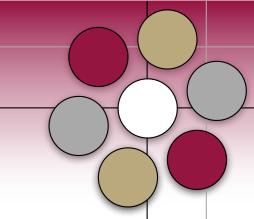


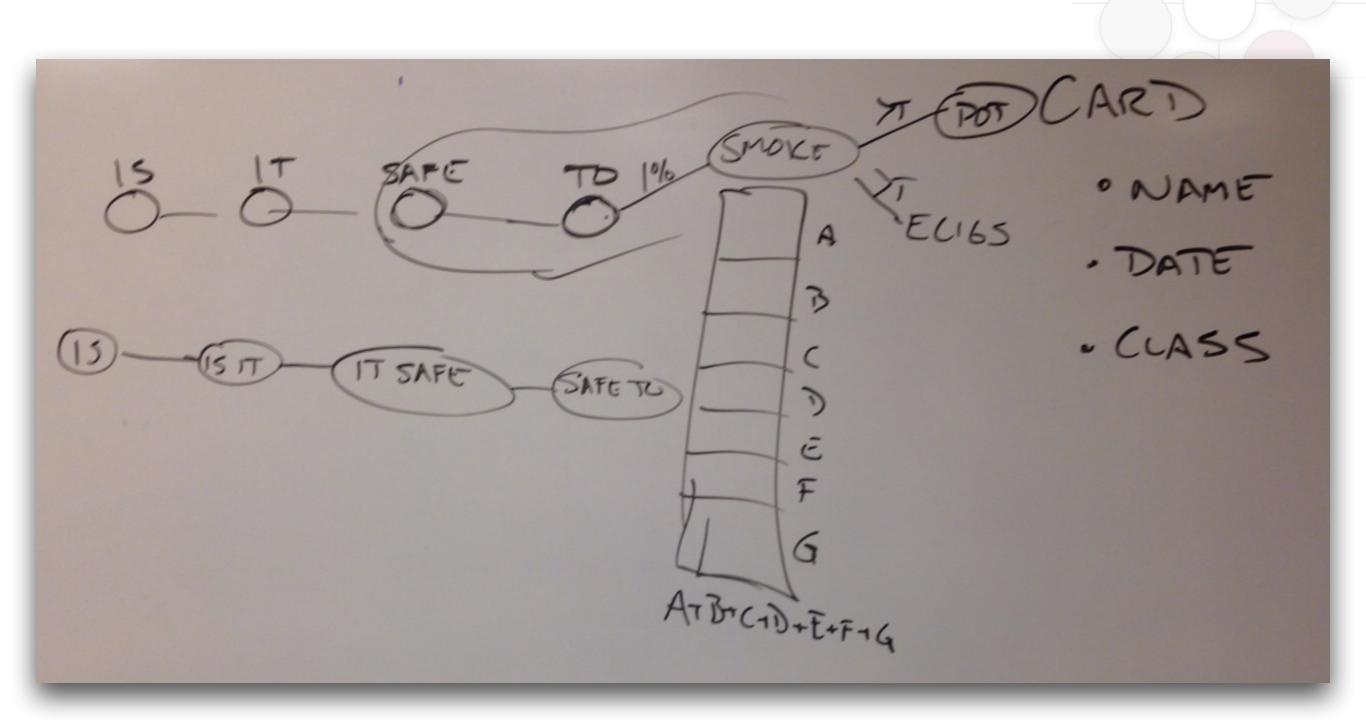
Content adapted from Hinrich Schütze

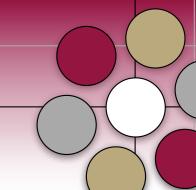
http://www.informationretrieval.org



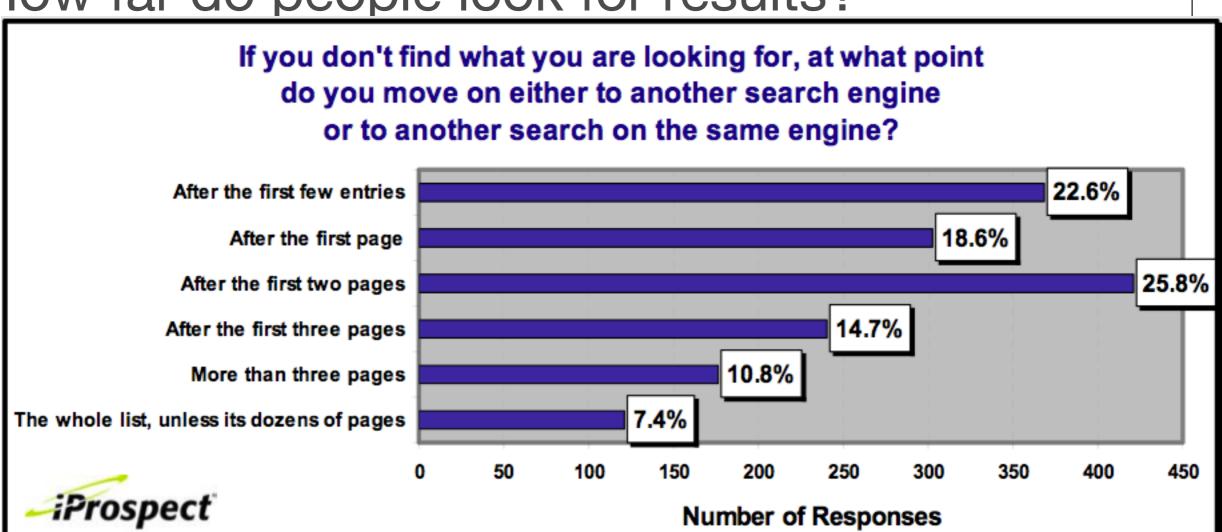
Top queries

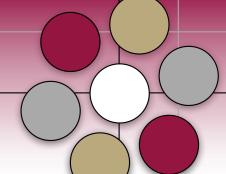
- Live demo WARNING this is not very safe....
 - "Is it safe to"
 - "Is it legal to"
 - "why does"
 - "why doesn't
 - "why is there"
 - "why isn't"
 - "americans are"



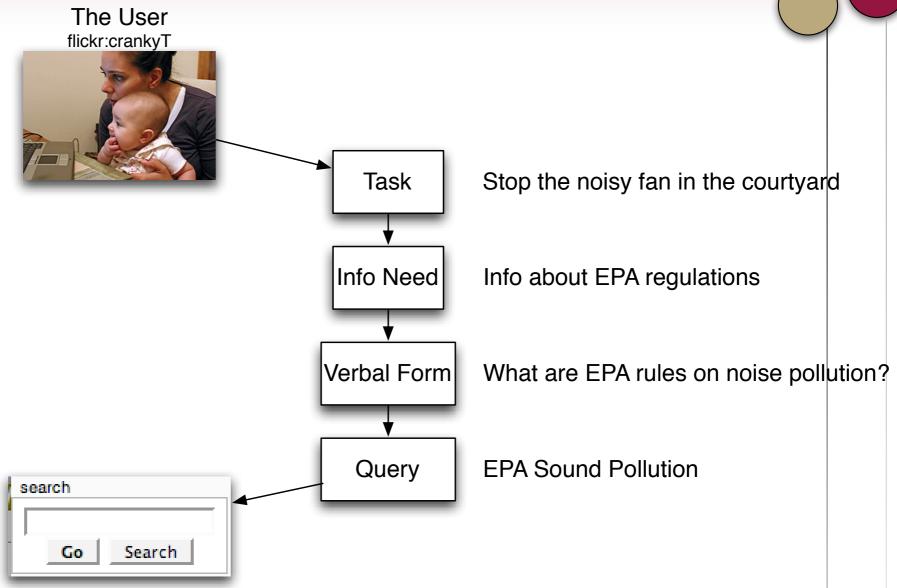


How far do people look for results?

