

Data Curation & Preservation

interest group



DCP status

Mailing list DCP: <http://mail.ivoa.net/mailman/listinfo/datacp>

Chair: gilles.landais@unistra.fr

Vice-chair: August Muench

Twiki: <https://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaDCP>

Slack channel: <https://ivoa.slack.com/#dcp>

<https://ivoa.slack.com/archives/CP1G63AN9>

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Improving Data citation

Digital Object Identifiers (DOIS) in Open Science (Bologna, may 2023)



« Using DOI to cite data in articles »

DOI is a building bloc in Open Science

- Allows citation
- Improve Data discovery and data linking
- A unique and universal identification

A DOI best Practice document in order to provide clean citation

Bibliographic Interfaces in the Virtual Observatory

M.Demleitner, A.Accomazzi

<https://github.com/ivoa/BibVO>

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Data Origin in VOTable

“light Provenance in VOTable to improve Data understanding, reproducibility and citation”

(Based on Dublin Core and registry information)
Information available in Aladin, TOPcat, Astropy

```
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<INFO name='request_date' value='2023-10-31T15:47:25'/>
<INFO name='request' value='https://vizier.cds.unistra.fr/viz-bin/conesearch/'>
<INFO name='contact' value='cds-question@unistra.fr'/>
<INFO name='version' value='7.32.5'/>

<INFO name='publisher' value='CDS'/>
<INFO name='creator' value='Ou J.-Y.'/>
<INFO name='related_resource' value='bibcode:2022AJ...163..1920/'>
<INFO name='landing_page' value='https://cdsarc.cds.unistra.fr/viz-bin/cat/J/AJ/163/1920/'>
<INFO name='publication_id' value='doi:10.26093/cds/vizier.51630192'/>
```

```
>>> from astropy.io import votable
>>> v=votable.parse("https://vizier.cds.unistra.fr/viz-bin/conesearch/J/AJ/163/192?RA=0&DEC=0&SR=1")
Downloading https://vizier.cds.unistra.fr/viz-bin/conesearch/J/AJ/163/192?RA=0&DEC=0&SR=1 [Done]
>>> for info in v.infos:
...     print(info)
...
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<INFO ID="MaxTuples" name="MaxTuples" value="50000"/>
<INFO ID="Target" name="-c" value="000.000000+00.000000,rd=1."/>
>>> for info in v.resources[0].infos:
...     print(info)
...
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<INFO ID="publisher" name="publisher" value="CDS"/>
<INFO ID="creator" name="creator" value="Ou J.-Y."/>
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>>>
```



International
Virtual
Observatory
Alliance

Data Origin in the VO
Version 1.0

IVOA Note 2022-10-30
Working Group
DCP

Version 1.1
soon

Name	Value	Description
Name	J/AJ/161/36/table8	Table name
Column Count	19	Number of columns
Row Count	6	Number of rows
Content	Planet candidate properties	
ivo://cds.vizier/j/aj/161/36		
doi:10.26093/cds/vizier.51610036		
https://cdsarc.cds.unistra.fr/viz-bin/cat/J/AJ/161/36		
doi:10.26093/cds/vizier.51610036		
Level	Research	
Version	2022-10-07	
creator	https://cds.unistra.fr/vizier-org/licences_vizier.html	
related_resource	Bryson S.	
editor	2021AJ...161...36B	
publication_date	Astronomical Journal	
resource_date	2021-03-16	
version	2021	
protocol	7.294	
request_date	Simple Cone Search 1.03	
request	2022-10-30T12:08:00	
contact	https://vizier.cds.unistra.fr/viz-bin/conesearch/J/AJ/161/36/...	
	cds-question@unistra.fr	



IOI status in

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Exploring Registry records (joined session in Bologna)

PyVO Registry add metadata (Data Origin) in records description (M. Marchand)
DOI, rights, reference_url, publisher, contact, ...

```
>>> from pyvo import registry
>>> resources = registry.search("photometry in Magellanic Clouds")
>>> resources[0].describe()
```



Other activities

- Produce Best Practices
- Investigate standards used in Open Sciences (eg: Data Catalogue semantic)