



Workshop: How to set up and configure a Dataverse repository that suits your needs

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Workshop: How to set up and configure a Dataverse repository that suits your needs

IASSIST 2022

07-06-2022

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CDSP, Sciences Po & CNRS

How to set up and configure a Dataverse repository that suits your needs

1. Data Documentation Initiative (DDI) and FAIR
2. The Dataverse project in brief
3. What's in a data repository?
4. Assess your needs
5. Main Dataverse features
6. A Dataverse bingo
7. Desirable improvements
8. Extending functionalities
9. Stay tuned / contribute to the Dataverse project

Data Documentation Initiative (DDI) and FAIR

Quizz : What is FAIR ?



- An elaborate contemporary folk dance involving the energetic flapping of the jaws and waving of hands, followed by a prolonged period of inactivity
- A specific set of universally agreed practices for sharing research data, implemented by adhering to well-defined specifications applying equally across all domains
- A compelling article published in *Nature* in 2016, describing the basic principles which should be followed for sharing research data in sciences of all kinds

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FAIR is a (simple) idea

- Findable, Accessible, Interoperable, Re-usable (“The FAIR Guiding Principles”)*
- Promote data-sharing and reuse within and between domains
- DDI has been focused on data sharing and reuse for decades
- Important ideas whose time has come
 - Demand for more data (large projects, new technologies)
 - Broader acceptance of data-sharing as *important*

The key to FAIR data is *metadata*



* Wilkinson MD, Dumontier M, Aalbersberg IJJ, Appleton G, Axton M, Baak A et al. The FAIR Guiding Principles for scientific data management and stewardship. Scientific Data. 2016;3. 160018. <https://doi.org/10.1038/sdata.2016.18>

How does DDI help about FAIR



- Many people talk about FAIR but focus only on Findability and Accessibility
 - This isn't "FAIR", it's "FA"
- FAIR include the Interoperability and Reusability parts as well!
 - This has been the primary focus of DDI for a long time
 - The hard, expensive part...
- DDI is for people who want to be *serious* about FAIR!
 - DDI provides the rich metadata which is required
 - Reminder : DDI is written in XML

What is DDI?



- DDI = Data Documentation Initiative
 - An international metadata standard
 - Used primarily in the social and behavioural sciences, economics, health
- An open standard designed for data sharing and reuse
- A structure for describing data and its related information
- Describes data from surveys and other observation-based data collection methods
 - Currently moving towards covering new data types and data from new domains.

DDI Specifications



- DDI Codebook (aka DDI-C)
- DDI Lifecycle (aka DDI-L)
- DDI Cross Domain Integration (aka “DDI-CDI”) - to be released
- Each one suits different needs and types of data

DDI Codebook



- An XML description of a “codebook” (a data dictionary)
 - Rectangular files
 - No concept of metadata reuse
- Based on models in existing analysis tools
 - (Stata, SPSS, SAS, etc.)
- Included Dublin Core and descriptive “study-level” metadata
- Machine-readable
- Described data for a single study (one point in time)
- After-the-fact description to support archiving and reuse

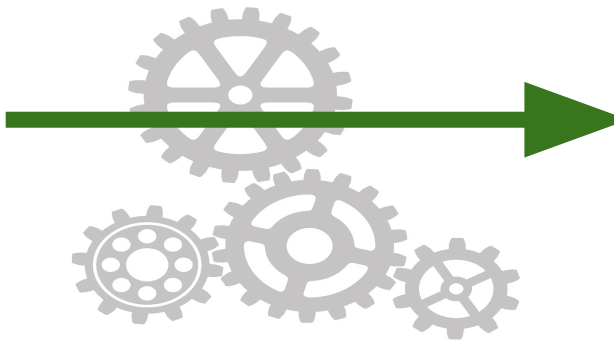
DDI Codebook

**Metadata not
structured**



Lost Metadata Manager

*DDI Codebook
structures*



**Metadata structured
by DDI Codebook
standard**



Do you speak xml ? No? Then you need a tool.

```
<titl>Canadian Community Health Survey, 2012: Annual  
Component </titl>
```

```
  <labl>Questionnaire (.pdf)</labl>
```

```
<dataDscr><notes>The variables in this study are  
identical to earlier waves. </notes></dataDscr>
```

```
<titl>Canadian Gallup Poll, May 2000</titl>
```

```
  <dataChck>Quality checks were performed by Carleton  
University Data Centre. </dataChck>
```

Want to know more ?



- Request Training from the DDI Alliance Training Group
- DDI Alliance, responsible for the standard, is a rich source of information (check the website!)
- DDI Training Group Zenodo Collection
- Attend CODATA / DDI Alliance webinars

The Dataverse project in brief

Dataverse in brief

Dataverse is an open source research data repository software, that is being developed at Harvard IQSS & supported by a consortium (GDCC). It has been initially dedicated to the SSH but is being widely used worldwide.

