Information Storage and Retrieval
Reading List
Fall 2012

Foundational Concepts

History of IR, Problems in IR, Notable Methods

   ■ ch. 01 Boolean retrieval
   ■ ch. 06 Scoring, term weighting & the vector space model
   ■ ch. 09 Relevance feedback & query expansion
   ■ ch. 11 Probabilistic information retrieval
   ■ ch. 13 Text classification & Naive Bayes

Evaluation

   - 2. What is Interactive Information Retrieval?
   - 4. Approaches
   - 6. Experimental Design
   - 10. Measures
   - 11. Data Analysis


### Automated Methods of Inference

*Text Mining, Natural Language Processing, and Machine Learning*

   - Ch 6. Statistical Inference: n-gram Models over Sparse Data
   - Ch 7. Word Sense Disambiguation
   - Ch 9. Markov Models
   - Ch 14. Clustering
   - Ch 16. Text Categorization

### Alternate way to explore and understand information

*Visualisation and Exploratory Search*


The Role of Humans in Indexing and Retrieval

*Human-Centered IR, Interactive IR, Collaborative IR, and Crowdsourcing*