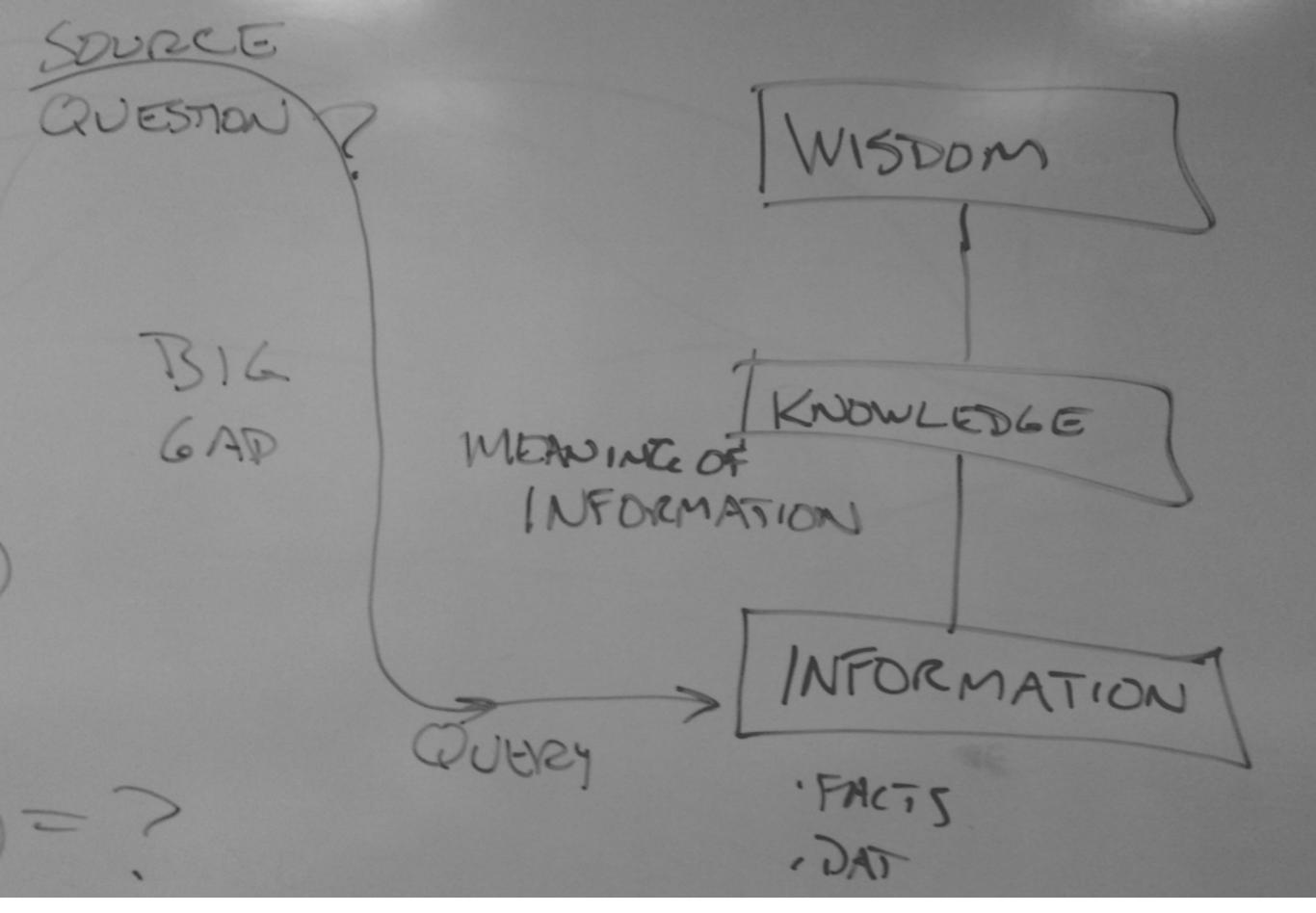




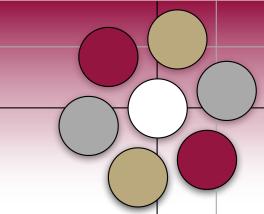
True Example *



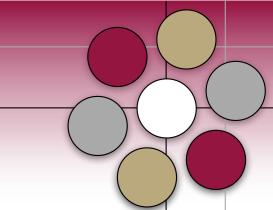
"To Google or to GoTo" Business Week Online 9/28/2001



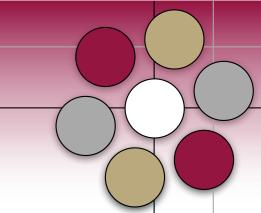
How do we help people move from data to wisdom?



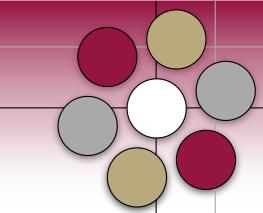
- Quality of pages
 - Classic IR relevance
 - Also important:
 - Trust
 - Duplicate elimination
 - Readability
 - Fast Access
 - No pop-ups



- Precision is more important than recall
 - Precision:
 - How precise is a portal in locating relevant results?
 - Recall
 - How thorough is the coverage of available relevant results?
- Precision with 1 result, 10 results, 2-3 pages of results.
- When is recall important?

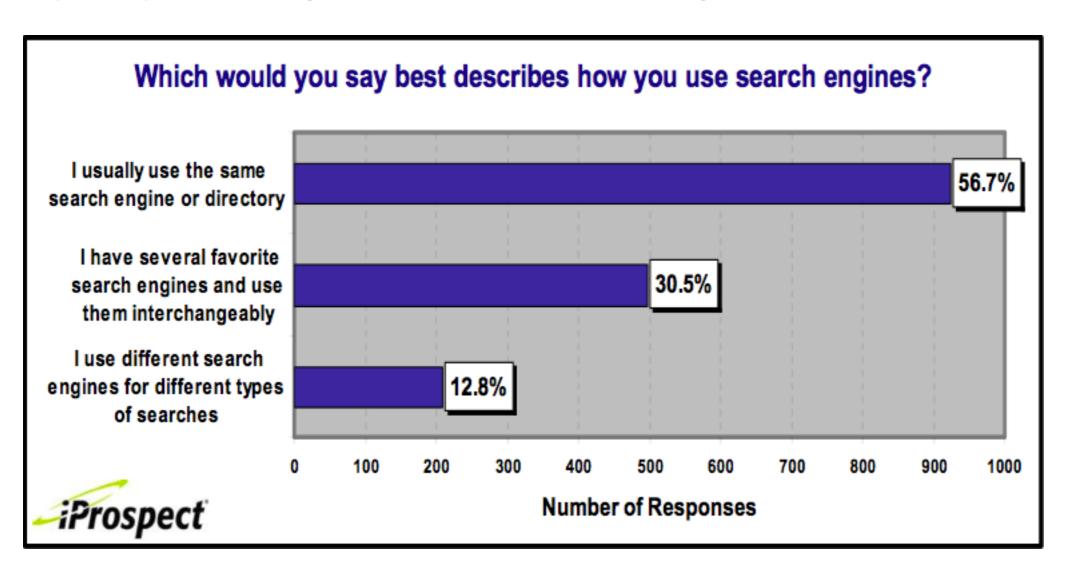


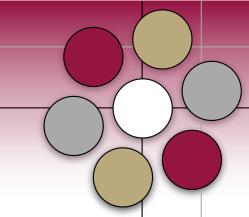
- Recall is sometimes important:
 - Googling for a new doctor
 - Googling a prospective employee
 - Googling your date

