Optimize Your Content

- Need to create content that is both what search engines need, and what searchers want to see.
- This chapter covers:
 - What search engines look for
 - The philosophy of writing for search
 - Step-by-step optimization of your search landing pages

What search engines look for

- Search engines make two kinds of decisions when generating results
 - Filtering which pages are on the list
 - Keyword matching plus other user preferences/requirements
 - Ranking what order to present those pages
 - Relevance, authority, quality, etc.

Search filters

- Language filters
 - Language metatag
 - Character encodings
 - Content analysis





Search filters

Web

Images

Groups

- Language filters
- Country and region filters
 - URL
 - Hosting location



 Web
 Images
 Groupes
 Actualités
 Maps
 plus .»

 Meb
 Images
 Groupes
 Actualités
 Maps
 plus .»

 Recherche Google
 J'ai de la chance
 Dutils linguistiques

 Rechercher dans :

 Web
 Pages francophones
 Pages : Canada
 Canada
 Le domaine Google.ca est disponible en : English
 Coogle
 Google
 Mage
 Mag

Google.ca offered in: Français

News

Google Search I'm Feeling Lucky

Search: 🌕 the web 💿 pages from Canada

CSE 197/BIS 197: Search Engine Strategies 12-4

Maps Scholar more »

Advanced Search

Language Tools

Preferences

Fall 2006 Davison/Lin

Search filters

- Language filters
- Country and region filters
- Other filters
 - Document type
 - Adult content

Google	Preferences		
Google			
Save your preferences w	hen finished and return to searcl	h.	
Global Preferences (changes apply to all Google serv	vices)	
	changes apply to an obogic serv	1003)	_
Interface Language		sages in: English Ianguage in the pulldown above, yo n our <u>Google in Your Language progr</u>	
Search Language	 Search for pages written if Search only for pages written if Arabic Bulgarian Catalan Chinese (Simplified) Chinese (Traditional) Croatian Czech Danish Dutch 	in any language (<u>Recommended</u>). itten in these language(s): English Indonesian Estonian Italian Finnish Japanese French Korean German Latvian Greek Lithuanian Hebrew Norwegian Hungarian Persian Icelandic Polish	
SafeSearch Filtering	C Use strict filtering (Filter b	web pages containing explicit sexuants oth explicit text and explicit images) ilter explicit images only - default be sults.	

Search results ranking

- The actual ranking algorithm used by a search engine is proprietary
- Such algorithms use many factors (perhaps more than 100!)
- Two principle directions:
 - Page ranking (query-independent) factors
 - Query-specific ranking factors

Page ranking factors

- Query independent factors
 - Link popularity
 - Popularity data
 - URL length and depth
 - Freshness
 - Writing quality
 - Site organization
 - Spam-free

Page Ranking 1: Link popularity



link...or shrink!



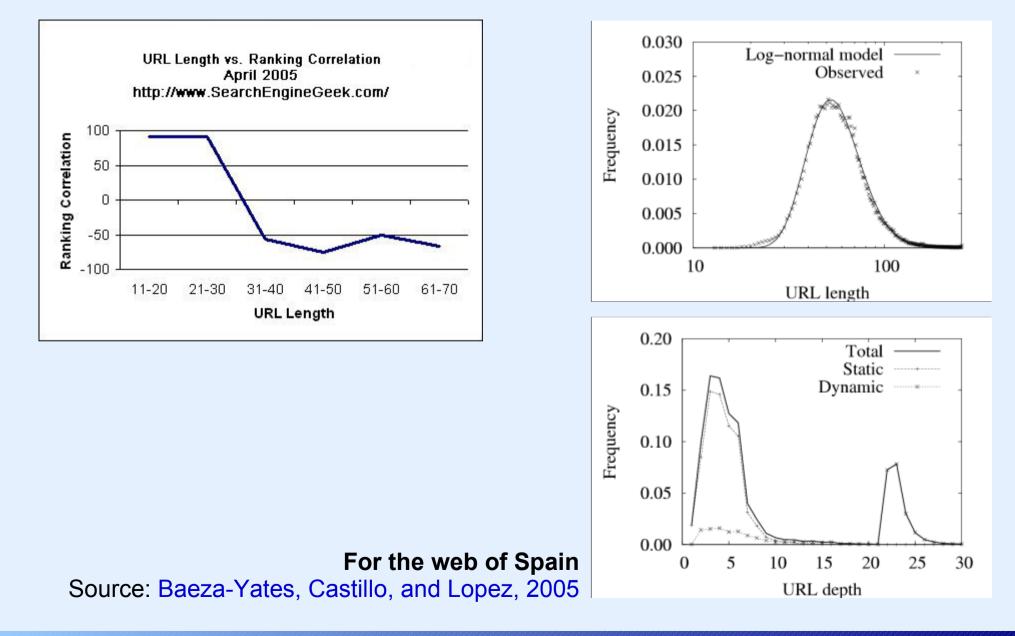
• Addressed further in chapter 13

Page Ranking 2: Popularity data

- Search traffic clicks
- Toolbar traffic

🔉 Google 🗸 🕎	💌 🐯 Web 👻 🌺 Lucky 🝺 Images 🚿 News 🔗
	💌 😨 Web 🍙 Images 🚱 Directory 📠 New
) msn 🎙 - 🔇	💌 🔎 Web 📠 News 📸 Dictionary 🖼 Stock Quote
DOWNLOAD.COM - 🚸	💌 🔎 Downloads 🏘 Windows 🎝 Mus
 Google Y Yahoo Amazon MSN Ask Jeeves Dogpile HotBot Teoma 	Gigablast - Microsoft Internet Explorer File Edit View Favorites Tools Help Image: Back Image: B

