Web Search Basics

Introduction to Information Retrieval INF 141/ CS 121
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Content adapted from Hinrich Schütze http://www.informationretrieval.org



Overview

Overview

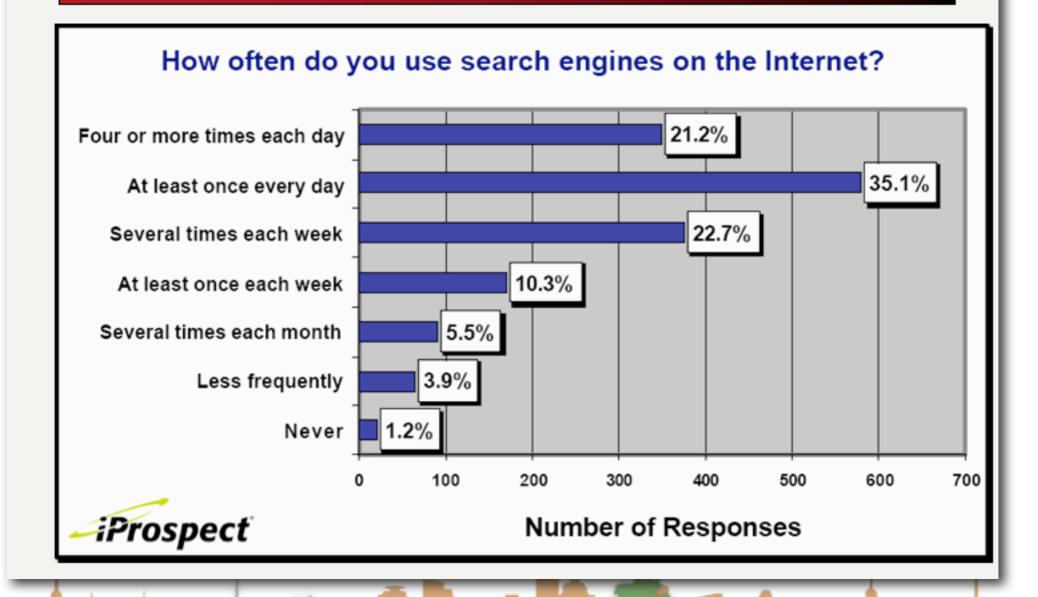
- Introduction
- Classic Information Retrieval
- Web IR
- Sponsored Search
- Web Search Basics
 - Size of the Web
- Web Users



Search use ...

(iProspect Survey, 4/04,

http://www.iprospect.com/premiumPDFs/iProspectSurveyComplete.pdf)



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Without search engines the web wouldn't scale

- No incentive in creating content unless it can be found.
 - Taxonomies, bookmarks can't keep up
 - Or can they? (de.licio.us)

January 2005]

- The web is both a technology artifact and a social environment
 - "The Web has become the 'new normal' in the America way of life; those who don't go online constitute an every-shrinking minority" [Pew Foundation report,

Without search engines the web wouldn't scale

- Search engines make aggregation of interest possible:
 - Create incentives for very niche players
 - Economical specialized stores, providers, etc.
 - Social narrow interests, specialized communities
- The acceptance of search interaction makes "unlimited selection" stores possible
 - Amazon, Netflix, etc.



Without search engines the web wouldn't scale

- Search turned out to be the best mechanism for advertising on the web, a \$15 billion plus industry.
 - Growing very fast (entire US advertising industry is \$250 billion though)
 - Sponsored search marketing is about \$10 billion

