESCRIPTION OF A PARTIALLY FILLED LANDAU-LEVEL AND THE ENERGY GAPS OF FRACTIONAL QUANTUM HALL STATES

Author(s): STERN A, HALPERIN BI

Source: PHYSICAL REVIEW B 52 (8): 5890-5906 AUG 15 1995

Document Type: Article

Language: English

Cited References: 42 Times Cited: 70

FIND RELATED RECORDS

**Abstract:** We consider a two-dimensional electron system in an external magnetic field at and near an even denominator Landau level filling fraction. Using a fermionic Chern-Simons approach, we study the description of the system's low energy excitations within an extension of Landau's Fermi-liquid theory. We calculate perturbatively the effective mass and the quasiparticle interaction function characterizing this description. We find that at an even denominator filling fraction the fermion's effective mass diverges logarithmically at the Fermi level, and argue that this divergence allows for an exact calculation of the energy gaps of the fractional quantized Hall states asymptotically approaching these filling fractions. We find that the quasiparticle interaction function approaches a delta function. This singular behavior leads to a cancellation of the diverging effective mass from the long-wavelength low-frequency linear response functions at even denominator filling fractions.

**KeyWords Plus:** HIGH-TC SUPERCONDUCTORS; GAUGE-THEORIES; METALS; HEAT

**Addresses:** STERN A (reprint author), HARVARD UNIV, DEPT PHYS, CAMBRIDGE, MA 02138 USA

**Publisher:** AMERICAN PHYSICAL SOC, ONE PHYSICS ELLIPSE, COLLEGE PK, MD 20740-3844 USA

**Subject Category:** PHYSICS, CONDENSED MATTER

**IDS Number:** RR288

**ISSN:** 0163-1829

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Advanced Scholar Search  
Scholar Preferences  
Scholar Help

**Scholar** Results 1 - 10 of about 13 for **quantum hall effect ady stern singularities**. (0.12 seconds)

**Singularities** in the Fermi-liquid description of a partially filled Landau level and the energy gaps ... - group of 6 » All articles Recent articles

A Stern, BI Halperin - Physical Review B, 1995 - APS  
... We can therefore approximate **SINGULARITIES** IN THE FERMIL-LIQUID ... 1 In 2P I (40) **ADY STERN** AND BERTRAND I ... the fact that the fractional **quantum Hall effect** has only ...

Cited by 1 Web Search - Import into EndNote

**Quantum Hall** fluid of vortices in a two-dimensional array of Josephson junctions - group of 7 »

A Stern - Physical Review B, 1994 - APS  
... is a Fermi liq- uid, then the **quantum Hall effect** is observed ... the ground state to be the **quantum Hall** fluid of ... The precise fill- so 10 103 **ADY STERN** ing factor ...

Cited by 2 - Web Search - Import into EndNote - BL Direct

The Physical Significance of **Singularities** in the Chern-Simons Fermi Liquid Description of a ... - group of 2 »

A Stern, BI Halperin - Arxiv preprint cond-mat/9507049, 1995 - arxiv.org  
... **Ady Stern** and Bertrand I. Halperin ... the electronic system, they do have an **effect** on its ... the energy gap corresponding to a fractional **quantum Hall** state of ...

View as HTML - Web Search - Import into EndNote

... of Magneto-Acoustic Anomaly in Modulated **Quantum Hall** Systems Near  $\nu = 1/2$  **Hall** Systems Near  $\nu$  ... - group of 2 »

NA Zimbowskaya, JL Birman - Arxiv preprint cond-mat/9807044, 1998 - arxiv.org  
... which probes the dynamical response of the **quantum Hall** system ... modulation direction showed an unexpected **effect**. ...  $\gamma > 1$  to avoid **singularities** in the CF ...

View as HTML - Web Search - Import into EndNote

Half-filled Landau level as a Fermi liquid of dipolar quasiparticles - group of 4 »

A Stern, BI Halperin, F von Oppen, SH Simon - Physical Review B, 1999 - APS  
... employed within the context of the **quantum Hall** effects by ... Although this **effect** is an infrared divergence in the ... for a fractional quan-tized **Hall** state, with an ...

Web Search - Import into EndNote - BL Direct

de Filología Inglesa, Facultad de Letras, Universidad ...

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[Los Angeles](#) - [group of 2](#) »

JA Riggle - 2004 - [hum.uchicago.edu](#)

Page 1. UNIVERSITY OF CALIFORNIA Los Angeles Generation, Recognition, and Learning in Finite State Optimality Theory A dissertation ...

[View as HTML](#) - [Web Search](#) - [Import into EndNote](#)

[Exemplar-based phonotactic learning](#)

I Phonotactics - [linguistics.ucla.edu](#)

Page 1. Roger Billerey-Mosier SWOT 2003 – April 25, 2003 Exemplar-based phonotactic learning Page 1 of 11 Page 1 of 11 Exemplar ...

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[The best of all possible words](#)

T MARK ELLISON, E KLEIN - [Journal of Linguistics](#), 2001 - [CambridgeUnivPress](#)

Page 1. J. Linguistics 37 (2001), 127–143. Printed in the United Kingdom #2001 Cambridge University Press REVIEW ARTICLE The best of all possible words ...

