



D-Psy-FAIR Workshop

16 & 17 March, 2022

Leibniz Institute for Psychology (ZPID)

How to create a sustainable & high-quality data documentation of your entire research data process with the help of the D-Psy-FAIR standard

Agenda

Time (CET)	Session
13:00 - 13:15 h	Welcome & overview
13:15 - 13:35 h	Introduction to the subject matter
13:35 - 13:40 h	Technical break
13:40 - 14:25 h	Block A: Writing a study description
14:25 - 14:35 h	Coffee break
14:35 - 15:20 h	Block B: Creating a codebook
15:20 - 16:05 h	Block C: Documenting the data preparation and analysis steps
16:05 - 16:15 h	Coffee break
16:15 - 17:00 h	Block D: Creating a graphical overview of the entire research data process
17:00 - 17:30 h	Discussion & concluding remarks

Let's talk about data documentation...

- Which aspects of data documentation play a role in your daily research practice?



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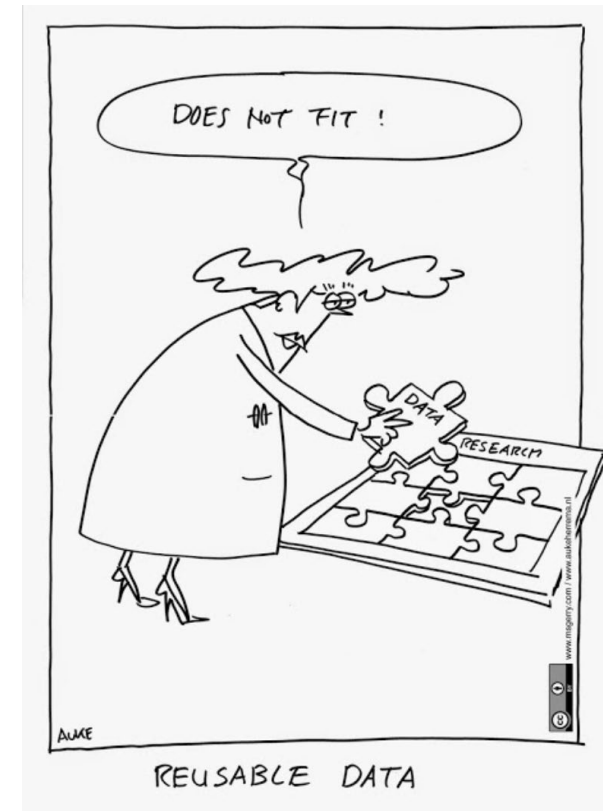
Introducing the subject matter

1. Research data documentation and management in psychology - Why?

- Transparency in scientific research
- Replicability and traceability of research results
- Quality-oriented (re)use of the data



- Good data documentation is always a seal of quality for your data
- Research data management as a fundamental requirement for the sustainability of research data



Introducing the subject matter

- Archiving data for reuse within own professorship / institution
- External archiving / publication of the data for public or scientific use (discipline unspecific platforms like OSF vs. discipline specific repositories like PsychArchives)



Introducing the subject matter

2.) The BMBF-funded project PsyCuraDat

(...) the goal of preserving the long-term interpretability of research data require substantial effort from researchers. This is because psychology is a complex field with multiple assignments to the social sciences, humanities, and natural sciences with correspondingly diverse, hardly standardized qualitative and quantitative methods. Common standards for the documentation of psychological research data that can meet these discipline- and method-specific requirements and thus guarantee the long-term interpretability and re-usability of these data are largely lacking at the moment. (...)

To this end, the project PsyCuraDat aims at the development of user-oriented curation criteria considering the needs of researchers in their role as contributors and users of research data. Thus, the overarching goal is to enable a more effective and efficient documentation and re-use of psychological research data."

<https://leibniz-psychology.org/en/institute/third-party-funded-projects/psycuradat/>

Goals of the PsyCuraDat project

Curation criteria

Development of user-oriented curation criteria for psychological research data.

Re-usability

Improving and facilitating re-usability of the research data.

Funding: BMBF (Federal Ministry of Education and Research)

Duration: 3 years (2019-2022)

