



UiO • University of Oslo Library

Module III: Data organization, metadata, and documentation

Edina Pózer, Ivana Malovic, Solveig Isis Sørbo and Agata Bochynska
The University of Oslo Library



Materials developed as part of the **Skills development project for research data:**
<https://www.ub.uio.no/english/about/projects/rdm-skills/>

Today's course

- 1) One hour lecture with a short break
- 2) Q&A session

Please feel free to write comments and questions in the Chat!



Data file structure

Design a data file structure

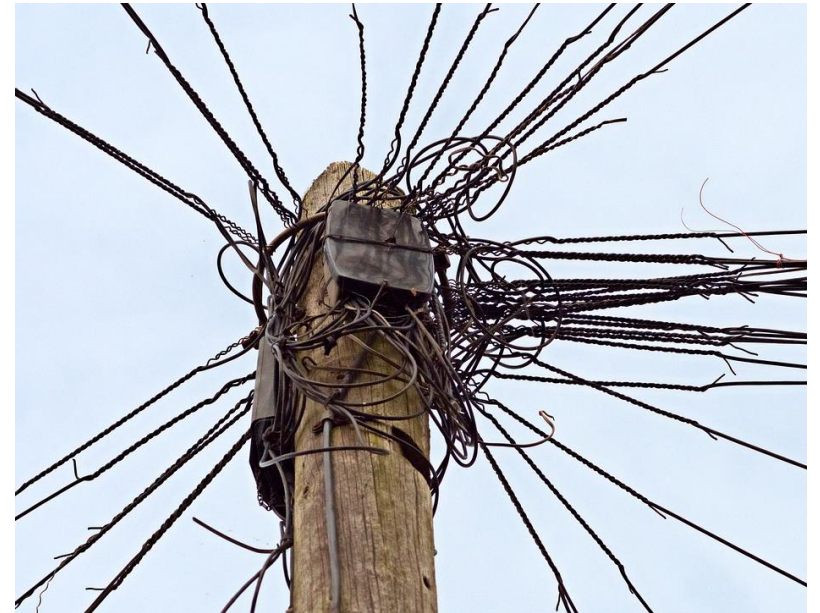
- In an early stage of your research, you are faced with the question of **what form your data files should take**. Your initial decision about the structure of your data files should be considered thoroughly.
- The **data file structure** has a huge impact on the possible ways your files can be processed and analysed and once your structure has been filled with data, any changes to it are usually laborious and time-consuming.

Create a data organising system

- Follow your working pattern
- Systematic and logical
- Quick and easy to navigate
- Simple enough to be used all the time
- Considered and thought through before you start (!)
- Scalable

Organise your data

- Do not use your computer desktop as a storage place
- Make a folder hierarchy and give your folders **descriptive** and **informative** names
- Avoid folders that become too broad or general, create more **subfolders** instead.
- Keep active and finished parts of your project separate, and take the time to tidy once in a while



The image features a central globe with North and South America visible. The globe is set against a dark blue background filled with white binary code (0s and 1s) and white circuit-like patterns. The globe is divided into two horizontal sections by a dark blue banner. The top section shows North America, and the bottom section shows South America. The banner contains the word "Metadata" in white, bold, sans-serif font.

