Semantics session summary

IVOA interoperability meeting
Naples 2011 May 20

Vocabularies

- Developing vocabularies for SimDB
  - PoolParty : easy to build vocabularies
  - Export to SKOS/RDF
  - Mailing list for VOTheory & Semantics
  - Use CamelCase syntax for concepts
  - Vocabularies and ontologies : pre-coordination
  - See KDD for semantics of algorithms
- Long term access to vocabularies and versions
  - Vocab terms are not versioned, but vocab is !
  - Register vocabularies -> see IVOA doc coord.

Semantic annotations

- AstroDabis project
  - Store xmatch results
  - OGSA-DAI + LOD + TAP
- Prototype to add contents to Web page
  - Using microformat-like syntax
  - Adding JS in the HTML header can :
    - retrieve & integrate remote information
    - add SAMP capabilities
- How to provide them : RDFa, microformats...
- Share existing code, try automated annotations

Units

- Update IVOA architecture for units, based on comprehensive search in all documents
    - send comments to all PR / RFC docs

- Comparison of units in main references

    - IAU style manual, section 5.1, 1989
      http://www.iau.org/static/publications/stylemanual1989.pdf

    - OGIP memo OGIP/93-001, 1993
      ftp://legacy.gsfc.nasa.gov/fits_info/fits_formats/docs/general/ogip_93_001/ogip_93_001.ps

    - Standards for Astronomical Catalogues, Version 2.0, section 3.2, 2000 http://cdsweb.u-strasbg.fr/doc/catstd-3.2.htx

    - FITS v3.0, section 4.3, W.D. Pence et al., A&A 524, A42, 2010

Units

- May 2011 : update « Units in the VO » document to v0.4 including
    - Units in the IVOA architecture
    - Comparison table
    - Proposal for non-controversial units
- June 2011 :
    - get feedback
    - compare proposal to existing implementations
    - take decision on problematic issues (open dedicated wiki page for discussion)

Units

- July 2011
    - move to PR, start Rec process
    - develop new reference implementations, possibly based on existing libraries + new BNF

Long term URIs

- Shared issue with DCP