To date, 78 instances are using Dataverse, among which:

- [Scholars Portal](#) (Borealis)
- [DataverseNO](#)
- [SODHA](#)



Source: [Dataverse Metrics](#)

Dataverse at the CDSP

Our first need was a repository to host our data and our DDI metadata. Dataverse uses DDI-Codebook (DDI-C) / DDI 2.5

The CDSP has set up an institutional SSH research data repository: data.sciencespo, including two collections:

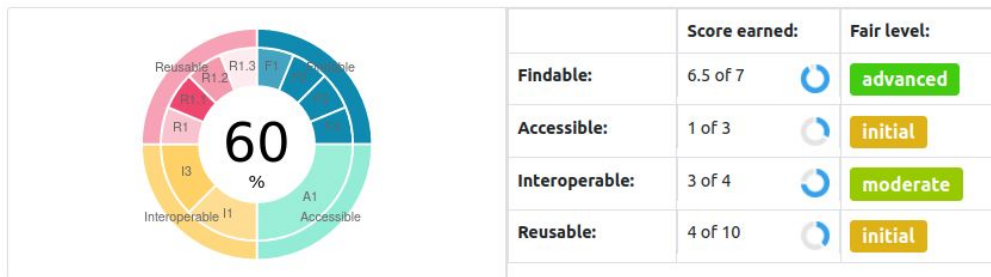
- [CDSP databank](#): curated up to the level of the variable, pseudonymized,
 - national scope
- [Sciences Po](#) Self-deposit collection
 - institutional scope



What's in a data repository?

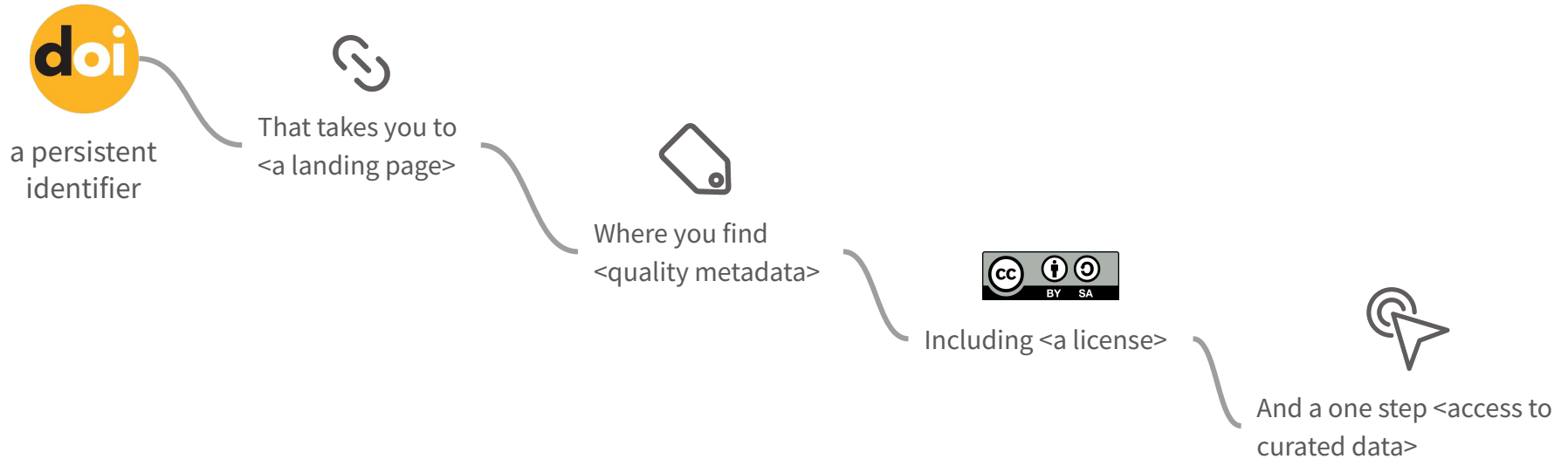
Dataverse and FAIR

Dataverse provides a framework to achieve data FAIRness (Findable, Accessible, Interoperable and Reusable). Customizing a Dataverse instance and curating a dataset improves data final reusability.