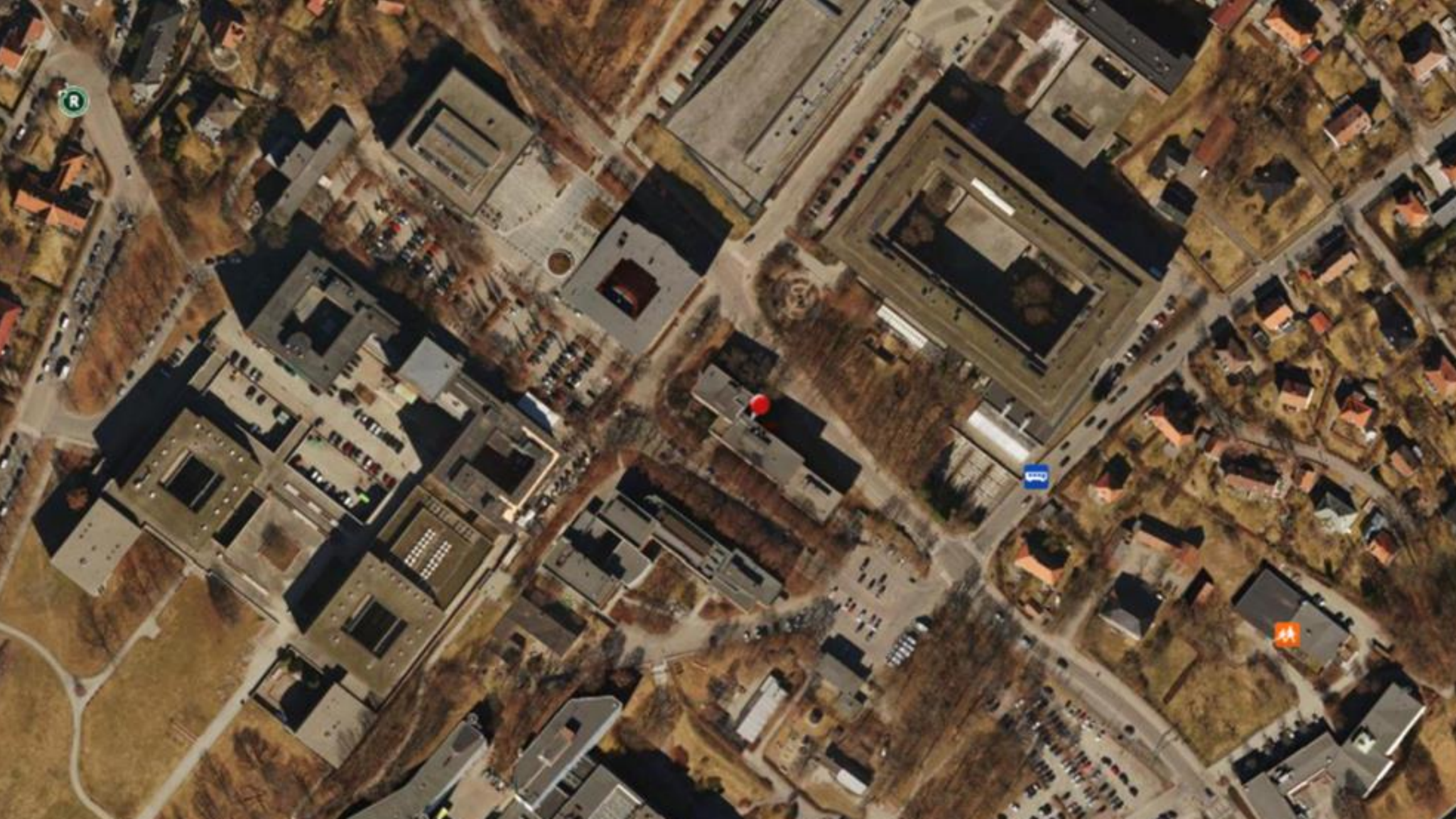
Metadata

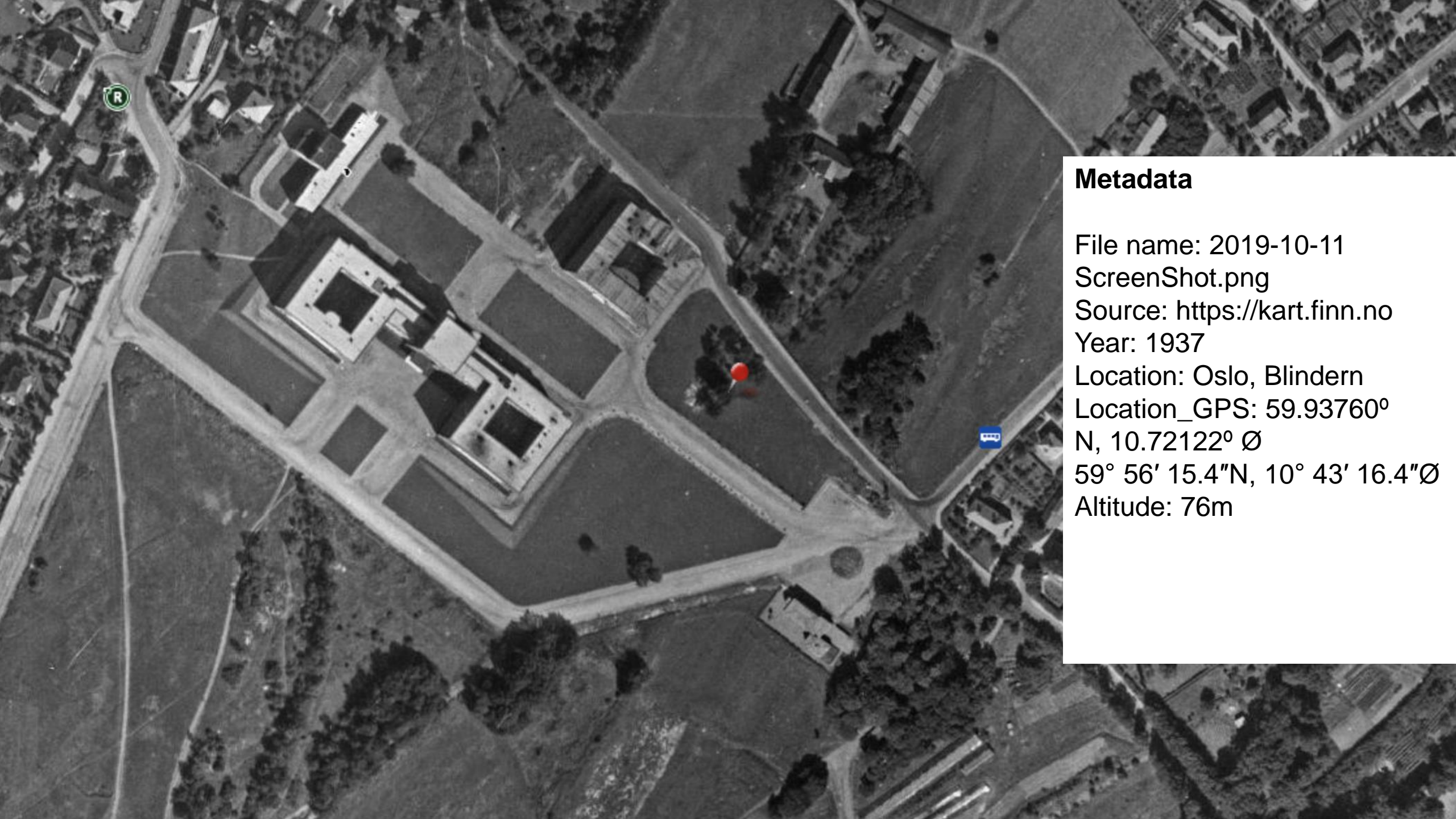


R

B

A





Metadata

File name: 2019-10-11

ScreenShot.png

Source: <https://kart.finn.no>

Year: 1937

Location: Oslo, Blindern

Location_GPS: 59.93760°

N, 10.72122° Ø

59° 56' 15.4"N, 10° 43' 16.4"Ø

Altitude: 76m

Metadata

- Metadata or “data about data” are **descriptions that facilitate cataloguing data and data discovery**.
- Metadata are intended for machine-reading. When data is submitted to a trusted data repository, the archive generates machine-readable metadata.
- Machine-readable metadata help to explain the purpose, origin, time, location, creator(s), term of use, and access conditions of research data
- Your discipline very likely has standards for metadata! (see, for example: <https://rd-alliance.github.io/metadata-directory/standards/>)

LEONARD
COHEN

ALBUM

I'm Your Man



Leonard Cohen · 1988 · 8 songs, 40 min 48 sec

I'M YOUR MAN



TITLE



- 1 **First We Take Manhattan**
Leonard Cohen
- 2 **Ain't No Cure for Love**
Leonard Cohen

6:00

4:49

Types of metadata

Descriptive metadata	For finding or understanding a resource
Administrative metadata <ul style="list-style-type: none">- Technical metadata- Preservation metadata- Rights metadata	<ul style="list-style-type: none">- For decoding and rendering files- Long-term management of files- Intellectual property rights attached to content
Structural metadata	Relationships of parts of resources to one another
Markup languages	Integrates metadata and flags for other structural or semantic features within content

Why do we need metadata?

- Discovery
- Aid in identification or understanding of a resource
- Interoperability
- Digital object management
- Preservation
- Navigation within parts of items

- **A huge help when making data FAIR!**

F
indable



A
ccessible



I
nteroperable



R
eusable



Dublin Core Metadata Element Set - a set of fifteen “core”
elements (properties) for describing resources

Dublin Core Metadata Element Set

01. **Contributor** – “An entity responsible for making contributions to the resource.”
