Data Curation Tool
Scholars Portal Dataverse

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Tech Tools for RDM Showcase - Portage Webinar
June 16, 2020

National grant for RDM development (CANARIE)

- “Dataverse for the Canadian research community: Developing reusable and scalable tools for data deposit, curation, and sharing”
- Led by Scholars Portal and UTL with support from CARL and Portage
- 3 key focus areas:
  - Authentication
  - Data Curation
  - Scalability and large-file support
- November 2018 - March 2020
- Blog post on project completion

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Data Curation Tool

- “As a user, I want to add details about the variables in my dataset after I’ve uploaded it to Dataverse.”
- Developed the Data Curation Tool (DCT)
    - External web application that connects to Dataverse to create and edit metadata at the variable level using DDI standard
- Aim to improve data curation workflows and promote adoption of standards and best practices

	v1	v2	v3	v4	v5	v6	v7	v8	v9	v10	v11	v12	v13	v14	v15	v16
1	1.040e+14	4	26	104012	99	1	1973	2	1642	1040	1040	1	6	1	5	5
2	1.040e+14	1	19	104008	99	2	1943	1	99	99	99	1	1	6	4	5
3	1.040e+14	4	98	104003	99	1	1990	1	99	99	99	1	6	3	99	11
4	1.040e+14	2	98	104010	99	1	1983	2	1756	1040	1040	1	6	3	99	11
5	1.040e+14	1	18	104007	99	2	1927	1	99	99	99	1	1	6	4	1
6	1.040e+14	2	19	104007	99	1	1983	1	99	99	99	1	6	2	5	3
7	1.040e+14	4	15	104005	99	2	1970	1	99	99	99	1	1	2	4	6
8	1.040e+14	4	19	104006	99	1	1942	1	99	99	99	2	1	6	5	88
9	1.040e+14	4	15	104005	99	1	1965	2	1040	1276	1040	7	4	1	5	5
10	1.040e+14	7	15	104004	99	2	1955	1	99	99	99	1	1	2	5	5
11	1.040e+14	7	15	104003	99	2	7777	1	99	99	99	1	1	6	77	77
12	1.040e+14	4	18	104005	99	2	1938	1	99	99	99	1	3	6	5	5
13	1.040e+14	7	17	104005	99	1	1945	1	99	99	99	1	1	6	5	4
14	1.040e+14	4	18	104005	99	2	1949	2	1040	1380	1040	1	4	6	5	5
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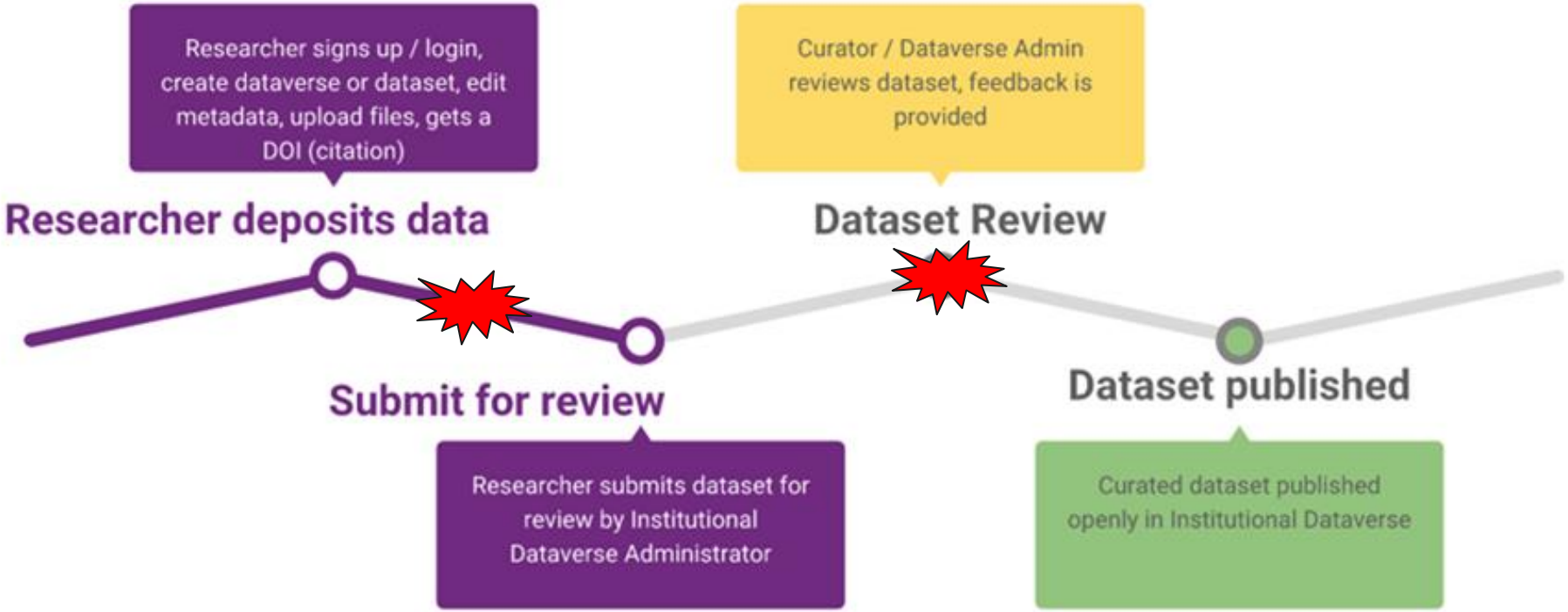
18	1.040e+14	4	25	104010	99	2	1968	1	99	99	99	1	1	2	5	1
19	1.040e+14	4	40	104007	99	1	1967	1	99	99	99	1	1	2	6	2
20	1.040e+14	1	23	104004	99	1	1932	1	99	99	99	1	1	6	4	3
21	1.040e+14	2	18	104003	99	2	1965	1	99	99	99	1	6	2	5	5
22	1.040e+14	1	27	104011	99	1	1956	1	99	99	99	2	1	1	5	2
23	1.040e+14	4	18	104004	99	2	1923	1	99	99	99	1	3	6	3	3
24	1.040e+14	1	19	104006	99	2	1952	1	99	99	99	1	4	2	5	3
25	1.040e+14	3	16	104004	99	2	1947	2	1276	1040	1040	1	1	6	3	3

