

The CO-ODE Tools for Protégé-OWL

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We present the CO-ODE toolset in the form of a poster/demo. The CO-ODE and HyOntUse projects¹, which are based in the Medical Informatics Group at the University of Manchester, have been producing ontology tools in the form of plugins for Protégé-OWL. The tools support the visualisation, browsing, creation and editing of OWL ontologies. The poster/demo will showcase these tools, enabling conference attendees to see the latest tools, provide feedback and discuss requirements for existing and future tools. Some of the tools that will be presented are outlined below.

- **OWLviz** – enables the class hierarchies in an OWL ontology to be viewed graphically and incrementally navigated. It allows the *asserted* and *inferred* class hierarchies to be compared, highlighting inconsistent classes as well as changes caused by automatic classification.
- **OWLDoc** – generates Javadoc style html documentation for OWL ontologies that can be viewed in any web browser. Classes, properties and instances appear as hyperlinks, enabling users to quickly navigate and examine large ontologies.
- **OWLWizards** – automates several common modelling tasks, reducing the effort and minimising potential errors involved in completing these tasks. The wizards also encourage good modelling style and support some of the recommended ontology design patterns from the W3C Semantic Web Best Practices Working Group.
- **Class Description Editor** – presents the description of an OWL class in a syntax where description logic symbols are replaced with more natural keywords. The editor features pretty printing of class expressions, syntax highlighting, auto-completion, error highlighting and also some simple intermediate representations for certain OWL constructs.
- **OWLDebugger** – a new tool that will soon be released for download. The OWL debugger helps users to track down the reasons for OWL classes being inconsistent.

¹<http://www.co-ode.org>