Hackathon Project: Ontohub consolidation

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Ontohub

Ontohub: web-based repository engine for distributed heterogeneous (multi-language) ontologies

- prototype available at ontohub.org
- mid-term goal: follow the OOR architecture and API

Current status:

- Mirrors of important repositories: BioPortal, Tones, COLORE, CoCOP
- used as repository for the FOIS competition
- used as tool for OMG standard OntoIOp/DOL (see ontoiop.org)
- central new feature: git integration
  - git versioning available
  - any git client and the web front-end can be use in parallel
Results of Hackathon

- 10 participants (9 local, 1 remote who was new to Ontohub!)
- Consolidation of Ontohub
- Closed the “FOIS competition” milestone

Resources

- Web portal at ontohub.org
- issue tracker at github.org/ontohub/ontohub/issues
- Wiki at wiki.ontohub.org
20 repositories currently available

- **Bioportal**  Mirror of http://bioportal.bioontology.org/ with all ontologies below 5 megabytes.

- **CASL basic libraries**  CASL basic libraries, see http://www.cofi.info The CASL basic libraries have been developed with two main purposes in mind: on the one hand, they provide the user with a handy set of off-the-shelf specifications to be used as building blocks in the same way as library functions in a programming language, thus avoiding continuous reinvention of the wheel. On the other hand, they serve as a large reservoir of example specifications that illustrate both the use of CASL at the level of basic and structured specifications. The basic libraries are part of the CASL reference manual.

- **coinvent_meeting**

- **CoinventTechRepo**  For tech experiments in the Coinvent project. This will contain a lot of test cases and auto-generated dross. Not really for human consumption!

- **COORE**  Mirror of the Common Logic Repository at http://colore.oor.net

- **coloce4**  test, COORE with only algebra, magma and ringoid

- **Conceptportal**  Conceptportal is a repository for the collection of micro concepts that will be used for blending experiments within the EU FP7 project COINVENT. This theory repository will be also populated with (common sense) ontologies in particular from the mathematics and music domains that shall be used to support and enrich the blending process.
## File browser

In this page, you have direct access to the file system where the repository is stored. Below is the list of files in the current directory, independent of whether they contain ontologies or not. In order to find a particular file, you can navigate through the file system.

<table>
<thead>
<tr>
<th>Ontology Name</th>
<th>File Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amphibian Gross Anatomy Ontology</td>
<td>AAO.obo</td>
</tr>
<tr>
<td>Allen Brain Atlas (ABA) Adult Mouse Brain Ontology</td>
<td>ABA-AMB.owl</td>
</tr>
<tr>
<td>Acgt-mo</td>
<td>ACGT-MO.owl</td>
</tr>
<tr>
<td>Alzheimer's disease ontology</td>
<td>ADO.owl</td>
</tr>
<tr>
<td>Unnamed</td>
<td>ADW.owl</td>
</tr>
</tbody>
</table>
Colore

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```
Colore / ontologies

- algebra
- approximate_point
- arithmetic
- between
- between_quaternary
- betweenness_bundle
- bipartite_incidence
- boxworld
- cardworld
- cimosa
- combinatorial_magma
- combined_time
- commonsense_psychology
- contact_algebras
- cyclic_arithmetic
```
Amino-acid OWL

Ontology defined in the file bioportal/AMINO-ACID.owl
http://ontohub.org/bioportal/AMINO-ACID

An ontology of amino acids and their properties. Inferred version.
Colore

History

The version history of this repository is maintained by the Git version control system.
Below you have access to the history of changes committed to this repository as well as to any particular past version of it.

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Author</th>
<th>Commit ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.12.2013</td>
<td>fixed typo</td>
<td><a href="mailto:carmenschui@gmail.com">carmenschui@gmail.com</a></td>
<td>2c29959</td>
</tr>
<tr>
<td>26.11.2013</td>
<td>updated software measurement ontology files</td>
<td><a href="mailto:carmenschui@gmail.com">carmenschui@gmail.com</a></td>
<td>867a437</td>
</tr>
<tr>
<td>25.11.2013</td>
<td>updated kif to clif translation of standard-units and...</td>
<td><a href="mailto:carmenschui@gmail.com">carmenschui@gmail.com</a></td>
<td>c6ed815</td>
</tr>
<tr>
<td>25.11.2013</td>
<td>new theories in bipartite incidence</td>
<td>michael.gruninger</td>
<td>011c523</td>
</tr>
<tr>
<td>25.11.2013</td>
<td>new theories in incidence bundle</td>
<td>michael.gruninger</td>
<td>b92f830</td>
</tr>
<tr>
<td>25.11.2013</td>
<td>new theories in incidence foliation</td>
<td>michael.gruninger</td>
<td>98532b1</td>
</tr>
</tbody>
</table>
Colore

File browser

In this page, you have direct access to the file system where the repository is stored. Below are the contents of the file presented as text as well as its path relative to the repository home directory. If you want to see the contents of this file as ontologies, click on the ontology links above the text box.

ontologies/algebra/vectorspace.clif

```cl-text
(cl-text http://colore.oor.net/algebra/vectorspace.clif)
(cl-imports http://colore.oor.net/ringoids/field.clif)
(cl-imports http://colore.oor.net/magma/abelian_group.clif)
(forall (r x y)
    (= (mult r (op x y)) (op (mult r x) (mult r y))))
(forall (r s x)
    (= (mult (sum r s) x) (op (mult r x) (mult s x))))
(forall (r s x)
    (= (mult (prod r s) x) (mult r (mult s x))))
(forall (x)
    (= x (mult one x)))
```

You are now in editing mode and may change the text directly in the text area on the left. To save the changes, simply add a brief description as a commit message and click the commit button below.

If someone else is editing the same file simultaneously only one of the changes will be saved.

* Message

Commit Discard
Categories

Click on a category to list the contained ontologies.

- AgricultureForestryFishesVeterinary (20)
- Arts and humanities (1)
- Business administration and law (0)
- Education (0)
- Engineering manufacturing and construction (7)
- Health and welfare (108)
- Information and Communication Technology (0)
- Natural science mathematics and statistics (182)
  - Biology broad (168)
  - Environment (0)
  - Mathematics and statistics (2)
  - Physical science (12)
- Services (0)
- Social science journalism and information (6)
- Space Time and Process (87)
- Standard method and research technique (9)