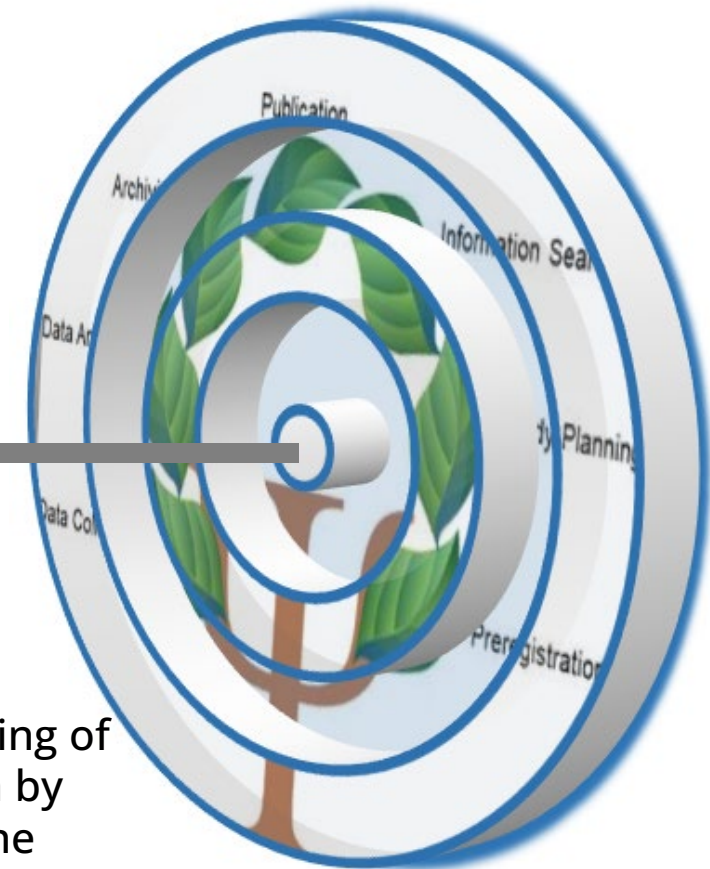
Project manager: Dr. Katarina Blask

Standard

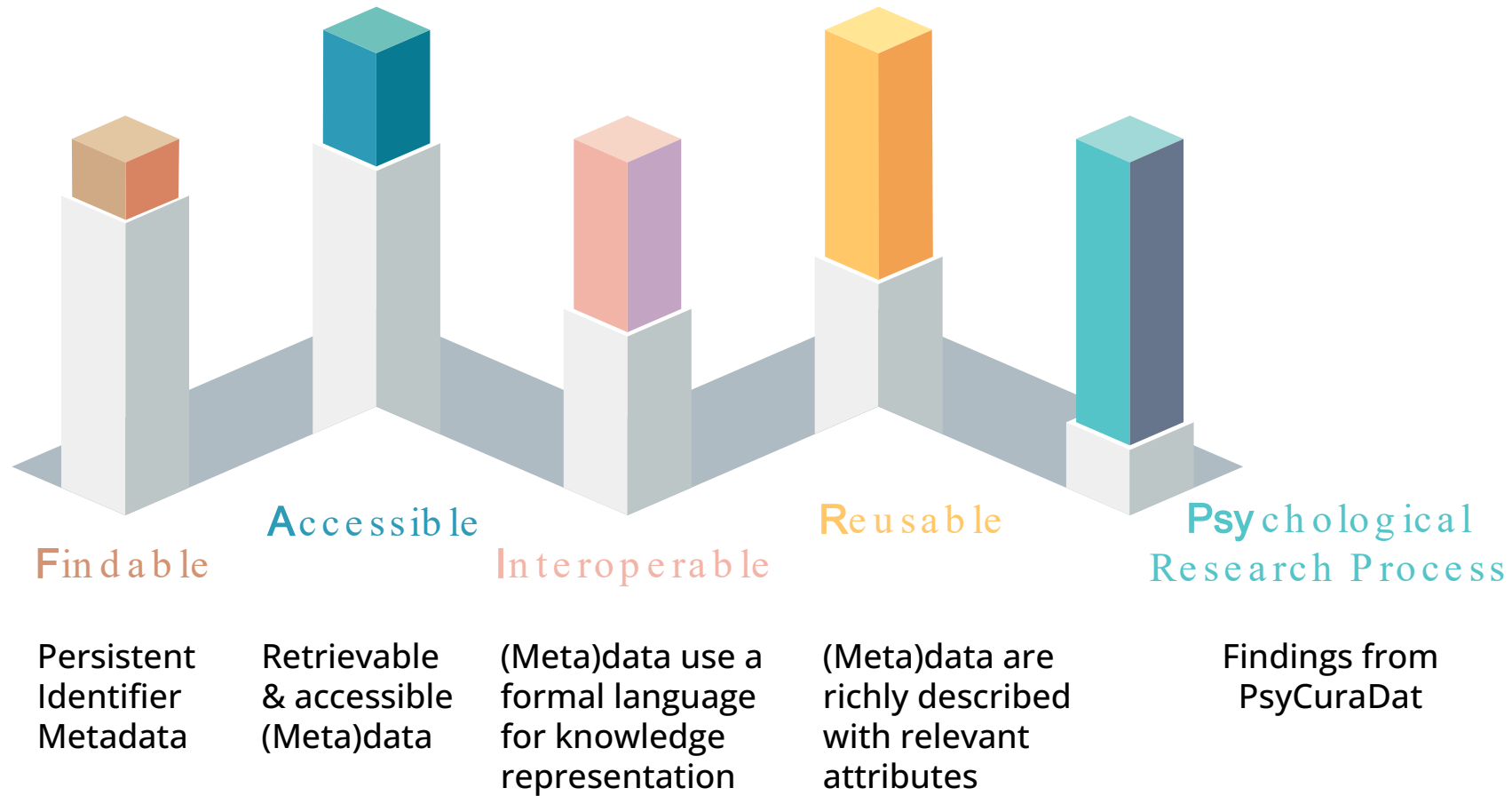
Establishing a coherent standard for sharing psychological research data.

Data Sharing

Increase sharing of research data by introducing the standard.

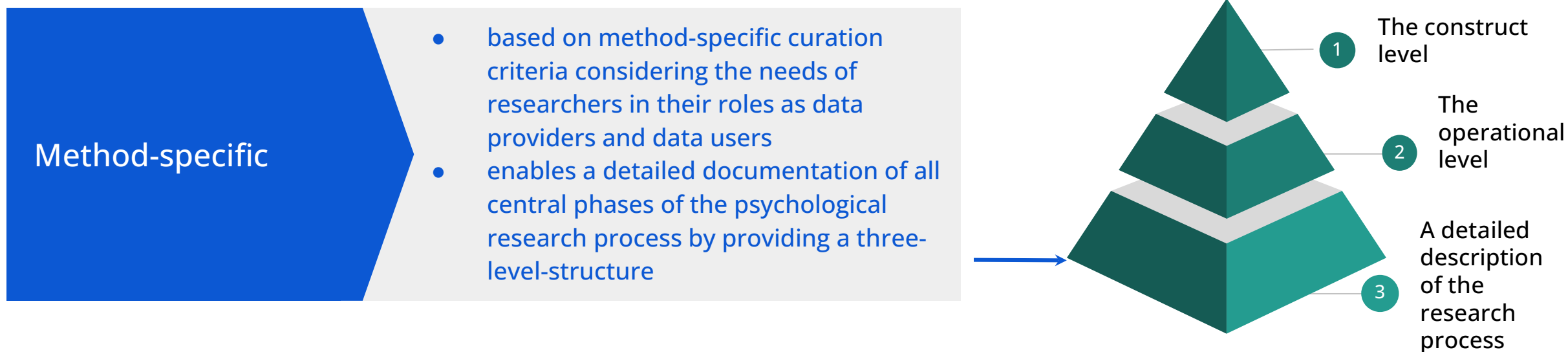


User-oriented curation criteria



D-Psy-FAIR- Providing a key to your data

The D-Psy-FAIR Standard - a user-friendly curation standard enabling the sustainable reuse of psychological research data



D-Psy-FAIR- Providing a key to your data

The D-Psy-FAIR Standard - a user-friendly curation standard enabling the sustainable reuse of psychological research data

