



Feb 12, 2009

SemanticWiki mini-series session 5: "Semantic Wiki Applications & Use Cases (2): horizontal applications"

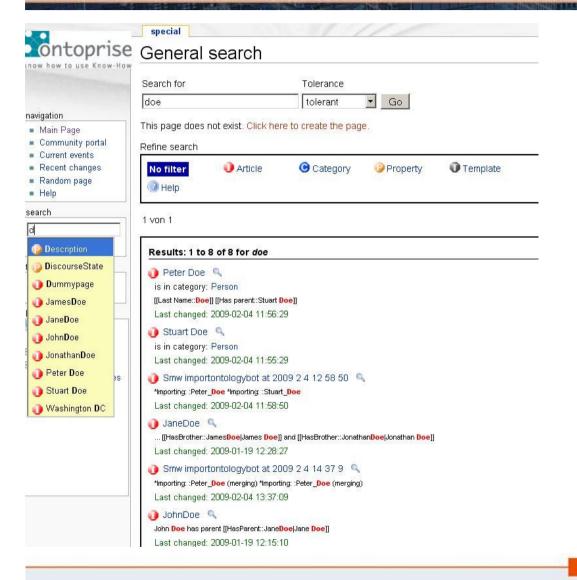


- Enhanced Retrieval Extension is based on the new MWSearch extension
- Advantages of MWSearch
  - "Did you mean?" (i.e. spell-checking and auto-suggest)
  - Fuzzy and wildcard queries
    - Wildcard search: \*stan -> Kazakhstan, Tajikistan, Kyrgyzstan
  - Boolean Operators: AND, OR, NOT
  - Search for stop words & words with less than 3 characters (e.g. "VW")
  - Prefix and Intitle search
  - Faster & Improved search results
    - Via better stemming, usage of related articles, sections, redirects

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## Features of Enhanced Retrieval Extension



- Auto-Completion
- Unification of full-text search and ontology search
- Leverage search by making use of semantic, i.e. "Query Expansion"
- Full-text search on uploaded DOC and PDF files
- Preview on search results
- Search statistics

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- Exploits the ontology in order to find related terms for entered search terms
- Related terms
  - Synonyms (Redirects, predefined properties: "also known as", "rarely labeled as")
  - Broader and narrower terms (Super- and sub-categories, predefined properties: "broader term", "narrower term")
- Search settings to control degree of Query Expansion
  - Settings: exact, semi-tolerant, tolerant
- Example
  - Entered search query Ferrari F50 (Setting: tolerant)
  - Query gets expanded to (F50 OR Ferrari F50 OR Sportscar OR Gasoline Guzzler)

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## How can a user insert term relations?

- Use the ontology browser
  - Model super- and subcategories, subproperties
- Semantic markup in wiki-text
  - E.g. On the article page of "Ferrari F50" use

[[Also known as::Sportscar]] [[Rarely labeled as::Gasoline Guzzler]]

Form-based input of related terms (for easy management of vocabularies / thesauri)



also known as:	Gas Guzzler	
rarely labeled as:	Steam hammer	
definition:		
example:		
broader term:	Sportscar	
narrower term:	Porsche GT	



- The enhanced retrieval extension allows for a more flexible and tolerant search
- Supports collaborative vocabulary management
- Reuse stored vocabulary data by relying on SKOS W3C standard
- Extension will be released to the community in March '09
- Resources
  - MW Search Explanation (http://en.wikipedia.org/wiki/Wikipedia:Searching)
  - SMW+ User forum (http://smwforum.ontoprise.com)

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