

Love Data Week 2025 / University of Cologne

Aber ich habe doch gar keine Daten!

Felix Rau
Data Center for the Humanities





Forschungsdatenmanagement für Menschen ohne Daten





Keine Daten. Was heißt das?





Daten





Data / Daten

Pluralform des Partizip Perfekt Passiv von lat. *dare* »geben« (sg. *datum*, pl. *data*) 1884 MILLER Plant-n., 'Dattock', of W. Tropical Africa. || **Datum** (dēl'těm). Pl. data (dēl'tă). [L. datum given, that which is given, neut. pa. pplc. of dare to give.] A thing given or granted; something known or assumed as fact, and made the basis of reasoning or calculation; an assumption or premiss from which inferences are drawn.

1646 HAMMOND Wks. (1674) I. 248 (Stanf.) From all this lieap of data it would not follow that it was necessary.
1691 T. H[ALE] Acc. New Invent. 128 Out of what Data arises the knowledge. 1737 FIELDING Itist. Register Ded., All., will grant me this datum, that the said..person is a man of an ordinary capacity. 1777 PRIESTLEY Matt. & Spir. (1782) I. xii. 146 We have no data to go upon. 1807 HITTON Course Math. II. 350 The omission of a material datum in the calculation..namely, the weight of the charge of powder. 1888 Hayce Amer. Common. III. lxxvi. 9 The historical and scientific data on which the solution..depends.

b. Comb., as datum-line, -plane.

1855 H. Spencea Princ. Psychol. (1872) II. vi. viii, Mountains.. can have their relative heights determined only by reference to some common datum-line, as the level of the sea. 1869 R. B. Smyth Goldfields Victoria 609 Datum Water-Level, the level at which water was first struck in a shaft sink on a reef or gutter. 1882 Geikie Text-bk. Geol. vii. (1885) 925 The lines of stratification may be used as datumlines to measure approximately the amount of rock which has been worn away. 1885 Science 19 June 499 The horizontal datum-plane adopted by German craniologists.

Quelle: Oxford English Dictionary





Eine hilfreiche Definition

Leonelli 2016 defines data

as any product of research activities, ranging from artifacts such as photographs to symbols such as letters or numbers, that is collected, stored, and disseminated in order to be used as evidence for knowledge claims.

Leonelli, Sabina. 2016. *Data-Centric Biology: A Philosophical Study*. Chicago; London: The University of Chicago Press.





Konsequenzen





Warum sagen wir dann, dass wir keine Daten haben?





Beispiele

- 1. Im Fach heißen sie anders.
- 2. Sie haben gar keinen Namen.
- 3. Es gibt keinen Daten-Output.
- 4. Der Gegenstand ist nicht digital.





Daten = Evidenz für Wissensaussagen

- Ich werde die Evidenz für Wissensaussagen methoden- und fachunabhängig Daten nennen.
- Was Daten sind und welche Rolle sie im Forschungsprozess spielen, ist methoden- und fachabhängig.
- Entsprechend ist Datenmanagement in weiten Teilen abhängig von Methode und Fach.





FDM – ein paar Thesen

- Datenmanagement findet in jedem Forschungsprozess statt, egal ob man es als solches konzeptualisiert.
- Datenmanagement wird in jedem Schritt des Forschungsprozesses gemacht und ist nicht beschränkt auf einen bestimmten Schritt.
- 3. Datenmanagement ist in weiten Teilen trivial, muss aber trotzdem und um so mehr gut umgesetzt werden.
- 4. Gute Datenmanagementpraktiken lassen sich auf angrenzende Bereiche wie Bibliographiemanagement, Notizenmanagement und Personal Knowledge Management übertragen.





FDM im Forschungsprozess





FDM im Forschungsprozess

- 1. erwerben
- 2. lagern
- 3. handhaben
- 4. ablegen

Rechtliches Ethisches





Grundlegendes FDM





Dateibenennung

Dateinamen

Paper final_final(2).docx Untitled.pdf Einfl@sse.xslx

Original-text 2009-04-23 001.mp4

https://doi.org/10.5281/zenodo.7447485

DCH File Naming Guidelines

- 1. Give unambiguous, meaningful, readable, but succinct names
- 2. Chose names that are safe across file and operating systems
- 3. Structure the filename and use filename extensions
- 4. Facilitate alphabetical sorting
- 5. Document your naming pattern

1 Give unambiguous, meaningful, readable, but succinct p Select relevant characteristics of the file content as part of th

unambiguous labels for them. For example, use en and it

DCH File Naming Recommendatio

2 Chose names that are safe across file and one

Restrict the character inventory to the lowercase La (minus) -, and underscore _. Additionally, the full s filename extension.

