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Content Detection and Analysis for Big Data







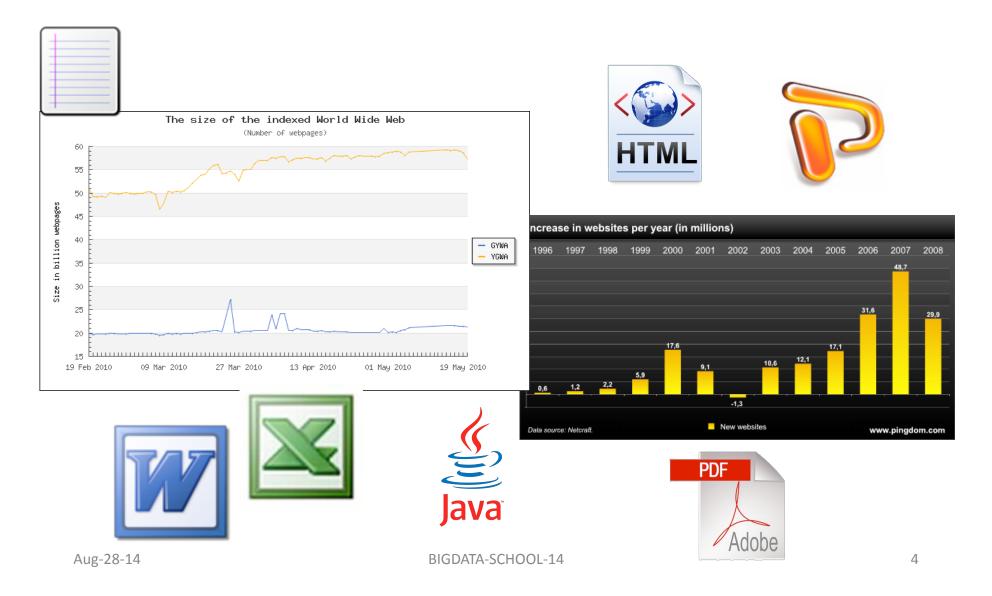
Outline

- The Information Landscape
- Importance of Content Detection
- Challenges
- Approaches
- Introduction to Apache Tika
- Using Apache Tika
- Wrap-up

Some notes

- Talk optimized for breadth, not depth
 - Depth can be found in my CSCI 572 course at USC on Search Engines and Information Retrieval
 - http://www-scf.usc.edu/~csci572/
- Encourage you to check the references at the end and feel free to ask questions
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The Information Landscape

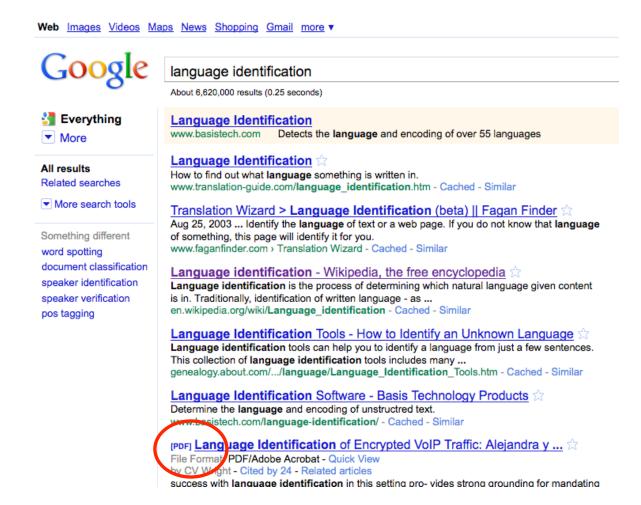


Proliferation of content types available

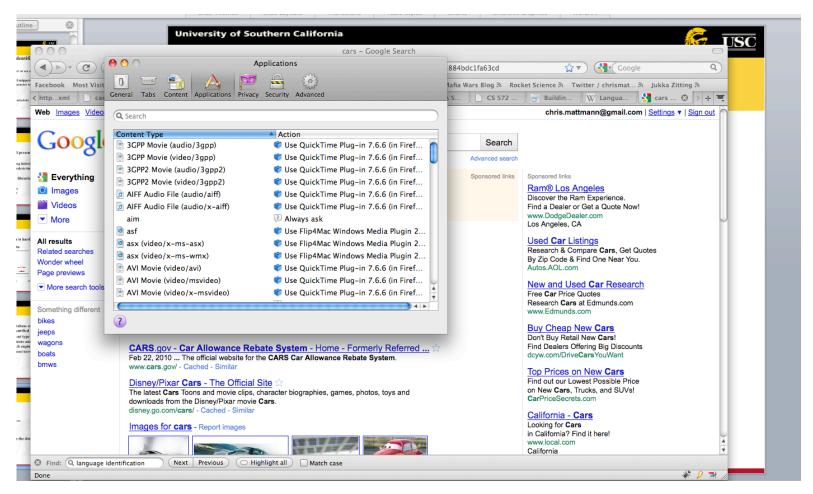
- By some accounts, 16K to 51K content types*
- What to do with content types?
 - Parse them
 - How?
 - Extract their text and structure
 - Index their metadata
 - In an indexing technology like Lucene, Solr, or Compass, or in Google Appliance
 - Identify what language they belong to
 - Ngrams

*http://filext.com/

Importance of content types



Importance of content type detection



Search Engine Architecture