Page Ranking 3: URL length, depth



Page Ranking 4: Freshness

- Recently updated content is considered more valuable
- Old content is sometimes assumed to be stale and out-of-date

Page Ranking 5: Writing quality

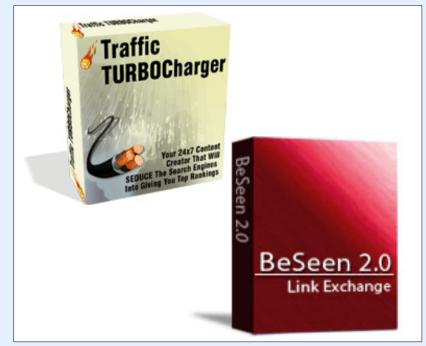
- It is possible for engines to examine the text of your site for grammatical correctness, reading level, and general writing quality
- Sites with easily detectable errors may be deemphasized

Page Ranking 6: Site organization

- Always helpful to have a good web design
 - Simple layout
 - Sensible URLs
 - Easy to navigate

Page Ranking 7: Spam-free site

- Avoid spamming methods
 - Keyword stuffing
 - Hidden text
 - Doorway pages
 - Duplicate sites
 - Self-promotion via link exchanges



Query-specific ranking factors (1/3)

- Keyword prominence
 - Pages with keywords in prominent places (title, headings, start of body) tend to be good matches.
- Keyword density
 - The fraction of text represented by keyword. Too high makes text unnatural, while too low suggests page is on a different topic.
- Keyword frequency
 - Number of occurrences, as a tiny page that mentions keyword very few times is not as valuable.

Query-specific ranking factors (2/3)

- Keywords in anchor text of in-links
 - Such terms are considered to be part of your page
- Query intent
 - Engine may try to identify intent behind query.
 - Informational queries need pages with text.
 - Navigational often need home pages.
 - Transactional need forms or links to documents.
- Contextual relevancy
 - Searcher-specific information, such as location, past queries, gender, etc.

Query-specific ranking factors (3/3)

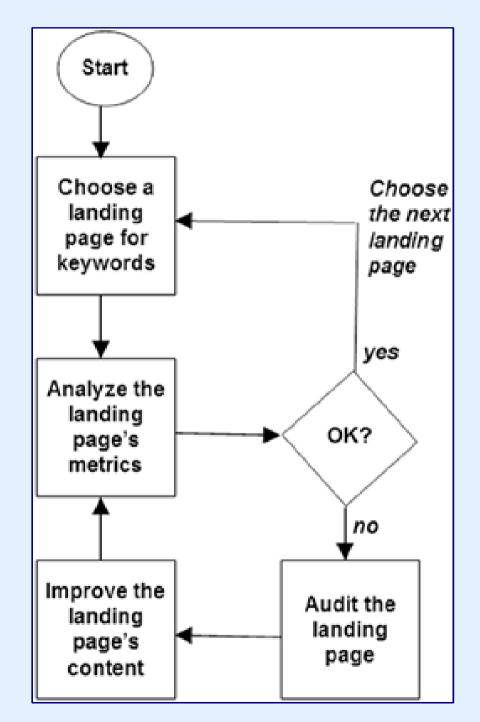
- Term rarity
 - If your page features a query term not used by many other pages, it is likely valuable to the searcher.
- Term proximity
 - The closer the query terms appear, the better (an exact match is best!)

Philosophy of writing for search

- Getting a top ranking is usually not enough!
- Your real goal is some kind of conversion:
 - Online purchase
 - Sales lead generation
 - Getting another signature for a petition
- Your page has to reach the reader
- Well-written pages are more likely to convert readers, and attract links
- It is not worth trying to chase the ranking algorithm

Optimization of landing pages

- Can be relatively straightforward
- Some steps can take months



Choose a search landing page for a set of keywords

- Determine what page a **searcher** wants to see for each query
 - First need to satisfy search need
 - Then spin a message around the need
- Don't bother to optimize for a temporary marketing offer
 - Such offers can be linked from landings
- Same page can be used for multiple keywords if sufficiently related



Choose

the nex

landino

page

Start

Choose a

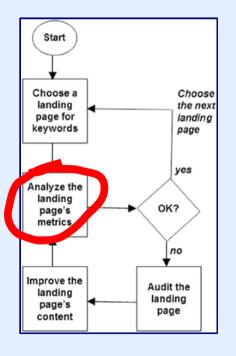
landing

page for

evword

Analyze the metrics for your search landing page

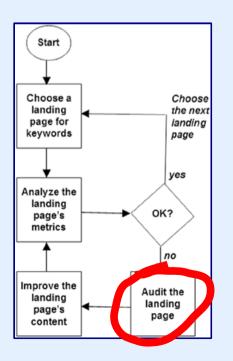
- Check organic search rankings
 - Across multiple engines, each keyword
- Measure organic search referrals
 - Web metrics log analysis software
- Calculate search conversions
 - Web metrics log analysis software
 - Match projections from ch7?



