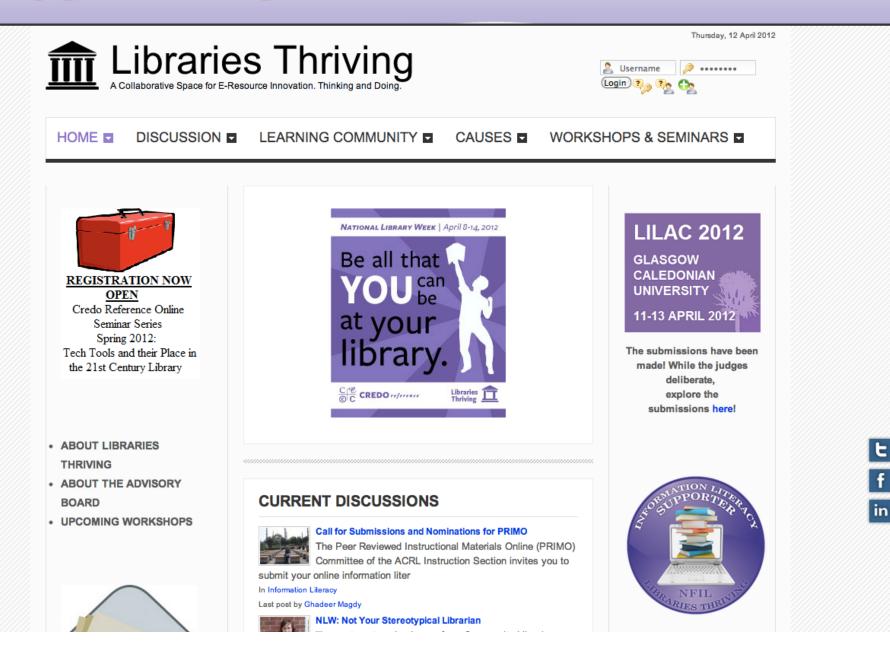
There's Nothing Wrong with Discovery Services that Can't Be Fixed by the Reference Layer

Mike Sweet

April 12, 2012

Opportunity – www.librariesthriving.org





- Known Item vs. Exploratory Searching
- Google and Wikipedia
- Discovery Systems
- The Reference Layer

NOT ALL SEARCHES ARE THE SAME

Lown tem Search Familiar with keywords or

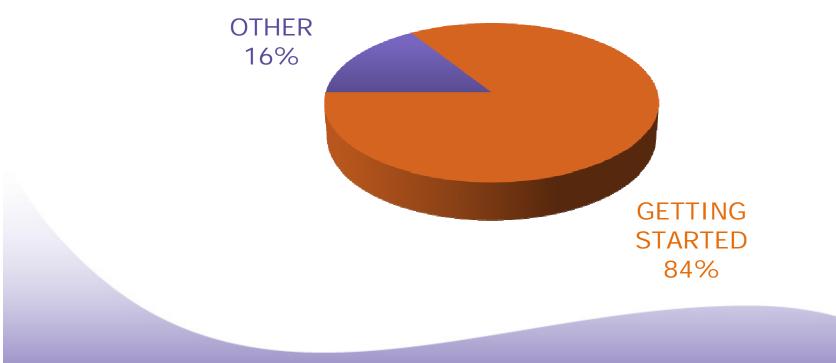
- Have specific information in mind (article, book, journal, etc.)
- Know where to start (website, • database, stacks)

Information need

- Exploratory Lack of subject orientation and familiarity with keywords
- Need guidance to start searching •
- Need general information •

THE PROBLEM

"For over three-fourths (84%) of the students surveyed, the most difficult step of the courserelated research process was getting started."



Truth Be Told: How College Students Evaluate and Use Information in the Digital Age, Alison J. Head and Michael B. Eisenberg, Project Information Literacy Progress Report, University of Washington's Information School, November 1, 2010 (72 pages, PDF, 602 KB).

SEARCHING ON THE OPEN WEB





KNOWN ITEM SEARCHING IN GOOGLE

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EXPLORATORY SEARCHING IN GOOGLE

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mike.sweet@credoreference.com -

Google

genomes

€ Q

About 12,200,000 results (0.15 seconds)

hereditary information. It is encoded either in DNA or, for many types of ...

