

Vocabularies in the VO

Interop Meeting May 2018, Victoria, BC

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Summary

- **Dissemination and access**
 - where to find them
 - maintenance
- **Usage scenarios**
 - Vocabularies help to classify, categorize
- **Perspectives**

Dissemination

- ivoa.net
 - A page to find what exist
 - <http://ivoa.net/vocabularies/>
 - Currently see the prototype at <http://wiki.ivoa.net/twiki/bin/view/IVOA/VocabularyTestPage>

Use case 1: Annotation

- Definition for a column name , fits keyword, literal in a datamodel field
 - Map to an existing concept
 - Theory Skos Concepts
 - UCD
 - Objects names
 - Relation Types between data sets, codes, services

Use case 2: Query

- Query for columns with semantic tag
 - Typically UCD e.g. phot.mag.B
 - Content of the semantics field in a Datalink descriptor
 - Datalink vocabulary
- Simulations (SimDM)
 - Features represented for an object
 - SimDM. Simulation object type

Model element vs Vocabulary

- Where does it belong ?
 - Ex ObsCore : facility_name, instrument_name
 - Are data model elements
 - Have a specific role with respect to the data set -> expressed by the name of the field
 - Use/need a list of standard terms to fill these fields

Vocabularies Maintenance

- Catered By the Semantics group
- Each WG responsible for the evolution and update of its own domain vocabulary
 - Some Vocab are very specific
 - Datalink, Provenance DM, SimDM, etc...
 - Some overlap with other standardization efforts
 - VOResource \longleftrightarrow DataCite

Vocabularies @ ivoa.net

- [http://wiki.ivoa.net/
twiki/bin/view/IVOA/
VocabularyTestPage](http://wiki.ivoa.net/twiki/bin/view/IVOA/VocabularyTestPage)
- **Comments welcome on**
semantics@ivoa.net

Vocabularies repository

- Which format for storing the vocabularies terms ?

Format	Query Mechanism
RDF	Sparql
Tap Schema	Adql
CSV	Python script
...	?

- Coordinate efforts through the TCG revision process
- Popularize the RFM process as for the UCD List

UCD Maintenance Process

