

# *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	<b>Introduction to the subject matter</b>
13:35 - 13:40 h	Technical break
13:40 - 14:25 h	<b>Block A: Writing a study description</b>
14:25 - 14:35 h	Coffee break
14:35 - 15:20 h	<b>Block B: Creating a codebook</b>
15:20 - 16:05 h	<b>Block C: Documenting the data preparation and analysis steps</b>
16:05 - 16:15 h	Coffee break
16:15 - 17:00 h	<b>Block D: Creating a graphical overview of the entire research data process</b>
17:00 - 17:30 h	<b>Discussion &amp; concluding remarks</b>

# Let's talk about data documentation...

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



# Agenda

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

# 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)

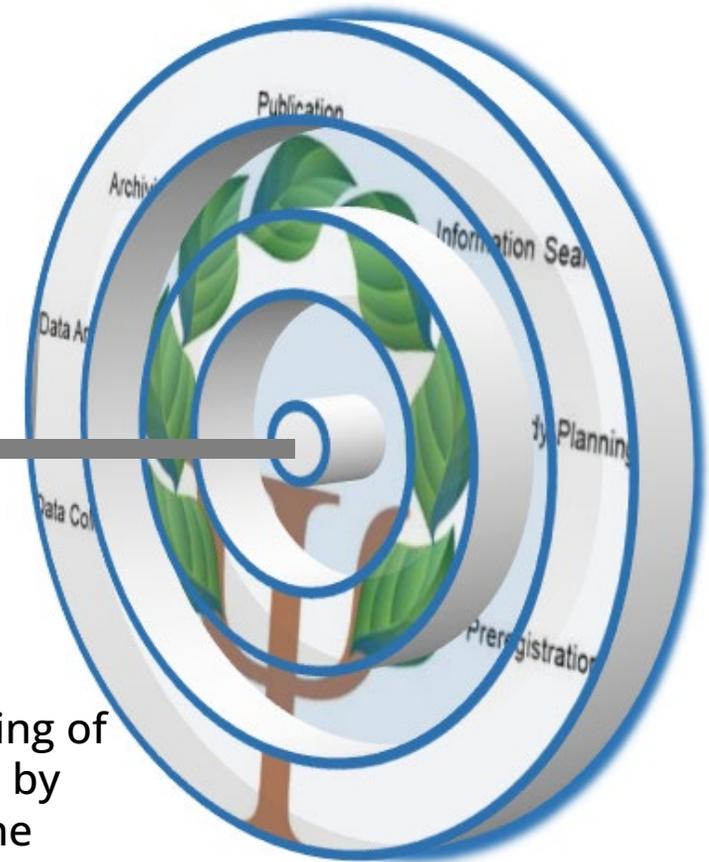
Project manager: Dr. Katarina Blask

## Standard

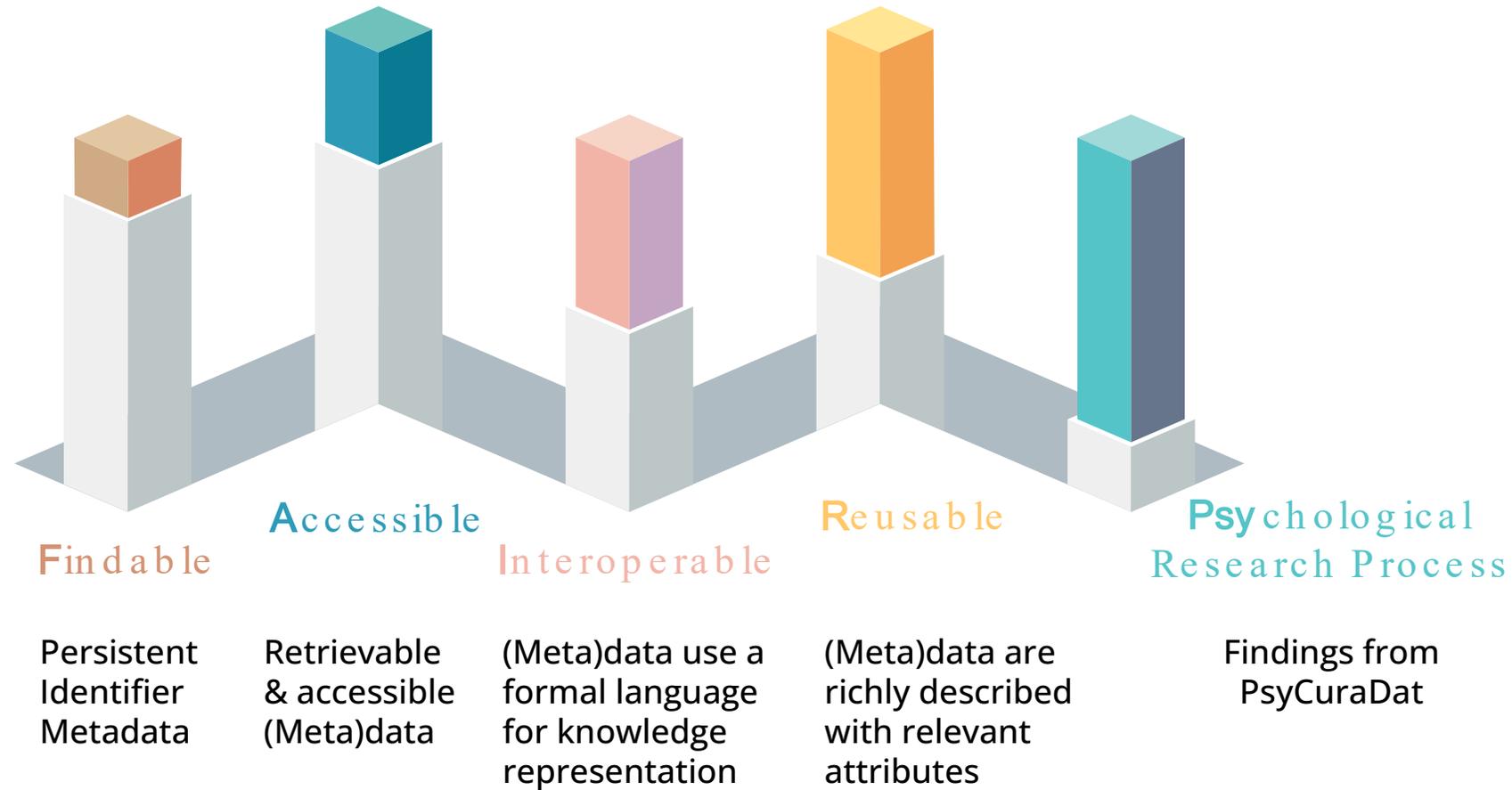
Establishing a coherent standard for sharing psychological research data.

## Data Sharing

Increase sharing of research data by introducing the standard.



# User-oriented curation criteria

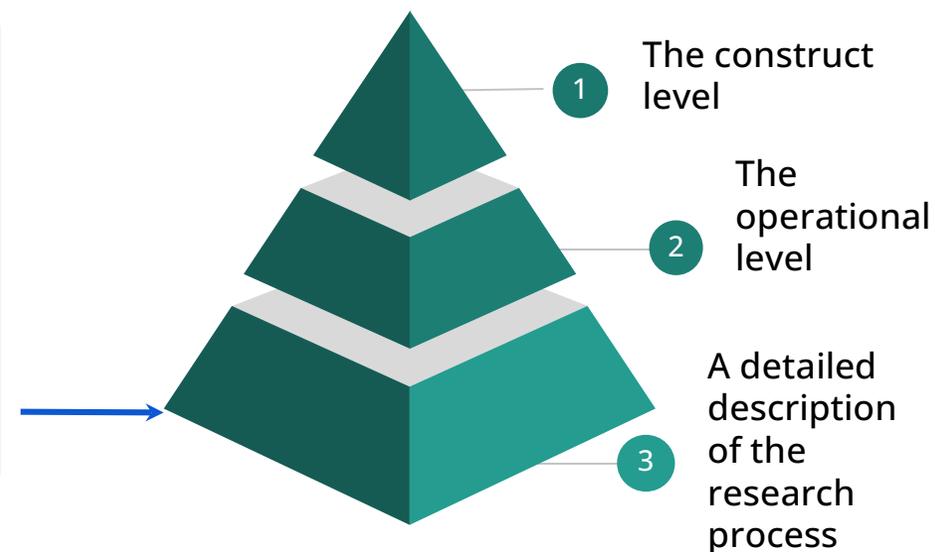


# D-Psy-FAIR- Providing a key to your data

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

Method-specific

- based on method-specific curation criteria considering the needs of researchers in their roles as data providers and data users
- enables a detailed documentation of all central phases of the psychological research process by providing a three-level-structure