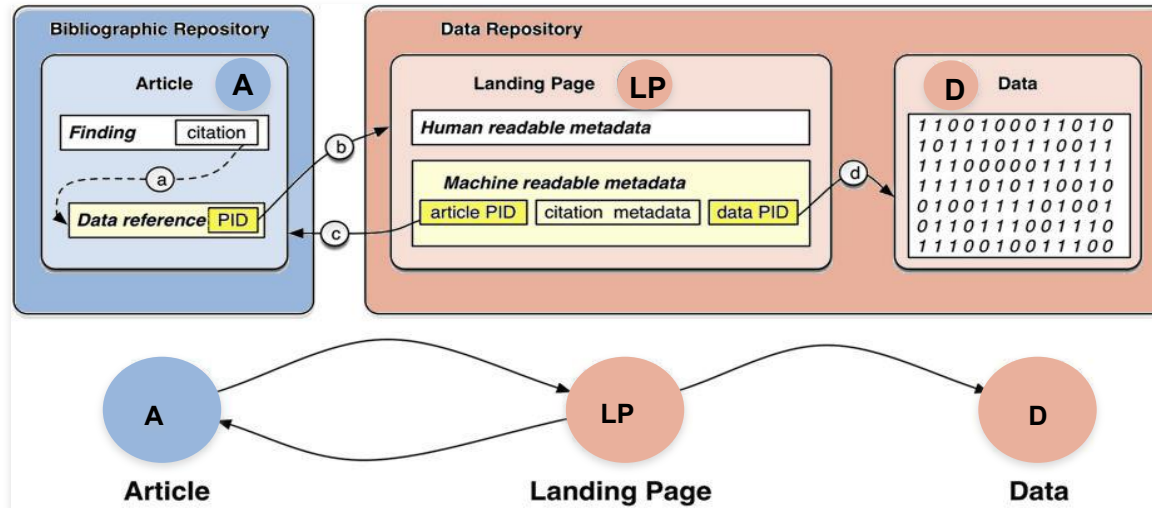


Anusuriya Devaraju, & Robert Huber. (2020). F-UJI - An Automated FAIR Data Assessment Tool (v1.0.0). Zenodo.
<https://doi.org/10.5281/zenodo.4063720>. Available at: <https://www.f-ujii.net>, the test results shown here are based on preliminary data and code which still is under development.
Results shown are available [here](#) (resource evaluated 23-05-2022)

FAIR data



What's in a data repository landing page?



Collections, Datasets, files

Information is arranged in Collections, Datasets and Files:



Collections

including as many (sub-)collections as needed



Datasets

are included in a collection and include



Files

données qualitatives (Sciences Po, Centre de données socio-politiques (CDSP), CNRS)



Mar 29, 2021

Base de données pédagogique : Styles de vie et Environnement (2017)



May 10, 2022

Petev, Ivaylo, 2022, "Base de données pédagogique : Styles de vie et Environnement (2017)", <https://doi.org/10.21410/7E4/OFVDJL>, data.sciencespo, V1, UNF:6:7NGeEHrqVHU/x/Old2VGA== [fileUNF]

Les bases de données pédagogiques ont été créées par le Centre de Données Socio-Politiques à partir d'enquêtes préexistantes. Leur but est de mettre à disposition un matériel facile à prendre en main, dans le cadre d'enseignements et cours. Elles ont pour seule fonction la format...



cdsp_sven2017_dataset.csv.zip

ZIP Archive - 72.9 KB

Published May 10, 2022

0 Downloads

MDS: w63_e66

Données CSV





Anatomy of a dataset 1/3

Dataverse offers a comprehensive **landing page** for each dataset, a strong basis for FAIR data.

This is a public web page showing metadata.

This page is meant for **humans** to read it.

But it serves also metadata for **machines**.

The screenshot shows the landing page for a dataset on the SciencesPo Dataverse platform. The page is titled "Pratiques culturelles, Médias et Technologies de l'information - vague 1 (2013)" and is version 2.0. It includes a search bar, user guide, support, and language options. The main content area displays the dataset title, version, and a list of authors (Coulangeon, Philippe; Donnat, Olivier, 2020). A citation is provided: "Pratiques culturelles, Médias et Technologies de l'information - vague 1 (2013)", <https://doi.org/10.21410/7E4/IQNXFM>, data.sciencespo, V7, UNF:6:0DXCcm0Rva/T27yRKG+lw== [fileUNF]. There are buttons for "Cite Dataset" and "Learn about Data Citation Standards". A "Description" section provides a detailed overview of the dataset, mentioning the PMTI (Pratiques, Médias et Technologies de l'information) project and its focus on cultural practices and media technologies. The "Subject" is "Social Sciences" and the "Keyword" is "CULTURE". The "License/Data Use Agreement" is "CC BY-SA 4.0". There are tabs for "Files", "Metadata", "Terms", and "Versions". A button for "Export Metadata" is located at the bottom right. The page also includes a "Dataset Metrics" section showing "110 Downloads".



Anatomy of a dataset 2/3

Since version 4.8, Dataverse supports **Schema.org** embedded metadata in every dataset landing page.

Schema.org metadata are meant for **machines** to support **discoverability** of datasets. Search engines rely on such metadata.