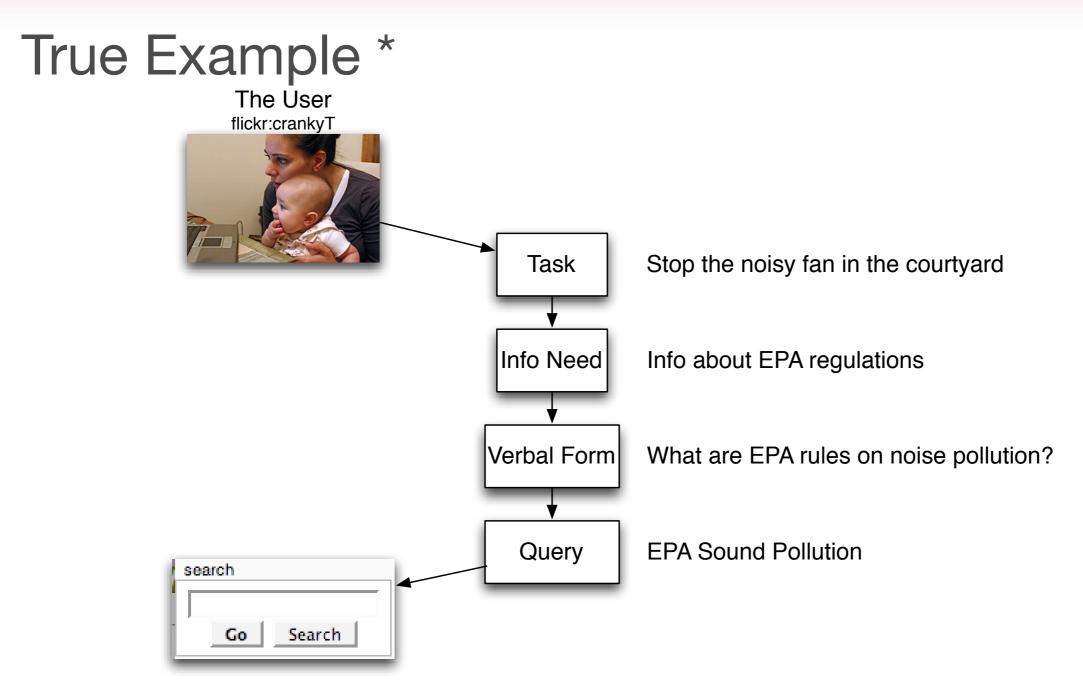


- Good U/I
 - Simple
 - No Clutter
- Pre and post processing tools
 - Spell check ("Did you mean?")
 - Suggested alternative searches
 - Links to resources (maps, images, stock quotes)
- Able to deal with typical behavior
 - e.g., a URL typed into a search box

Loyalty to a given search engine



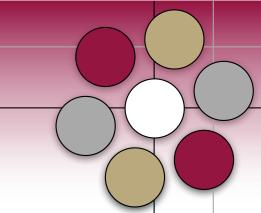




"To Google or to GoTo" Business Week Online 9/28/2001

Answering "the need behind the query"

- The query is often an imprecise indicator of what the user really wants
- What can we do to get a better handle on the underlying information need?
- Query language
 - Adjust rank of English results for a Japanese query
- Use user context
 - In particular geographic context

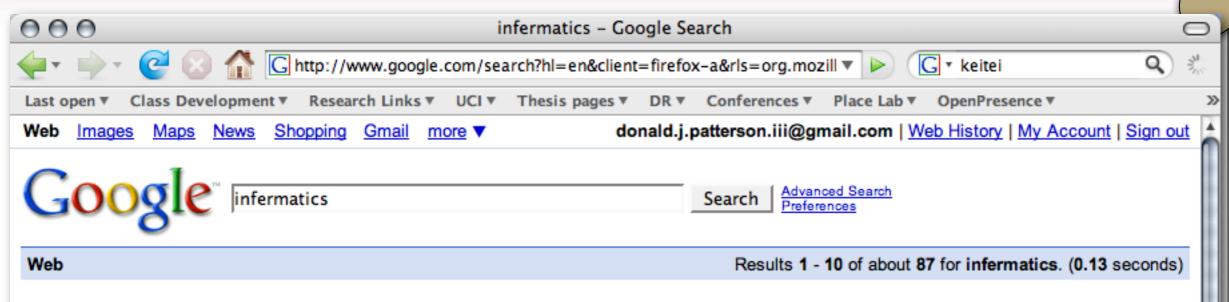


Answering "the need behind the query"

- Guess what type of information the user wants
 - a web page?
 - a map?
 - a stock price?
 - what else?
- Correct queries
 - Suggest correct spellings
 - Suggest related searches (google-fu)

Vokocuka/Hayama farm cooperative/Vitakurihama Branch)





Did you mean: informatics

DÜŞÜNCELER - dellal international infermatics - Blogcu

dellal ınternational **infermatics**. emrah dellal. Bağlantılar. Ana Sayfa · Profilim · Arşiv · RSS. Son Yazılar. DÜŞÜNCELER. 18/6/2006 - DÜŞÜNCELER ... mavilimm.blogcu.com/717078/ - 10k - <u>Cached</u> - <u>Similar pages</u> - <u>Note this</u>

dellal international infermatics - dellal.com.tr.tc - www dellal ...

emrah dellal,arkadaş arama,sohbet,google,, dellal com tr tc, dellal.com.tr.tc. www.dellal.com.tr.tc/ - 2k - <u>Cached</u> - <u>Similar pages</u> - <u>Note this</u>

LexiconWiki: Infermation

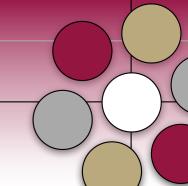
... the academic community, promoting and assessing the use of Infermation and producing dedicated Infermatics for both academic and general consumption. ... kevan.org/lexwiki.pl?action=browse&diff=1&id=Infermation - 8k - Cached - Similar pages - Note this