# 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

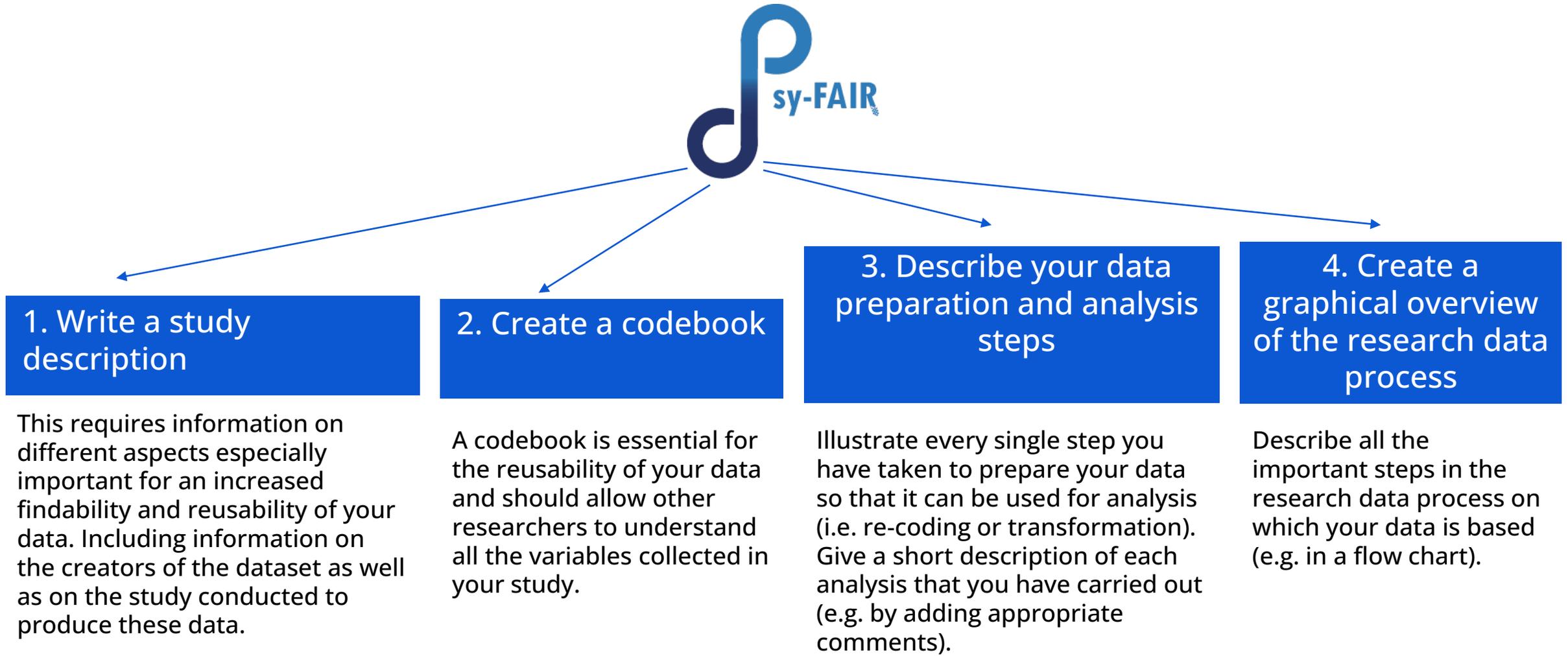
Effective & efficient

- 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

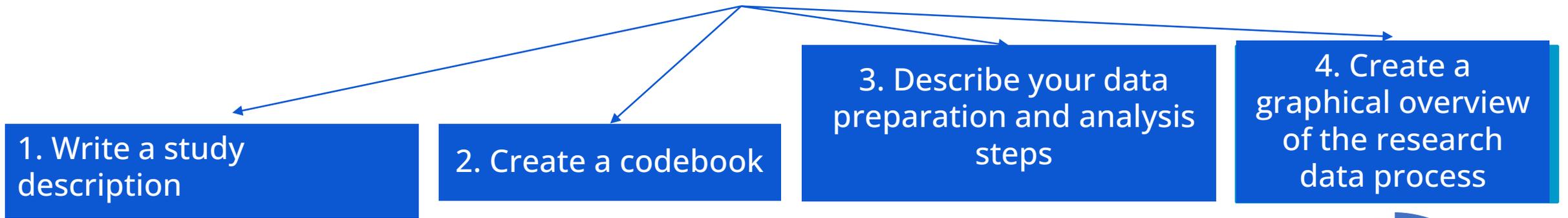
User-friendly

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

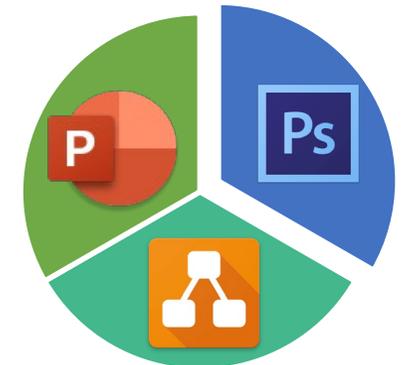
# How to use D-Psy-FAIR - A 4 step data documentation



# Just 4 steps- Easy to integrate in your research process



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

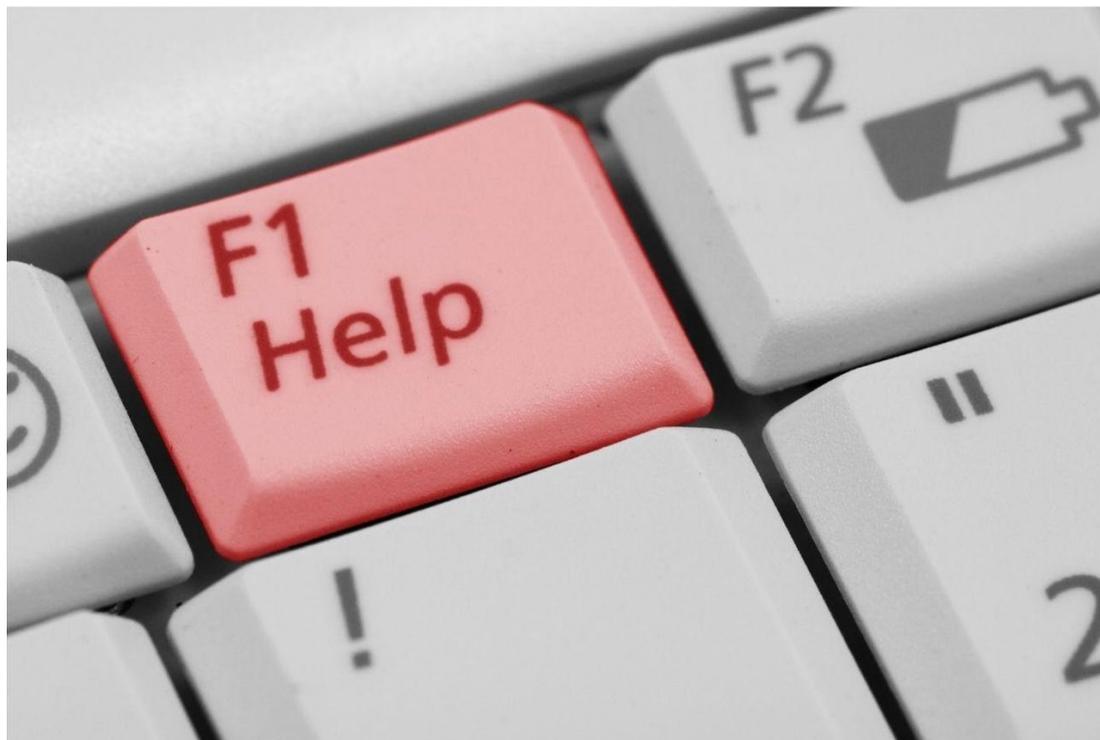


# Agenda

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

## 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 1&1 HIDRIVE

↑ | 📁 ▾ D-Ps-FAIR Workshop

Alles herunterladen | Mehr

Sortierung | 📄 🗃️ 🖼️

Versuchsmateri... data\_study1.csv PDF

Deutsch | Impressum

# Agenda

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

# 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 <sup>beta</sup>

Research data management made easy!

Dashboard Data documentation

User Profile

Logout

## 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 DataWiz interface with a table of variables and a detailed view of the 'WTP' variable.