02. **Coverage** – “The spatial or temporal topic of the resource, the spatial applicability of the resource, or the jurisdiction under which the resource is relevant.”
03. **Creator** – “An entity primarily responsible for making the resource.”
04. **Date** – “A point or period of time associated with an event in the lifecycle of the resource.”
05. **Description** – “An account of the resource.”
06. **Format** – “The file format, physical medium, or dimensions of the resource.”
07. **Identifier** – “An unambiguous reference to the resource within a given context.”
08. **Language** – “A language of the resource.”
09. **Publisher** – “An entity responsible for making the resource available.”
10. **Relation** – “A related resource.”
11. **Rights** – “Information about rights held in and over the resource.”
12. **Source** – “A related resource from which the described resource is derived.”
13. **Subject** – “The topic of the resource.”
14. **Title** – “A name given to the resource.”
15. **Type** – “The nature or genre of the resource.”

Darwin Core - extension of Dublin Core meant to provide a stable standard reference for sharing information on biological diversity

Darwin Core

Darwin Core: An Evolving Community-Developed Biodiversity Data Standard

John Wiczorek, David Bloom, ... David Vieglais

Record-level Terms	Dublin Core terms, institutions, collections, nature of data record	Simple Darwin Core (flat)
Occurrence	evidence of species in nature, observers, behavior, associated media, references.	
Event	sampling protocols and methods, date, time, field notes	
Location	geography, locality descriptions, spatial data	
Identification	linkage between Taxon and Occurrence	
Taxon	scientific names, vernacular names, names usages, taxon concepts, and the relationships between them	
GeologicalContext	geologic time, chrono-stratigraphy, biostratigraphy, lithostratigraphy	
ResourceRelationship	explicit relationships between identified resources (e.g., one organism to another, taxon to location, etc.)	Generic Darwin Core (relational)
MeasurementOrFact	measurements, facts, characteristics, assertions, references	

Reset zoom



< Previous

Next >

All

Figure 2. Darwin Core Categories: Simple Darwin Core is comprised of seven categories of terms (green).