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Videos	<u>Human genome</u> The human (Homo sapiens) genome	Human Genome Project The Human Genome Project (HGP)			
News	is stored on 23	an international scientific			
Shopping	More results from wikipedia.org »				
Books	Home - Genome - NCBI www.ncbi.nlm.nih.gov > NCBI > Genomes & Ma	ps			
More	A tool for scientists and researchers. Provides views for a variety of genomes , complete chromosomes, sequence maps with contigs, and integrated genetic and				
Natick, MA Change location		<u>Vhat Is a Genome</u> ww.ncbi.nlm.nih.gov/About/primer/genetics_genome.html 1ar 31, 2004 – Life is specified by genomes . Every organism, including humans, has a			
Any time		me that contains all of the biological information needed to build			

Genomes - NCBI Bookshelf

www.ncbi.nlm.nih.gov > NCBI > Literature

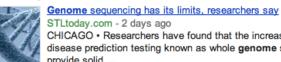
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News for genomes

STLtoday.com - 2 days ago CHICAGO . Researchers have found that the increasingly popular form of disease prediction testing known as whole genome sequencing fails to provide solid ...

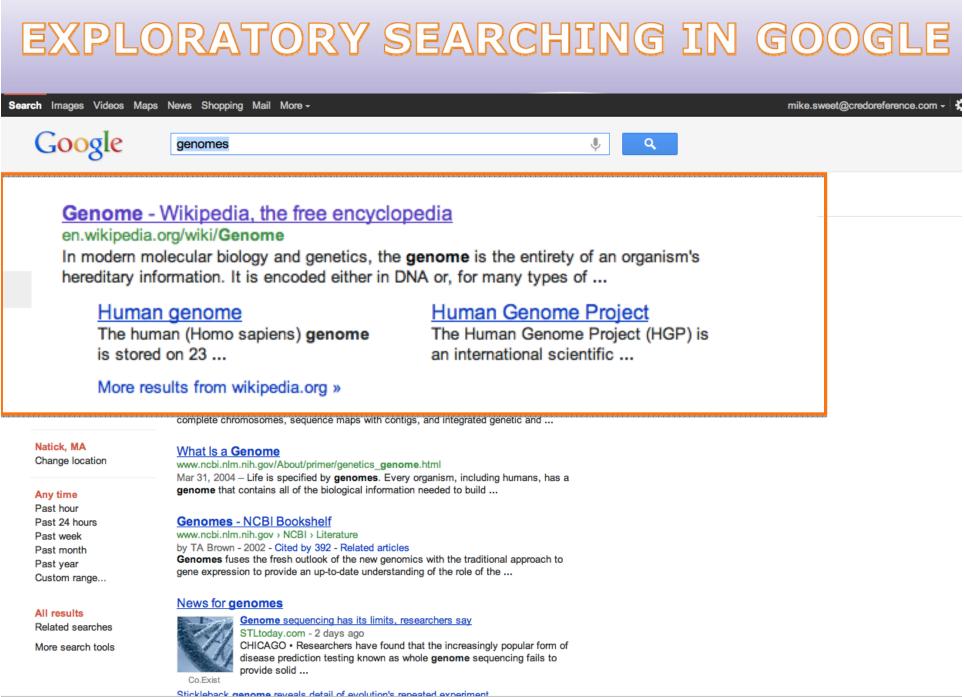
Genomes fuses the fresh outlook of the new genomics with the traditional approach to

gene expression to provide an up-to-date understanding of the role of the ...

Stickleback genome reveals detail of evolution's repeated experiment

Getting information off the Internet is like taking a drink from a fire hydrant.

Mitchell Kapor



WIKIPEDIA-What does Google know?

Advantages

- Provides background and vocabulary
- Comprehensive, consistent, easy to access and use
- Provides potentially useful links

WIKIPEDIA-What do we all know?