Variable name	Variable label	Item text	Value labels	Missings	Measure	Description of variable
1 WTP	Willingness to pay		Add labels	Add missings	Select measure	<p>Variable name: WTP Variable label: Willingness to pay Item text:</p> <p>Measure: Copy to • Select measure → Edit measures</p> <p>Value labels: Copy to • + Add another value label</p> <p>Missings: Copy to • Label (optional) + Add another missing</p>
2 COUNT	Courseoffer		Add labels	Add missings	Select measure	
3 DOMAIN	Domain: within domain=1	1.0 = within dom...	Add labels	Add missings	Select measure	
4 PREC	Precision: round=1, mock	1.0 = round 2.0	Add labels	Add missings	Select measure	
5 ADC	Competence attributed to		Add labels	Add missings	Select measure	
6 SADC	Self ascribed competenc		Add labels	Add missings	Select measure	
7 PK	Price knowledge		Add labels	Add missings	Select measure	
8 SPK	Self ascribed price knowl		Add labels	Add missings	Select measure	
9 REL_ADC	relative perceived attribu		Add labels	Add missings	Select measure	
10 REL_PK	relative perceived price k		Add labels	Add missings	Select measure	
11 contrast_1	quadratic contrast for mv		Add labels	Add missings	Select measure	
12 gender	Gender	0 = nicht besatt ... 8, 9			Select measure	

# 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

### Ethics application forms

Write ethics approval applications with style.

Coming soon!

## Related products on [leibniz-psychology.org](https://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 shows two screenshots of the DataWiz beta interface. The top screenshot displays the 'Data documentation' page with a navigation bar containing 'DataWiz beta', 'Dashboard', 'Data documentation', 'User Profile', and 'Logout'. A red circle highlights the 'Create new documentation' button. Below this, the 'My data documentations' section lists two entries: 'haha' and 'PsyCuraDat\_UserStudy1\_WP2'. The bottom screenshot shows the 'Create new documentation' form with a text input field containing 'test' and a red circle around the 'Create documentation' button. A tooltip above the form reads 'Why data documentation is so'.

**DataWiz** <sup>beta</sup> Dashboard Data documentation User Profile Logout

## Data documentation

Document research data, add datasets and materials, codebooks, then export and share your data in

Create new documentation

### 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:**

## Create new documentation

Provide a short name for your documentation

Create documentation

Why data documentation is so

← [My data documentations](#)

# 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 in a non-sustainable format, we will convert it into a sustainable, open CSV format.)

## 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, or you can jump right in:

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 in a non-sustainable format, we will convert it into a sustainable, open CSV format.)

[Step 1: Describe your study. →](#)

# Creating a study description

The screenshot shows the DataWiz beta web application interface. At the top, there is a navigation bar with the DataWiz logo, a 'beta' badge, and menu items for 'Dashboard' and 'Data documentation'. On the right side of the navigation bar, there are links for 'User Profile' and 'Logout'. Below the navigation bar, a breadcrumb trail shows '← My data documentations'. The main content area is divided into three columns. The left column is a sidebar menu with a 'test' header and a list of steps: 'Getting Started', '1. Describe your study' (which is expanded to show sub-items: 'Resource description', 'Study goals', 'Study method', 'Data collection', and 'Sampling'), '2. Upload and describe datasets', '3. Upload materials', '4. Review input', '5. Export', and 'Settings'. The middle column is the 'Resource description' form, which has a title field with a question mark icon and a description field with a question mark icon. The right column is a 'Resource description help' panel with a paragraph of text and a list of expandable sections: 'Title', 'Description', 'Related publications', and 'Creators'.

**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

### 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

# 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

C:\Users\muellerm\Downloads\test.zip\  
Datei Bearbeiten Ansicht Favoriten Extras Hilfe  
Hinzufügen Entpacken Überprüfen Kopieren Verschieben Löschen Eigenschaften

Name	Größe	Gepackte G...	Geändert am	Erstellt am	Letzter Zug...	Attribute	Verschlüsselt	Kommentar	
datasets	33 532	9 472							D5E
study.json	975	345	2022-03-08...			-rw-rw-rw-	-		2DF