JSON	Raw Data	Headers
Save	Copy	Collapse All Expand All Filter JSON
@context:	"http://schema.org"	
@type:	"Dataset"	
@id:	"https://doi.org/10.21410/7E4/10NKFH"	
identifier:	"https://doi.org/10.21410/7E4/10NKFH"	
name:	"Pratiques culturelles, Médias et Technologies de l'information - vague 1 (2013)"	
creator:		
0:		
name:	"Coulangeon, Philippe"	
affiliation:	"(Sciences Po, Observatoire sociologique du changement (OSC), CNRS)"	
1:		
name:	"Donnat, Olivier"	
affiliation:	"(Ministère de la Culture, Département des études de la prospective et des statistiques (DEPS))"	
author:		
0:		
name:	"Coulangeon, Philippe"	
affiliation:	"(Sciences Po, Observatoire sociologique du changement (OSC), CNRS)"	
1:		
name:	"Donnat, Olivier"	
affiliation:	"(Ministère de la Culture, Département des études de la prospective et des statistiques (DEPS))"	
datePublished:	"2020-05-05"	
dateModified:	"2022-05-03"	
version:	"7"	
description:		
0:		"L'enquête Pratiques culturelles, médias et technologies de l'information (PMTI), proposée par Philippe Coulangeon (SciencesPo/CNRS - OSC) et Olivier Donnat (DEPS-Ministère de la culture et de la communication) est l'une des premières menées dans la phase test du dispositif ELIPSS. Elle porte sur les différentes formes de participation à la vie culturelle (lecture d livres, écoute de musique, fréquentation de manifestations et d'équipements culturels, pratiques en amateur) et les usages des médias et nouvelles technologies. S'inscrivant dans la tradition des enquêtes sur les pratiques culturelles, PMTI a pour objectif de tester la robustesse de certains indicateurs classiques dans le contexte innovant d'un questionnaire auto-administré sur internet. Dans l'idée d'améliorer la saisie des goûts et des orientations esthétiques, des items utilisant des rephotographies d'œuvres d'art et des extraits musicaux ont été intégrés aux questionnements plus communément utilisés. Administrée en juin 2013 au panel ELIPSS, l'enquête a une dimension longitudinale. Une deuxième vague a été réalisée en juillet 2015."
keywords:		
0:	"Social Sciences"	
1:	"Cultural activities and participation"	
2:	"CULTURE"	
temporalCoverage:		
0:	"2013/2013"	
license:	"http://creativecommons.org/licenses/by-sa/4.0"	
includedInDataCatalog:		
@type:	"DataCatalog"	
name:	"data.sciencespo"	
url:	"https://data.sciencespo.fr"	
publisher:		
@type:	"Organization"	
name:	"data.sciencespo"	
provider:		
@type:	"Organization"	
name:	"data.sciencespo"	
spatialCoverage:		
0:	"France"	



Anatomy of a dataset 3/3

When a dataset is created, Dataverse sends to the **PID provider** (**Datacite** for DOIs), a set of metadata and gets back a newly minted PID.

The PID provider secures the **link** between the PID and the dataset URL on the repository. It is the responsibility of the PID maintainer to **maintain** this link up to date.

DataCite Search Works People Repositories Members Support Sign in

Pratiques numériques - vague 1 (2013)

Dataset published 2020 via data.sciencespo

L'enquête 'Pratiques numériques' (PN) mesure l'évolution des comportements liés aux technologies de l'information et de la communication (TIC) dans un panel où les répondants ont été équipés d'une tablette tactile connectée. L'enquête est répétée annuellement. S'inscrivant dans la tradition des enquêtes TIC, cette étude a pour objectif de décrire l'équipement des ménages (ordinateur fixe, ordinateur portable, accès à Internet y compris par téléphone mobile, téléviseur, console de jeux, etc.), ainsi que les usages numériques des...

No citations were reported. No usage information was reported.

<https://doi.org/10.21410/7e4/dwhy6t> Cite

This data repository is not currently reporting usage information. For information on how your repository can submit usage information, please see [our documentation](#).

Repository
Centre de données socio-politiques

Download
[DataCite XML](#)
[DataCite JSON](#)

Assess your needs

Who?	Resources and skills
For whom?	Data depositors, data curators, re-users
How?	Curation processes
What?	Data types, scientific field(s)

Who?

What are your available **resources** and **skills**? This should be your first question. In other terms: what are and will be your available IT **resources** (system admin, devOps) to **setup** and **maintain** a Dataverse instance over time.

You will first bear **installation** costs. **Maintenance** comes with a cost (upgrades and backups):

A repository is a commitment to sustainability

For whom?

What is the underlying **organization**?

Is internationalization needed?		See UI customization , limitations , metadata language
Do you need to signal metadata on other portal?	Will the repository be harvested? Will the repository harvest others?	See OAI-PMH
Who are the depositors , the curators ?	Are they included in a directory (Univeristy Identity Provider)? A federated directory (like eduGAIN)?	See authentication

How? Research data management

How is **Research Data Management** organized?

Automation	Will you rely only on the web interface ? Will you automate some tasks?	See Dataverse API
Curation	Are there dedicated team members for data and metadata curation ? Are data providers self-depositing?	How should you structure the collections tree to facilitate RDM? See permissions
Workflows	Is there collaboration taking place before data publication?	Review, private URL Embargo, Workflows

Which data?

