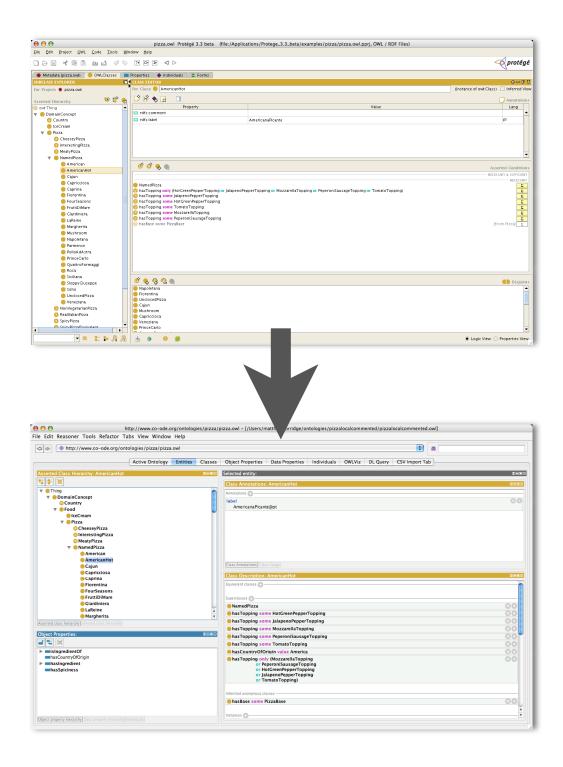


The Protégé 4 OVL Editor

Matthew Horridge and Colleagues

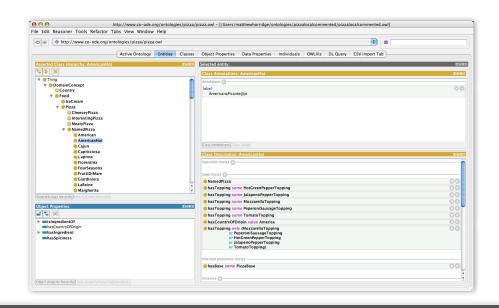


The University of Manchester





OWL Editor Architecture