# Evaluation & discussion



# Agenda

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

# Agenda

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

# 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 interface. At the top, there is a navigation bar with the DataWiz logo (beta), a dashboard icon, and the current page title 'Data documentation'. On the right side of the navigation bar, there are links for 'User Profile' and 'Logout'. Below the navigation bar, the main content area is divided into three columns. The left column contains a sidebar menu for a codebook titled 'test', with the second item, '2. Upload and describe datasets', highlighted. The middle column shows a breadcrumb trail and a list of steps, with the second step, '2. Upload and describe datasets', selected. The right column is the main workspace, titled 'Upload and describe datasets', which features a large dashed box for file uploads and a green 'Upload files' button. Below this, there is a section for 'My datasets' containing a table with one entry: 'PsyCuraDat\_UserStudy\_2\_1\_v-1-0-0\_SUF.sav'. This entry includes an 'Add description' button, an 'Edit codebook' button, and a 'Delete' icon. At the bottom of the workspace, there are navigation links for 'Sampling' and 'Upload materials'. On the far right, there is a 'Datasets help' sidebar with sections for 'File structure' and 'File formats'.

# 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\_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 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,...	9999.0	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 label  
11 12 13 14 15  
16 17 18 19 20  
21 22 23 24 25  
26 27 28 29 30 label (optional)  
31 32 33 34 35  
36 37 38 39 40  
41 42 43 44 45  
46 47 48 49 50

timeSpentactionDetails\_0

56 57 58 59 60  
61 62 63 64 65  
66 67 68 69 70  
71 72 73 74 75  
76 77 78 79 80  
81 82 83 84 85  
86 87 88 89 90  
91 92 93 94 95  
96 97 98 99 100  
101 102 103 104 105  
106 107 108 109 110  
111 112 113 114 115  
116 117 118 119 120  
121 122 123 124 125  
126 127 128 129 130  
131 132 133 134 135  
136 137 138 139 140  
141 142 143 144 145  
146 147 148 149 150  
151 152 153 154 155  
156 157 158 159 160  
161 162 163 164 165  
166 167 168 169 170  
171 172 173 174 175  
176 177 178 179 180

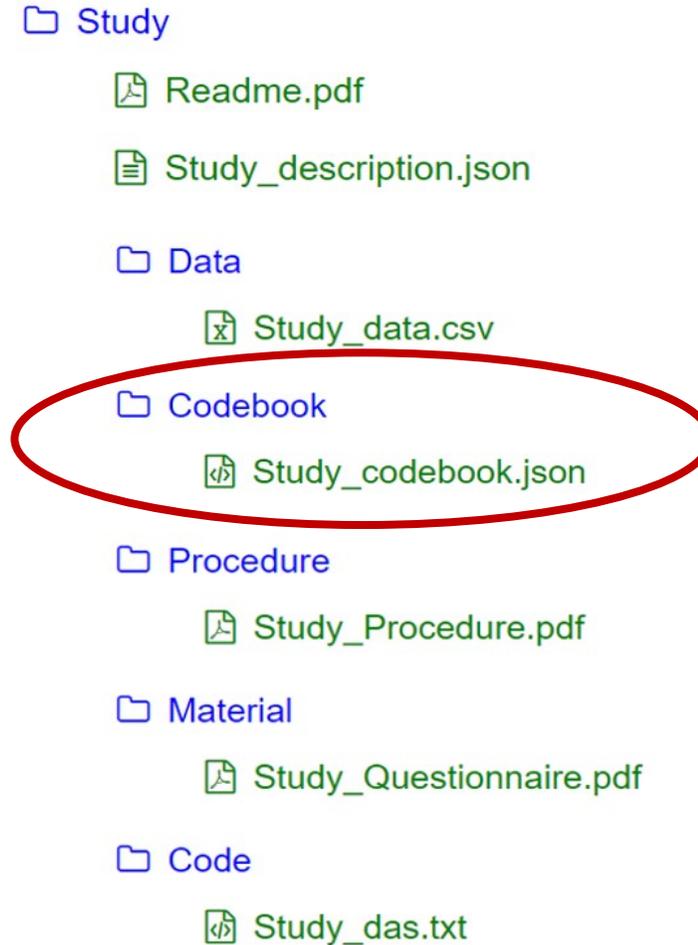
# Theory into practice



And now it's your turn!