Show in Context

Download:

PPT

PNG

This subset of Darwin Core terms represents descriptive data about organisms that can be represented in one file with one row... show more →



https://dataverse.no/dataset.xhtml?persistentId=doi:10.18710/IIHGSH

90%



DataverseNO

Open Research Data

Certified by:



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Replication data for: "Early Cenozoic Eurekan strain partitioning and decoupling in central Spitsbergen, Svalbard"

Version 1.1

Koehl, Jean-Baptiste, 2021, "Replication data for: "Early Cenozoic Eurekan strain partitioning and decoupling in central Spitsbergen, Svalbard"", <https://doi.org/10.18710/IIHGSH>, DataverseNO, V1

Cite Dataset ▾

Learn about [Data Citation Standards](#).

Dataset Metrics ?

0 Downloads ?

Description ?

High-resolution versions of the figures and supplements of the Koehl (2020) manuscript entitled "Early Cenozoic Eurekan strain partitioning and decoupling in central Spitsbergen, Svalbard", which could not be attached to the manuscript itself due to size limit but that are necessary to identify the main structures and interpretation. (2021-04-07)

Subject ?

Earth and Environmental Sciences

Keyword ?

Faults, Tectonics, High-resolution figures, Svalbard, Eurekan, Billefjorden Group, Strain partitioning, Bedding-parallel thrust, Décollement and duplexes

Related Publication ?

Koehl, J.-B. P.: Early Cenozoic Eurekan strain partitioning and decoupling in central Spitsbergen, Svalbard, Solid Earth, 12, 2021.

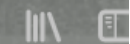
[Files](#)

[Metadata](#)

[Terms](#)

[Versions](#)

<https://dataverse.no/dataset.xhtml?persistentId=doi:10.18710/IIHGSH>



Citation Metadata

Dataset Persistent ID

doi:10.18710/IIHGSH

Publication Date

2021-04-07

Title

Replication data for: "Early Cenozoic Eurekan strain partitioning and decoupling in central Spitsbergen, Svalbard"

Author

Koehl, Jean-Baptiste (University of Oslo) - ORCID: 0000-0001-7189-1988

Contact

Use email button above to contact.

Koehl, Jean-Baptiste P. (University of Oslo)

Description

High-resolution versions of the figures and supplements of the Koehl (2020) manuscript entitled "Early Cenozoic Eurekan strain partitioning and decoupling in central Spitsbergen, Svalbard", which could not be attached to the manuscript itself due to size limit but that are necessary to identify the main structures and interpretation. (2021-04-07)

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https://dataverse.no/dataset.xhtml?persistentId=doi:10.18710/IIHGSH

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Export Metadata ▾

Citation Metadata ▾

Geospatial Metadata ▲

Geographic Coverage ?

Norway, Svalbard

Geographic Unit ?


central Spitsbergen

Geographic Bounding Box ?

15.0 20.0 79.0 77.0

Dataverse –deposit your data

^ Enter metadata

 Information about the various metadata fields can be obtained by placing the cursor on the field names (a roll-over window appears). Here is some more information about some of the fields:

→ **Title:**

- Enter a title for your dataset.
- If your dataset is used in a publication, you may enter the title of the publication, and click on *Add "Replication Data for" to Title*.

→ **Author:**

- Enter your name as you use it in your publications. We recommend you to add your affiliation as well. For entering co-authors, click on the plus button. We also recommend you to add your ORCID (<https://orcid.org>).

→ **Contact:**

- Enter a contact email address. Also add the name of the contact person or research group/institution.

→ **Description:**

- Enter information about the data to be uploaded. Avoid using certain HTML tags and other special characters (e.g. [or]). If you need to add paragraphs, add the HTML tags `<p>` and `</p>` around each paragraph.
- If relevant, enter information about the data collection/methodology here.
- If applicable, also enter the publication abstract. The abstract should be entered into a second description field, which can be added by clicking the plus button to the right. NB! If your article is only submitted and not accepted (yet), DO NOT mention the name of the journal it has been submitted to.

Dataverse –deposit your data

→ **Keyword:**

- Information such as the subject area(s) (e.g. morphology or zoology) and the statistical method(s) may be entered into the keyword field.
- Each keyword needs to be entered separately. Please click the plus button to enter more keywords.
- Vocabulary and Vocabulary URL are not mandatory and may be left empty.

→ **Related Publication:**

- If the files you are depositing are the background data for a publication, you should include a reference to the publication here.
- **Note!** If your manuscript has been submitted for review but has not yet been accepted, DO NOT list the name of the journal or publisher. Instead you may simply write “Submitted for review” or similar.
- **Note!** If the review of your manuscript is going to be double blind (both author and reviewer are anonymous), you must add a note about it in the *Related Publication* field. This way, the curators can assist you in anonymizing the dataset.
- (When adding more than one publication, only the first of them will be visible on the overview page of the dataset. If you don't want to highlight any of the publications in this way, you may add the following text in the first publication field: “Click Metadata tab

Design a data file structure

An important part of the **metadata** is often **embedded into the data file**, e.g. variable names and variable or value labels.