Tools: Species validation, Change history, Debugging

Ontology Management

Reasoners

OntologyFactories

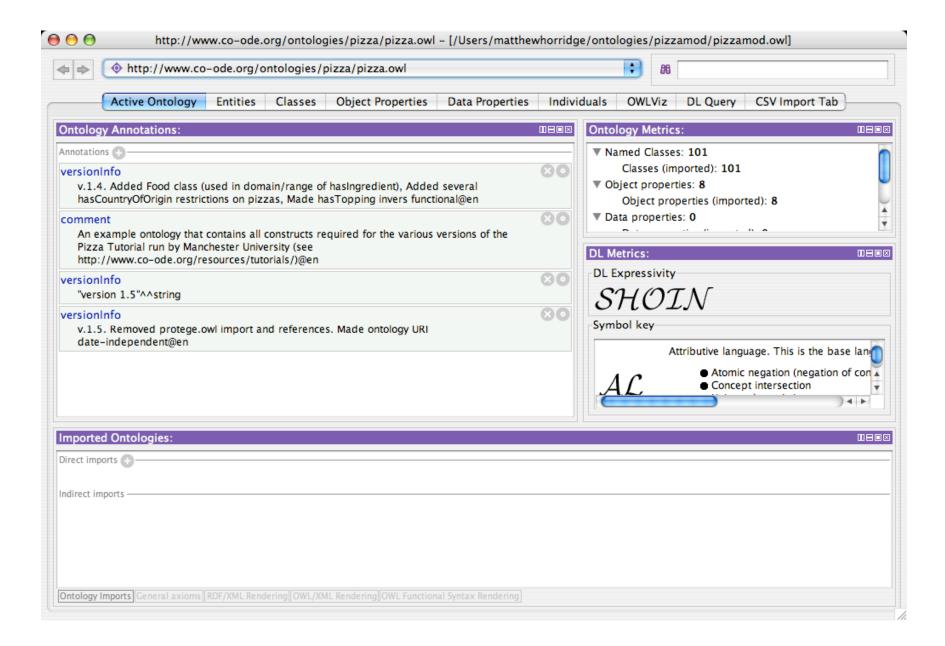
OntologyStorers

ParserRegistry

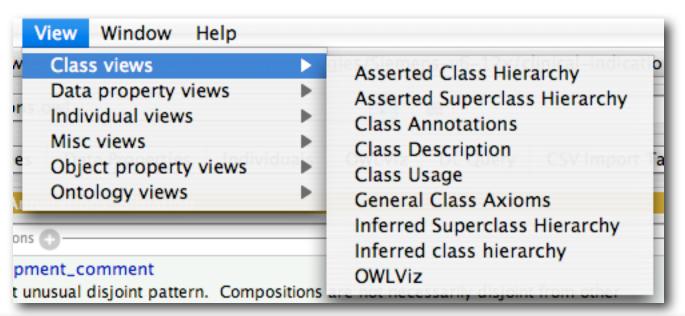
RendererRegistry

