

DS5 - Intelligent Resource Discovery

CDS review on Stage01

Finalize UCD1+

- Tools for UCD1+ available
 - presented at Kyoto IVOA interop meeting
 - WS access
- UCD1+ standard as IVOA Recommendation
- UCD1+ vocabulary currently PR

UCD1+ tools

- A set of tools has been developed:
 - Ease transition from UCD to UCD1+
 - Manipulate UCD1+
- Tools available as CGI scripts and Web Services
 - <http://vizier.u-strasbg.fr/UCD/tools.htx>
 - <http://cdsweb.u-strasbg.fr/cdsws/ucdClient.gml>

translate

- Translate a UCD1 into the default UCD1+
- For data providers who already use UCD1

translate

Translate a UCD1 into the default corresponding UCD1+ :

Clear

PHOT_JHN_V

Translate

validate

- Check if a UCD1+ is correctly written
- Possible actions depending on the return status

validate

Check if a UCD1+ is valid :

Clear

pos.pm;ivoa:pos.eq.ra

Validate

The first word of the result is an error code, possibly followed by an explanation of the error. This function will return 0 if the UCD1+ is fully valid.

The error-code results from the combination (logical OR) of the following values:

- 1: warning indicating use of non-standard namespace (not ivoa:)
- 2: use of deprecated word
- 4: use of non-existing word
- 8: syntax error (extra space or unallowed character)

Example: an error-code value of 10 will indicate the use of a deprecated word and a syntax error.

upgrade

- Convert deprecated UCD1+ to the new recommended expression
- Useful to take into account changes in vocabulary

upgrade

The official UCD1+ words have sometimes undergone changes. This function will upgrade deprecated words within a UCD1+ (causing error-code 2 in validate) to their currently valid expression :

Clear

pos.gal.lat

Upgrade

explain

- Returns explanation for a given UCD1+

explain

This tool gives a plain-text explanation for a UCD1+ :

Clear

pos.eq.dec;meta.main

Explain

assign

- Returns a UCD1+ corresponding to a plain text description (difficult job!)

assign

Find a UCD1+ corresponding to a description :

Clear

proper motion in right ascension

Assign

Ontology of object types

- CDS+INAF collaboration
- Lessons learned from Protege 2005 (july, Madrid) conference for good practice in ontology construction
 - open world assumption
 - ontology validation

Ontology of object types

- Relies on SIMBAD object types
 - improve object hierarchical structure description
 - link between object types and wl/frequency domain
- Obvious links with UCDs, IAU thesaurus
- Deliver OWL files before TAP meeting !



CLASS BROWSER

For Project **simbad101**

Asserted Hierarchy

- owl:Thing
 - Astronomical_Object
 - Band
 - Gamma-Ray
 - InfraRed
 - Optical
 - Radio
 - UltraViolet
 - X-Ray
 - Object_Type
 - Composite_Object
 - Group_Of_Galaxies
 - Group_Of_Stars
 - Galaxy
 - Nebula
 - Star