Limitations

- Not always trustworthy and consistent
- Not customized for audience
- Doesn't reinforce connection to library resources

Searching in Discovery Systems

KNOWN ITEM SEARCHING

Help About Feedback	
DARTMOUTH COLLEGE LIBRARY	
Easily discover the world of library content	
dna genome forterre Search	

KNOWN ITEM SEARCHING

	Help About Feedba				
DARTMOUTH COLLEGE LIBRARY	genome dna forterre				
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Search Results: Your search for	or genome dna forterre returned 1,289 results				
Refine your search	Relevance 📦 🚔				
Items with full text online					
Limit to articles from scholarly	Recommendation: We found one or more specialized collections that might help you.				
publications, including peer- review Exclude Newspaper Articles	 PubMed Central - PubMed Central (PMC) is the U.S. National Institutes of Health (NIH) free digital archive of biomedical and life sciences journal literature. 				
Items in the library catalog	 Medline - A bibliographic database of life sciences and biomedical information 				
Add results beyond your					
library's collection	The origin of DNA genomes and DNA replication proteins				
	by Forterre Patrick				
Content Type	Current Opinion in Microbiology, ISSN 1369-5274, 2002, Volume 5, Issue 5, pp. 525 - 532				
Journal Article (1,247)	to DNA genomes was more complex than previously thought. Several authors have suggested				
Dissertation/Thesis (25)	that DNA viruses, which often encode their own version of these proteins, played an important role in this process progenote, comparative genomics, DNA - genetics, DNA Replication - physiology,				
Book Chapter (12)	virus evolution				
Book / eBook (7)	Journal Article: Full Text Online				
Newsletter (5)					
Book Review (2)	What makes a virus a virus: reply from Raoult and Forterre				
more	by Forterre Patrick				
	Nature Reviews Microbiology, ISSN 1740-1526, 08/2008, Volume 6, Issue 8, p. 643				
Subject Terms	Journal Article: Full Text Online				
Any					
microbiology (364)	Three RNA Cells for Ribosomal Lineages and Three DNA Viruses to				
biochemistry & molecular	Replicate Their Genomes: A Hypothesis for the Origin of Cellular Domain				
biology (341)	by Forterre, Patrick				
evolution (233)	Proceedings of the National Academy of Sciences of the United States of America, ISSN 0027-				
dna (209)	8424, 03/2006, Volume 103, Issue 10, pp. 3669 - 3674				
escherichia-coli (207)	Recently, it was suggested that the transition from RNA to DNA genomes occurred in the viral world, and that cellular DNA and its replication machineries originated via transfers from DNA				
bacteria (205)	viruses to RNA cells Bacteria - metabolism, Archaea - genetics, Plasmids - genetics, DNA -				
more	genetics, DNA Viruses - genetics				
	Journal Article: Full Text Online				
Publication Date					

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	Chung Ko, Rebecca Hoyte, Charles A. Bo Molly S. Grace, Thu Jessica L. Wynalek, Hendrix J Mol Biol. Author manu	J. Weber, Manisha owman, Anthony T. y T. Pham, Matthew Helen Donis-Keller, script; available in PM form as: J Mol Biol. 20 .01.011	C. Patel, Katherine I Tantoco, Elizabeth C B. O'Brien, Amy M. Matt W. Bogel, Craig	L. Germane, 2. Paladin, N Vogelsberg g L. Peebles	Robert H. Edgar larlana S. Myers, er, Andrew J. Hry , Steve G. Cresav	, Natasha N. Alexis L. Smith, ckowian, wn, Roger W.	Find related data Database: Select Find items Search details 'genome'[MeSH Terr genomes[Acknowled genomes[Figure/Tab genomes[Figure/Tab genomes[Section Tit genomes[Body - All	ns] OR gments] OR le Caption] Ol le] OR	
2.	Christine Gaspin, Je	an-François Rami,	motifs in two plant ge Bernard Lescure ne 2010 December 20. d			unction	(Search)		e more
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OPPORTUNITY FOR INNOVATION

What is the Wikipedia equivalent for the library and Webscale Discovery Systems?