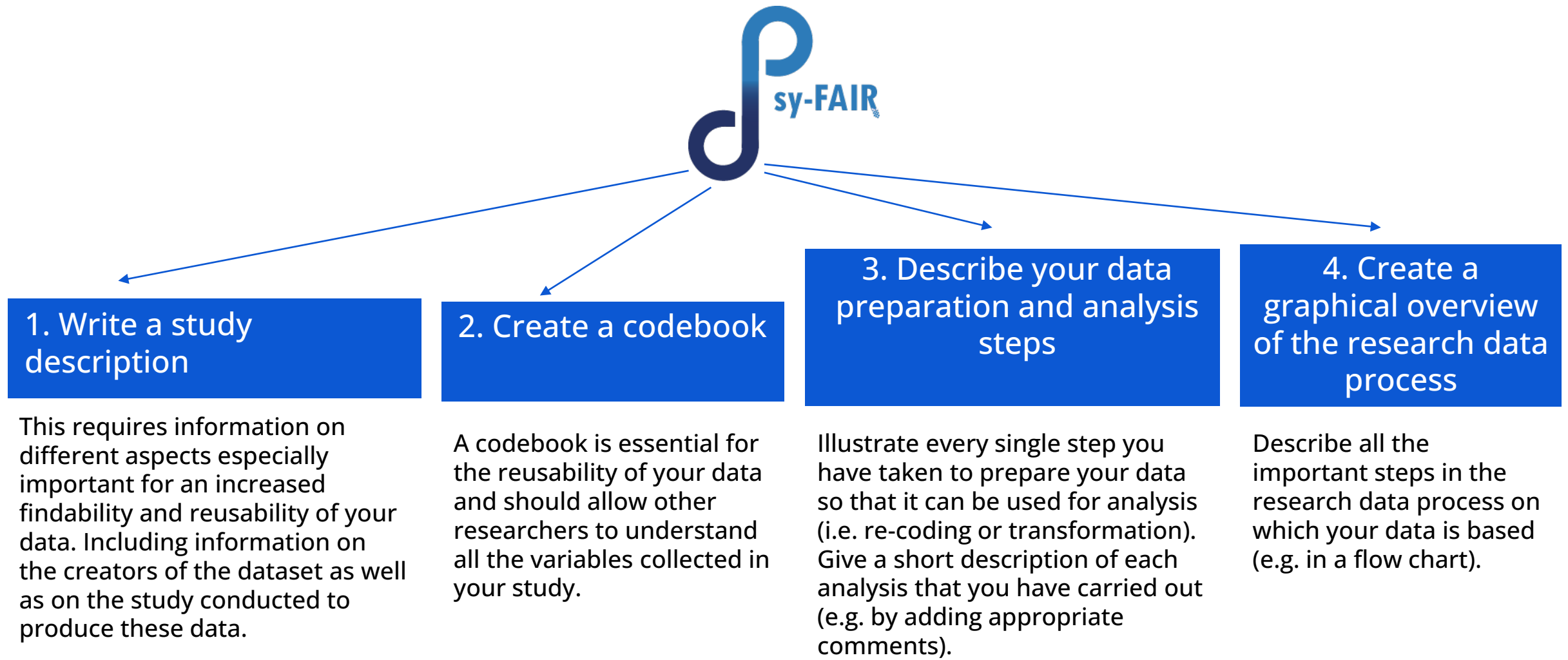
Effective & efficient

- enables an effective and efficient documentation and organization of psychological research data for the individual research process
- guarantees the data's long term interpretability & reusability

User-friendly

- provides an information architecture with a maximum of usability: an easy-to-use and easy-to-learn data documentation structure

How to use D-PsyFAIR- A 4 step data documentation



Just 4 steps- Easy to integrate in your research process

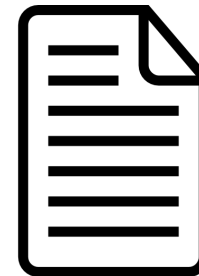


1. Write a study description

2. Create a codebook

3. Describe your data preparation and analysis steps

4. Create a graphical overview of the research data process



Text-file
R-Script
SPSS-script
PDF/A



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Technical check

- Have you registered to *DataWiz* yet?
- Are the materials at hand?



Registration & account login

leibniz-psychology.org

Contact

Account Login


Login



id ORCID account



Leibniz Psychology account





Don't have a Leibniz Psychology account yet? Register here!



HIDRIVE Folder



IONOS by  **HIDRIVE**



 |  **D-Ps-FAIR Workshop**


 **Alles herunterladen**  **Mehr**

 **Sortierung** |   

 
Versuchsmateri...

 
data_study1.csv

 
PDF

 **Deutsch** | **Impressum**



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Block A - Creating a study description with D-Psy-FAIR

Why is a study description so important?

- contains relevant metadata and all additional information necessary for the interpretation of the actual data
- provides important metadata enabling reusability and also findability of the published research data
- relevant metadata: e.g. bibliographic metadata, descriptive metadata

Block A - Creating a study description with D-Psy-FAIR

A detailed study description according to the D-Psy-FAIR standard includes information on the following aspects of your study:

- Information about the authors / creators of the dataset
- Publications associated with the dataset
- Objectives & hypotheses
- Sample & design:
 - Inclusion & exclusion criteria
 - Population
 - Sampling method & sampling size
 - Setting
 - Methodological approach
 - Number of measures
 - etc.

Registration in DataWiz



DataWiz — the data management tool for researching psychologists

Here's how DataWiz helps you during the whole research process:

Data documentation

Years of experience with the research data center PsychData have shown that data management is most effective when it is instated early, preferably concomitant with the research process.

- Document your studies
- Add and edit codebooks
- Upload materials
- Export in open data formats

The screenshot shows the 'Edit codebook' interface in DataWiz. It features a table with columns for 'Variable name', 'Variable label', 'Item text', 'Value labels', 'Missings', and 'Measure'. The table lists 12 variables, including 'WTP', 'COUNT', 'DOMAIN', 'PREC', 'AOC', 'SAC', 'PK', 'SPK', 'REL_AOC', 'REL_PK', 'contrast_1', and 'gender'. To the right of the table, there is a 'Description of variable' panel for the selected 'WTP' variable, showing fields for 'Variable name', 'Variable label', 'Item text', 'Measure', 'Value labels', and 'Missings'. The interface also includes a search bar, a 'Help' button, and a 'Save' button.

Using DataWiz2 to create a study description

Dashboard

Data documentation

Document research data, add datasets, edit codebooks, and export your studies in open formats.

Open data documentation tool

Coming soon!

Ethics application forms

Write ethics approval applications with style.

Related products on leibniz-psychology.org

PreReg in Psychology

By using preregistration, researchers can verify that their studies have been conducted, analyzed, and reported as initially specified.

PsychNotebook

PsychNotebook is a web-based platform for planning and analyzing studies in the field of psychology and related disciplines.

First steps in DataWiz

The image displays two screenshots of the DataWiz web application interface, illustrating the first steps in data documentation.

Left Screenshot: Data documentation page

- Header:** DataWiz ^{beta} | Dashboard | Data documentation | User Profile | Logout
- Section: Data documentation**
 - Document research data, add datasets and materials, then export and share your data in
 - Create new documentation** (button circled in red)
- Section: My data documentations**
 - [haha](#)
 - Title: jtzt
 - Datasets: SPSS_Vertikal_04_06.sav Umfrageda
 - Materials:
 - [PsyCuraDat_UserStudy1_WP2](#)
 - Title:
 - Datasets: PsyCuraDat_UserStudy_2_1_v-1-0-0
 - Materials:

Right Screenshot: Create new documentation page

- Header:** DataWiz ^{beta} | Dashboard | Data documentation
- Section: Why data documentation is so**
- Create new documentation**
 - Provide a short name for your documentation
 -
 - Create documentation** (button circled in red)

First steps in DataWiz

← [My data documentations](#)

test 

Getting Started

1. Describe your study

Resource description

Study goals

Study method

Data collection

Sampling

2. Upload and describe datasets

3. Upload materials


4. Review input



5. Export

⚙ Settings

Getting Started

DataWiz will guide you through a few short steps to describe your study and its research data so others can find, understand, and reuse it more easily. The result is a **ZIP file** that you can upload to a data repository.

