

Google's Text Analytics War on Spam

Sentiment Analysis Symposium October 30, 2012



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Black Hat SEO experts fool everybody

- They fool Google
- They fool searchers
- They are extremely smart and hardworking
- In the last two years, Google has declared war on spammers

The search ranking algorithm decides who's first

- This is not about paid search results
- How does
 Google
 decide the
 #1 organic
 result?

Google	digital cameras
Search	About 158,000,000 results (0.67 seconds)
Everything Images	Sony® Digital Cameras store.sony.com store.sony.com/Cybershot Digital Cameras for Beautiful Pictures. Free Shipping Order Now!
Videos News Shopping	Digital Cameras - Large Brand Selection in Stock Now. www.staples.com staples.com is rated ★★★★★ 8,426 reviews Free Shipping on All Orders \$45+
More Ridgewood, NJ Change location	10 Top Digital Cameras Amazon.com www.amazon.com/Cameras amazon.com is rated ★★★★★ 7,043 reviews Save on 10 top digital cameras Free Shipping Available with Amazon Related searches for digital cameras:
Any time Past hour Past 24 hours	Stores: <u>Best Buy Amazon Ritz Camera</u> <u>Overstock Walmart</u> Brands: <u>Olympus Canon Sony Nikon Kodak</u>
Past week Past mond. Past year Custom range	Cameras: Digital Cameras & Accessories - Best Buy www.bestbuy.com/site/Cameras/Digital-Cameras/abcat0401000.c?i Shop digital cameras at Best Buy and capture picture-perfect memories with digital cameras and accessories designed to meet your needs. Point & Shoot Cameras - Digital Camera Package Deals - Nikon logo
All results	~ 89% of clicks on page 1

Google won the first spam war with link analysis

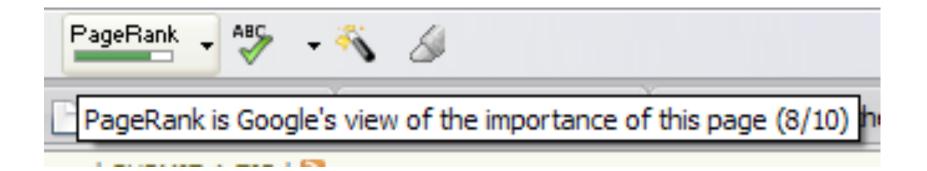
- Links are votes for quality
- They mimic citations in scientific research papers
- The best papers have the most citations



How do search engines value links?

- The most links
- From the best sites
- With the right anchor text

PageRank is Google's name for its page factor ranking



Some people reverse engineer the algorithm

- Google wants the keywords on the page
- Google wants the keywords in the title
- Google wants links to the site



What Google really wants is high quality search results for the searchers

The kinds of links Google has declared war on

- Spam techniques
 - Blog spamming
 - Link farms
 - Hidden links
- Paying for links
- Negative links



There's no such thing as bad publicity?

- Some clever characters found that *bad* reviews actually improved their search rankings?
- Google was embarrassed by a New York Times story outlining the practice



A Bully Finds a Pulpit on the Web

By DAVID SEGAL Published: November 26, 2010

SHOPPING online in late July, Clarabelle Rodriguez typed the name of her favorite eyeglass brand into <u>Google</u>'s search bar.



David G. Klein

In moments, she found the perfect frames — made by a French company called Lafont — on a Web site that looked snazzy and stood at the top of the search results. Not the tippy-top, where the paid ads are found, but under those, on Google's version of t gold-medal podium, where the most relevant and popular site is displayed

Ms. Rodriguez placed an order for

Sentiment analysis to the rescue?

- Google has not publicly admitted this...
- ...but sentiment analysis seems to be in use
- Good reviews now appear to be votes for quality but bad reviews do not
- Google might be reticent to discuss this, because it becomes a new spam technique



For awhile, Google was showing reviews

 You could sort by reviews and sentiment analysis extracted interesting reviews

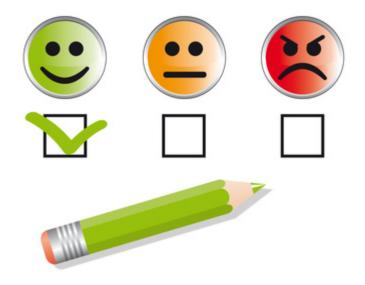
Drooling Dog Bar B Q - Colfax, CA ***** 15 reviews + Price range: \$5 Drooling Dog has some really good BBQ. I had the pulled pork sandwich, Drooling Dog BBQ is a great place to stop at on your way up the hill to Tahoe ... www.yelp.com/biz/drooling-dog-bar-b-q-colfax - 75k - Cached - Similar pages

 But now they show Zagat ratings McCormick & Kuleto's www.mccormickandkuletos.com/ Zagat: 22 / 30 - 687 Google reviews