Do you manage qualitative data?	See high volume and storage
Do you manage quantitative data?	See file ingest, integrations, previewers
Do you manage active data?	See collaboration features, dataset versioning
Is it a general purpose or a specialized repository ?	See metadata blocks, metadata customization, templates

Main Dataverse features

[Crowdsourced list of Dataverse features](https://dataverse.org/software-features)
<https://dataverse.org/software-features>

Dataset metadata

- **Persistent Identifiers (PID)**

- DOI or Handle are supported by Dataverse
- Mandatory at dataset level, optional at file level

- **Metadata**

- Fields customization per collection (enable/disable blocks of metadata, select fields & configure as required/optional)
- Controlled vocabularies
- Templates

Improves metadata quality

- **Licenses**

- From version 5.10 licenses are available as controlled vocabularies

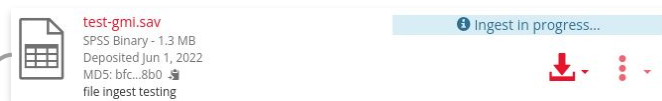
Improves interoperability

The screenshot shows a configuration interface for 'Social Science and Humanities Metadata'. It features a table with 8 rows, each representing a metadata field. Each row has a checked checkbox on the left, a text label in the center, and two radio buttons on the right labeled 'Required' and 'Optional'. The 'Optional' radio button is selected for all fields. The fields are: Unit of Analysis, Universe, Time Method, Data Collector, Collector Training, Frequency, Sampling Procedure, and Target Sample Size. The last row, 'Target Sample Size Actual', has a checked checkbox but no text label or radio buttons.

Field	Required	Optional
Unit of Analysis	☐	☒
Universe	☐	☒
Time Method	☐	☒
Data Collector	☐	☒
Collector Training	☐	☒
Frequency	☐	☒
Sampling Procedure	☐	☒
Target Sample Size	☐	☒
Target Sample Size Actual		

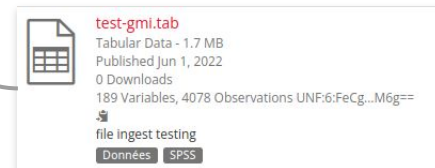
Dataset files

- File ingestion:
 - Tabular data (SPSS, Stata, R, Excel, C/TSV)
 - ZIP file ingestion & tree view
 - Other formats uploaded as is
- Access restrictions at file-level
- Metadata : Limited file level metadata (tags)



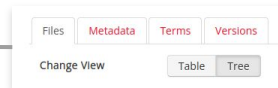
test-gmi.sav
SPSS Binary - 1.3 MB
Deposited Jun 1, 2022
MD5: bfc...8b0
file ingest testing

Ingest in progress...



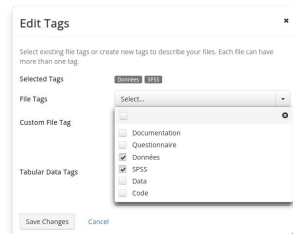
test-gmi.tab
Tabular Data - 1.7 MB
Published Jun 1, 2022
0 Downloads
189 Variables, 4078 Observations UNF:6:FeCg...M6g==
file ingest testing

Données SPSS



Files Metadata Terms Versions

Change View Table Tree



Edit Tags

Select existing file tags or create new tags to describe your files. Each file can have more than one tag.

Selected Tags: **Données** **SPSS**

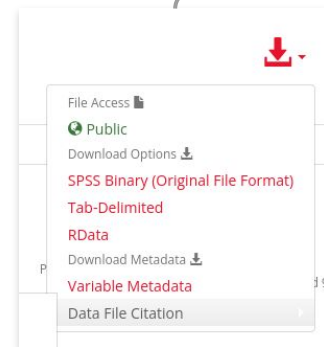
File Tags: **Select...**

Custom File Tag

Tabular Data Tags

- ☐ Documentation
- ☐ Questionnaire
- ☒ Données
- ☒ SPSS
- ☐ Data
- ☐ Code

Save Changes Cancel



File Access

Public

Download Options

SPSS Binary (Original File Format)

Tab-Delimited

RData

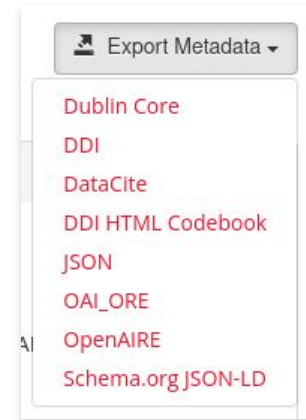
Download Metadata

Variable Metadata

Data File Citation

Metadata export formats

- DDI
- DDI HTML Codebook
- OpenAire / DataCite
- Dublin core
- OAI-ORE
- Schema.org JSON-LD
- JSON



Publication workflow

- Versioning
- [Embargo](#) (file level)
- Pre-reserved PID
 - PID available for a pre-print
- [Private URL](#) for review
- Advanced workflow customization, triggering actions
 - actions on pre/post publication
 - long term preservation

Harvesting metadata (OAI-PMH)

- **Server:** Enable harvesting for your Dataverse by creating sets (defined by a query)
- **Client:** Harvest other Dataverse instances

Create Harvesting Set

Define a set of local datasets available for harvesting to remote clients.

Definition Query * ?

Example query: authorName:king

> Next

Cancel

Manage Harvesting Server -- Define sets of local datasets that will be available for harvesting by remote clients.