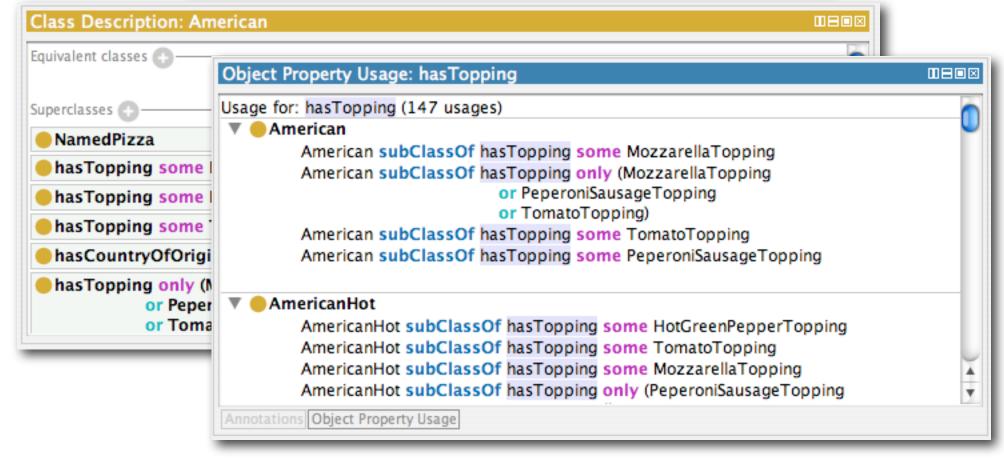


Protégé 4 UI

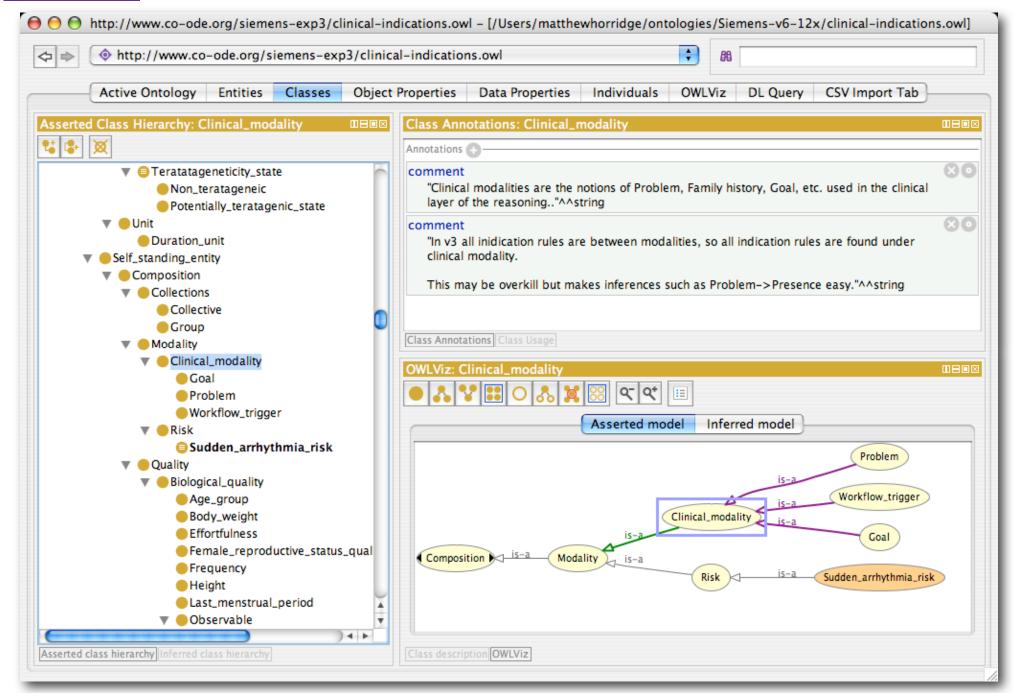




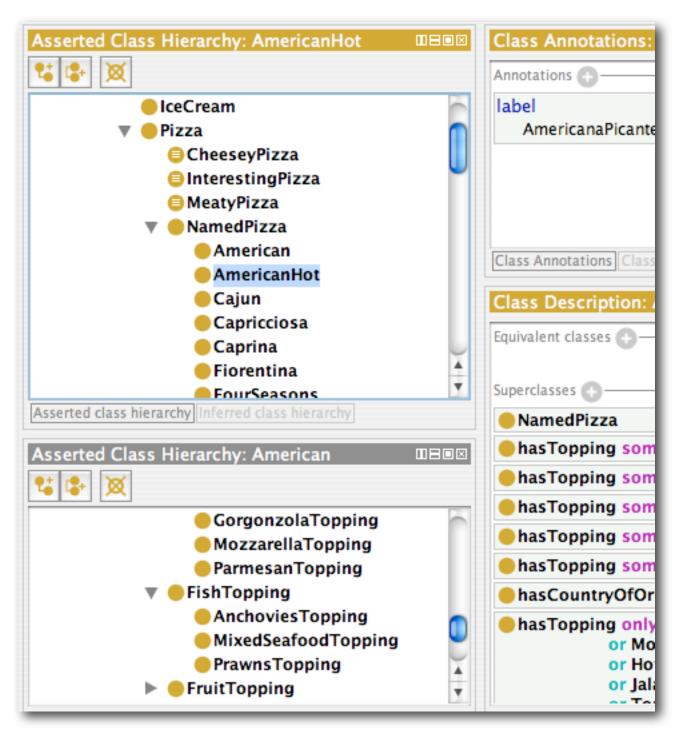




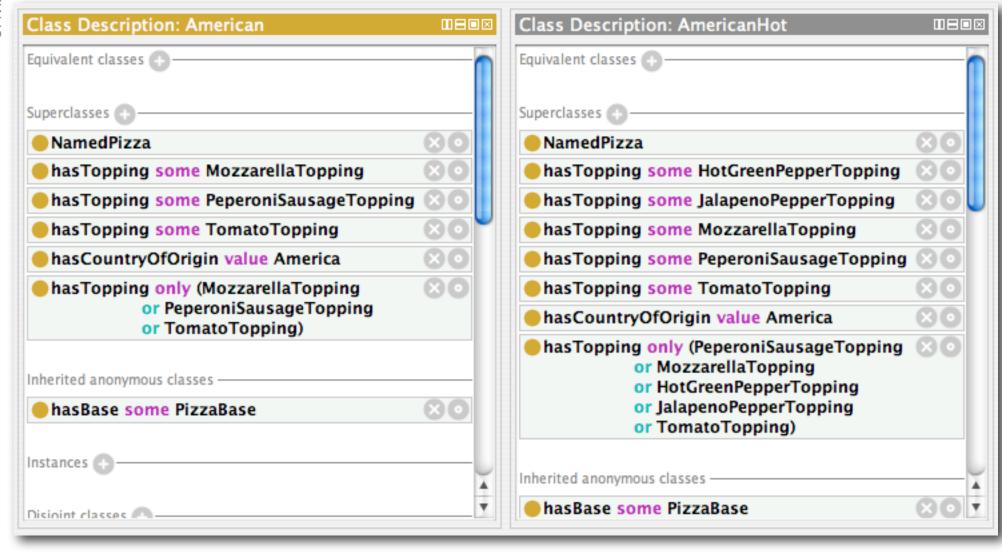








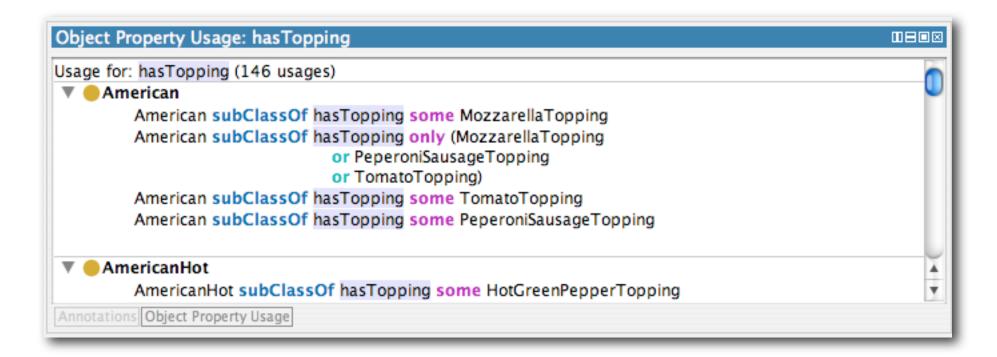