Therefore, the **structure** of your data also **contributes to the clarity** of your **data documentation**.

The image features a central globe with North and South America visible. The globe is set against a dark blue background filled with white binary code (0s and 1s) and white circuit-like patterns. A dark blue horizontal band is overlaid across the center of the globe, containing the word "Documentation" in white, bold, sans-serif font.

Documentation

Documentation vs. metadata?

"While data documentation is meant to be read and understood by humans, metadata (which are sometimes a part of the documentation) are primarily meant to be processed by machines."

<https://howtofair.dk/how-to-fair/metadata/>

Documentation: what, why and how?

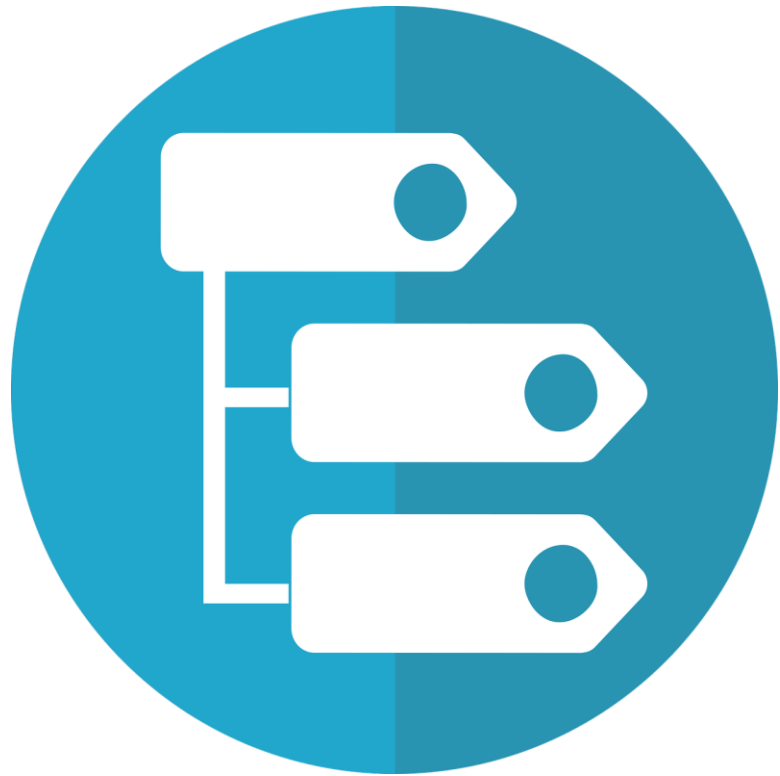
- **What** documentation?
- **Why** documentation?
- **How** to create documentation?

What documentation?

- Systematically documented research data is key to making the data publishable, discoverable, citable, and reusable (and FAIR)
- Clear and detailed documentation **improve the overall data quality**
- It is vital to document **both the study** for which the data has been collected **and the data itself**. These two levels of documentation are called **project-level** and **data-level** documentation

What documentation?

- The **project-level documentation** explains the aims of the study, what the research questions/hypotheses are, what methodologies were being used, what instruments and measures were being used, etc.
- **Data-level** or **object-level documentation** provides information at the level of individual objects such as images or variables in a database/table or transcripts, etc.
- It's become a convention to create multiple **README-files**, both for project-level documentation and for data-level documentation



- **Project level**

- General information about the project

- Hypotheses

- Methods for collecting and analyzing the data

- **File or folder level**

- Folder system

- Version control

- Lists of files and how they were obtained

- List of samples?

- Explanation of scripts and sets of programs written

- (Naming convention for files)

- **Variable or experiment level**

- Description of each variable, with units

Document everything your data has been through

- Field journal
- Lab journals and experimental protocols
- Scripts for analysis
- Questionnaires, codebooks, data dictionaries
- Software syntax and output files
- Methodology reports
- Geolocation, orientation (e.g. when collecting a sample)
- Instrument settings and calibration

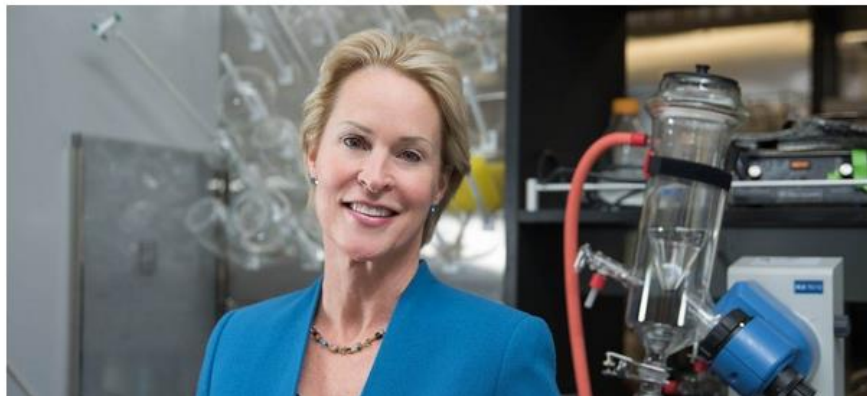


Why documentation?