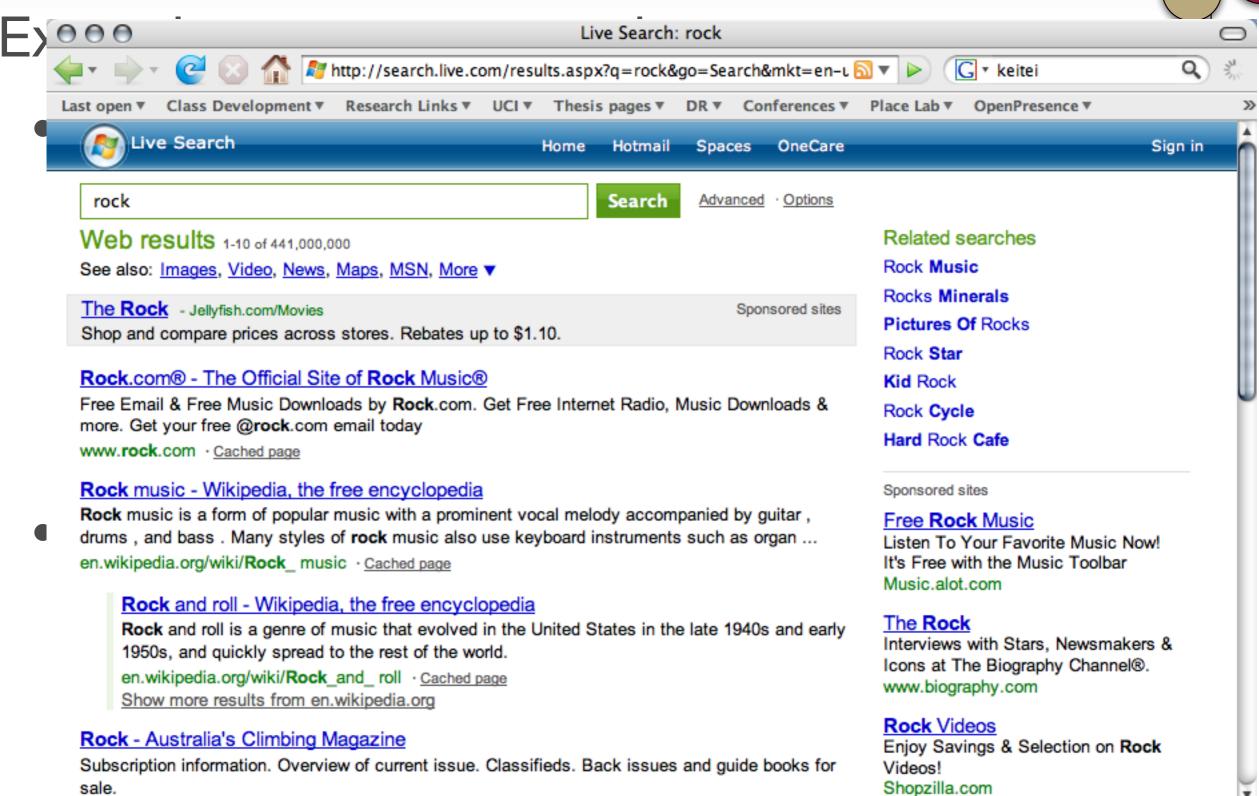
Hepatology Research: Medical economics—Hepatitis C virus ...

Medical Infermatics and Decision Sciences, Yamaguchi University, School of Medicine, 1-1-1 Minami-Kogushi, Ube, Yamagnchi: 755–8505, Japan ... linkinghub.elsevier.com/retrieve/pii/S1386634602000414 - Similar pages - Note this

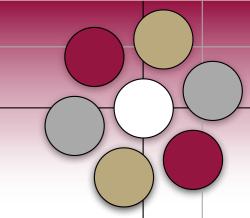
IngentaConnect Medical economics-Hepatitis C virus infection and ...

Done





Done



Query shortcuts

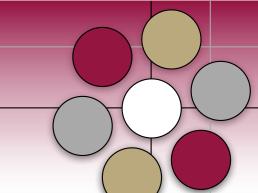
- Map: "irvine, ca 92614"
- Calculation: "5+4"
- Flight Info: "american airlines 715"
- Stock price: "msft"
- Unit conversion: "1 dollar in euro"
- Music: "White Stripes"

Query shortcuts

- apple vs banana
- tip calculator
- zerg rush
- 88921384914 in english
- atari breakout

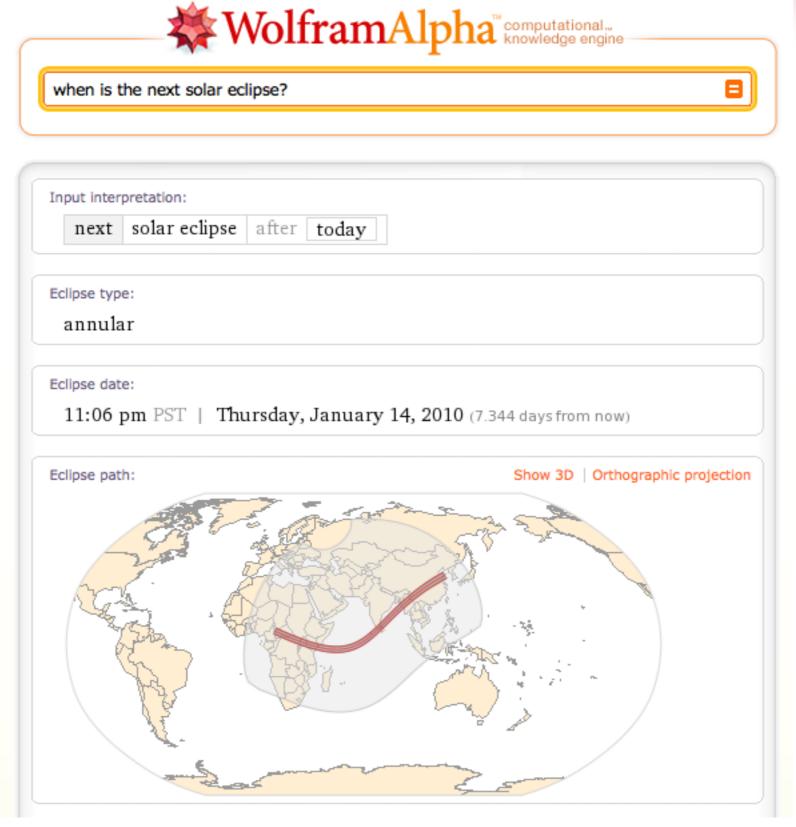


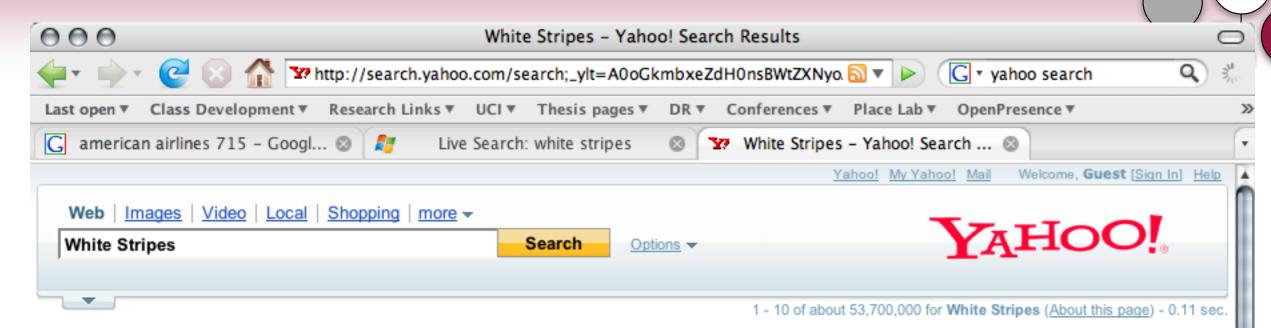




Query

- Mar
- Calc
- Fligl
- Stoc
- Unit
- Mus







The White Stripes

Official site for The White Stripes, the Detroit-based garage/blues duo featuring Jack and Meg White.

www.whitestripes.com - 2k - Cached

White Stripes v2

Jack and Meg White fansite includes news and tour information, forum, links, release details, and more.