Curation Workflows



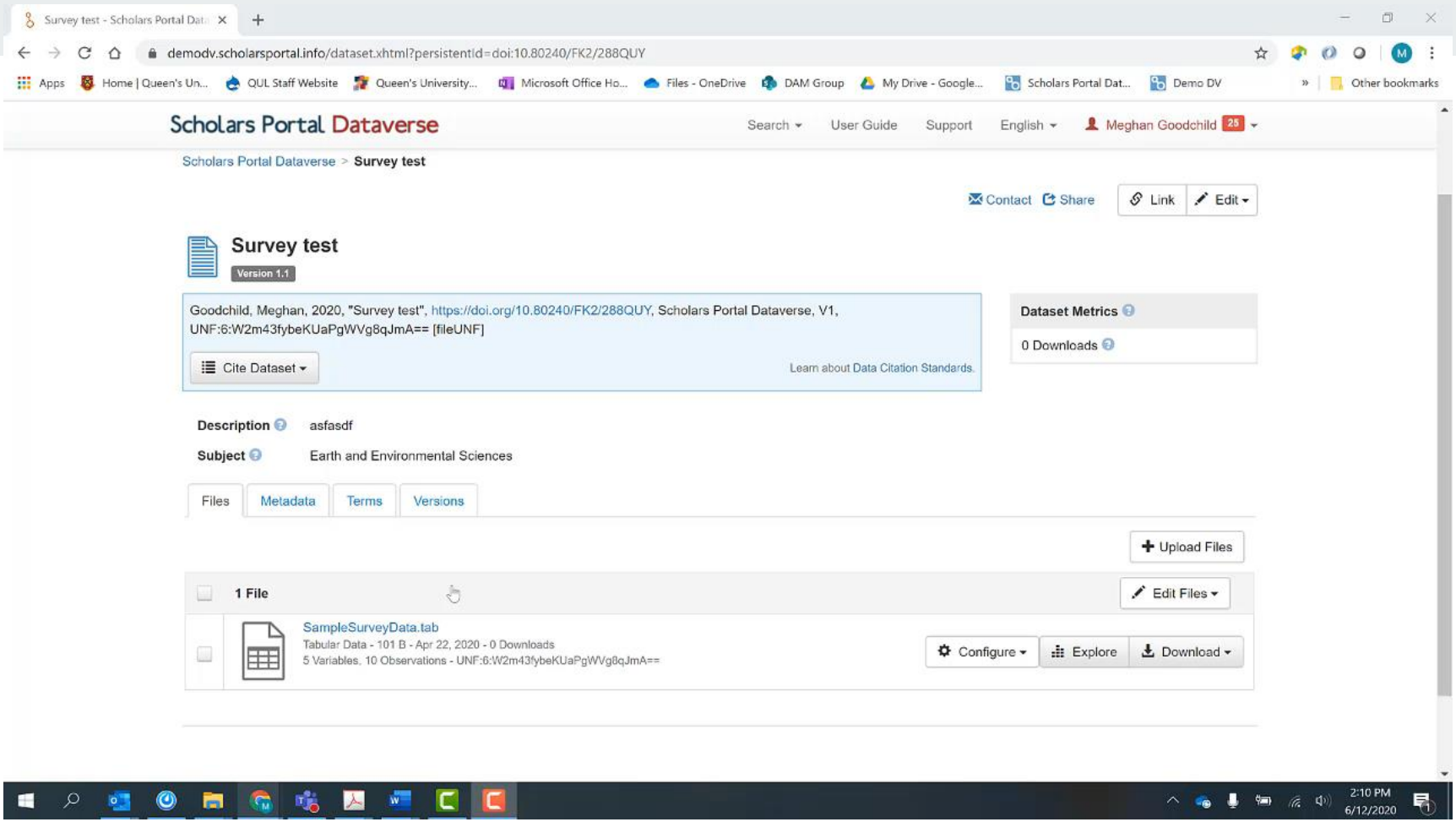
Data Curation Tool - Features

- View summary statistics for variables
- Add labels, groups, weights
- Create and edit variable-level metadata
- DDI XML file saved back to Dataverse and can be exported by users
- DDI-formatted HTML codebook for entire dataset that also includes variable-level metadata

Development details

- Works with tabular data files (CSV, SAV, XLSX, etc.)
- Uses Angular 7, Angular Material Theme, & Dataverse API
- Completed UX testing with 5 participants
- French translations provided by the University of Ottawa
- GitHub: https://github.com/scholarsportal/Dataverse-Data-Curation-Tool

DCT Demo


Survey test - Scholars Portal Data
demodv.scholarsportal.info/dataset.xhtml?persistentId=doi:10.80240/FK2/288QUY
Apps
Home | Queen's Un...
QUL Staff Website
Queen's University...
Microsoft Office Ho...
Files - OneDrive
DAM Group
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Meghan Goodchild 25
