Semantic Wiki
Session 2 - summary

An introduction to some semantic wiki engines and related technologies

Harold Solbrig (Mayo Clinic)
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Session Goals

Goal: Gain an understanding of a variety of different Semantic Wiki implementations

- Motivating factors
- Implementation features
- How content is created
- What makes it “semantic”
- How is information imported and exported
- Query and browse tools
- Reasoning techniques
- Stability, user base and future

Presentations
IkeWiki

Presented by Dr. Sebastian Shaffert and Dr. Peter Dolog

- IkeWiki Interface
  - Premise: metadata has to deliver benefit to be used – both for authors and for users
  - Ajax based toolkit for adding semantic annotations to wiki pages directly
  - Navigation by categories / types / context
  - PostgreSQL DB w/ Jena RDF and OWL DL
  - Notion of “wiklets”

Presentations IkeWiki-Kiwi

Kiwi

- Focus on Semantic Social Software
- Similar approach as IkeWiki
- Various facades and perspectives – example included semantic annotation of google maps

Presentations
AceWiki

Presented by Tobias Kuhn

- Controlled English interface
  - Based on Attempto Controlled English (ACE)
- Grammar rules that map directly to OWL and other logics
  - Proper names, nouns, verbs
  - Uses OWL reasoner to validate input
  - Inline English based queries
  - Includes predictive (syntax directed?) editor that helps sentence construstion

Presentations
SWiM

Presented by Cristoph Lange

SWiM – A wiki for collaborating on mathematical Ontologies

- Uses MathML, OpenMath and OMDoc markup
- Symbols -> concepts, statements -> axioms, theories -> ontologies, documents
- Support of authoring and workflow
- Import/export to semantic markup languages
- Integrated with subversion repository

Presentations myOntology

Presented by Martin Hepp

- Vocabulary of E-Commerce
- Attempt to address “’elitist’ ontology construction”
- Notion that URI’s (URL’s) can be very stable, so can become primary identifiers for vocabulary
- Meta-Model, OWL Import and Export, Integration with Major sites (Flickr, Wordnet, Youtube, Wikipedia)

Presentations
OntoWiki

Dr. Sören Auer

- Forms based wiki annotation
- Views on resources instead of “traditional” page based model
  - Forms and views
  - Works directly off of an RDF store
- Versioning and easy undo/redo
  - Sparql Endpoint(!), WebDAV, REST, CLI, LDAP
  - Plugins / themes

Presentations
HDEWiki

- HyperDE – model driven web application environment meets Semantic Wiki
- Represented in RDFS, stored in RDF

Summary
Semantic Component

- W4O ← → O4W – different aspects.
  - IkeWiki / KiWi – O4W
  - AceWiki (arguably) - W4O
  - SWiM - W4O
  - myOntology – W4O
  - OntoWiki – O4W
  - HDEWiki – O4W (?)
- Ontology – stand alone, RDF, integrated, imported...

Summary

- Interesting questions about what, exactly, “is” a Wiki
  - Pages? No – OntoWiki has no pages
  - Text? No – KiWi,OntoWiki aren’t necessarily text based
  - Community, workflow, collaborative (AAA philosophy)? – but are FaceBook, YouTube, ... Wikis?