www.whitestripes.net - 72k - Cached

SPONSOR RESULTS

White Stripes Ringtones

Complimentary White Stripes
Ringtones. Get Them Instantly.
www.TheBombRingtones.com

White Stripes Ringtones

White Stripes Ringtones. Get Them Complimentary Now.
ChartRingers.com/whitestripes

The White Stripes

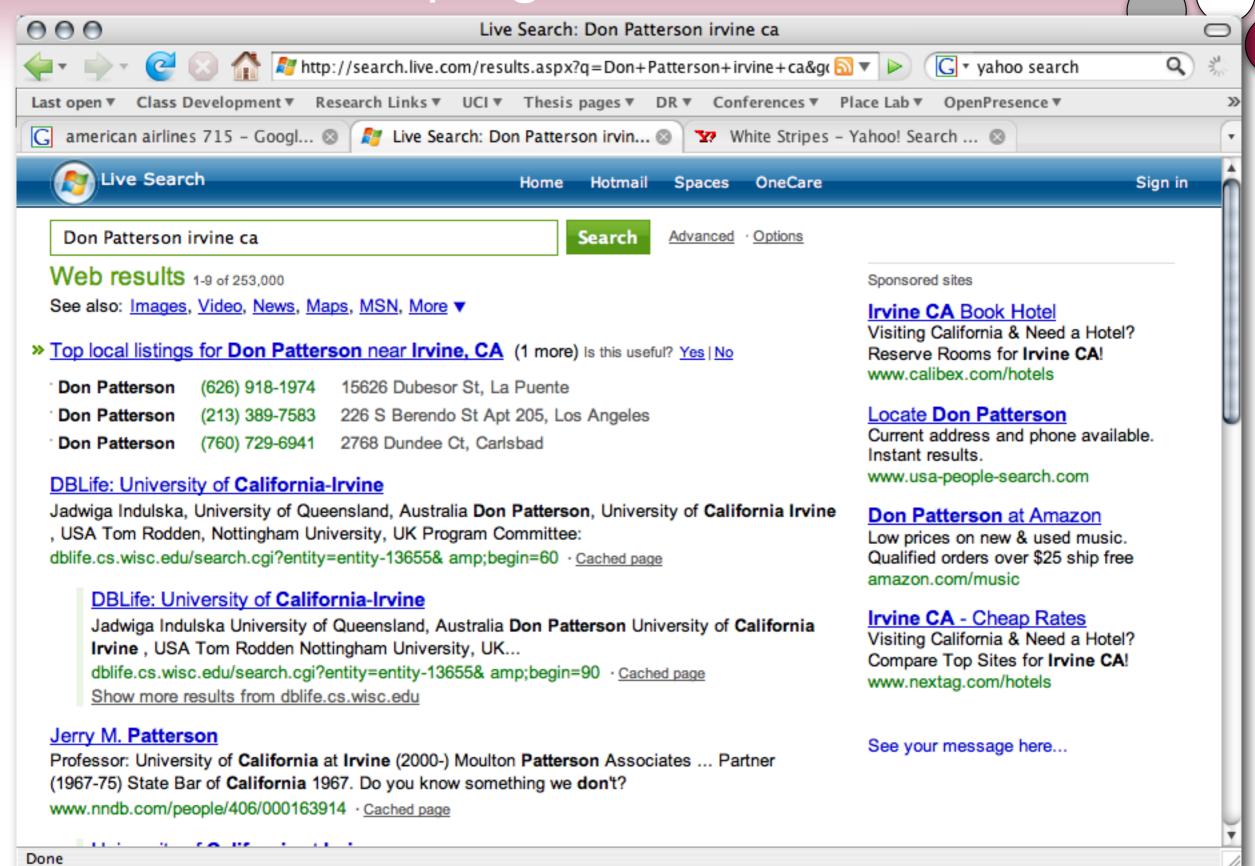
Find, compare & buy. Compare & Buy from 1000's of Stores. www.Dealtime.com

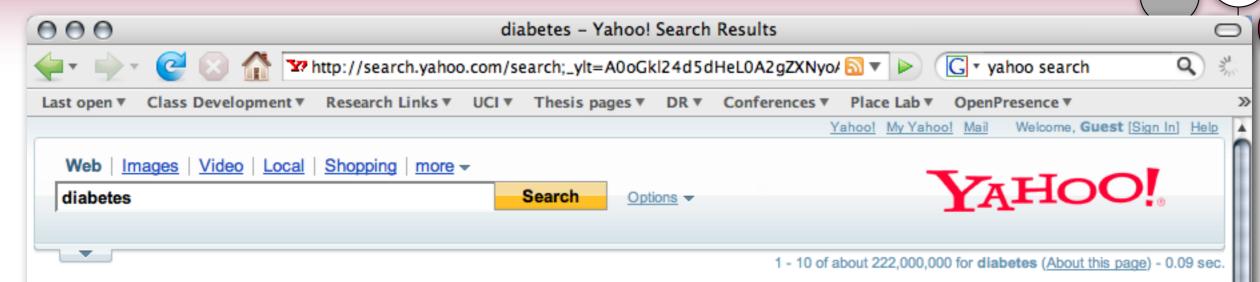
The White Stripes at

Amazon.com

Low prices on new & used music. Qualified orders over \$25 ship free. Amazon.com/music

See your message here...





SPONSOR RESULTS

Free Diabetes Supplies

www.LibertyMedical.com - Medicare Diabetics - Your supplies Could be 100% covered. Learn more.

Diabetes and Pain

www.Cymbalta.com - Diabetic peripheral neuropathic pain (DPNP) -learn about managing it.

Learn About Diabetes

www.Type2Diabetes-Info.com - Learn more about type 2 diabetes including treatment options.

Diabetes Information - Health Results

Articles

Symptoms
Yahoo! Groups
Treatments
Medications

Community
Yahoo! Groups
National Institute of Diabetes &...
American Diabetes Association
MedlinePlus: Diabetes

Yahoo! Shortcut - About

CDC: Basics About Diabetes

Fact sheet about **diabetes** covering its common symptoms, risk factors, and management options. www.cdc.gov/diabetes/faq/basics.htm - 36k - Cached

American **Diabetes** Association

Provides extensive news and information about diabetes including symptoms, nutrition, weight

SPONSOR RESULTS

Diabetes Learning Center

Educational site explains how to manage type 1 and type 2 diabetes. www.bddiabetes.com

Manage Diabetes Naturally

Sugar Free Psyllium Fiber Products for Type 2 **Diabetes**. Order Online. www.konsyl.com

Diabetes

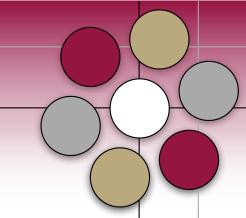
Get a Free Meter from Liberty if You have **Diabetes** & on Medicare. www.**Diabetic-Testing-Supplies.** com

Diabetes Is Info

Get Info on **Diabetes** Is from 14 search engines in 1. www.info.com

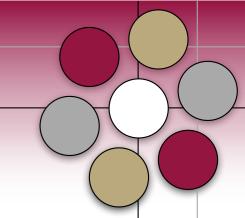
Losing Income Due to Diabetes?

Unable to work due to Diabetes?