Scholars Portal Dataverse > Survey test
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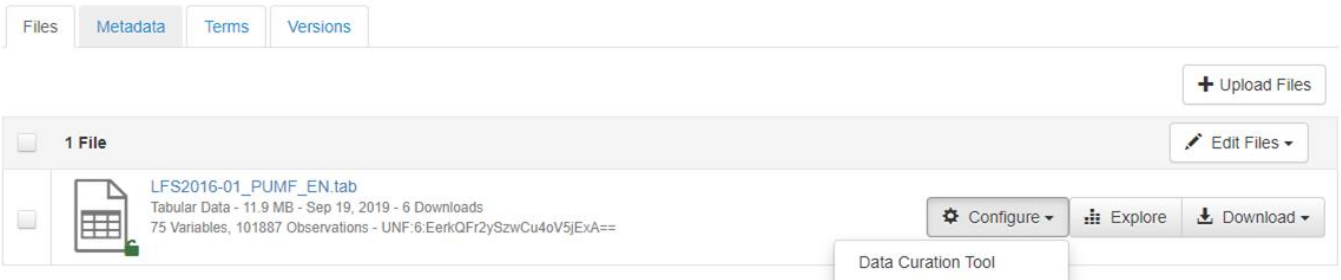
Survey test
Version 1.1
Goodchild, Meghan, 2020, "Survey test", https://doi.org/10.80240/FK2/288QUY, Scholars Portal Dataverse, V1, UNF:6:W2m43fybeKUaPgWVg8qJmA== [fileUNF]
Cite Dataset
Learn about Data Citation Standards.
Dataset Metrics
0 Downloads
Description
asfasdf
Subject
Earth and Environmental Sciences
Files
Metadata
Terms
Versions
Upload Files
1 File
Edit Files
SampleSurveyData.tab
Tabular Data - 101 B - Apr 22, 2020 - 0 Downloads
5 Variables, 10 Observations - UNF:6:W2m43fybeKUaPgWVg8qJmA==
Configure
Explore
Download
2:10 PM
6/12/2020

Launch from “Configure” button for tabular file



Labour Force Survey (Curated)

LFS2016-01_PUMF_EN.tab

Tester, Curation, 2019, "Labour Force Survey (Curated)", https://doi.org/10.5072/FK2/YLJJAY, Scholars Portal Dataverse, V1, UNF:6:EerkQFr2ySzwCu4oV5jExA== [fileUNF]

