

# UCD1 + tools

# 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 :

# 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

# Interactive assign



## UCD builder



Use this interface to find the UCD corresponding to a description:

Enter a description in natural language:

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Suggested complete UCD: **phot.mag;em.opt.R;stat.max**

### Refine your search:

The following words matched your query. You might force the selection of words matching precisely your query, and rebuild a UCD using these words:

| word                                     | definition                            | flag | score |
|--|---------------------------------------|------|-------|
| <input type="checkbox"/> phot.mag        | Photometric magnitude                 | E    | 60    |
| <input type="checkbox"/> phot.mag.bol    | Bolometric magnitude                  | Q    | 50    |
| <input type="checkbox"/> phys.magAbs.bol | Bolometric absolute magnitude         | Q    | 30    |
| <input type="checkbox"/> em.opt.R        | Optical R band between 600 and 750 nm | S    | 15    |
| <input type="checkbox"/> stat.max        | Maximum or upper limit                | S    | 30    |

using selected words.

