

# Protégé Conference Poster Submission

## Visualisation of Ontological Change

Benjamin Blundell, Steve Pettifer, Matthew Horridge

April 7, 2005

Building on the poster submission at the last International Protégé Conference, we present the next generation of visualisation tools dubbed DAITO (Difference Analysis Imagery in Taxonomies and Ontologies). Our novel approach to understanding and consolidating change includes not only the finished "product" but also the approach to the design of such a product, complete with a review of current visualisations.

Our framework is currently under review by the InfoVis 2005 Panel for inclusion. The poster briefly details the framework and the requirements derived from applying the framework to the problem of ontology change understanding. Secondly, our proposal to satisfy these requirements is discussed. Issues such as the layout algorithms for retaining the users mental map, to Gestalt theories of animation to using navigational behavioural aids to enhance mental model construction are identified.

Working alongside the CO-ODE project, DAITO aims to build on OWLViz, the premier visualisation tool to date. Our requirements and analyses have been strengthened by performing user studies alongside the members of the CO-ODE project. We present the relevant results of these studies alongside the formal requirements.

In addition to the poster, we would like to present a short demo at the stand in a similar vein to the previous Protégé conference.

**Benjamin Blundell**  
**Room 2.102 The Kilburn Building**  
**The School of Computer Science**  
**Manchester University**  
**United Kingdom**  
**M13 9PL**  
**[blundell@cs.man.ac.uk](mailto:blundell@cs.man.ac.uk)**  
**<http://aig.cs.man.ac.uk>**  
**<http://www.co-ode.org>**