OAI Server

Enabled

+ Add Set

OAI setSpec/Description	Definition Query	Datasets	Actions
ArchiPolis ArchiPolis est un consortium de la TIGIR Huma Num. Labellisé en septembre 2012 pour 4 années, il compte en 2015 9 laboratoires : le CDSP (porteur), le CEE, le Ceraps, le CSO, Pacte, le CEVIPOF, le Centre Emile-Durkheim, l'OSIC, ainsi que Triangle.	subtreePaths:"/40/79" subtreePaths:"/40/75" subtreePaths:"/40/295" subtreePaths:"/40/76" subtreePaths:"/40/81" subtreePaths:"/40/88"	148 datasets (144 records exported, 0 marked as deleted)	

Metadata Source: Harvested

1 to 10 of 16 Results

Sort

Intercoeder Reliability Scores - Overall Project



Jul 6, 2021 - Centre d'études européennes et de politique comparée (CEE)

Visconti, Francesco, 2022, "Intercoeder Reliability Scores - Overall Project", <https://doi.org/10.7910/DVN/FEJINC>, N/A

This report provides detailed information about the reliability procedures and tests used to ensure that coders reliably captured the information required for the ResponsiveGov project.

This Dataset is harvested from Harvard Dataverse (<https://dataverse.harvard.edu>). Clicking the link will take you directly to the archival source of the data.

Authentication

You can configure a single source of authentication or a **combination** of several.

- Local account
 - Username/Password
- Institutional accounts (Shibboleth)
 - Home institution's Identity Provider (University SSO)
 - Federation of Identity Providers (EduGain)
- External accounts (OAuth2)
 - Google
 - ORCID
 - GitHub
 - Microsoft

Log In

Log in or sign up with your institutional account — more [information about account creation](#). Leaving your institution? Please contact [Harvard Dataverse Support](#) for assistance.

Your Institution

Please select...

Continue

[Allow me to type the name of my institution](#)

Other options

Username/Email

GitHub

Google

ORCID

[Sign up for a Dataverse account.](#)

Permissions

- Customization of permissions at a [collection](#), [dataset](#) or [file level](#)
- Manage permissions by
 - User
 - Group
 - Role (= list of predefined permissions: can publish, can edit, can download, ...)
- If a file is [restricted](#), users can send an access request

UI customization

- Homepage
- Stylesheet (CSS)
- Footer
- Carousel
- Search facets

SciencesPo

Search ▾ User Guide Support English ▾  Baptiste ROUXEL 187 ▾

data.sciencespo

 Metrics

9,497 Downloads

 Contact  Share  Edit ▾

L'entrepôt institutionnel de données de la recherche de Sciences Po



Banque de données du CDSP



Sciences Po, auto-dépôt



Advanced Search

 Add Data ▾

☒  Dataverses (19)

☒  Datasets (408)

☐  Files (2,395)

Dataverse Category

Laboratory (13)

Research Project (4)

Organization or Institution (1)

Teaching Course (1)

Metadata Source

data.sciencespo (411)

Harvested (16)

Publication Year

1 to 10 of 427 Results

Sociologie Politique de l'insécurité durant les élections Présidentielles de 2022 - vague 1 (2021)



 May 19, 2022 - ELIPSS

 Équipe ELIPSS; Noble, Julien; Jardin, Antoine. 2022. "Sociologie Politique de l'insécurité durant les élections Présidentielles de 2022 - vague 1 (2021)". <https://doi.org/10.21410/7E4VD9RGA>, data.sciencespo. V2. UNF:6:Ly/5A57MGt5+62/QWJL8og== [fileUNF]

L'insécurité est un thème récurrent dans les sociétés démocratiques modernes. Elle réapparaît à intervalles plus ou moins réguliers dans le débat public en fonction de l'actualité. Il est notamment quelques événements politiques durant lesquels les opinions sur l'insécurité se po...

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Powered by  **Dataverse** Project v. 5.10.1 build 907-b844672

Internationalization

- UI language switcher
- Does not translate the metadata

The screenshot shows the SciencesPo data.sciencepo website. At the top, there is a navigation bar with the SciencesPo logo, a search dropdown, and links for User Guide, Support, English (selected), and Log In. Below the navigation bar, the URL 'data.sciencepo' is displayed. A metrics bar shows '9,497 Downloads'. A search bar with the placeholder 'Search this dataverse...' and a magnifying glass icon is present, along with a link to 'Advanced Search'. On the left, there are filters for 'Dataverses (18)', 'Datasets (395)', and 'Files (2,330)'. Below these, a 'Dataverse Category' section lists 'Laboratory (13)', 'Research Project (3)', 'Organization or Institution (1)', and 'Teaching Course (1)'. The main content area shows '1 to 10 of 413 Results'. The first result is titled 'Sociologie Politique de l'insécurité durant les élections Présidentielles de 2022 - vague 1 (2021)' with a date of 'May 19, 2022 - ELIPSS'. The metadata for this result includes the author 'Équipe ELIPSS; Noble, Julien; Jardin, Antoine, 2022', the title 'Sociologie Politique de l'insécurité durant les élections Présidentielles de 2022 - vague 1 (2021)', the DOI 'https://doi.org/10.21410/7E4/VD9RGA', and the file path 'data.sciencepo, V2, UNF:6:Ly/5A57MGt5+6Z/QWJL8og== [fileUNF]'.

