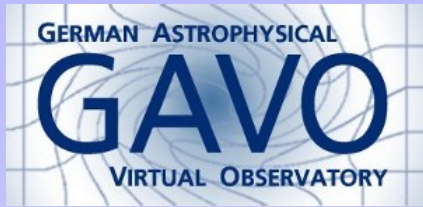


Vocabularies 2: Towards RFC?



Markus Demleitner
msdemlei@ari.uni-heidelberg.de



Federal Ministry
of Education
and Research

This briefly introduces some points on
<https://yopad.eu/p/Vocinvo2>

- What do we want?
- VEPs
- Desise
- UAT
- Fostering Takeup



What do we want?

- Agreed-upon lists of strings easy on machines (e.g., a TAP service *isServiceFor* some table, not *is-service*)
- Hierarchy (e.g., a flatfield is a sort of calibration data).
- “agile”, i.e., terms can be made when they’re needed.
- As easy to handle as possible.
- Presentable (i.e., humans can figure out meanings and don’t have to look at machine-formated stuff).

See <http://www.ivoa.net/rdf> for what’s already there.

VEPs

Vocabulary: <http://www.ivoa.net/rdf/datalink/core>

Author: francois.bonnarel@astro.unistra.fr

Date: 2019-10-15

New Term: documentation

Action: Addition

Label: Documentation

Description: Extra information on the item in human-readable text form, ranging from processing logs to weather reports to technical documents on instruments to related publications.

Rationale:

This term was proposed actually by Alberto Micol due to some ESO use cases. For example a text giving some details on observation conditions can be attached to a dataset. Could be also instrument configuration in free text, etc...

Discussion: Semantics took the liberty of modifying term, label and [...]

there probably was and the single "documentation" was sufficient (<http://mail.ivoa.net/pipermail/dal/2019-October/008208.html>)

Desise

```
{ "uri": "http://www.ivoa.net/rdf/datalink/core",
  "flavour": "RDF Property",
  "terms": {
    "this": [
      "the data itself",
      "the primary (as opposed to related) data of the identified resource"
    ],
    "progenitor": [
      "Progenitor",
      "data resources that were used to create this dataset..."
    ], ...
  },
  "deprecated_terms": [],
  "preliminary_terms": ["sibling" ],
  "wider_terms": {
    "weight": ["auxiliary"],
    "error": ["auxiliary"], ...
  }
}
```

UAT

The Unified Astronomy Thesaurus is used in the VO for VOResource subject (“keywords”).

Alas, it doesn’t say how.

UAT concepts look like <http://astrothesaurus.org/uat/1268> – we probably don’t want to have that in VOResource.

1268? Hm. “Plutoids” would be optimal, but using the label would need a norm. And isn’t stable.

Experimental IVOA mapping at <http://www.ivoa.net/rdf/uat>.
VOResource keywords would then be like a-dwarf-stars.

Takeup

Before going for RFC, I'd like to see some actual usage. My first ideas:

- Validators: VOResource, VOTable (COOSYS, TIMESYS), Datalink
- Datalink Client: "all calibration data".
- ADQL UDF `expand_query(voc, term)`

The motivation for the last point would be something like

```
select ivoid, res_title from rr.resource
natural join rr.res_subject
where res_subject in expand_query('uat', 'occultation')
```