- Helps others understand your project and reuse your data



The image shows a screenshot of a BBC News article. At the top, there is a navigation bar with the BBC logo, a 'Sign in' button, and menu items for Home, News, Sport, Reel, Worklife, and Trav. Below this is a red banner with the word 'NEWS' in white. Underneath the banner is a secondary navigation bar with links for Home, Coronavirus, Video, World, UK, Business, Tech, Science, Stories, Entertainment & Arts, and Health. A third navigation bar lists regional categories: World, Africa, Asia, Australia, Europe, Latin America, Middle East, and US & Canada. The main headline reads 'Nobel Prize-winning scientist Frances Arnold retracts paper'. Below the headline, it says '© 3 January 2020'. At the bottom of the article preview, there is a red button with a left arrow and the text 'Nobel Prize'.



“It has been retracted because the results were not reproducible, and the authors found data missing from a lab notebook.”

<https://www.bbc.com/news/world-us-canada-50989423>

Why documentation?

- Helps others understand your project and reuse your data
 - all you need to know about your data
 - all your collaborators need to know about your data
 - all you need to know about your collaborators data
 - all anyone else who wants to work with your data needs to know about it
 - more information is better than less
 - structured information is better than unstructured information
 - no documentation is the worst!
 - start early, save time & have less stress
 - re-use templates for good documentation, READMEs, etc.
 - you must have documentation when you archive your data

How to create documentation?

- README.txt-files:
 - Announce that they are the first file to open when looking through your old data
 - Provide a map for exploring your files
 - Create one README.txt file per folder in as many folders as you can
 - They do not need to be large, but their content should help navigation through digital files and folders
 - a project-level README.txt should give the general project information and a very coarse overview of file contents and locations
 - A data-(object-) level README.txt would be more specific as to what each file contains

How to create documentation?

README.txt-files: Cornell University template and guide:

<https://data.research.cornell.edu/content/readme>

README.txt-files: some examples

<https://dataverse.no/dataset.xhtml?persistentId=doi:10.18710/LNCK80>

<https://dataverse.no/dataset.xhtml?persistentId=doi:10.18710/Q3FZAN>

<https://dataverse.no/dataset.xhtml?persistentId=doi:10.18710/TYPJXU>



Break



File naming & Folder structure

File naming & Folder structure

- Structuring your data files in folders is important for making it easier to **locate** and **organise** files and versions. A proper folder structure is especially needed when collaborating with others.
- The decision on how to organise your data files depends on the **plan and organisation of the study**. All material relevant to the data should be entered into the data folders, including detailed information on the data collection and data processing procedures.

SvalbardEx271020

File Home Share View

SvalbardEx271020

Name	Date modified	Type	Size
P-10-01	26.10.2020 16:29	File folder	
SEM 2012	26.10.2020 16:25	File folder	
P-10-03-01.tif	11.06.2012 11:17	TIF File	1 880 KB
P-10-03-02b.tif	11.06.2012 11:25	TIF File	1 880 KB
P-10-03-02c.tif	11.06.2012 11:26	TIF File	1 880 KB
P-10-03-05.tif	11.06.2012 11:38	TIF File	1 880 KB
P-10-03-79b.tif	11.06.2012 12:59	TIF File	1 880 KB
P-10-03-92b.tif	11.06.2012 13:26	TIF File	1 880 KB
P-10-03-109.tif	11.06.2012 13:49	TIF File	1 880 KB
P-10-03-119b.tif	11.06.2012 14:02	TIF File	1 880 KB
P-10-03-193b.tif	11.06.2012 15:45	TIF File	1 880 KB
P-10-03-222b.tif	11.06.2012 16:29	TIF File	1 880 KB
P-10-03-222c.tif	11.06.2012 16:30	TIF File	1 880 KB
P-10-03-226b.tif	12.06.2012 09:33	TIF File	1 880 KB
P-10-03-226c.tif	12.06.2012 09:33	TIF File	1 880 KB
Gasser_2014.pdf	27.01.2015 13:11	Adobe Acrobat D...	5 127 KB
Gernigon_and_Bronner_2012.pdf	30.01.2015 15:07	Adobe Acrobat D...	3 445 KB
Gernigon_et_al_2014.pdf	26.01.2015 16:02	Adobe Acrobat D...	54 447 KB
Glorstad_Clark-2010.pdf	15.09.2014 15:06	Adobe Acrobat D...	10 269 KB
Gronlie et al. 1980 Seismic inversion of Bj...	09.10.2012 13:28	Adobe Acrobat D...	643 KB
Gudlaugsson_et_al_1998.pdf	17.10.2014 12:50	Adobe Acrobat D...	3 411 KB
Harland_and_Gayer_1972.pdf	17.10.2014 11:47	Adobe Acrobat D...	1 474 KB
Høy_and_Lundchien_2011_NBarenstSea_...	17.09.2014 14:10	Adobe Acrobat D...	13 600 KB
Isaksen 1996 Organic geocem Bjornoya.p...	09.10.2012 13:24	Adobe Acrobat D...	1 439 KB
Klausen et al 2015 Triassic Snadd in Baren...	30.03.2015 13:15	Adobe Acrobat D...	14 911 KB
Klausen_et_al_2014_Triassic_Snadd_Fm.pdf	08.09.2014 13:20	Adobe Acrobat D...	5 069 KB
Klitzke_et_al_Barents_Sea_Region_2014-pr...	21.01.2015 15:22	Adobe Acrobat D...	2 951 KB
Gabrielsen et al. 1990_Structural_E_BS_NP...	11.03.2013 15:45	Adobe Acrobat D...	9 099 KB
Gac_et_al_2013_ultra_deep_EBB.pdf	20.01.2015 12:15	Adobe Acrobat D...	1 008 KB
Abstract.doc	15.09.2014 16:04	Microsoft Word 9...	234 KB
Copy of NuAge_090214-120115-run1.xls	22.01.2015 13:06	Microsoft Excel 97...	1 390 KB
CPP_Svalbard_Bjornoya_Copy of CUMUL...	17.12.2014 15:35	Microsoft Excel 97...	2 429 KB
2013 Wintermeeting poster-1_Edina_Final...	07.01.2013 15:12	Adobe Acrobat D...	130 KB
ICPMS data	26.10.2020 16:31	File folder	
Franz Josef presentation.pptx	09.01.2013 12:06	Microsoft PowerP...	11 334 KB