[Web Search](#) - [Import into EndNote](#)

[The Best of All Possible Words](#) - [group of 10](#) »

D Archangeli, DT Langendoen - [journals.cambridge.org](#)

Page 1. J. Linguistics 37 (2001), 127–143. Printed in the United Kingdom #2001 Cambridge University Press REVIEW ARTICLE The best of all possible words ...

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[16 Dissimilation in grammar and the lexicon](#)

JD Alderete, SA Frisch - [sfu.ca](#)

Page 1. 16 Dissimilation in grammar and the lexicon John D. Alderete Simon Fraser University Stefan A. Frisch University of South Florida 16.1 Introduction\* ...

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[Explaining Morphosyntactic Competition](#)

JG Flemming, D Hudson, K Lambrecht, A Carstairs- ... - [folli.uva.nl](#)

Page 1. Explaining Morphosyntactic Competition Joan Bresnan Revised January

Counting  
duplicates

---

# Google Scholar – some other issues

- Lack of library control:
  - ❑ Selection of sources
  - ❑ Branding
  - ❑ Integration with local systems, authentication, institutional portals, Course Management Systems (CMS),...
  - ❑ What is Google Scholar's business model? Will it stick around (still in beta test after nearly 3 years)?

---

# More on the differences

- Presentation by Roy Tennant, CDL: “Is MetaSearch Dead?”  
<http://escholarship.cdlib.org/rtennant/presentations/2005niso/2005>
- Tamar Sadeh, “Google Scholar Versus Metasearch Systems,” High Energy Physics Libraries Webzine, 2005.
- Many more (search in Google ☺)...

---

# So, what does it mean?

- OK – Google Scholar is not perfect...
  - Other products aren't either...
  - Important to differentiate between critical and desired and between inherent and temporary..
- But,... many of us think it is useful (enough) and are using it anyway



# Agenda

- Google in the scholarly domain
- Google Scholar and Library links
- What does it mean - a threat or an opportunity?

---

# Is this the end for library services?

- I think NOT...
- There is a place where Google and libraries meet

# Where Google and Libraries meet

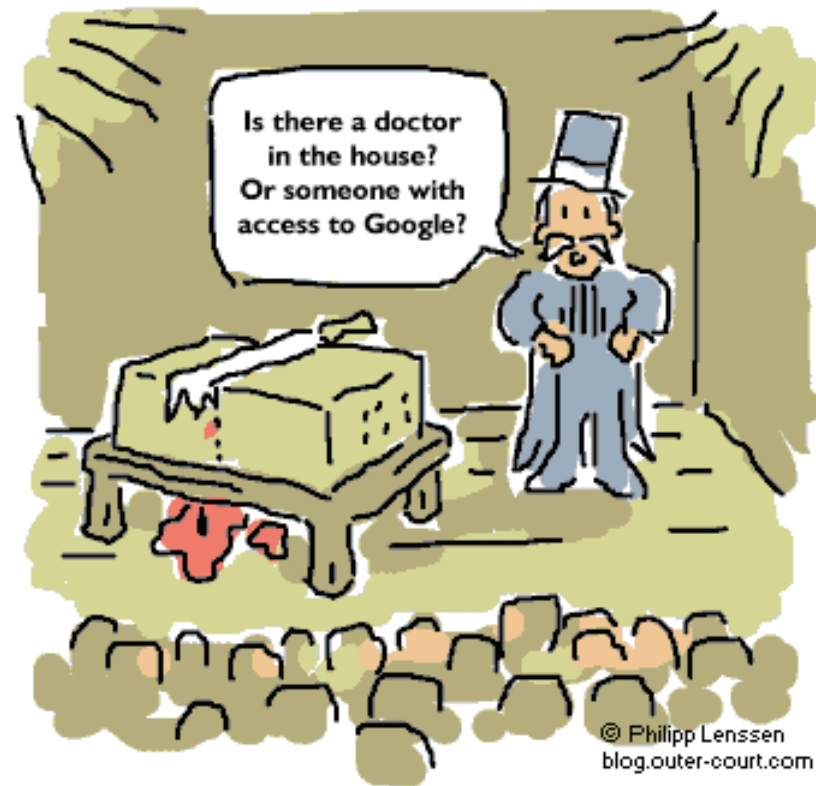
- It is not an either-or: there is a place and a role for both:
  1. Specialized (and controlled, branded, etc..) tools:  
ILS, MetaSearch, domain specific (PsycInfo, PubMed,...)
  2. Web-wide discovery tools (not controlled, generic,...):  
Google,...
- Google may have been the first but others eg MSN are following

# Where Google and Libraries meet

- At least 2 things that I believe we need to do:

- ☞ We need to ensure that *Google Scholar et al* integrate well and utilize what libraries have to offer (physical and digital collections, services, etc..)
  - GS/OpenURL
  - “publish” to Google
- ☞ Learn from Google: better understand the needs and expectations of our users .
  - Better discovery tools for users

# Thank you!



jenny.walker@xrefer.com