You can **navigate** the steps using the sidebar  on the left or use the buttons at the bottom of each page to move forward or back.

If you need **help** with any input field, you'll find more info in the sidebar  on the right - just click the  button.

There's a brief summary of each step below,


Start with step 1



Summary of steps

1. In step 1, **Describe your study**, you'll document information *about* the study and the research data itself. We'll ask you about **basic information** (title, description, associated articles, and people that contributed to the study and to data collection), **goals** and hypotheses of the study, the study's research **method** (experimental, observational etc.), how the **data were collected**, and finally, in **Sampling**, about the study's subjects and how they were chosen.
2. In **Upload and describe datasets** you'll do just that, so *be sure to have your research data files ready*. You'll be able to create a **codebook** to describe the variables and values in your data matrix. (If your data is already in a sustainable, open CSV format, you can skip this step.)

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There's a brief summary of each step below, or you can jump right in:

Start with step 1

Summary of steps

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[Step 1: Describe your study](#) →

Creating a study description

DataWiz

beta

Dashboard

Data documentation

User Profile

Logout

← [My data documentations](#)

test

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1. Describe your study

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Settings

Resource description

Title

Provide a title for your dataset

Description

Briefly describe the study in which you collected the research data

Resource description help


The resource description describes and identifies your data and enables other researchers to find and cite it. It makes it visible to search engines and retrieval systems. It identifies you as the creator and ensures that you get appropriate credit for your work.

Title

Description

Related publications


Creators



leibniz-psychology.org

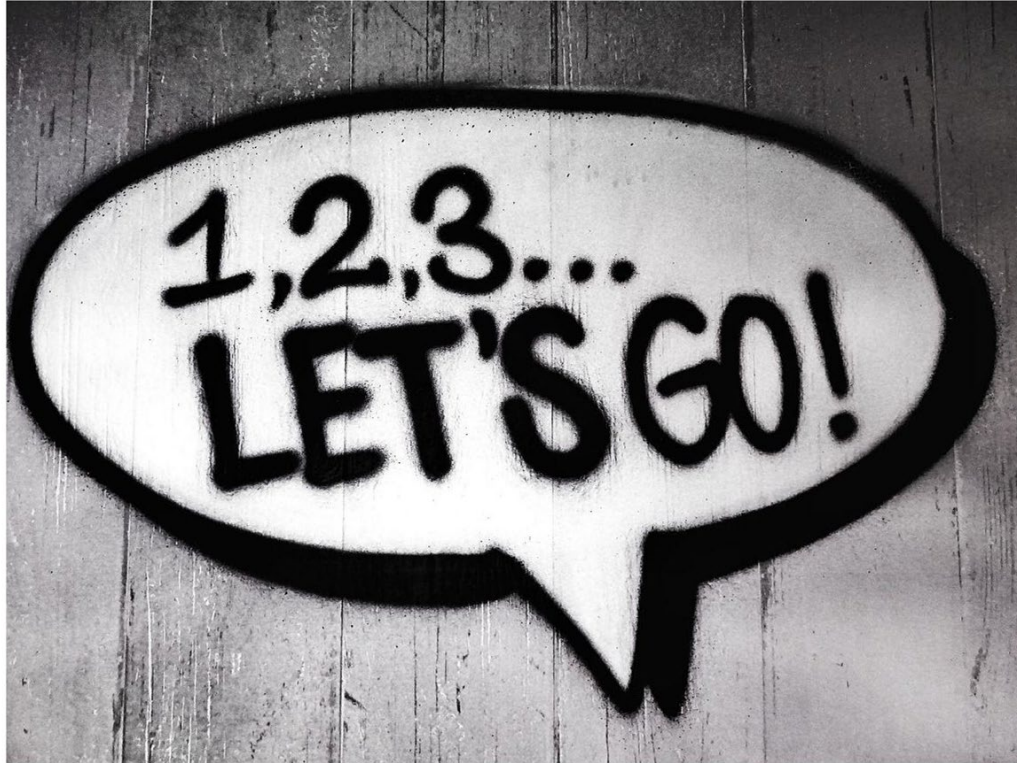
D-Psy-FAIR Workshop, 16 & 17 March, 2022

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Leibniz
Gemeinschaft

Theory into practice



And now it's your turn!

Managing your data documentation with D-Psy-FAIR

D-Psy-FAIR structure

Study

Readme.pdf

Study_description.json

Data

Study_data.csv

Codebook

Study_codebook.json

Procedure

Study_Procedure.pdf

Material

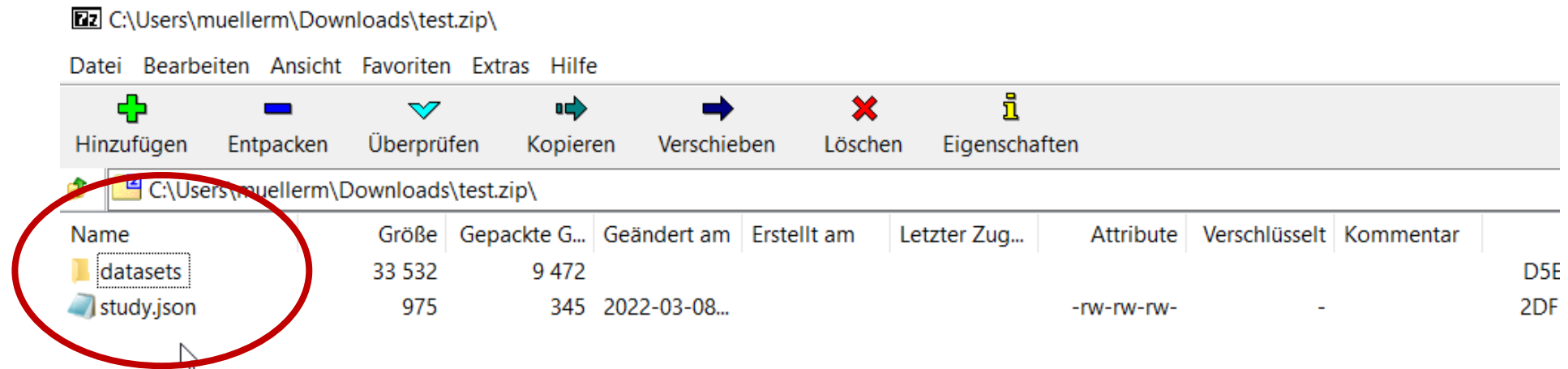
Study_Questionnaire.pdf

Code

Study_das.txt

Managing your data documentation with D-Psy-FAIR


DataWiz output /
documentation
export



Evaluation & discussion



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Block B - Creating a codebook with D-Psy-FAIR

What is a codebook and why is it so important?