Example: original-text_2009-04-23_001

3 Structure the filename and use filename ext

Separate parts of the name by underscore_ and str Example: en_session-01_section-a.mp4

4 Facilitate alphabetical sorting

Pad numbers with zeros to facilitate accurate sorting, Form YYYY-MM-DD (ISO 8601) pattern.

Example: speaker-01_2009-04-23_take-001.wav

5 Document your naming pattern

new_final_FINAL_.

new_final_docx

new_final_d Document your naming pattern, ideally in the same location where the files found. For example, place a README file in the top folder of the project or datase DCH Readme File Guidelines doi:10.5281/zenodo.7447616

DCH File Naming Guidelines, Version 1.0.0 doi:10.5281/zenodo.7447485 License CC0 1.0 Universal







final FINAL.docx

Werbung

Aufkleber z.B. für den Laptop mit gängigen FDM Fehlern.

Ziel: Aus Fehlern lernen, zu Fehlern stehen, über Fehler reden

https://dch.phil-fak.uni-koeln.de/rdm-demerit

















RDM Demerit **Badges**





Here you find a number of badges representing some common demerits in day-to-day research data management (RDM).





If you think you have earned a badge, come and talk to us - we will not judge. We have been there,



For more information and support visit us on our website:







When working with

research data, and in fact with any digital data, things inevitably go wrong. From a minor whoopsie

to a major catastrophe, things happen even to the most experienced of us.





By the Data Center for the Humanities (DCH). University of Cologne



Contact: info-dch@uni-koeln.de

















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final FINAL.docx

Ordnerstruktur

Wiederkehrende simple Ordnerstrukturen schaffen Überblick

https://doi.org/10.5281/zenodo.7452113

DCH Folder Structure Guidelines

Version 1.0.0

- 1. Separate types of information
- 2. Separate stages of processing (e.g. raw, cleaned, annotated)
- 3. Keep the folder depth at 4-5 levels
- 4. Order folders with leading numbers in folder names
- 5. Document your folder structure

64_publications/

1 Separate types of information

Separate types of information, including project and administrative information.

2 Separate stages of processing

Separate different states of the data.

| 02_data/ | 01_raw_data/ | 03_annotate_data/

3 Keep the folder depth at 4-5 levels

Avoid too deeply nested folder hierarchies by keeping the depth to 4-5 levels.

4 Order folders with leading numbers in folder names

Begin folder names on all levels with padded numbers to facilitate sorting.

Example: 03_analysis/
01_skript/
02_output/

5 Document your folder structure

Document your folder structure in a README file placed in the top folder of the dataset. See: DCH Readme File Guidelines doi:10.5281/zenodo.7447616

DCH Folder Structure Guidelines, Version 1.0.0 doi:10.5281/zenodo.7452113 License CC0 1.0 Universal







Backup

Three things are certain:

Death, taxes, and lost data.

Guess which has occurred.

David Dixon

Backup bedeutet:

- Automatisch
- Bewusster Zyklus und Auswahl
- Duplizieren (3-2-1)
 - 3 Instanzen
 - 2 verschiedene Medien
 - 1 Off-site Kopie
- Wiederherstellung testen

https://doi.org/10.5281/zenodo.7760967











Backup-Workshop für Studierende (Mac&PC)

10.02.2025, 12-13:30 Uhr 11.02.2025, 10-11:30 Uhr 13.02.2025, 12-13:30 Uhr

Universitäts- und Stadtbibliothek, Raum 4006





MangeInde Dokumentation

Mangelnde Dokumentation führt zu

- Unbeabsichtigter Varianz im Arbeitsablauf
- Unklarer Semantik in Daten und Strukturen
- Misverständnissen und Misattributionen

und macht

- Mitarbeiter:innen
- Dem zukünftigen ich

das Leben schwer.

Hier hilft schon eine kleine Textdatei (README) im Ordner. Eine ausgiebige Dokumentation mit wissenschaftlichen Metadaten kann notwendig sein.

