

Information Retrieval



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Things still to finish...

- Assignment 1b (Thursday 19 May)
- Assignment 2 (Thursday 2 June)
- No Exam
- Lecturer Evaluation (today)

What did we discuss?

- Basic concepts in IR
 - term, document, relevant, query, filtering/ranking
- Text content algorithms
 - boolean, extended boolean, vector, LSI, probabilistic
- Key optimizations
 - inverted files, idf, stemming, stopping, thesauri, relevance feedback, decision trees,...
- Link algorithms
 - PageRank, HITS
- IR evaluation
 - recall, precision, F, MAP, NDCG
- Testbeds, metadata and crowdsourcing
- IR applications
 - recommendation, classification, CBIR, CLIR,...

What did we not discuss?

- How to create your own search engine in practice.
- If you want to create a document-based IR system?
 - Use Apache's SOLR
- If you have a database, many DBMSes will support IR-style "full text" indexing.
 - `SELECT documentID FROM documents WHERE MATCH(content) AGAINST('apples,bananas')`

What are the take-home messages?

- Use IR where appropriate.
- Search is King!
- ...

What should be done differently?

- ❑ How to improve the module?
- ❑ Or any other comments?

Where to from here?

□ Research in IR at UCT

- IR in marginalized languages (isiXhosa, isiZulu, Arabic, |Xam, !Kun)
- IR for Development
- IR for Education

□ Research in IR elsewhere

- University or Industrial Research Labs

□ Applications of IR

- Honours project!
- Future projects at work and elsewhere

The End ...

- well, not really, but lectures in this module anyway :)