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SEO

Search Engine
Optimization

ITS Web Services

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Definitions/Acronyms

- **SEO:** Search Engine Optimization
- **SEF:** Search Engine Friendly
- **SERP:** Search Engine Results Page
- **PR (Page Rank):** Google technology developed at Stanford University for placing importance on pages and Web sites
- **RSS:** Real Simple Syndication
- **CMS:** Content Management System

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Definitions/Acronyms

- **Web Crawler (aka Spider, Robot):** A program or automated script which browses the WWW in a methodical, automated manner.
- **Organic results:** Listings on SERPs that were not paid for
- **Sponsored listings:** Listings of paid advertisers on SERPs
- **Keyword/Keyword Phrase:** A specific word or combination of words that a searcher might type into a search field.

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Search Engine Optimization

- Most people know they should be doing it
- Not many actually do

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Why Not?

- Don't realize how important it is.
- Unsure where to begin.
- Unaware of what tools to use.
- It's a lot of (ongoing) work.
- Often the last step in Web site development (but doesn't have to be).

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How important is SEO?

- 90% of Internet users use a search engine in a given session.
- Approximately 94 million adults use the internet on an average day.
- This means approximately **85 MILLION** people use search engines on an average day.
- 57% of users have searched the Internet for school or training info

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SEO Friendly Architecture

Together these principles improve not only SEO, but usability and accessibility as well.

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Optimizing Your Content

- Use text or text alternatives
- Keywords
- Content relevance (theming)
- Links/linking strategy

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Search Engines LOVE Text

- Assume anything that isn't text isn't going to be searchable
- Treat search engine spiders like a disabled user
- Content needs to be and fresh (frequently updated)
- Create keyword rich content

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Keywords

How to determine keywords?

- Think about which search terms a user is likely to use when searching for the information your site provides
- Tools to aid in determining keywords
 - Wordtracker (not free)
 - Google AdWords Keyword Tool (free)
- Examine site statistics: What search terms have been used to find your site?

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Keywords

Choosing Keywords/Phrases

- Don't be too general
 - Hard to optimize for
 - Lots of competition (think globally)
 - Tend to get the wrong audience
- Don't be too specific
 - Not much competition but not many searches
 - Specific terms sometimes "clog" content

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Keywords

Example: med.unc.edu

"Med School" – Too broad

- Alaskans may not want UNC
- Lots of competition – think of all the "med schools" in the world
- Isn't really relevant or helpful to many searchers

UNC INFORMATION TECHNOLOGY SERVICES **Keywords**

Example: med.unc.edu

**“UNC School of Medicine
Department of Cell
and Molecular Physiology” –
Too specific**

- Search terms rarely exceed 3 words
- So specific, one instance on a page is sufficient for this page to be found

UNC INFORMATION TECHNOLOGY SERVICES **Keywords**

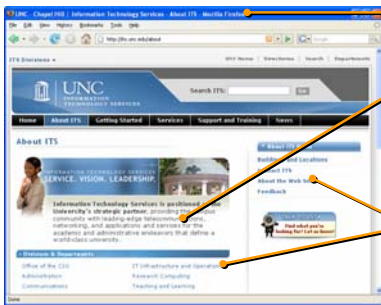
Example: med.unc.edu

UNC Medical School – Just right

- Short – three words
- Specific but encapsulates a general idea
- <http://med.unc.edu/> ranks #1 for this phrase

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Critical page elements



Labels in the screenshot:

- Title
- Core content
- Text Links

UNC INFORMATION TECHNOLOGY SERVICES **Keywords**

Keyword prominence

- How prominent the keywords are on a web page (the more prominent the better)
- Should be placed near the top of the page, in the title `<title>`, headings `<h1>`, etc.
- Use keywords in anchor text ([Search Engine Information](#), not [Click Here](#) for search engine information.)

UNC INFORMATION TECHNOLOGY SERVICES **Keywords**

Keyword density

- Percentage of content represented by keywords
- Title (`<title>`) should have up to 25% keywords
- Content should have 2-8% keywords
- Tools available to assist in analyzing keyword density
 - <http://www.keyworddensity.com/>
 - <http://www.webconfs.com/keyword-density-checker.php>

UNC INFORMATION TECHNOLOGY SERVICES **Keywords**

Keyword proximity

- How close/closely related are the keywords on the page
- The closer the better: If the search phrase is “search engine friendly”:
 - A **search engine friendly** site is an accessible site. (Better)
 - A site that is **friendly to search engines** is also accessible. (Not as good)

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Content Relevance

Theming:
Keep content on target



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Linking Strategies

- Links from outside Web sites, depending on the referrer, convince search engines that your's is a definitive source.
- Do not join automated linking programs
- Make it easy for users of your site to link to you
- RSS/syndicate (e.g. headlines)

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SEO and CMS

System-Wide:

- W3C compliant code
- Use auto generated site map
- Deploy Google and Yahoo site maps
- Use search engine friendly URLs

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SEO and CMS

Template-Level:

- Reduce template "code clutter"
 - CSS driven layouts
 - Includes for scripts and CSS
- Use text as site navigation (no images, no Flash)
- Ensure links are spider-friendly (no DHTML/JavaScript)

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SEO and CMS

Page-Level:


- Effective use of keywords
- Encourage effective meta tags
- Alt tags
- Eliminate spelling errors
- Reduce (better yet prohibit) duplicate content

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Common Myths


Meta Tags

- Myth: Adding Meta Tags will increase your site rank.
- Reality:
 - Meta Tags alone won't do it
 - Irrelevant tags may get penalized
 - Relevant keywords and description tags are cached and used as descriptions in SERPs

 **Common Myths**


Keywords

- Myth: Keywords/Keyword density is everything
- Reality:
 - Nothing is “everything”
 - ♦ Google’s PageRank: over 200 factors
 - ♦ MSN’s Ranknet: over 600 factors
 - Content must be relevant
 - Keyword stuffing and spamming can result in penalties

 **Common Myths**


Domain Names

- Myth: Multiple domain names increase rankings
- Reality:
 - Multiple domain names or “mirrors” are not listed and may hurt ranking
 - Micro-sites or “doorway” pages should have relevant content to avoid penalties


 **Common Myths**

Suggesting a Site

- Myth: Repeatedly submitting a URL will increase ranking
- Reality:
 - Submitting a URL multiple times does not affect rankings
 - Submitting a site is useless if the site is not search engine friendly

 **Summary**

- SEF Architecture
- Update content frequently
- Use keywords in the content
- Use text or text alternatives
- Use keywords to link to pages
- Keep pages on topic
- Generate interest in/links to your site
- Syndicate content

 **References and More Info**

- <http://www.w3c.org/>
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Thank You!