

NRCC's Semantic Web Software & Tools

Semantic Web Toolkit "Wilbur"

Open-source toolkit written in CLOS.

Wilbur features a main-memory *triple-store*, *parsers* for RDF, OWL, DAML+OIL and XML, an *HTTP client*, an *RDF(S) reasoner* (with extended features from OWL), and a path-based *query language* "WilburQL".

Semantic Web Browser "OINK"

Lightweight and simple, OINK turns RDF graphs into browsable hypertext. It can visualize any data, even without an associated schema, but will do a much better job if the schema is known.

OINK is built on top of Wilbur; it will eventually become part of the Wilbur open-source distribution.

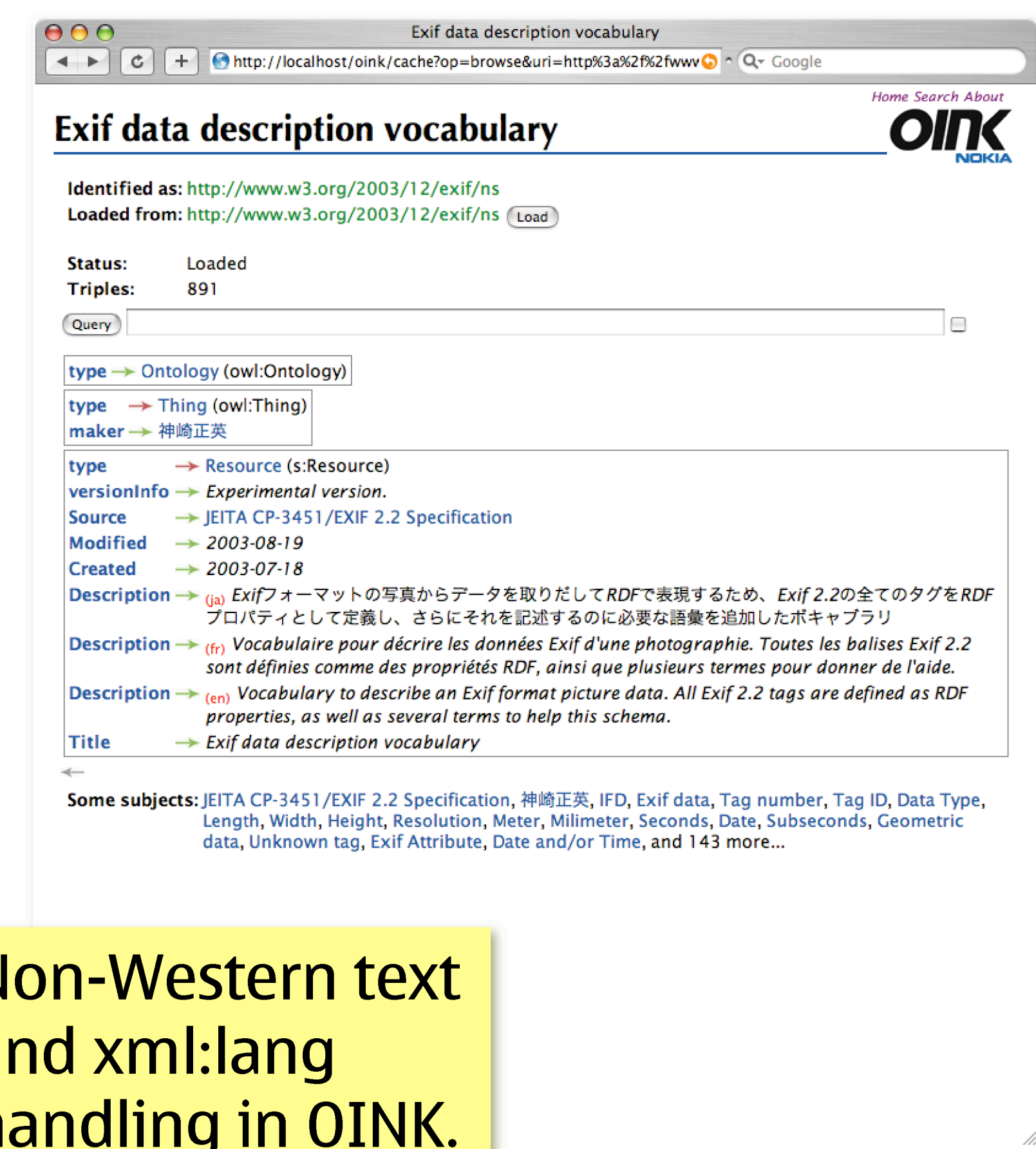
OINK's plug-in framework allows custom rendering of selected classes; a Web service API enables external control.

Ongoing Development

In collaboration with Oracle, we are integrating Wilbur (and OINK) with the Oracle 10g RDF Data Model. We are also collaborating with MIT vis-à-vis other efforts to do "Semantic Web browsing" (e.g., Tabulator, Haystack, Piggy-Bank).



OINK will adapt to devices with limited capabilities.



Non-Western text and xml:lang handling in OINK.

More information about Wilbur, its query language and reasoner:

O.Lassila: "*Enabling Semantic Web Programming by Integrating RDF and Common Lisp*", Proc. 1st Semantic Web Working Symposium. Stanford, 2001

O.Lassila: "*Taking the RDF Model Theory out for a Spin*", Proc. ISWC 2002

Web sites:

<http://wilbur-rdf.sourceforge.net/>

<http://wiki.nrcc.noklab.com/SwapMe/OINK>

<http://www.lassila.org/blog/>

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