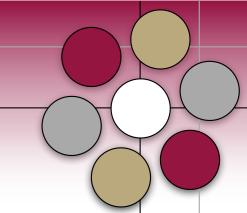
Context

- Context determination
 - Spatial
 - User Location
 - IP geocoding
 - cell phone localization
 - User input ("make this my home")
 - Web page location
 - Target Location
 - "SNA" maps to a latitude and longitude



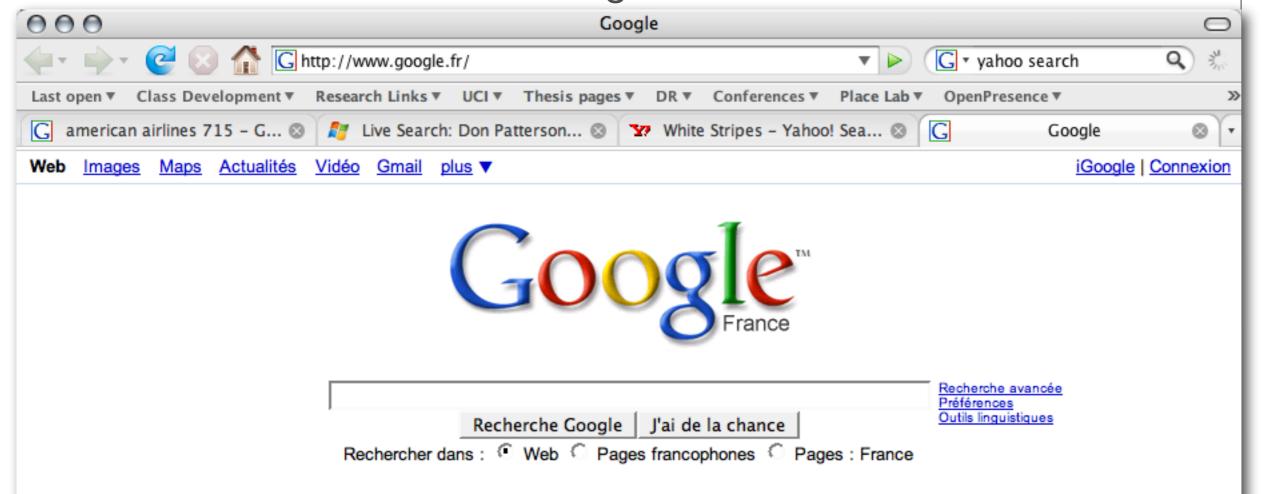
Context

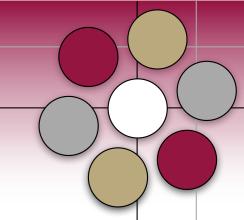
- Query Stream
 - Previous queries have influence
- Personal Search
 - Your profile and history have influence
- Explicit
 - You choose to use a vertical search engine



Context

- Implicit Context
 - google.fr is the default in france
 - User Location and Target Location





Context Use

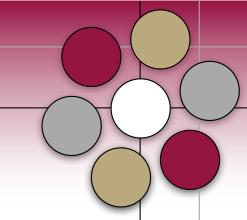
- Restrict Results / Delete inappropriate results
- Rerank results based on context
- Change the content presentation
 - Language etc.
 - Specifying a context is built into some of the search APIs



Eligible for FREE Super Saver Shipping.

Done

Overview



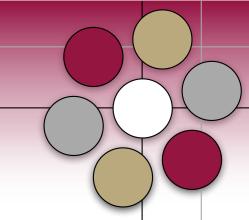
- Introduction
- Classic Information Retrieval
- Web IR
- Sponsored Search
- Web Search Basics
 - Size of the Web
- Web Users



Spam

The trouble with paid placement (aka ads):

- It costs money... so instead
- Search Engine Optimization ("SEO")
 - define: "Tuning" your web page to rank highly in the search results for select queries
 - Alternative to paying for placement
 - It is marketing. Getting your content to your audience.



- Motives
 - Commercial
 - Political
 - Religious
 - Lobbying
- Who does this?
 - Internally: webmasters
 - Commercially: companies, consultants
 - Hosting services

Search Engine Optimization

- Learn more about how to do it online:
 - Web-Master World
 - http://www.webmasterworld.com
 - Search Engine Specific Tricks
 - Discussions about academic papers and results
 - Econtent creation vs link building
 Let's get the IncrediBills and the like to pitch in on this one

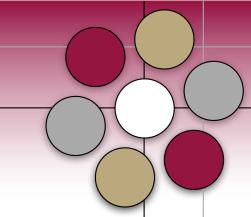
 Moved: 2 pages on site %55 similar duplicate content or not?

 Post was moved here: http://www.webmasterworld.com/google/3537427.htm

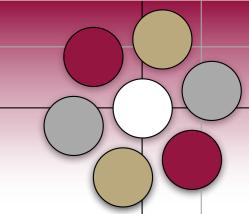
 Ideal length of content for SEO purposes?
 How long should an article be?

 Source of Competitor's Traffic from a Major .com?
 No apparent outlinks from the site to competitor's site

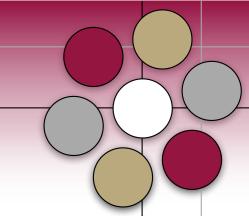
il Mayadı waak ald wahaita rankad #14 in gaagla for main kayıyard



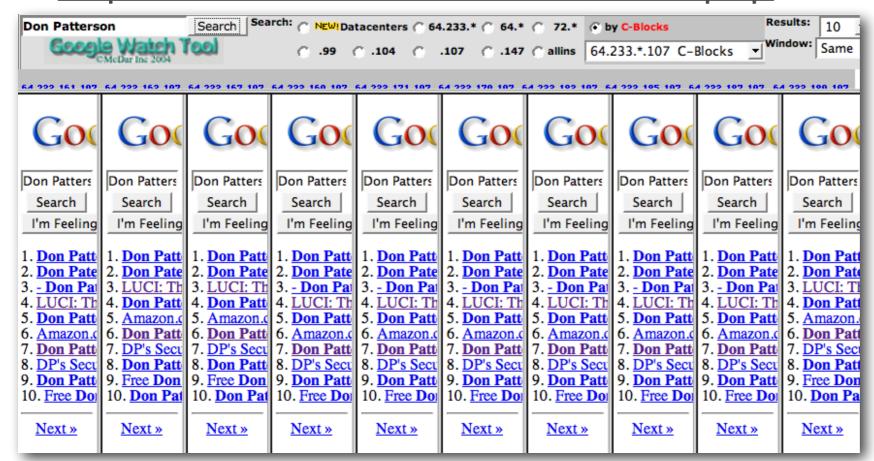
- There are ethical and inethical ways to approach SEO
- Legitimate approach is to:
 - create valuable content
 - make it widely accessible
 - clearly organize it
 - keep it up to date
 - use web standards
 - use web validation tools
 - get high visibility sites to link to your content

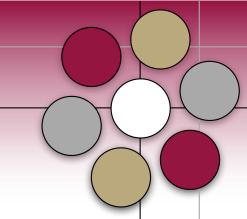


- Inethical approaches (aka spam):
 - lots of tricks
 - make lots of fake pages which point to your site
 - make lots of fake comments on sites which point to your site
 - In a nutshell, "lie"
- Sometimes legitimate and illegitimate techniques are hard to differentiate. It can be a fine line between them.