- formally the codebook can be best described as a tabular list describing the contents, structure, and layout of a data collection by providing detailed variable descriptions
- provides important metadata enabling reusability and also findability of the published research data
- ideally it enables the user to fully understand and replicate the realized procedure of the study: therefore, the order of the variables in the codebook should reflect the actual procedure

Block B - Creating a codebook with D-Psy-FAIR

Therefore, and according to the D-Psy-FAIR standard a codebook should contain the following information about each variable within the dataset:

- Name = a short meaningful name of the variable, relating to the variable's content; only small letters should be used; instead of space, a underline character should be applied (e.g. us_pos)
- Label = a more comprehensive description of the variable (e.g., positive unconditioned stimuli)
- Item text = the exact question in surveys; the instruction text
- Values = describes the value range of a given variable; in case of paradata (e.g., instructions, material) the relevant file name wherein the concrete information should be indicated
- Missing = specifies missing values (e.g., 99 for unanswered questions)
- Measure = the measure used for the dependent variable as defined in the study documentation

Creating a codebook in DataWiz

The screenshot displays the DataWiz web application interface. At the top, the header includes the DataWiz logo (marked as beta), navigation links for Dashboard and Data documentation, and user options for User Profile and Logout. The main content area is divided into three columns. The left column contains a sidebar menu for a project named 'test', with the second item, '2. Upload and describe datasets', highlighted. The middle column shows a duplicate of this sidebar menu. The right column is the main workspace, titled 'Upload and describe datasets'. It features a large dashed box for file uploads with a green 'Upload files' button and the instruction 'Or drag files here to upload.' Below this, a section titled 'My datasets' shows a table with one dataset entry: 'PsyCuraDat_UserStudy_2_1_v-1-0-0_SUF.sav'. The entry includes an 'Upload date' of 'January 30, 2022 12:20' and a 'File size' of '2.90 MiB'. Action buttons for 'Add description', 'Edit codebook', and 'Delete' are visible for this dataset. At the bottom of the workspace, there are navigation links for 'Sampling' and 'Upload materials'. On the far right, a 'Datasets help' sidebar provides information on file structure and formats.

DataWiz beta Dashboard **Data documentation** User Profile Logout

← [My data documentations](#)

test

- Getting Started
- 1. Describe your study
- Resource description
 - Study goals
 - Study method
 - Data collection
 - Sampling
- 2. Upload and describe datasets**
- 3. Upload materials
- 4. Review input
- 5. Export
- Settings

← [My data documentations](#)

test

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Upload and describe datasets

Upload files

Or drag files here to upload.

My datasets

PsyCuraDat_UserStudy_2_1_v-1-0-0_SUF.sav	Delete
Upload date January 30, 2022 12:20 File size 2.90 MiB	
<input type="button" value="Add description"/>	
<input type="button" value="Edit codebook"/>	

← [Sampling](#) [Upload materials](#) →

Datasets help

You can upload one or more files for your study.

File structure

The research data must be in flat rectangular files. Each row represents a different variable, while each column represents a different observation (e.g. subjects).

File formats

Possible file formats are SPSS (.sav) files [according to IBM, .sav extension) are backward and forward compatible. Tab separated files (.tsv) and comma separated files (.csv). DataWiz will import the data (variable attributes) into its codebook and read the variable names (headers) from the first row of the files.

My datasets

Creating a codebook in DataWiz

← My datasets
View data matrix
Edit codebook
PsyCuraDat_UserStudy_2_1_v-1-0-0_SUF.sav
Search variables
Help
Save

	Variable name ?	Variable label ?	Item text ?	Value labels ?	Missings ?	Measure ?
1 ↕	ID	Person Index		Add labels	Add missings	Select measure
2 ↕	study	study number		Add labels	Add missings	Select measure
3 ↕	version	archive version		Add labels	Add missings	Select measure
4 ↕	year	survey year		Add labels	Add missings	Select measure
5 ↕	period	survey period		Add labels	Add missings	Select measure
6 ↕	Date	Date on which the survey was e		Add labels	Add missings	Select measure
7 ↕	VP_Code	VP Code		Add labels	Add missings	Select measure
8 ↕	Condition	Standard/Study condition		0.0 = PsyCuraDat.Stu...	Add missings	Select measure
9 ↕	PsyCuraDat_BIDS	Coding of standard condition ac		1.0 = PsyCuraDat..2.0...	Add missings	Select measure
10 ↕	T1	Task 1		Add labels	Add missings	Select measure
11 ↕	T1_corr	accuracy Task 1		Add labels	99.0	Select measure
12 ↕	T2	Task 2		0 = not correctly ans...	Add missings	Select measure
13 ↕	T2_corr	accuracy Task 2		Add labels	99.0	Select measure
14 ↕	T3	Task 3		0 = not correctly ans...	Add missings	Select measure
15 ↕	T3_corr	accuracy Task 3		Add labels	99.0	Select measure

Description of variable 1

Variable name: ID
Variable label: Person Index
Item text:

Measure Copy to
Select measure Edit measures

Value labels Copy to
 = + Add another value label

Missings Copy to
 = Label (optional) + Add another missing

Creating a codebook in DataWiz

← My datasets View data matrix **Edit codebook** PsyCuraDat_UserStudy_2_1_v1-0-0_SUF.sav Search variables Help Save

Variable name	Variable label	Item text	Value labels	Missings	Measure
1 ID	Person Index		Add labels	Add missings	Select measure
2 study	study number		Add labels	Add missings	Select measure
3 version	archive version		Add labels	Add missings	Select measure
4 year	survey year		Add labels	Add missings	Select measure
5 period	survey period		Add labels	Add missings	Select measure
6 Date	Date on which the survey was edited		Add labels	Add missings	Select measure
7 VP_Code	VP Code		Add labels	Add missings	Select measure
8 Condition	Standard/Study condition		0.0 = PsyCuraDat_Study.1.1...	Add missings	Select measure
9 PsyCuraDat_BIDS	Coding of standard condition across stu		1.0 = PsyCuraDat_2.0 = BIDS	Add missings	Select measure
10 T1	Task 1		Add labels	Add missings	Select measure
11 T1_corr	accuracy Task 1		Add labels	99.0	Select measure
12 T2	Task 2		0 = not correctly answered,...	Add missings	Select measure
13 T2_corr	accuracy Task 2		Add labels	99.0	Select measure
14 T3	Task 3		0 = not correctly answered,...	Add missings	Select measure
15 T3_corr	accuracy Task 3		Add labels	99.0	Select measure
16 T4	Task 4		0 = not correctly answered,...	Add missings	Select measure
17 T4_corr	accuracy Task 4		Add labels	99.0	Select measure
18 T5	Task 5		0 = not correctly answered,...	Add missings	Select measure
19 T5_corr	accuracy Task 5		Add labels	99.0	Select measure
20 G_Score	sum score task accuracy		Add labels	Add missings	Select measure
21 FQ1	Interruptions during task completion		Add labels	Add missings	Select measure
22 FQ2	perceived usability of the standard		1.0 = not user friendly at all,...	999.0	Select measure
23 FQ3_1	no experience in secondary data use		0 = false, 1 = true	Add missings	Select measure
24 FQ3_2	courses		0 = false, 1 = true	Add missings	Select measure
25 FQ3_3	student projects		0 = false, 1 = true	Add missings	Select measure

