

OWL: Experiences and Directions OWLED 2009

Welcome!

OWLED Series

- OWLED 2005, Galway, Ireland
 - Proposed OWL 1.1 member submission
- OWLED 2006, Athens, GA, USA
 - Decision to initiate a W3C working group
 - First implementations of OWL 1.1 extensions
- OWLED 2007, Innsbruck, Austria
 - Start of the W3C OWL Working Group
 - Start of taskforces, http://www.webont.org/owled/taskforces/
- OWLED 2008DC, Washington, USA
 - Start of Wiki, http://wiki.webont.org/
- OWLED 2008EU, Karlsruhe, Germany
 - Discussion of extensions beyond OWL 2 (description graphs)
- OWLED 2009, Washington, USA
 - OWL 2 will be a W3C Recommendation (very) soon.

OWLED Series

- Community event
 - Users, developers, industry
- Interaction
- Think about:
 - Future of OWL session
 - Business Meeting
 - Steering Committee member
 - OWLED 2010: Where, when, what and how
- Scribe for Future of OWL and Business Meeting
 - To be put on the wiki (http://wiki.webont.org/)

Quick Overview

- Wireless Conference Code: 03DBE7
- Workshop website http://www.webont.org/owled/2009
- Schedule http://www.webont.org/owled/2009/schedule.html
- Papers
 http://www.ceur-ws.org/Vol-529/
- Posters and/or demos
- Registration includes breakfast, lunch and dinner (Fairfax Dining Room)

Day 1

Session 1 – Tools break	09:15-10:30
Session 2 – Extensions to OWL	11:00-12:30
Iunch Session 3 – Extensions to OWL (cont'd) break	13:30-15:00
Session 4 – Extensions to OWL (cont'd) Session 5 – The Future of OWL	15:30-16:00 16:00-17:30
Dinner	19:00-21:00

Day 2

Session 1 – OWL Full and Rules (and ICs)	09:00-10:30
break	
Session 2 – Experiences	11:00-12:25
lunch (only 45 minutes!)	
Session 3 – Experiences, Queries and DB's	13:15-14:50
break	
Session 4 – Change, Time and Visualization	15:15-16:25
Session 5 – OWLED Business Meeting	16:25-17:00

The Future of OWL

Interactive Session

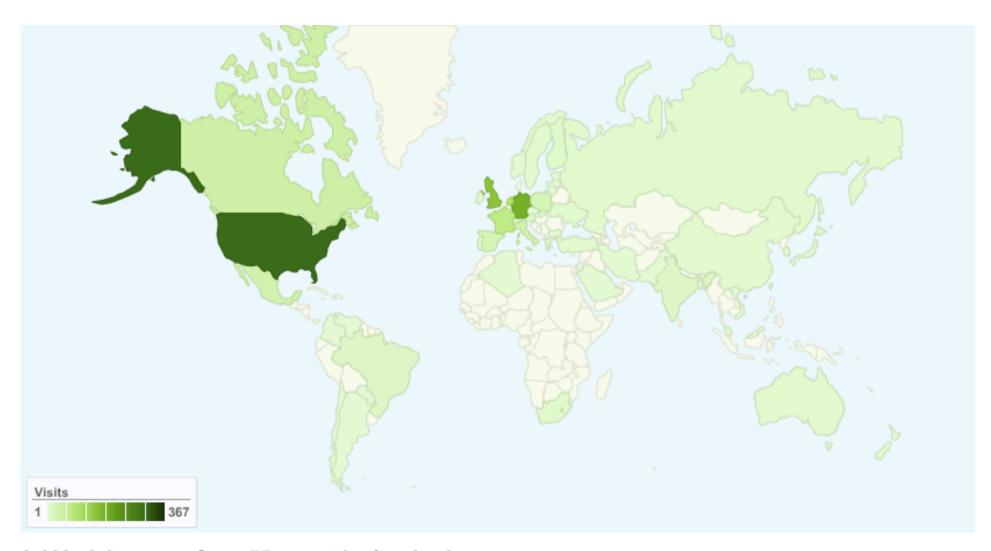






"You're all individuals! You're all different!"





1,410 visits came from 55 countries/territories



Session Setup

- Deciding on topics
- Breakout
 - Groups
 - Until approx. 5pm
- Presentation & Discussion
 - Wrap up

Taskforces

- Specifications
 - SPARQL/OWL
 - Rich Annotations
 - OWL/Controlled NL
- Reports
 - DL Safe SWRL Rules
 - Imports management
 - Databasesque features
 - Syntaxes with macros
 - Uncertainty and OWL
 - Education
 - User Requirements

- Requirements collected,
- Resources gathered,
- Progress was made...