- Ranking depends on the data center
 - http://www.flickr.com/photos/the_impression_that_i_get/1321041609/
- Examine the different results:
 - http://www.mcdar.net/dance/index.php

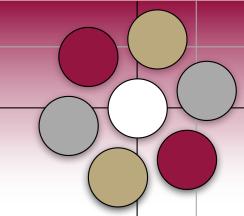




Keyword Stuffing

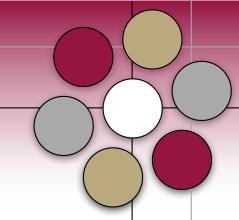
- First Generation Search Engines
 - Heavily relied on tf/idf ratio.
 - E.G. The highest ranking page for the query "brilliant computer scientist" had the most examples of those words.

Spam



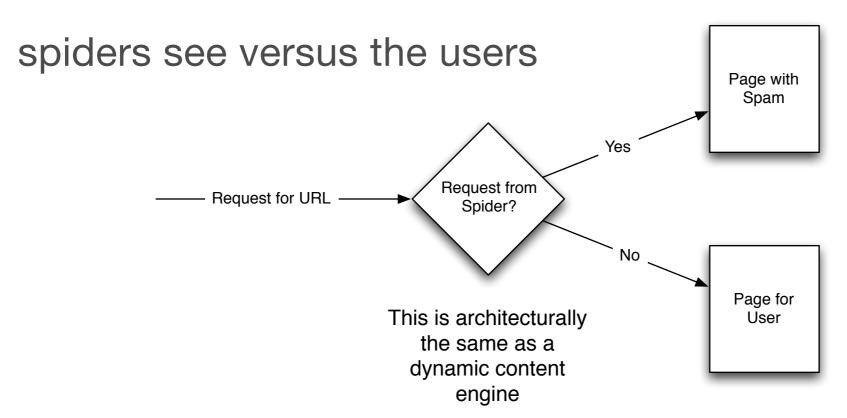
Keyword Stuffing

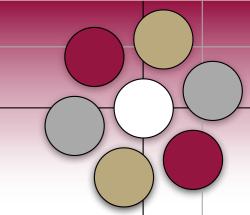
- So SEOs responded by screwing around with keywords
 - Misleading meta-tags
 - Repeating keywords over and over and over and....
 - Playing games with colors. (white on white keywords)
 - visible to spiders but not users in browsers



Keyword Stuffing

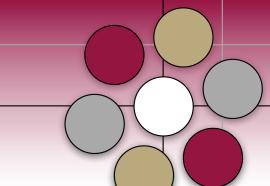
- Cloaking
 - define: Serving different content to a spider than to a user.
 - More sophisticated versions of differentiating what the





Other spam techniques

- Doorway pages
 - Like cloaking but using a redirect
 - Initial page is optimized for a keyword then a redirect takes the user to the "real" page
- Link spamming
 - Programs that search for blogs and automatically leave comments with links
- Robot Clicker-Fraud
 - Programs that "click" on query results to up their value.



Spam Inductor

Find out more

ORDER NOW

Get a first page listing on Google - GUARANTEED! For maximum search engine traffic - the best of SEO and search advertising. Visitors in just 48 hours from \$7/day. Discover the traffic potential!

> WARNING: This site contains sneaky, underhanded **Black Hat Seo tactics.**

> Black Hat Seo is responsible for more online fortunes than you'd care to imagine but it's NOT for everybody.

Make Money Blogging

See How I Earn Over Six Figures a year Blogging

I Will Get Your Website to the Top of

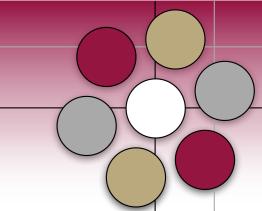
The art of search engine optimization...gaining top spots on Google...is no easy chore. I know...this is my I assist people in getting top positions for their websites on Google, Yahoo, MSN and all the other major

There are a few givens on the internet when it comes to trying to market goods and services:

No Traffic=No Sales!

End of story...that's it...bottom line!

If you have a make to



Spam Contest

Web Images Maps News Shopping Gmail more ▼

donald.j.patterson.iii@gmail.com | Web History | My Account | Sign out



nigritude ultramarine

Search

Advanced Search Preferences

Web

Personalized Results 1 - 10 of about 31,200 for nigritude ultramarine. (0.21 seconds)

Anil Dash: Nigritude Ultramarine

Do me a favor: Link to this post with the phrase **Nigritude Ultramarine**. I'd rather see a real blog win than any of the fake sites that show up on that ... www.dashes.com/anil/2004/06/nigritude-ultra.html - 155k - Cached - Similar pages - Note this

Nigritude Ultramarine FAQ - Jan 5

Nigritude Ultramarine FAQ - frequently asked questions about nigritude ultramarine and the realted SEO contest.

www.nigritudeultramarines.com/ - 57k - Cached - Similar pages - Note this

SEO contest - Wikipedia, the free encyclopedia

In the English-language world, the **nigritude ultramarine** competition by SearchGuild is widely acclaimed as the mother of all SEO contests [citation needed]. ... en.wikipedia.org/wiki/Nigritude ultramarine - 35k - Cached - Similar pages - Note this

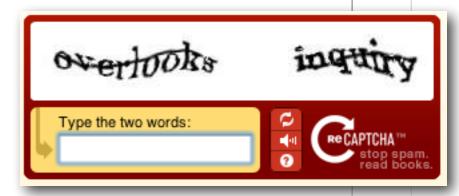
Slashdot | How To Get Googled, By Hook Or By Crook

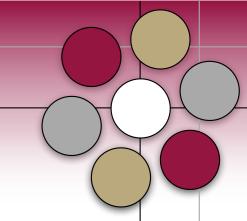
The current 3rd result showcases the "Nigritude Ultramarine Fighting Force" When discussing nigritude ultramarine [slashdot.org] it is important to ... slashdot.org/article.pl?sid=04/05/09/1840217 - 136k - Cached - Similar pages - Note this

nigritude ultramarine - Sriram's WebLog on ASP.NET VB.NET C#

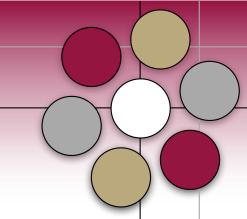
nigritude ultramarine. Wondering what it is? SEO Challenge held a contest for webmasters and site owners to come up with any search optimization technique ... weblogs.asp.net/sonyram/archive/2004/06/08/151375.aspx - 25k - Cached - Similar pages - Note this

- Quality Indicators
 - Statistical Analysis of Links (aka PageRank)
 - votes from authors
 - Usage indicators (users visiting a page)
 - votes from users
- Anti-Robot techniques
 - "Captchas"
 - Completely Automated Public Turing Test to Tell
 Computers and Humans Apart

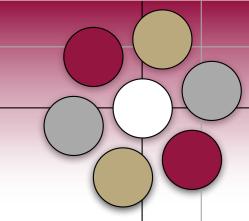




- Limits on meta keywords
- Spam Recognition by machine learning
- "no-follow" attribute
- Family Friendly filters
 - Automatic Detection of Pornography
 - Often the spammers desired landing page
 - Text Analysis
 - Look for keywords and variants



- Robust Link Analysis
 - Ignore statistically improbable links
 - Use link analysis to detect spammers
 - "Guilt by association"



- Editorial Intervention
 - Blacklists
 - Query Reviews
 - Customer Complaints
 - Visualization Tools