DCH RFADMF File Guidelines

Version 1.0.0

- 2. Keep the README file with the dataset
- 3. Describe the dataset and its context
- 4. Document the internal structure of the dataset

1 Keep it simple

The README file should be written as plain, and concise structure (e.g. this template). profile into the README file, use a separate

2 Keep the README file with the

The README file should be stored n

3 Describe the dataset and its d

The README file should contain a d set was collected. The description m and any other information relevant f

4 Document the internal structure

The README file should contain a descripshould be clear which information belongs See: DCH Folder Structure Guidelin

5 Document file naming pattern

Document the file naming pattern: describe the file nam

DCH README File Template 1.0.0 doi:10.5281/zenodo.7452055

DCH README File Guidelines, Version 1.0.0 doi:10.5281/zenodo.7447616









Eingeschlossene Daten

Daten, Dokumente und Notizen sollten wo immer möglich unabhängig von einer spezifischen Software lesbar und nutzbar sein:

- Notiz-Apps wie Notion oder Evernote
- Filemaker-Datenbank
- Webseite mit Datenbank zu Projektende







Webseite mit Datenbank zur Ergebnispräsentation

Digitale Präsentation muss gut geplant und in den Projektablauf eingebettet sein. Die Kompetenz muss nachhaltig vorhanden sein.

- Daten- und Projektergebnisse sollten ohne spezielle Präsentation verständlich und nutzbar sein
- Software und Datenbanken brauchen Pflege
- Pflege muss nach Projektende gewährleistet sein







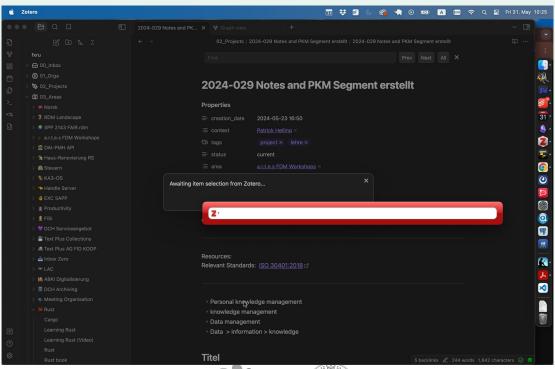
Jenseits des FDM





Notizen und Personal Knowledge Management

- Workflows
- Digitale Objekte
- Dateibenennung
- Ordnerstruktur
- Metadaten
- READMES



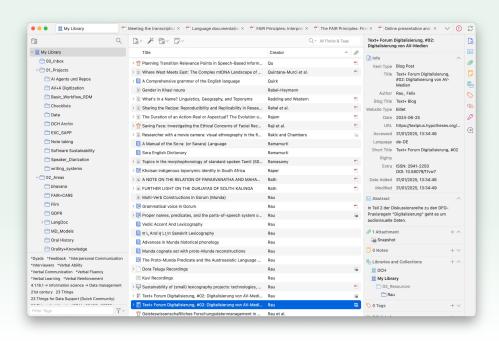




Bibliographiemanagement

- Standardisierte, offene Formate
- Metadaten (z.B. Tags)
- Organisationsprinzipien

Zotero- und/oder Citavi-Kurse an der USB Köln



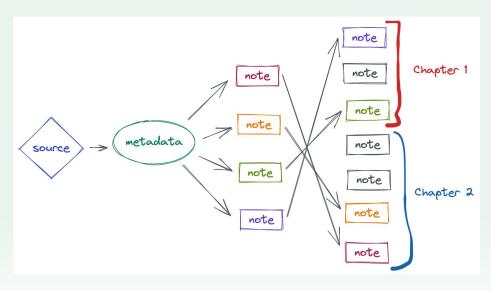




Workflows und Integration

Beispiel-Workflow für die Arbeit mit wissenschaftlichen Artikeln, Literatur oder ähnlichen Dokumenten

PDF > Zotero > Zotero Notes > Obsidian



Razlogova, Elena. n.d. "01 Notetaking for Historians - Doing History with Zotero and Obsidian - Obsidian Publish." Doing History with Zotero and Obsidian. Accessed October 26, 2023.

https://publish.obsidian.md/history-notes/01+Notetaking+for+Historians.





Materialien (Lokal in Köln):

Guidelines:

https://dch.phil-fak.uni-koeln.de/guidelines-fuer-forschende

Badges:

https://dch.phil-fak.uni-koeln.de/rdm-demerit

C3RDM FDM Wissen:

https://fdm.uni-koeln.de/fdm-wissen

Kurse an der USB:

https://ub.uni-koeln.de/kurse-beratung/kurse-der-usb





Vielen Dank!



Philosophische Fakultät Universität zu Köln

https://dch.phil-fak.uni-koeln.de/

Bei Fragen zu FDM: info-dch@uni-koeln.de

Guidelines:

https://dch.phil-fak.uni-koeln.de/guidelines-fuer-forschende

Badges:

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