# 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	<b>Introduction to the subject matter</b>
13:35 - 13:40 h	Technical break
13:40 - 14:25 h	<b>Block A: Writing a study description</b>
14:25 - 14:35 h	Coffee break
14:35 - 15:20 h	<b>Block B: Creating a codebook</b>
15:20 - 16:05 h	<b>Block C: Documenting the data preparation and analysis steps</b>
16:05 - 16:15 h	Coffee break
16:15 - 17:00 h	<b>Block D: Creating a graphical overview of the entire research data process</b>
17:00 - 17:30 h	<b>Discussion &amp; concluding remarks</b>

# 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'.
```

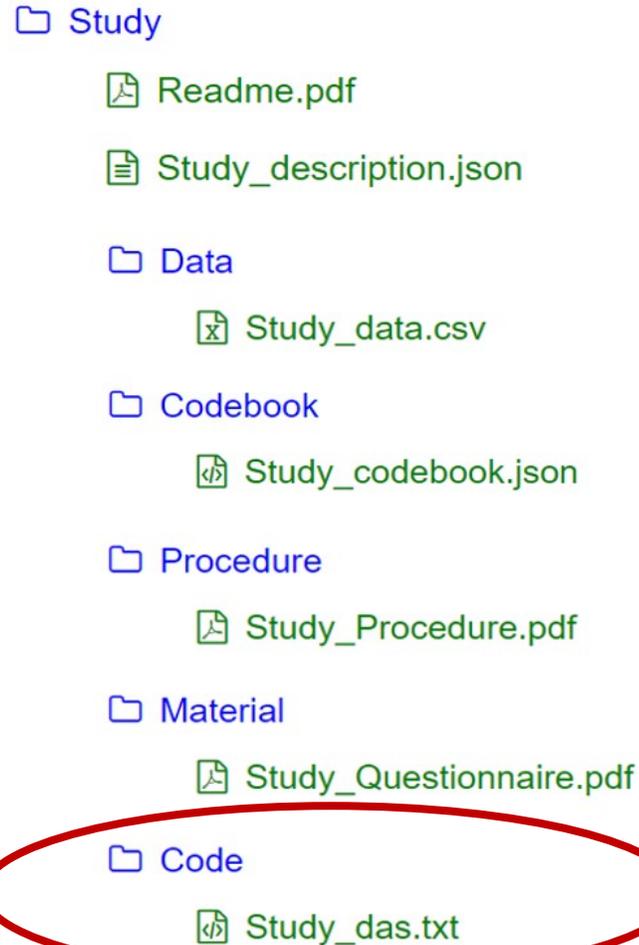