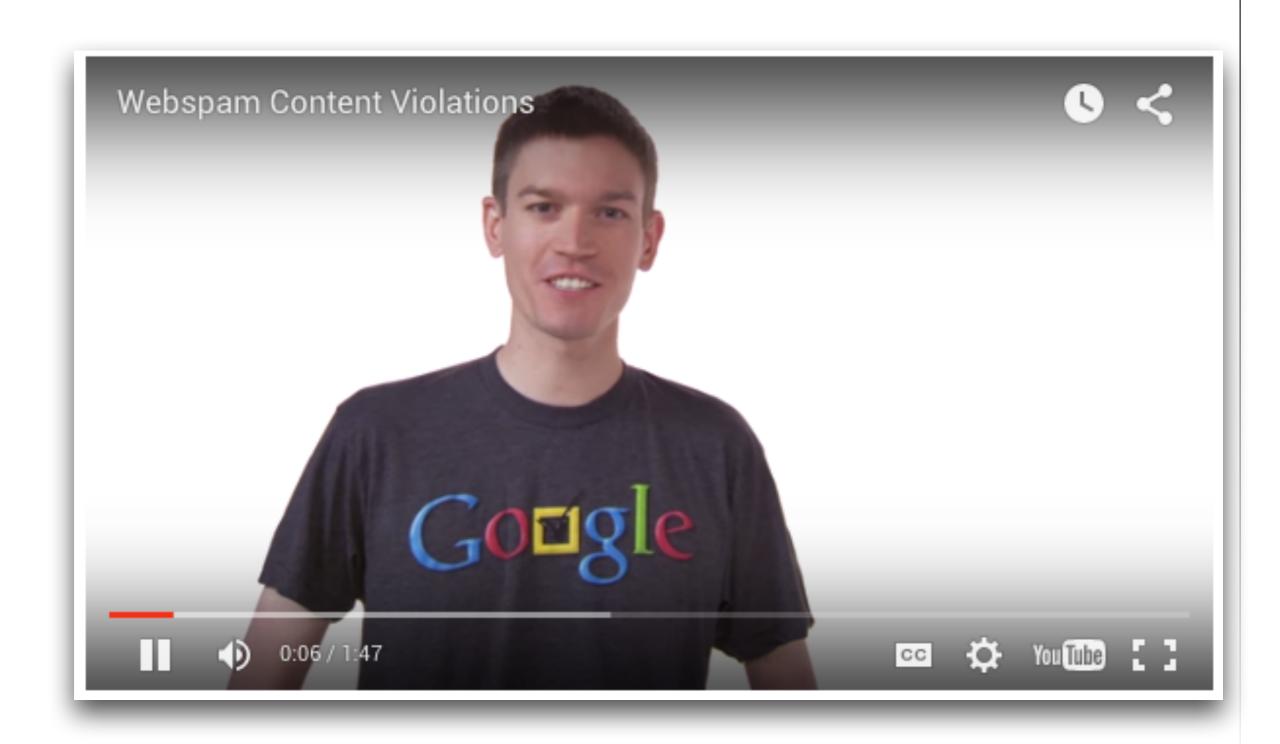
Spam

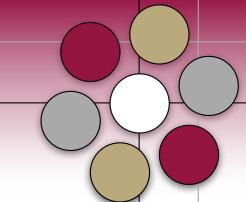
Webmaster Guidelines

- Search Engines have SEO policies
 - What is allowed and not allowed
- Example: Search for "google webmaster guidelines" or "msn guidelines for successful indexing"
- Ignore them at your own risk
- Once you are blacklisted by a search engine you will disappear from the web
 - Remember how search engines enable scalability?
- Adversarial IR Research:
 - http://airweb.cse.lehigh.edu/

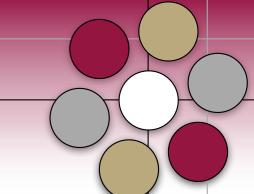
Spam

Webmaster Guidelines

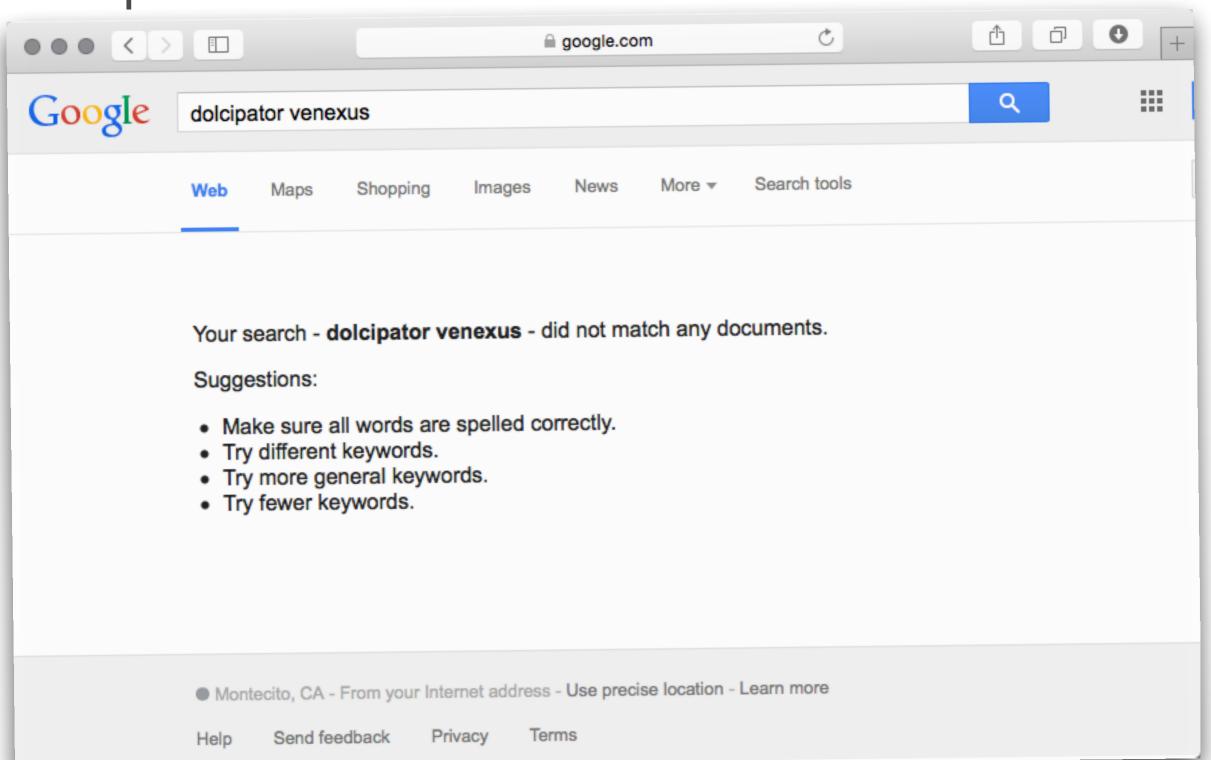


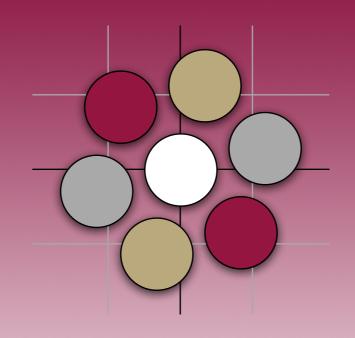


Spam - Extra Credit



dolcipator venexus





WESTMONT COMPUTER SCIENCE