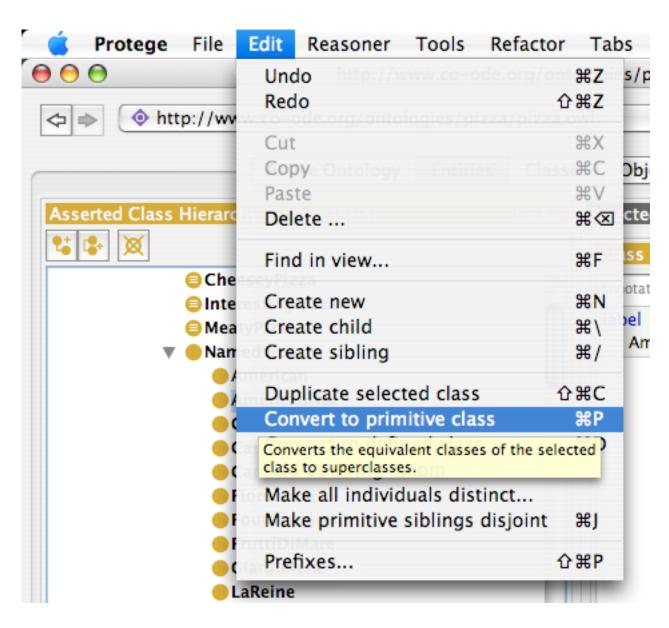


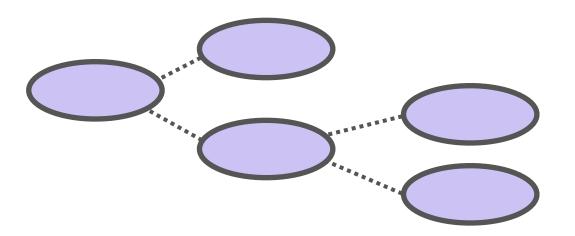
Navigation

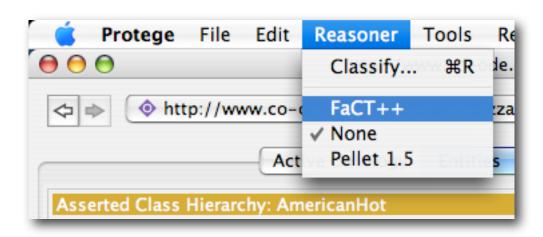
hasTopping only (MozzarellaTopping or PeperoniSausageTopping or TomatoTopping)



