



“ Platypus Wiki ”

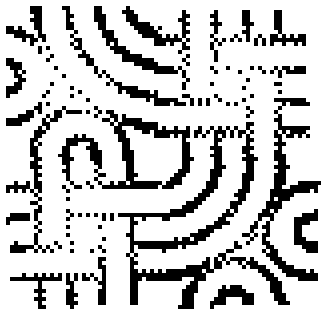
The Semantic Wiki Wiki Web

Stefano Campanini, Paolo Castagna and Roberto Tazzoli

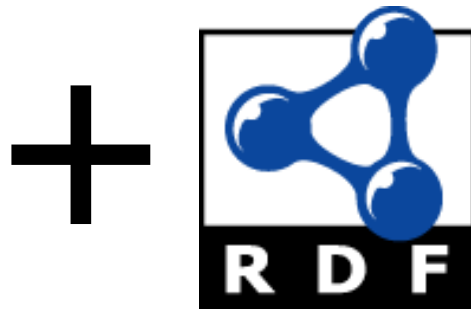
3rd International Semantic Web Conference (ISWC 2004)
7-11 November 2004
Hiroshima, Japan

Semantic Wiki Wiki Web

- A Semantic Wiki Wiki Web, or Semantic Wiki for short, is a Wiki improved by using Semantic Web standards and technologies.
- A Semantic Wiki uses RDF and OWL to represent metadata and links among wiki pages.



Wiki Wiki Web



Semantic Web



Platypus Wiki

Wiki Wiki Web

- Ward Cunningham is the father of Wiki Wiki Web idea
- *Wikiwiki* = quick
- From hierarchies to graphs

“ The simplest online database
that could possibly work. ”

— Ward Cunningham



“ The Semantic Web provides a common framework that allows **data to be shared and reused** across application, enterprise, and community boundaries. ”

— Semantic Web Activity, W3C
<http://www.w3.org/2001/sw/>





Platypus Wiki

The Semantic Wiki Wiki Web

- The simplest solution that allows Wiki Wiki Web data to be shared and reused across Semantic Web.
- Features:
 - It's a Wiki Wiki Web
 - No more *WikiWords*: site, namespace and page links instead
 - namespace:pagename links
 - XHTML for content
 - Every wiki page has metadata in RDF
 - RDF properties used to build navigation menus
 - Full text search and metadata search
 - Urlability: `http://.../namespace/pagename?a=actionname`
 - Shared content and metadata can be reused
 - Written in Java, runs under Windows, Linux, Mac OS X, UNIX
- Why the name Platypus?

“ The platypus is a strange animal. On the average about fifty centimetres long, and roughly two kilos in weight, its flat body is covered with a dark-brown coat; it has no neck and a tail like a beaver's; it has a duck's beak, bluish on top and pink beneath; it has no outer ears, and the four feet have five webbed toes, but with claws; it stays underwater (and eats there) enough to be considered a fish or an amphibian. The female lays eggs but 'breast-feeds' her young, even though no nipples can be seen (the male's testicles cannot be seen either, as they are internal) ”

— Umberto Eco, “Kant and the Platypus”, pag. 58



Made in Free Time as Free Software

- Platypus Wiki is an ongoing open source project started on 23th December 2003. The project is hosted on SourceForge and licensed under a free software license.
- We strongly believe in collaboration, free software and Semantic Wiki Wiki Web.
- Many thanks, in random order, to: Ward Cunningham, Laurian Gridinoc, Stefano Mazzocchi, Mike Hammersley, Francesca D'alfonso, Eric True, Jamie Pitts, Andrea Fabretto, Francesco Regazzoni, Lara Marinelli, Giovanni Tummarello, Rekha Raghu, colleagues, (ex)colleagues and, last but not least, our girlfriends... Katia, Manu and Giulia! :-)

Related Projects

- SIMILE Longwell –
<http://simile.mit.edu/longwell/>
- Haystack –
<http://haystack.lcs.mit.edu/>
- Chandler –
<http://www.osafoundation.org/>
- DBFS –
<http://ozy.student.utwente.nl/projects/dbfs/>
- Google, codename “Puffin” == Google Desktop –
<http://www.google.com/search?q=Google+Puffin>
- Microsoft Longhorn and WinFS –
<http://msdn.microsoft.com/longhorn/>
- Apple Tiger and Spotlight –
<http://www.apple.com/macosx/tiger/spotlight.html>
- Xanadu –
<http://www.xanadu.com/>



Ideas for the future

- Automatic classification using Bayesian Networks
- Search full text using Latent Semantic Indexing
- Integration with Annotea system
- Wiki ontology
- Import/export ontologies
- Integration with email, address book, bookmark, calendar, file system, ...
- P2P infrastructure
- Source code refactoring
- Pytypus Wiki: move further up using Python
<http://sourceforge.net/projects/pytypus/>



Pytypus Wiki

- TBC





Contacts


- Platypus Wiki Homepage
<http://platypuswiki.sourceforge.net/>
- Platypus Wiki Project Summary on SourceForge
<http://sourceforge.net/projects/platypuswiki/>
- Pytypus Wiki Project Summary on SourceForge
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