Cruising the Semantic Web with Noadster

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Core Concepts

Presentable cluster nodes
Stop word properties
Web vs semantic browsing mode

Assumptions
- Triples already harvested
- General architecture still valid for the general Web
- RDF-annotated media available for display
  - Including images, literal, \(<rdfs:label>\) and \(<rdfs:comment>\)
- Extensible domain-independent foundation
- Reasonable default display for any vocabulary

"Style sheets" for specific vocabularies

Views

Global
- Search ala Google
- Grouped ala Clusty
- Works as outline
- Structured links of relevance throughout knowledge base

Local
- Like clicked link from Google
- Single topic from global interface
- Generated as Semantic Browser

Authoring Impact

Publish facts, not documents
- Each fact immediately accessible
- Each fact immediately impacts structure
- RDFS subproperty to labels and comments
- Inferring enough common properties for clustering

Semantic Web not just AI in XML
- It's more familiar than you think
- It's about writing, sharing and conveying information

Semantic browsing is hip and happening
- Emerging tools under active development
- An emerging community: development groups and workshops

Related Work

Features
- Hypertext
- Semantic

Browse
- Web browsers

Search
- Google
- Sesame
- Longwell

Rank
- Google&Clusty
- Topia

Sort
- n/a
- Topia

Hierachy
- Topia (highlighting)
- Longwell
- Topia

CSS

Topia ClusterMap

Process Diagram

User

Preload

Request Process

Global View

Local View

Repository

Selection

Ordered URI Hierarchy

Clustering

Hierarchy

Vision

Document structure is important interface
- Semantics make search results more sensibly structurable
- Existing clustering tools generate document structure from semantics
- Enticing progress made
- Much exciting work to do

What's next?
- Good, accessible RDF for browsing
- Stylesheets for appearance and structure: Fresnel
- The Mosaic for Semantic Browsing: Simile/Longwell?

http://homepages.cwi.nl/~media/conferences/HT2005Noadster/