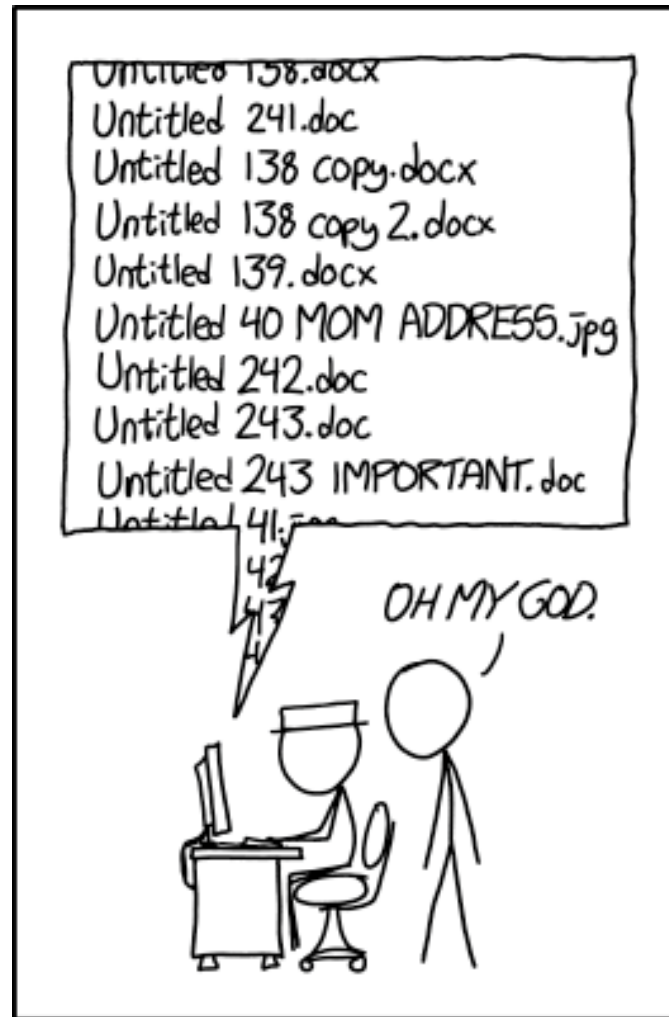
- Example of a research project **without** a data file structure – Edina Pózer ©

How it could look like:

```
project_name/
├── README.md           # overview of the project
├── data/               # data files used in the project
│   ├── README.md     # describes where data came from
│   └── sub-folder/   # may contain subdirectories
├── processed_data/    # intermediate files from the analysis
├── manuscript/        # manuscript describing the results
├── results/           # results of the analysis (data, tables, figures)
├── src/               # contains all code in the project
│   ├── LICENSE        # license for your code
│   ├── requirements.txt # software requirements and dependencies
│   └── ...
└── doc/               # documentation for your project
    ├── index.rst
    └── ...
```

Naming conventions

- Short names (but long enough that they still make sense)
- The most general information first, then add details to the name
- Underscore to separate words, DO NOT use space in file names!
- Dates backwards (YYYYMMDD)
- Numbers (e.g. version number) should have the same number of digits, use e.g. 01, not just 1.
- Version number at the end



PROTIP: NEVER LOOK IN SOMEONE ELSE'S DOCUMENTS FOLDER.