	Dataverse instance	Collection	Dataset	File
<u>Branding</u>	✓	✓		
<u>Permissions</u>	✓	✓	✓	✓
<u>PID (DOI or Handle)</u> PID granularity is set at the instance level			✓	✓
<u>License</u>			✓	
<u>Search facets</u> (metadata filters)	✓	✓		
<u>Metadata blocks choice</u>	✓	✓		
<u>Metadata profiles</u> (mandatory/optional metadata)	✓	✓		
<u>Metadata language</u>	✓	✓		
<u>Metadata templates</u>		✓		
<u>Harvesting endpoint</u> (OAI-PMH)	✓	✓	✓	

Main settings and relevant scope for Dataverse

"How to set up and configure a Dataverse repository that suits your needs", A. Danciu, G. Michaud, B. Rouxel, IASSIST 2022

3 use cases & a Dataverse bingo

Use case #1

You are asked to set up a repository to host data produced within one astronomical research center. Researchers will (self) deposit data with minimum support. No curation team is involved. Data are meant to be public, except some unpublished data that will support pre-prints.

What choices would you suggest?

Use case #2

You are missioned to setup a generic purposes repository for a federation of universities. Data project are often created by research groups that span over more than one institution. Dedicated curation team are available in each partner institution. The repository metadata should be showcased on a national Open Science Portal.

Did we tell you this use case takes place in Belgium?

What choices would you suggest? How collection could be organized?

Use case #3

You are responsible for the national Open Science Portal.

Desirable improvements

Desirable improvements

- Current limitations
 - PID sources (one single shoulder / PID source)
 - Exporting metadata only possible after publication
- Possible improvements
 - OAI-PMH (lacks license, object type dataset)
 - DDI support (export / harvesting)
 - Internationalization (only UI and CVs, no multiple languages for other metadata)

Extending functionalities

- Out of the box
 - Advanced metadata customization
 - Long term preservation (BagIt)
- External tools & community tools
 - pyDataverse
 - Data previewers
 - Data explorer
 - Data curation tool
 - Dataverse Feed
- Other tools
 - DP Creator
 - Whole Tale

Advanced metadata customization

Customization can be done, but increases maintenance cost and can create errors.



- Adding new fields
 - It's fine
- Adding controlled vocabularies
 - It's fine but updates are tricky
- Editing existing fields
 - Could break functionalities in the current / upcoming version

Adding translations is needed if supporting multiple languages.

New fields are not supported in the DDI export (but controlled vocabularies are supported for original fields).

Files

Metadata

Terms

Versions

Export Metadata

Citation Metadata

Process Metadata

Engineering Metadata

Metadata for Research Software

Custom metadata blocks at DaRUS (University of Stuttgart) Dataverse instance <https://doi.org/10.18419/darus-2463>

Long term preservation (BagIt)

- Dataverse supports [BagIt](#)
- Research Data Alliance (RDA) conformant
- Workflow can be configured to automatically archive data
- An infrastructure is needed to store the data

A RDM "swiss knife": pyDataverse

- Developed by Stefan Kasberger at AUSSDA
 - (Austrian Social Science Data Archive)
- Provides a python interface to make operations on Dataverse
 - (example: using the API, migrate data, ...)
- Can also be used to explore data
 - (example: download data -> run any script)

<https://pydataverse.readthedocs.io>

Data previewers

- Developed by the Dataverse community
- Currently available:
 - PDF, text
 - Spreadsheet (example shown
<https://doi.org/10.15454/HOBUZH/RC K1NH>)
 - Image, video, audio
 - HTML



DEPOSIT_tab_arguments_animal-or-plant-based-diets_anonymized.tab
Tabular Data - 42.2 KB - Jan 10, 2020 - 41 Downloads
16 Variables, 145 Observations - UNF:6:Wrd5h-XrkFmINNLPI+Vyg==
145 arguments from the web and grey literature