Description of variable 1

Variable name: ID
Variable label: Person Index
Item text:

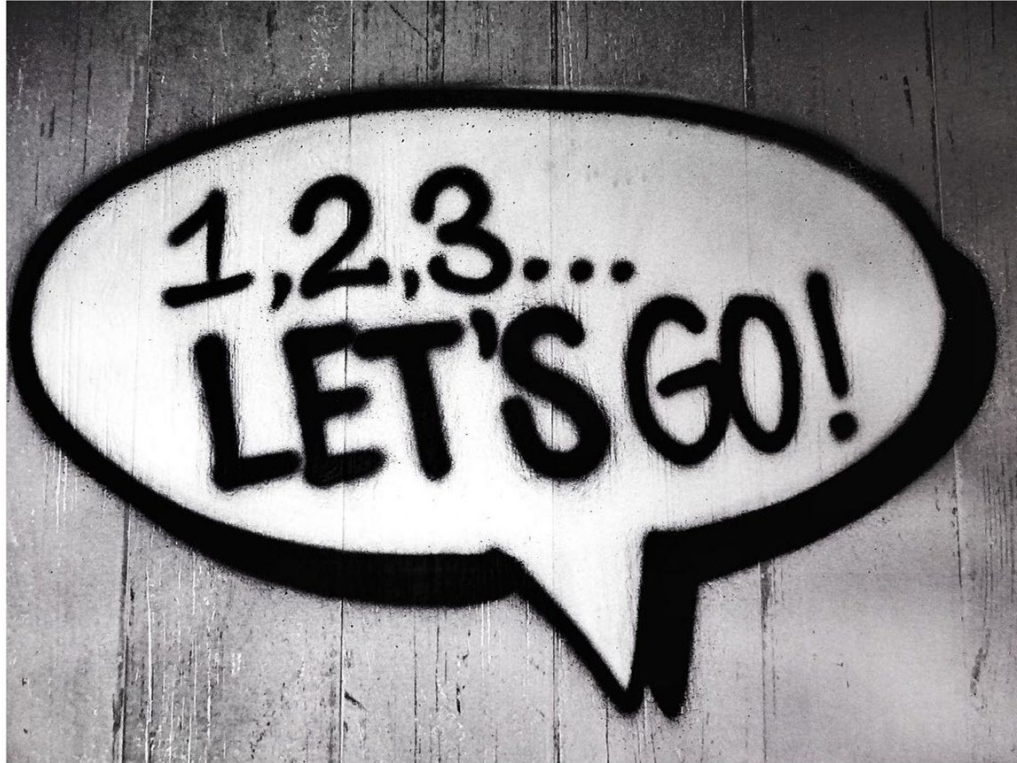
Measure Copy to
Select measure Edit measures

Value labels Copy to
Select variables

1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
16 17 18 19 20
21 22 23 24 25
26 27 28 29 30
31 32 33 34 35
36 37 38 39 40
41 42 43 44 45
46 47 48 49 50

timeSpentactionDetails_0

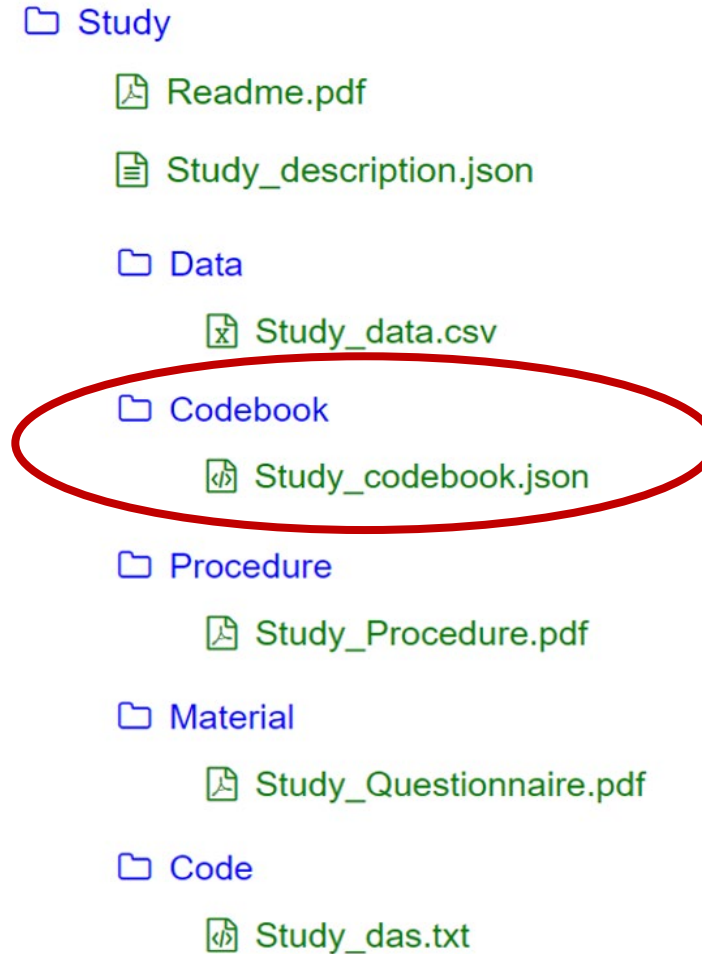
Theory into practice



And now it's your turn!

Managing your data documentation with D-Psy-FAIR

D-Psy-FAIR structure



Evaluation & discussion



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Block C - Documenting the data preparation and analysis steps with D-Psy-FAIR

Describe every single step you have taken to prepare your data so that it can be used for analysis.

Give a short description of each analysis that you have carried out (e.g. by adding appropriate comments in your evaluation script).