# Block C - Documenting the data preparation and analysis steps with D-Psy-FAIR

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

# Agenda

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

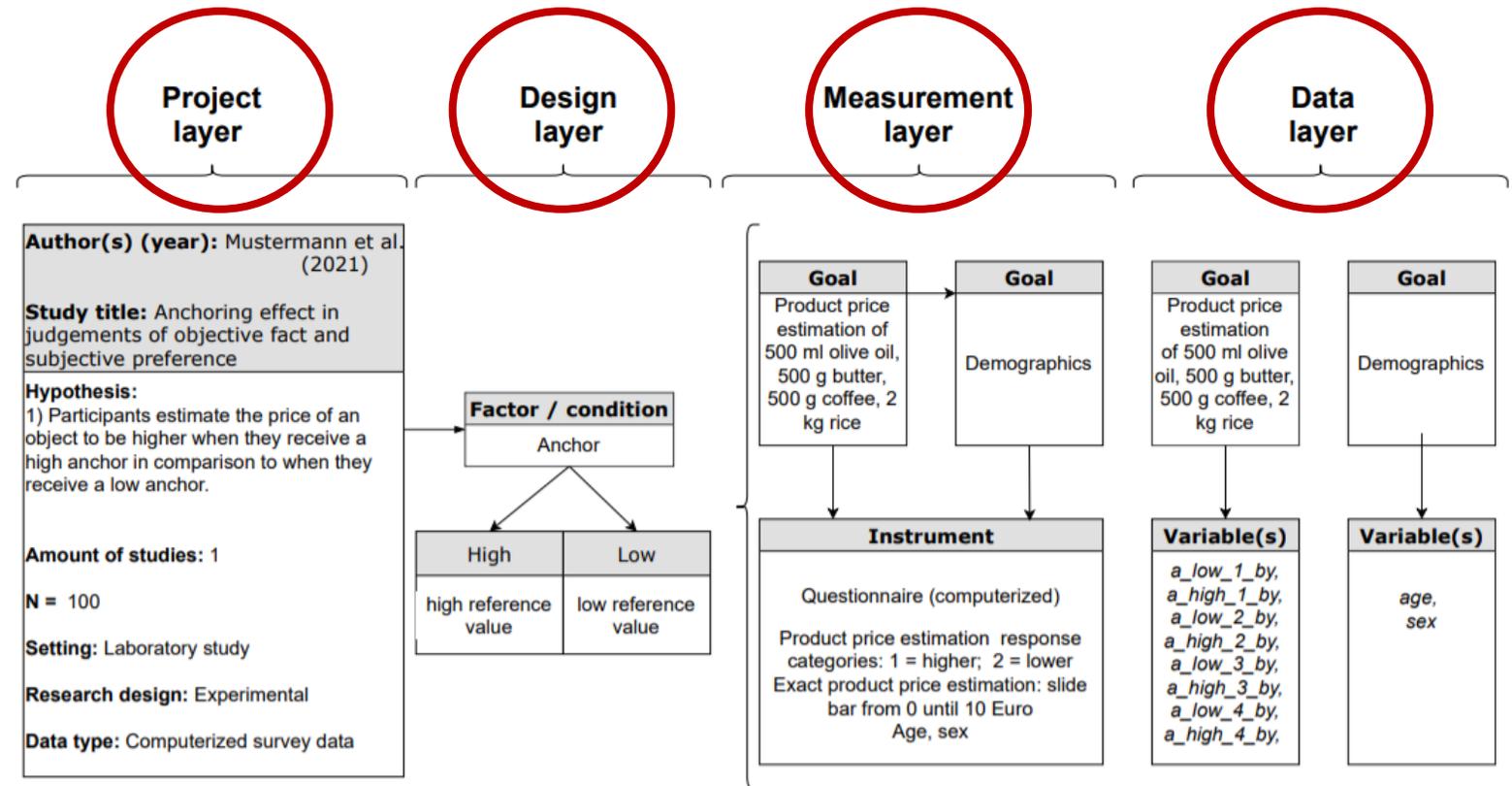
# Block D - Creating a graphical overview of the research data process

➤ 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



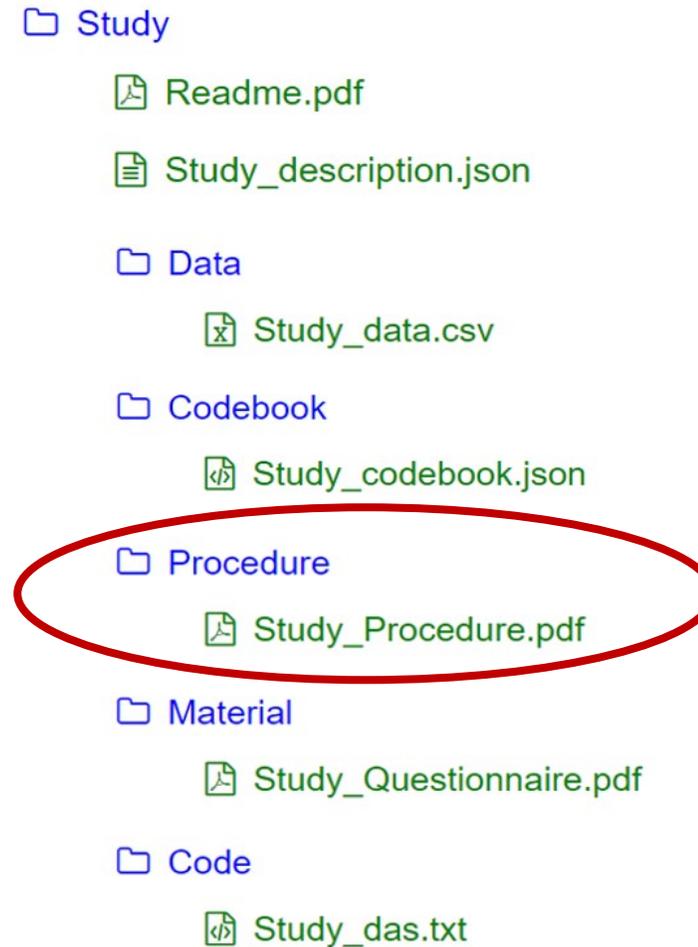
And now it's your turn!

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

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

# Managing your data documentation with D-Psy-FAIR

D-Psy-FAIR structure



# Evaluation & discussion



# Agenda

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

# 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!](#)