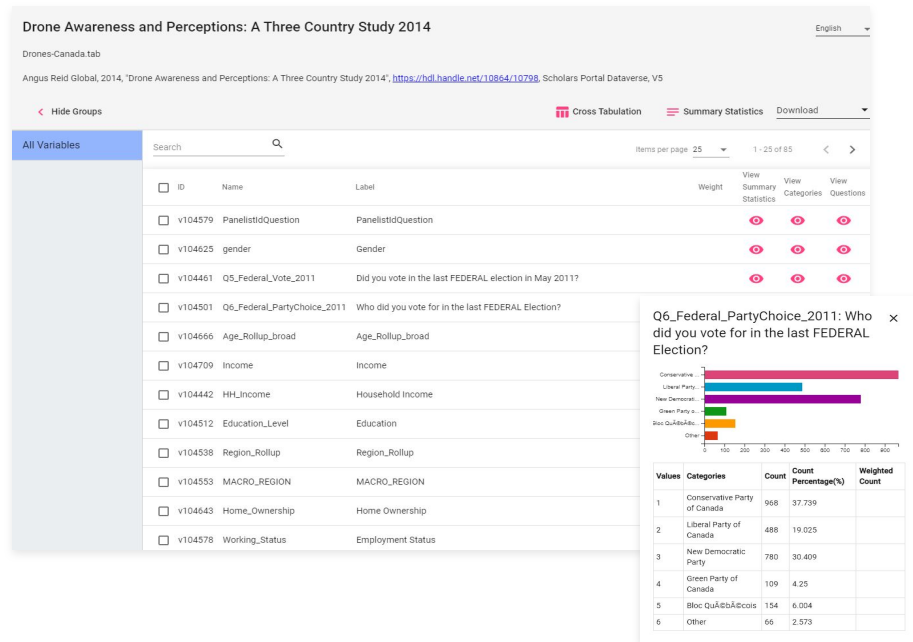


Preview Metadata Versions						
Explore on View Data						
	alternative	argumentType	criterion	aim		
1	Plant-based diet	-	Nutrition and health	Consuming a balanced diet		Vitamin B12
2	Plant-based diet	-	Nutrition and health	Consuming a balanced diet		Proteins
3	Plant-based diet	+	Nutrition and health	Consuming a balanced diet		Proteins
4	Plant-based diet	+	Nutrition and health	Consuming a balanced diet		Proteins
5	Plant-based diet	-	Nutrition and health	Consuming a balanced diet		Protein digestibility
6	Plant-based diet	+	Nutrition and health	Consuming a balanced diet		Protein digestibility
7	Plant-based diet	-	Nutrition and health	Consuming a balanced diet		Protein digestibility

<https://github.com/GlobalDataverseCommunityConsortium/dataverse-previewers>

Data explorer

- Developed by Scholars Portal
- Provides a web application to explore data from (ingested) tabular files



<https://github.com/scholarsportal/dataverse-data-explorer-v2>

Data curation tool

- Developed by Scholars Portal
- Provides a web application to help editing variable-level metadata for tabular files

<https://github.com/scholarsportal/Dataverse-Data-Curation-Tool>

Dataverse Feed

- Prototype
- Easily embed your datasets into an existing webpage
- Customizable (features, appearance)

<https://github.com/CDSP-SCPO/dataverse-feed>

Dataverse Feed

This is an example page using [CDSP-SCPO/dataverse-feed](#) with the [data.sciencespo](#) Dataverse instance. Here are the datasets from the [CDSP](#) collection:

subject_ss:"Social Sciences" X

timePeriodCoveredStart_ss:"2014" X

Publication Year	▼
Topic Classification Term	▼
Author Name	▼
Keyword Term	▼
Time Period Covered End	▼
Geographic Coverage Country / Nation	▼
Language	▼

15 items

Dynamiques de mobilisation - vague 4 (2014)

Tiberj, Vincent; Gougou, Florent, 2020, "Dynamiques de mobilisation - vague 4 (2014)", <https://doi.org/10.21410/7E4/BWYIVL>, data.sciencespo, V7, UNF:6:+kc5MZJ42xVcRwZiplsp5g== [fileUNF]

La majeure partie des connaissances produites en sociologie politique quantitative provient des enquêtes conduites au moment des élections. L'étude longitudinale DYNAMOB est proposée par Florent Gougou, Vincent Tiberj et vingt-cinq politistes français. Elle se distingue des enquêtes classiques en couvrant aussi bien les périodes électorales que les périodes ordinaires. Ce dispositif vise à mesurer...

doi:10.21410/7E4/BWYIVL

Other tools

- Reproducible research tool: [Whole Tale](#)
 - NSF-funded Data Infrastructure Building Block (DIBBS)
- Sensitive data analysis: [DP Creator](#) (in development)
 - Leverages the open source tools from the [OpenDP](#) library (Harvard / Microsoft collaboration)
 - Produce differentially private statistics on Dataverse
- And more!

How to stay tuned / How to contribute to the Dataverse Project

Ways to contribute

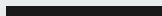
- Bug reports / Feature ideas / Feedback
- Pull requests: source code changes proposals
- Sponsoring issues (GDCC) / Financial support

Dataverse Community

- [Google group](#): official google group for Dataverse users
interested in building a community around Dataverse Network software and expanding its functionality within and beyond social sciences.
- [GitHub](#)
- [Slack](#) / [Matrix](#)
- [Events](#)
 - [Dataverse community calls](#) (~2 per month)
 - [Dataverse community meetings](#) (1 per year)

Thank you

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Accreditation



The DDI and FAIR section (slides 3-15) is adapted from slides authored by the DDI Alliance Training Working Group

Based on content developed at the DDI Train-the-Trainers Dagstuhl workshop 2018

Picture credits - Codebook slide (13)

- Picture 1 (left) credit: woodleywonderworks, <https://www.flickr.com/photos/wwwworks/2472232245> (CC-BY) woodleywonderw
- Picture 2 (right) credit: Stephen Edmonds: <https://www.flickr.com/photos/popcorncx/3516880947/> (CC-BY-SA)