THE REFERENCE LAYER

- Summary, overview and background information
- Vocabulary building
- Easily digestible
- Links to relevant library resources

Partnerships with Discovery Serial Solutions – Summon

- EBSCO EDS
- Ex-Libris Primo Central

REFERENCE SUPPORTING DISCOVERY ASU Affiliates: Login for more features Help | About | Feedback **ASU** Libraries Search Library fort sumter Advanced Search New search O Keep search refinements Search Results: Your search for fort sumter returned 13,324 results · - 6 Relevance Refine your search Items with full text online Fort Sumter Limit to articles from scholarly publications, Fortification, built 1829-60, on a shcal at the entrance to the harbor of Charleston, S.C., and named for Gen. Thomas Sumter; scene of the opening engagement of the Civil War. including peer-review Exclude Newspaper Articles Definition Books Add results beyond your More Entries Images library's collection News Videos Reference Content Type Fort Sumter: anvil of war : Fort Sumter National Monument, South Carolina Any Any Newspaper Article (11,497) Corporate Author: United States; National Park Service; Division of Publications Journal Article (1,509) Gov Doc Num: I 29.9/5:127 ISBN: 9780912627243 Date: 1984 Dissertation (198) Subjects: Fortification, History Trade Publication Article Call Num: | 29.9/5:127 (59)Availability: SHELF, HAYDEN USDOCUMENTS Book (24) Covernment Document (14)





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1861, following a bombardment by the Confederate Army and former U.S. president...

Handling Hot Shot.

> JOURNAL ARTICLES

Audin: Earl, Oxf2111, Vol. 50 Insue 5, p9 Civil War Times, 20111001, UK Weiter Hatery Onum A letter to the editor is presented in response to an article by Adam Goodheart in the June 2011 Issue.

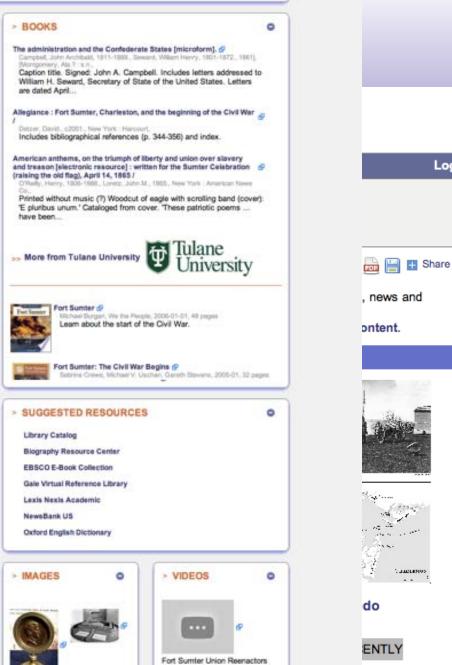


Abner Doubleday.

Columbia Electronic Encyclopedia, 8b Ection 111/2011, p1-1. Doubleday, Abner, 1819-93, once credited as originator of baseball and Union general in the American Civil War, b. Saratoga co., N.Y., grad. West Point...

John Buchanan Floyd.

Colorido Electronic Encyclopeda, 1th Edites 111/0011, pt-1, Floyd, John Buchanan, 1807-63, U.S. Secretary of War (1857-60) and Confederate general, b. Smithfield, Va. After failing as a lawyer and cotion planter...





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Refine your results Full Text References Available	 LOS PENACHOS DEL MANTO, LAS GALÁPAGOS Y Al CENTRAL. (Spanish) / MANTLE PLUMES, GALAPAGOS AND CENTRAL AMERICA. (English) 8 Revista Geologica de America Central jun2010, Issue 42, p135-141, 7; Database: Academic Search Complete 	province (1990 pop. 9,785), 3,029 sq mi (7,845 sq km), Ecuador, in the Pacific Articles Books News Images Videos Galapagos Islands Encyclopedia of Anthropology On the Galapagos Islands, one has the exciting opportunity to walk in the footsteps of Charles Darwin Find More		
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Update Show More >	 Geochemical and geophysical estimates of lithospheric variation beneath <i>Galápagos</i>. By: Gbson, S.A.; Geist, D <i>Earth & Planetary Science Letters</i>, Dec2010 p275-286, 12p; DOI: 10.1016/j.epsl.2010.10.002 			
Source Types All Results Academic Journals Magazines Newspapers Reference	Abstract: Active volcanism in Galapagos is far more widespread (>40,06, than in other hotspot-related archipelagos, such as Hawaii (~20,000km <s Here we employ both geoc Database: Academic Search Complete</s 			
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Text Resources (2,466)		DNA.			



Embed in the workflow and anticipate user needs

• A reference layer can enhance discovery services for exploratory searching