Hide Groups | Download | Save

Add Group +

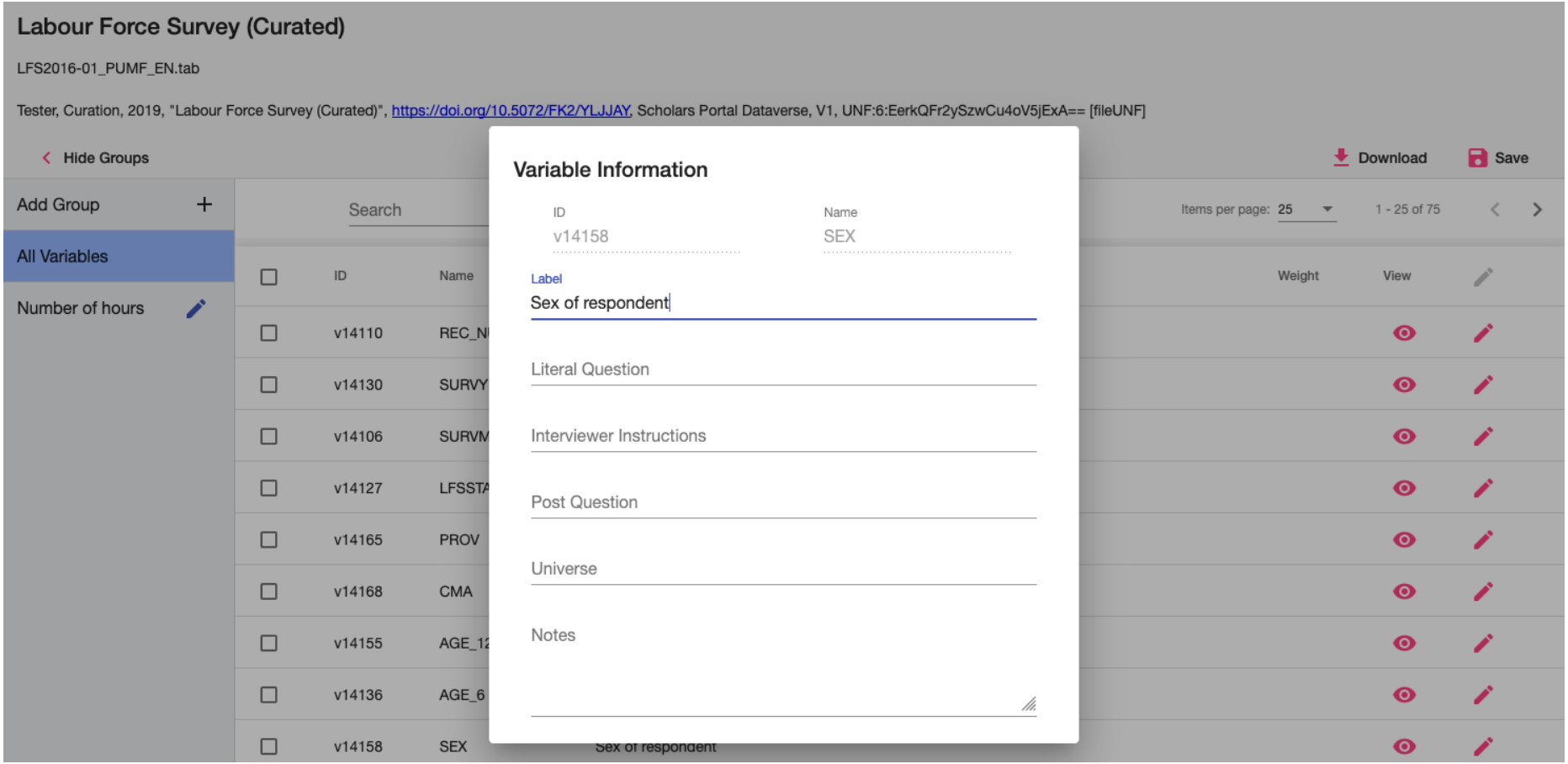
All Variables

Number of hours

Search

Items per page: 25 | 1 - 25 of 75

ID	Name	Label	Weight	View
v14110	REC_NUM	Order of record in file		
v14130	SURVYEAR	Survey year		
v14106	SURVMNTH	Survey month		
v14127	LFSSTAT	Labour force status		
v14165	PROV	Province		
v14168	CMA	3 largest CMAs		
v14155	AGE_12	Five-year age group of respondent		
v14136	AGE_6	Age in 2 and 3 year groups		