Plugins

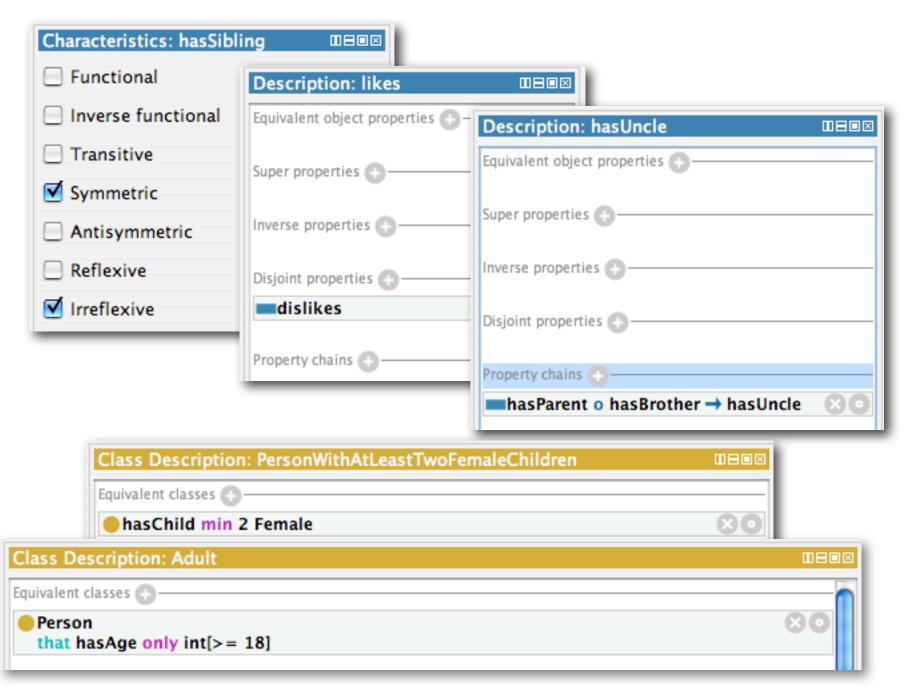








OWL I.I



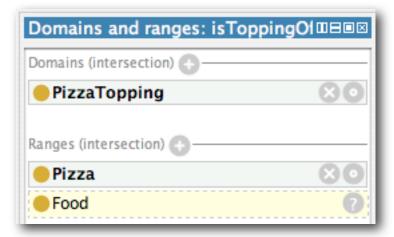


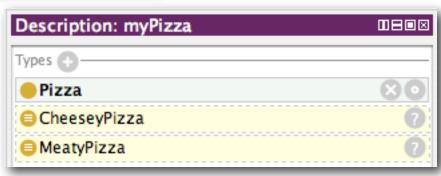
MANCHESTER 1824

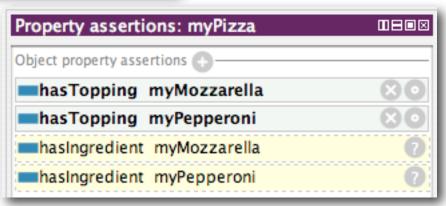
Asserted vs. Inferred

Class Description: AmericanHot	
Equivalent classes 🕕	n
	-
Superclasses (+)	
NamedPizza	×0
hasTopping some HotGreenPepperTopping	80
hasTopping some JalapenoPepperTopping	⊗⊙
hasTopping some MozzarellaTopping	⊗⊙
hasTopping some PeperoniSausageTopping	80
hasTopping some TomatoTopping	80
hasCountryOfOrigin value America	80
hasTopping only (PeperoniSausageTopping or MozzarellaTopping or HotGreenPepperTopping or JalapenoPepperTopping or TomatoTopping)	⊗⊙
⊜ CheeseyPizza	0
■ InterestingPizza	7
■ MeatyPizza	7
■ SpicyPizza	7
■ SpicyPizzaEquivalent	?