See http://wiki.webont.org

Pseudo-Random Quotes

"FWIW, I think the taskforce idea failed miserably." — Anonymous

"[...] people are going to do what they're going to do, pretty independent of what we all say at OWLED..." — Anonymous

"Lie low for a while!" - Anonymous

Beyond OWL 2, OWL 3, OWL 4, ...



Image courtesy of Naturalis

The Future of OWL 2



OWL 2

- Expressiveness
 - Role chains
 - Class restrictions
 - Property types
 - Datatypes
- Syntactic sugar
- New syntaxes
 - Functional vs. Abstract Syntax
 - OWL/XML syntax (+GRDDL), Manchester Syntax
- Changes under the hood
 - Structural Specification
 - Well designed Direct and RDF-Based semantics
 - Annotations
- Language Profiles

Maximizing OWL 2 Take-up

- Prospective users, domains
 - Industry
 - Government
 - **—** ...
- Tools, Reasoners, Stores
- Showcases
- Outreach material
- ... don't forget the competition!

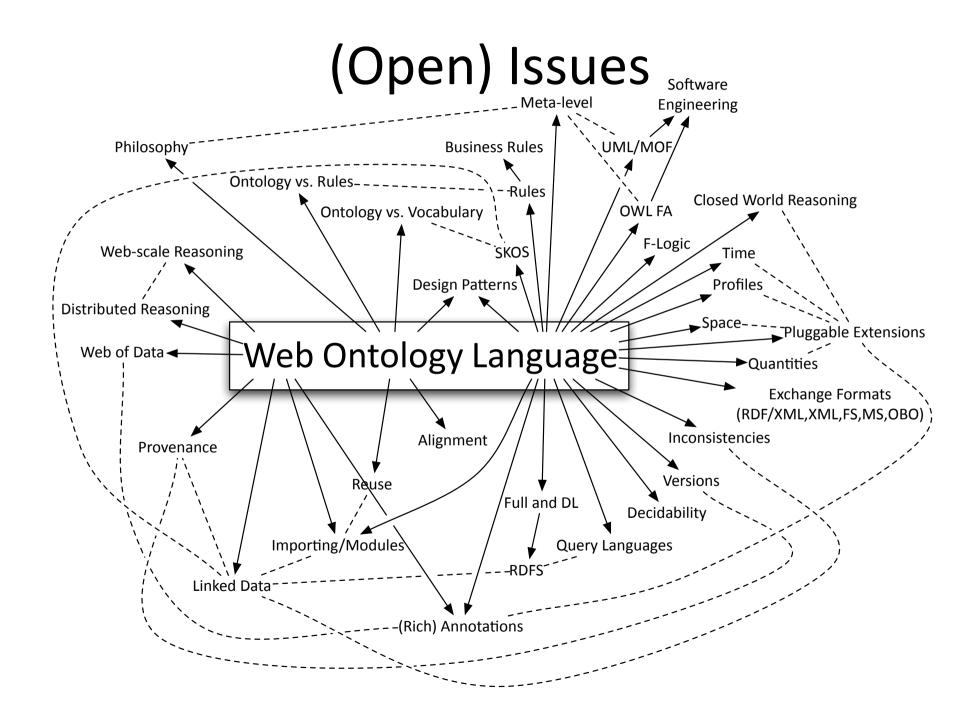


Playing The Devil's Advocate

- Where's the Web in OWL? Where's the Ontology in OWL?
 - "OL" or "WL"
- OWL DL and OWL Full
 - "OWLDLED"
 - "OWL is a description logic"
- OWL and Rules
 - "Rules are just more intuitive"
 - "People think in rules"
- OWL and Philosophy
 - "OWL is philosophically flawed"
- OWL 2 DL and reasoning
 - "Decidability is hugely overrated"
 - "Consistency does not exist on the web"
 - "OWL reasoners even die on very small knowledge bases"
 - "I only need part of OWL, so why implement a fully OWL compliant reasoner"
- Expressiveness
 - "OWL is not expressive enough for my needs"
 - "OWL is way too expressive, no-one will ever need that"
 - "The only useful addition of OWL to RDF is owl:sameAs"

Example Message OWL 2 DL and OWL 2 Full





Just a List

- Deploying OWL 2
 - Increasing "market share" for OWL 2
 - Government, Industry
 - Software engineering, Business rules
- Connecting OWL 2 to other initiatives
 - LOD, SKOS, RIF
 - Possible profiles (e.g. OWL FA, ELP)
- Ways to extend OWL 2
 - (... OWL 2+, OWL 2.1, OWL 3)
 - Probabilistic, Spatial, Temporal reasoning, Modules
 - Extended DL semantics (e.g. ManMan, role composition)
 - Special syntaxes (SROIQ rules, DL-safe rules, Controlled NL)
- Creating and using OWL 2 ontologies
 - Tools, patterns, explanation, tutorials
 - Repositories
 - Provenance, versions, modules