Audit your search landing page

(Tools are available, or performed manually)

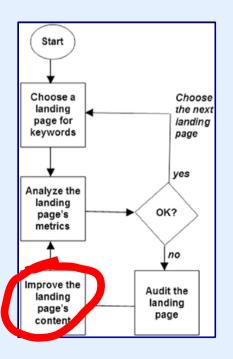
- Scrutinize your title
 - Consider keyword density and prominence (especially versus competitors)
 - Title is vital for click-through, but not for conversion



- Analyze your snippet
 - Needs to provide reason for click-through
- Evaluate your body text
 - Density + prominence, bold, headings
- Examine your link popularity
 - Measure number and quality of in-links

Improve your search landing page's content

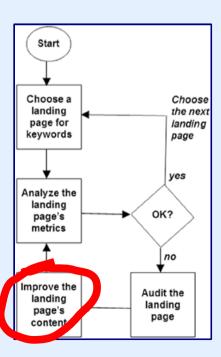
- Perfect your title
 - Eliminate useless terms
 - Consider variations that improve prominence, density



- Influence your snippet
 - Often the first instance of keywords
 - Want action-oriented text to drive clickthroughs (organic referrals)
- Tune your description
 - Might be used by some engines

Improve your search landing page's content

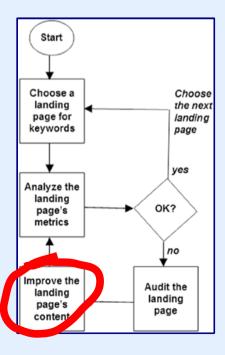
- Fix your body text
 - Emphasize keywords in headings, opening text, emphasized text, and incoming link text.



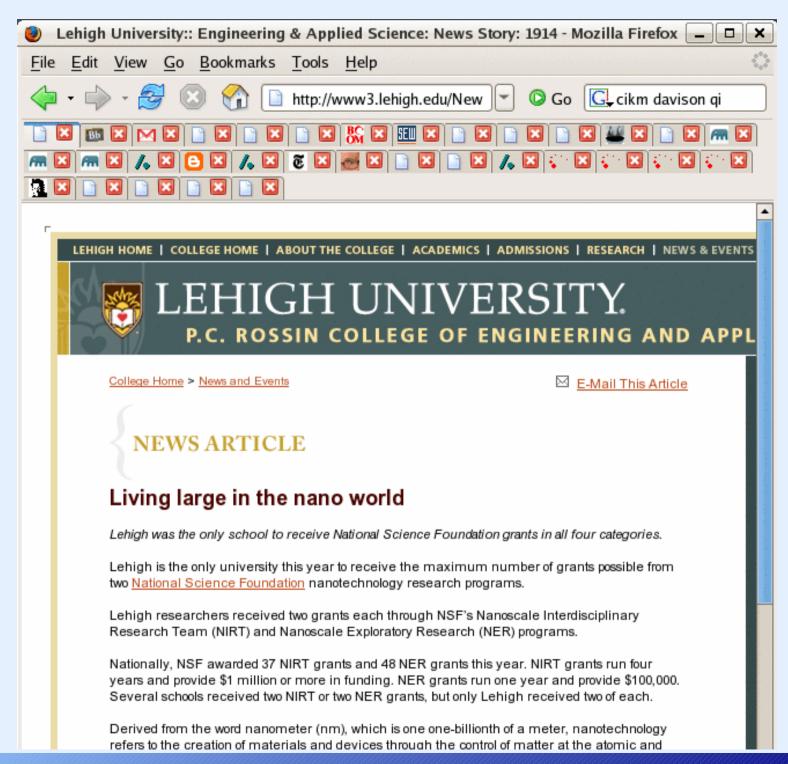
- Text should
 - Also contain keywords
 - Not be too long
 - Not be repetitive, but varied
 - Be organized like a news article
 - Contain localization information
- Use CSS for formatting, but use traditional <h1>, <h2>, ... <h6>

Improve your search landing page's content

- Handle non-text elements properly
 - Proper alt text for images
 - Use headers rather than images
- Optimize dynamic content



- Recognize that dynamic pages are a mixture of code and database content
 - Fix code once for all pages
 - Change database contents for each page individually



Fall 2006 Davison/Lin

CSE 197/BIS 197: Search Engine Strategies 12-26