Example data analysis script (SPSS)

```
* Encoding: UTF-8.  
****Use file 'Study1_Data.sav' to reproduce analyses for Study 1  
  
**Screening for multivariate outliers
```

```
REGRESSION  
/MISSING LISTWISE  
/STATISTICS COEFF OUTS R ANOVA  
/CRITERIA=PIN(.05) POUT(.10)  
/NOORIGIN  
/DEPENDENT VPN  
/METHOD=ENTER Emo_mean Mind_mean FourN_mean  
/SAVE MAHAL.
```

```
COMPUTE Probability_MD=1- CDF.CHISQ(MAH_1,3).  
EXECUTE.
```

```
**Set filter:  
* Probability_MD has to be p <=.001
```

```
USE ALL.  
COMPUTE filter_$=(VPN ~= 100).  
VARIABLE LABELS filter_$ 'VPN ~= 100 (FILTER)'.  
VALUE LABELS filter_$ 0 'No' 1 'Yes'.
```

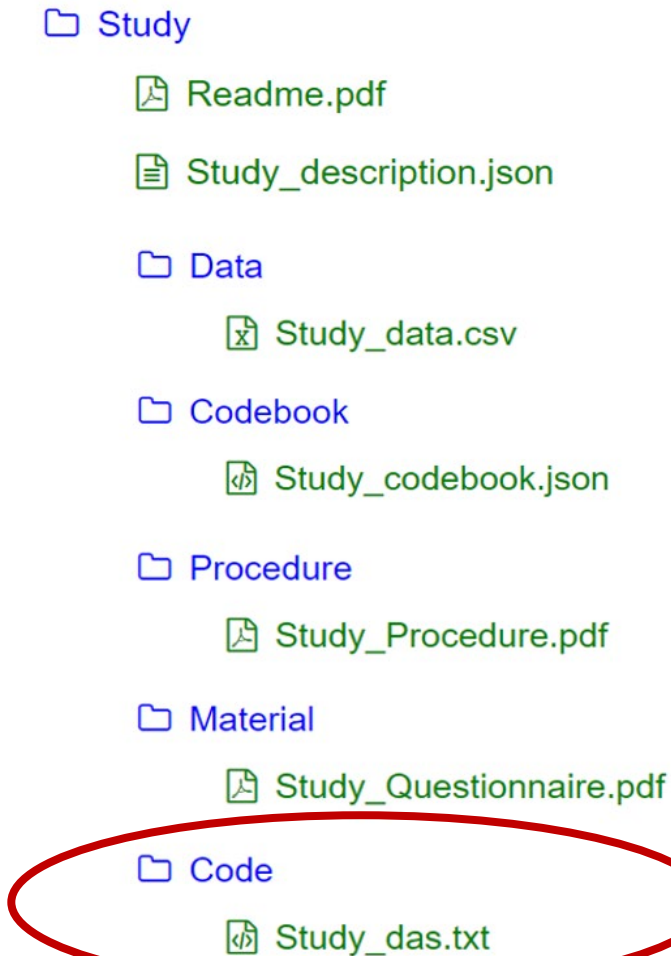
Block C - Documenting the data preparation and analysis steps with D-Psy-FAIR

Documenting data preparation and analysis

- Goal: Documenting the steps from raw(-est) data to analyzed data as best as possible
- Provide non-proprietary files
 - UTF-8 coded
 - open(ish) formats
 - the more comprehensible the better (proprietary syntax, coding habits)
- Usecase dependent
 - In-script documentation vs. external documentation

Managing your data documentation with D-Psy-FAIR

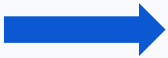
D-Psy-FAIR structure



Evaluation & discussion



Agenda

Time (CET)	Session
13:00 - 13:15 h	Welcome & overview
13:15 - 13:35 h	Introduction to the subject matter
13:35 - 13:40 h	Technical break
13:40 - 14:25 h	Block A: Writing a study description
14:25 - 14:35 h	Coffee break
14:35 - 15:20 h	Block B: Creating a codebook
15:20 - 16:05 h	Block C: Documenting the data preparation and analysis steps
16:05 - 16:15 h	Coffee break  See you in 10 minutes!
16:15 - 17:00 h	Block D: Creating a graphical overview of the entire research data process
17:00 - 17:30 h	Discussion & concluding remarks

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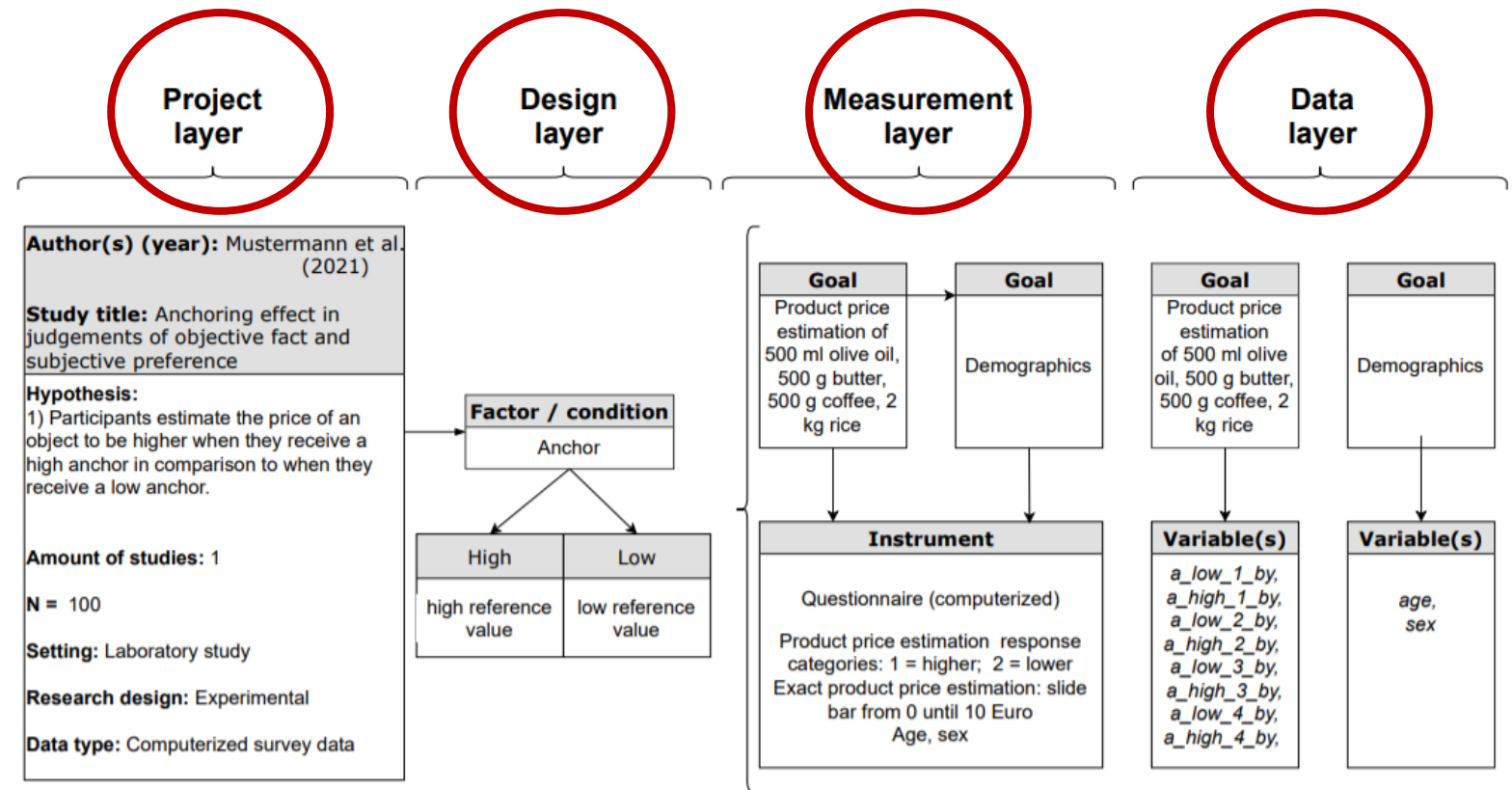
Block D - Creating a graphical overview of the research data process

➤ Describe all the important steps in the research data process on which your data is based.