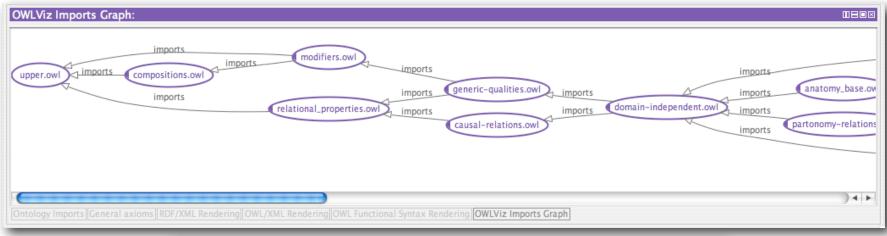


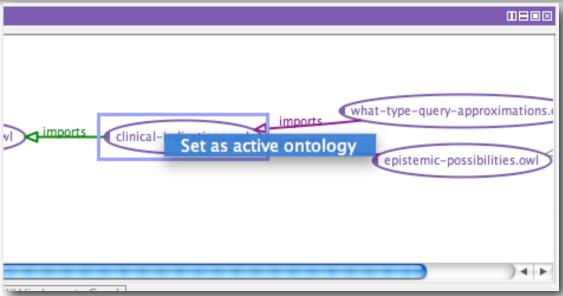




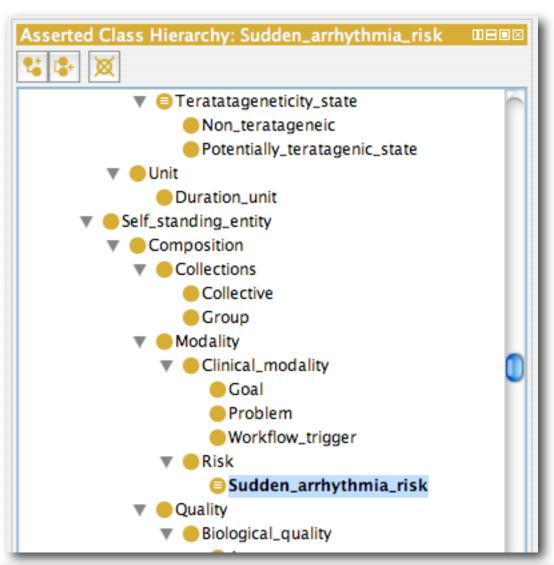


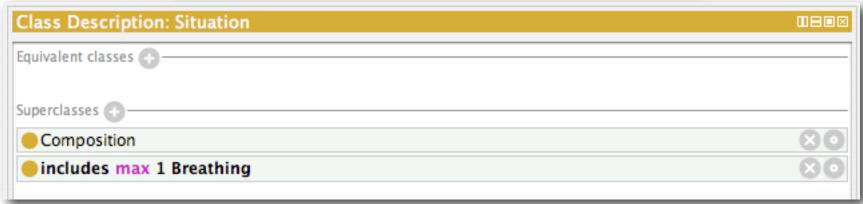
Working with Multiple Ontologies



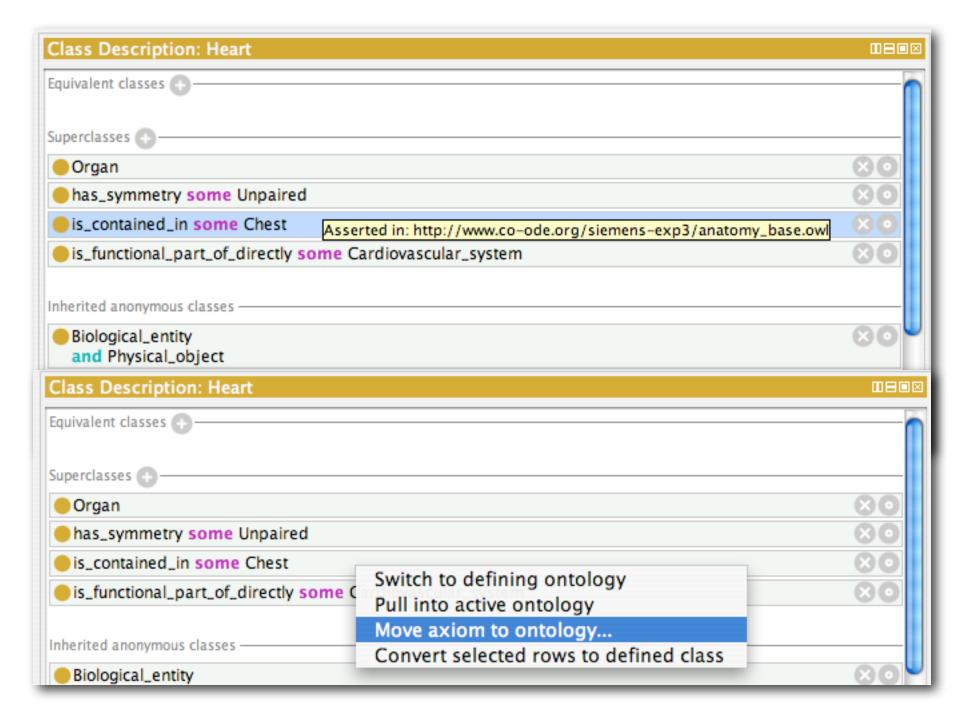










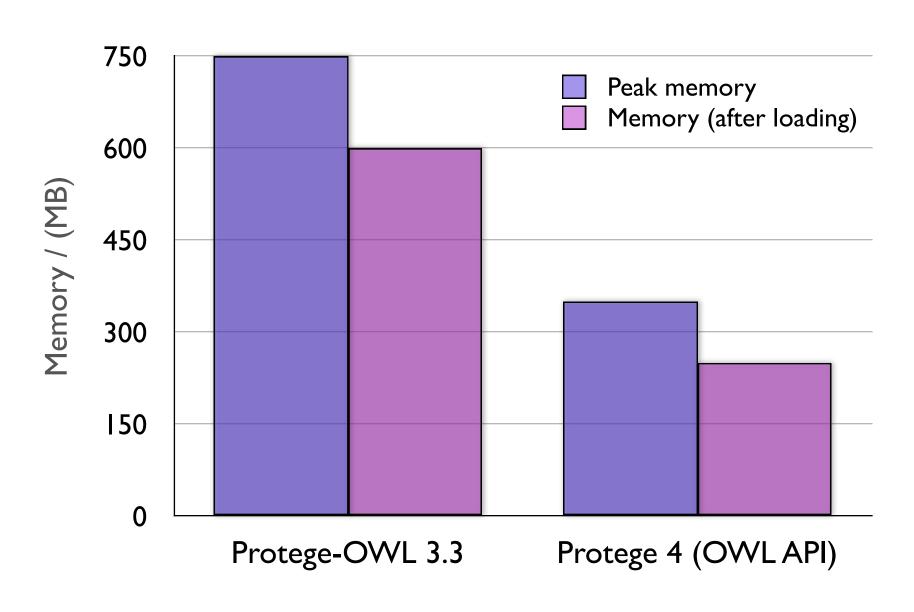




Performance

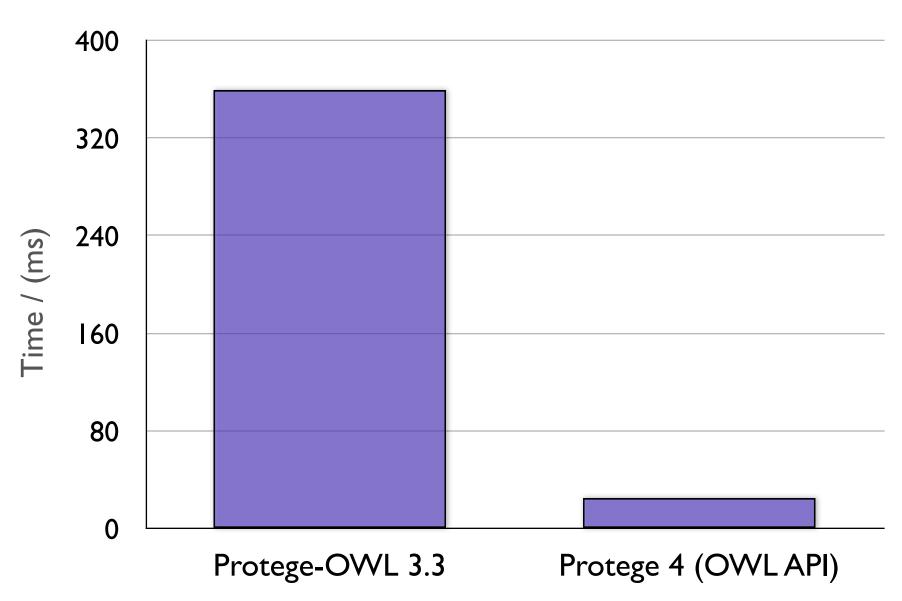


NCI Thesaurus: Memory Required to load from RDF/XML





NCI Thesaurus Load Time



Conclusions

- New architecture, with a "Native" OWL API
- Flexible dynamically configurable GUI
- Large performance improvements

Resources

http://protege.stanford.edu/download/registered.html#p4

http://www.co-ode.org

http://owlapi.sourceforge.net

http://www.webont.org/owl/1.1/