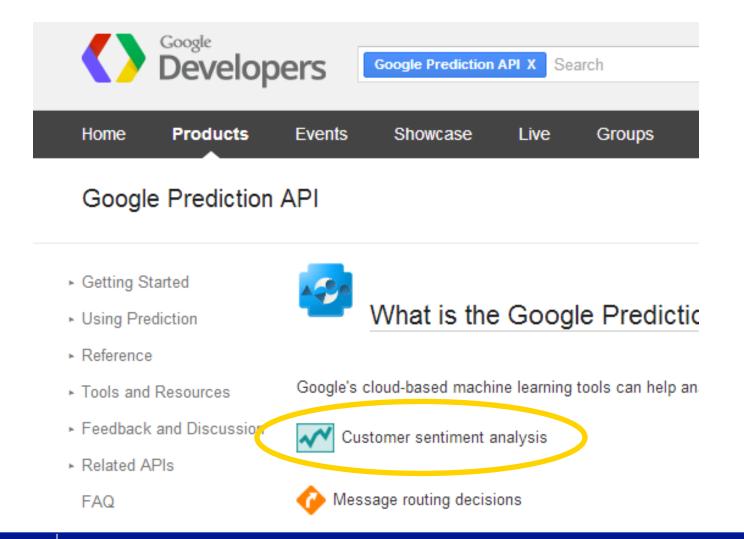
Woodhouse Fish Company woodhousefish.com/ Zagat: 22 / 30 - 336 Google reviews

Google keeps writing papers and filing patents

- Summarizing local reviews with sentiment
- Classifying reviews with sentiment
- Analyzing sentiment differently by domain

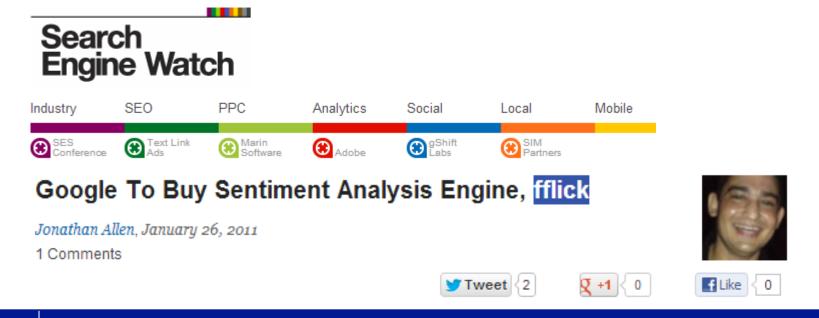


They clearly have sentiment analysis technology



And they acquired an interesting company

- Movies are recommended based on user conversations
- But sentiment analysis can't fight all the spam links



If social activity doesn't match link analysis...

- ...it seems more suspicious to Google as spam
- It's difficult for spammers to simulate both



Maybe we can use old-fashioned sentiment—ask!

- Human beings rate a small subset of search results:
 - Nice design?
 - Speedy response?
 - Quality content?
 - Would you return?
- Sites that people like get bumped higher in ranking
- The sites they don't like are shoved down



Machine learning scales the human ratings

- Even Google can't afford human ratings for every page for every search
- So, it looks for patterns—common features
- If your site looks like the low-rated sites, your site gets ranked lower



What does it mean to "look like" low quality?

- Machine learning detects patterns in what pages look like based on "features"
- What could the features be?
 - The length of the title tag
 - The ratio of words to pictures
 - The commonality of runs of words

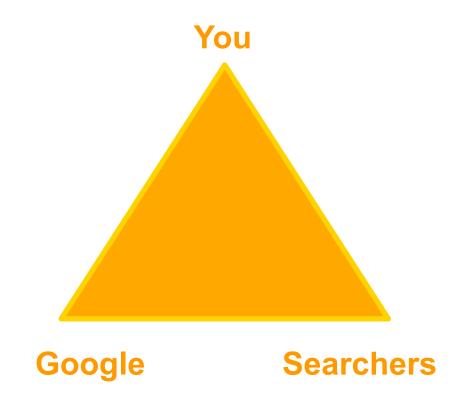


What is the practical effect of Panda?

- Sites that ranked highly with the old algorithm have been affected
- If your site was great for search engines, but not for actual people, time to up your game
- Who seemed to get hit?
 - "Content farms" and screen-scrapers
 - Older content
 - Sites loaded with ads
 - Vertical search sites—but not Google sites!

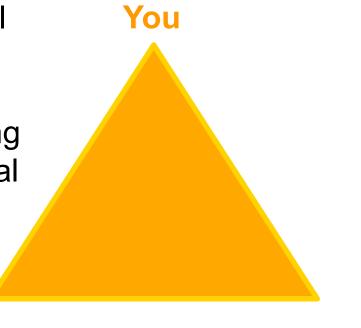
That wasn't just bad luck

- Tactics that help everyone get rewarded
- Tactics that help only you don't
- Maybe you should stick to what will work long-term



It's not just about spamming

- Most of you don't practice real black hat SEO
- But you don't win by examining the terms of service like a legal document
- You see what works for all three parties



Google

Searchers

Is Panda over? The world has now stabilized?

- Google will continue to roll out algorithm changes based on:
 - Panda feature changes and human rating changes
 - Google +1 button ratings
 - Other content quality assessments, including social media activity



 If Panda is working (and Google seems to be committed to it), expect Microsoft and other engines to follow

Google's newest update targets over-optimization

- Unusual link patterns
- Keyword stuffing
- Cloaking
- Content spinning

If people told you this was SEO, it's not anymore



Don't be a good scout. Be good at business.

- You're not trying out for sainthood
- Do it because it works
- It's less risky, easier to do, and has fewer ups and downs
- Focus on a quality searcher experience, and success will follow

You

Google

Searchers

Thank you!



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2009 Golden Quill Award Social Synchronous Technology Launch