➤ Start with the project / study structure picturing the research design and its implementation.

➤ Then move on to the various research methods that you have used,

➤ and finish with the mapping of the data that have resulted from their application.



Note: The study used to exemplify this graphical overview is based on Anderson et. al (2021). Anchoring effect in judgements of objective fact and subjective preference. *Food Quality and Preference*, 88. DOI: <https://doi.org/10.1016/j.foodqual.2020.104102>

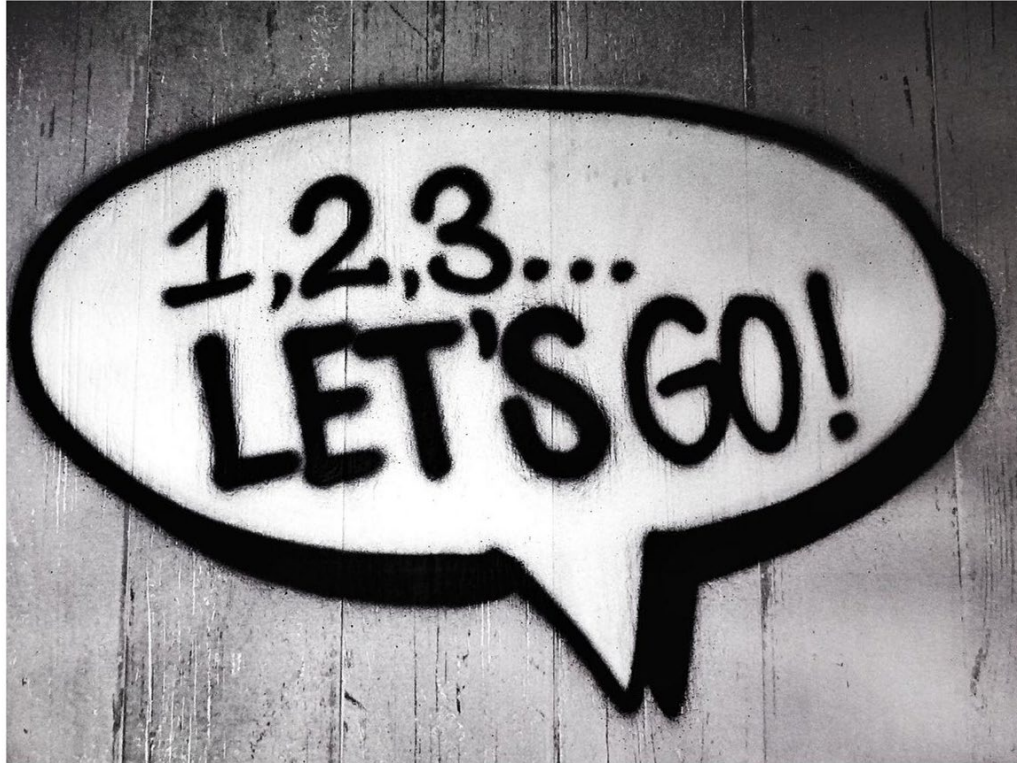
Block D - Creating a graphical overview of the research data process

Software recommendations

- *Open, free, Multi OS:* yEd (Desktop & Browser), draw.io (Browser), OpenOffice Draw
- *Commercial / Windows Only:* MS Office (Visio, PowerPoint)
- Filetypes
 - PDF or HTML export



Theory into practice



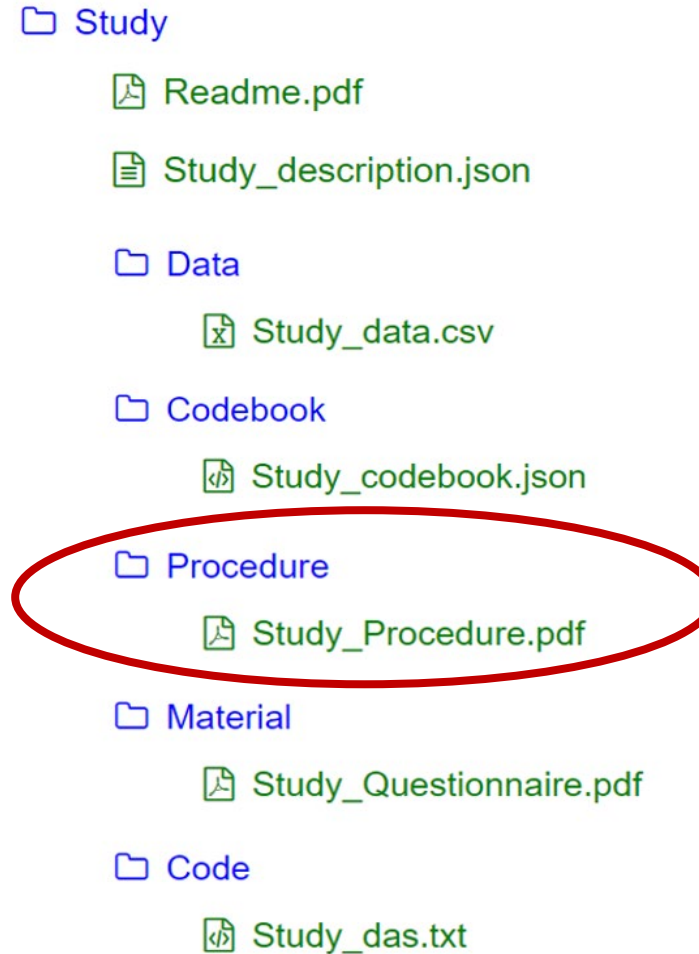
And now it's your turn!

<https://app.diagrams.net/>

<https://www.yworks.com/yed-live/>

Managing your data documentation with D-Psy-FAIR

D-Psy-FAIR structure



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Evaluation & discussion



Thank you for your participation
and attention!



Contact

Do you have any questions?

Please, contact:

PsyCuraDat@leibniz-psychology.org

If you seek any further information, go to
our [project website!](#)

