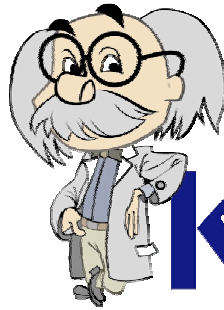**Revelytix**

Ontology-Driven Information
Management

Knoodl.com

*Standards-Based Collaborative Vocabulary
Management Using a Semantic Wiki*

SICoP   October 12, 2006

Knoodl.com is …

- An internet application where people can collaborate with others in their communities of interest to
  - Create, edit, share and find
  - Vocabularies / ontologies

- OWL Repository
  - Free, but licensing controlled by COI's

- Social Computing
  - Users contribute content and benefit from the content
  - Vocabularies capture much of the institutional knowledge of an enterprise or community
  - Gain value over time
  - Used by people and machines

Community Page

Annotations on the screenshot:
- **Content defined by wiki markup language** (pointing to Description section)
- **Community-owned vocabularies** (pointing to SWEET units vocabulary / Projects)
- **Community news** (pointing to News and Announcements)

Screenshot content:

Revelytix Search: [ ] Find   jri001 Log out

Navigation menu:
- Home
- Communities
  - Directory List
  - Create New
- Library
- Directory List
- Search
- My Account
  - My Communities
  - My Bookshelf
  - My Preferences
- Help
  - FAQ
- News and Announcements

Examples Community

A community for Revelytix examples.

Join this community
Find assets
Browse the assets
List the members
FAQ

Description

The example community contains several ontologies that show the capabilities of the Revelytix Semantic Wiki enviroment.

This community is open to public access but you must be a member in order to perform updates or upload new assets.

Projects

FOAF ontology.
The Friend of a Friend ontology published by the W3C body.

SWEET units vocabulary.
The Semantic Web for Earth and Environmental Terminology (SWEET) units-of-measure vocabulary published by NASA.

News and Annoucements

27-Jun-2006 Friend of a Friend Ontology Release
Version 1.1 of the Friend of a Friend (FOAF) ontology has been released. See the release notes.

23-Jun-2006 Friend of a Friend Ontology Lockdown
The Friend of a Friend (FOAF) ontology has been protected from update pending its release.

12-Jun-2006 Revelytix to present at Semantic World conference.
Revelytix will present "Ontologies for Everyman" at the 2006 Semantic World conference. The Revelytix Semantic Wiki showcase illustrates ... more

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Ontology Page

Tabs to view, edit, discuss, see history, view RDF

Ontology information

Dependencies on other ontologies *(hyperlinked if resolved)*

Page contents

Actions

Documentation, defined by wiki markup language

List of classes and properties in ontology

Ontology Class Page

Tabs to edit, discuss, history, view RDF, and see instances

Documentation, defined by wiki markup language

Annotations on this class

Page contents

Dependencies on other ontologies
(hyperlinked if resolved)

More at the bottom of the page …

Internet Application

- Used by anyone with a web browser and network access

- Registered users can
  - Log in and set up preferences for custom experience
  - Create and join communities
  - Edit, contribute and publish content (if privileged)
  - Subscribe to news readers and feeds (RSS/Atom)

- Semantic Wiki
  - A wiki is a website that can be edited by users through their browsers
  - Captures the efforts of many over time
  - Adds semantic richness to wiki markup language

- Applications and mashups can
  - Use as semantically-rich registry/repository of semantics
  - Use REST API and submit SPARQL queries

- Deployment options
  - Software as a service (SaaS)
  - Behind-the-firewall

Basic Concepts

- When reading, Knoodl.com appears like any other website
  - Public content can be indexed by search engine crawlers

- Communities own all ontologies and documents
  - Ability to change or publish content is managed by community
  - Ontologies are licensed by COI's, open source metaphor

- Ontologies are represented as a set of pages
  - Separate page for each class, property, and individual
  - All known (asserted and inferred) characteristics are shown
  - Pages are hyperlinked together
  - Each page has an area for any documentation or content
  - The pages describing an ontology can be published (copied) for future reference and made available for download as .owl or .rdf files
  - Users can edit or view history of any page

- Wiki markup language
  - Allows users to edit the content of a page, with sections, lists, tables, …
  - Enables linking to other pages or to pages on other websites