Labour Force Survey (Curated)
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Hide Groups
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All Variables
Number of hours
Search
Items per page: 25
1 - 25 of 75
ID
Name
Weight
View
v14110
REC_N
v14130
SURVY
v14106
SURVM
v14127
LFSSTA
v14165
PROV
v14168
CMA
v14155
AGE_12
v14136
AGE_6
v14158
SEX
Sex of respondent
Variable Information
ID
v14158
Name
SEX
Label
Sex of respondent
Literal Question
Interviewer Instructions
Post Question
Universe
Notes

Labour Force Survey (Curated)

LFS2016-01_PUMF_EN.tab

Tester, Curation, 2019, "Labour Force Survey (Curated)", https://doi.org/10.5072/FK2/YLJJAY, Scholars Portal Dataverse, V1, UNF:6:EerkQFr2ySzwCu4oV5jExA== [fileUNF]

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All Variables

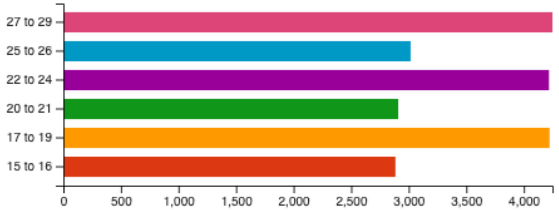
Number of hours

Search

Items per page: 25 | 1 - 25 of 75

	ID	Name		Weight	View	
☐	v14110	REC_N				
☐	v14130	SURVY				
☐	v14106	SURVM				
☐	v14127	LFSSTA				
☐	v14165	PROV				
☐	v14168	CMA				
☐	v14155	AGE_12				
☐	v14136	AGE_6	Age in 2 and 3 year groups			
☐	v14158	SEX	Sex of respondent			

AGE_6: Age in 2 and 3 year groups



Values	Categories	Count	Count Percentage(%)	Weighted Count
1	15 to 16	2,885	13.417	
2	17 to 19	4,224	19.644	
3	20 to 21	2,909	13.528	
4	22 to 24	4,219	19.621	
5	25 to 26	3,017	14.031	
6	27 to 29	4,249	19.76	

Data Curation Tool Codebook

Data Curation Tool Testing Dataset (ICPSR doi:10.5072/FK2/0TYIHL)
(DCT Testing Dataset)

View: Part 1: Document Description
Part 2: Study Description
Part 3: Data Files Description
Part 4: Variable Description
Part 5: Other Study-Related Materials
Entire Codebook

Document Description

Citation

Title:	Data Curation Tool Testing Dataset
Identification Number:	doi:10.5072/FK2/0TYIHL
Distributor:	Scholars Portal Dataverse
Date of Distribution:	2019-06-14
Version:	2
Bibliographic Citation:	Lubitch, Victoria; Leahey, Amber, 2019, "Data Curation Tool Testing Dataset", https://

Study Description

Citation

Title:	Data Curation Tool Testing Dataset
Subtitle:	DDI Test
Alternative Title:	DCT Testing Dataset
Identification Number:	doi:10.5072/FK2/0TYIHL
Authoring Entity:	Lubitch, Victoria (University of Toronto)
	Leahey, Amber (Scholars Portal)
Producer:	Leahey, Amber
Date of Production:	2019-05-22
Grant Number:	4445555
Distributor:	Scholars Portal Dataverse
Date of Distribution:	2019-06-14

Study Scope

Keywords:	Astronomy and Astrophysics, test, smoking
Topic Classification:	Metadata

Try it out!

- Launched in Scholars Portal Dataverse (October 2019)
  - Production Dataverse: dataverse.scholarsportal.info
  - Demo Dataverse: demodv.scholarsportal.info
- GitHub: https://github.com/scholarsportal/Dataverse-Data-Curation-Tool

Future developments

- Improvements to groups (sub-groups, re-ordering, viewing variables in group)
- Incorporating variable metadata within main Dataverse search (SOLR index)
- Investigating metadata elements/fields that could be added
- Improve accuracy of metadata in the DDI Codebook “Document Description” section
- Adding content from the DCT to the Data Explorer
- UI tweaks, including improved multi-select for variables

Want to learn more?

- Blog post “Introducing the Data Curation Tool”: https://spotdocs.scholarsportal.info/x/BIR0D
- Basic documentation available in GitHub: https://github.com/scholarsportal/Dataverse-Data-Curation-Tool#using-the-data-curation-tool
- OCUL webinar on DCT (recording): https://ocul.zoom.us/rec/share/yNxRIun2_zhOGqfL6VPtUbJiENzKT6a81SRIqKBfyB2m8tUX1e9ioLrZo6bQRlnD

Comments, questions, suggestions?

dataverse@scholarsportal.info