

# Search and XML

Web4Dev Conference  
Session VI (3) – Search Challenges

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# Searching XML

- Text Search
  - XML is ASCII text
  - Does not take advantage of XML structure
- XQuery
  - Text Operators
  - Structure Aware

# Why XML

- Self-defining Content
- Standards for
  - Content and Knowledge Management
  - Data Interchange
  - Metadata and meta-models
- Device independence
- Internationalization

# XQuery Overview

- W3C Standard for XML Query
  - Similar to SQL for RDBMS
- Uses FLWOR expressions
  - For, Let, Where, Order, Return
- Contains full-text search expressions
- XPath – Structure Context
- Element Construction
  - Create new XML
- Variables
- Functions
- Joins

# Full-text Support in XQuery

- String Search with Wildcards
- Phrase Matching
- Boolean
- Proximity Search
- Scoring
- Relevance Ranking
- Stemming
- Case

# XML Servers

- Thesaurus
- Indexing
- “Virtual” XML
- Caching

# XML-Based MetaSearch Tool