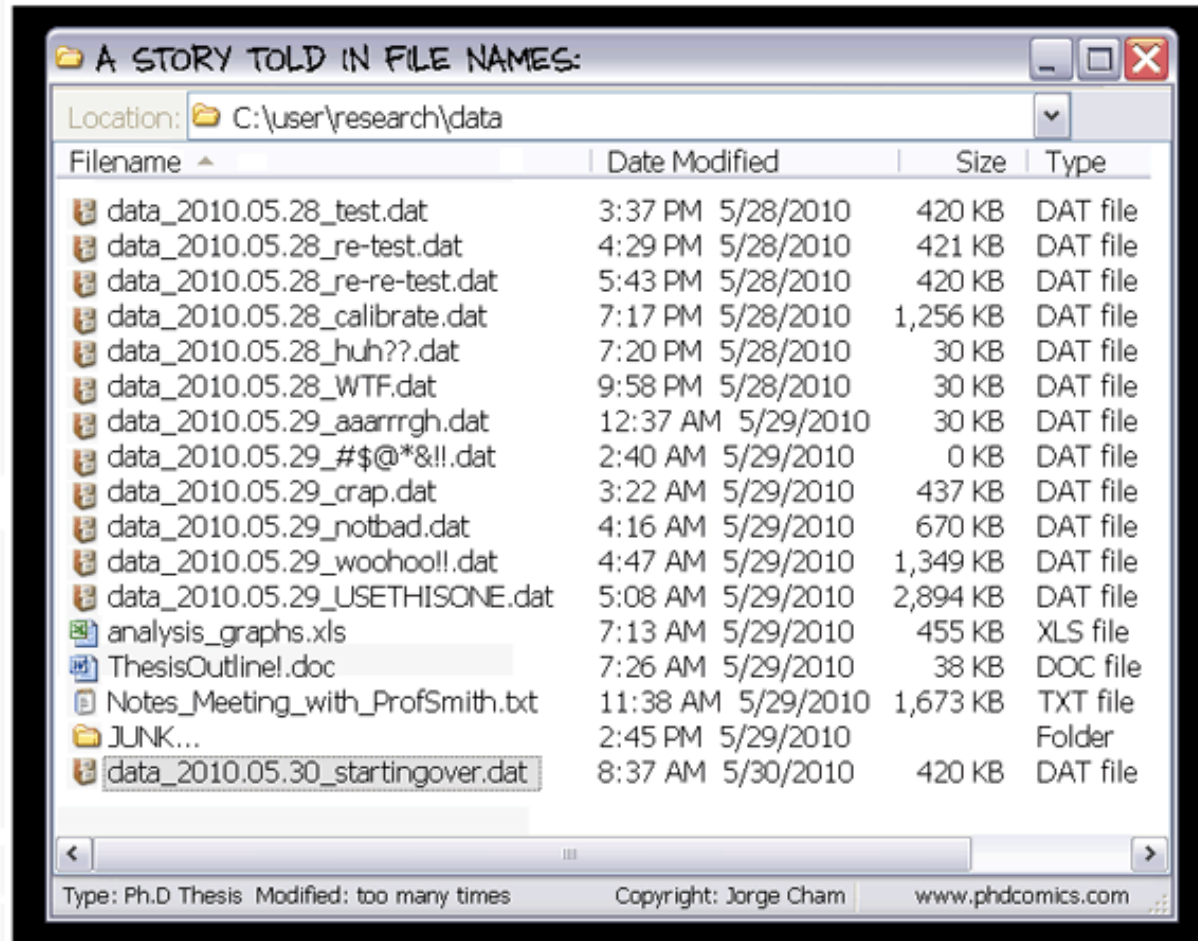
Avoid using the following characters in Folder and File names:

#	pound	<	left angle bracket	{	left curly bracket
%	percent	>	right angle bracket	}	right curly bracket
&	ampersand	/	forward slash	*	asterisk
\	back slash		blank spaces	?	question mark
\$	dollar sign	'	single quotes	=	equal sign
!	exclamation point	"	double quotes		

Also, keep these rules in mind:

- Don't start or end your filename with a space, period, hyphen, or underline
- Keep your filenames to a reasonable length
- Most operating systems are case sensitive; always use lowercase

Tidy every once in a while



Sustainable file formats

- When your project is finished and you plan on archiving your data, it is widely recommended to transfer data and accompanying files into a **more sustainable format**.
- Trusted data archives often have guidelines for this, e.g. the recommendations of Data Archiving and Networked Services (DANS)

<https://dans.knaw.nl/en/about/services/easy/information-about-depositing-data/before-depositing/file-formats>



Go to [menti.com](https://www.menti.com)
Use code: 41 36 17 2

Skills development: RDA Norway

NO-RDA Workshop: Research Data Management in practice - Documentation and metadata

Home » RDA in Norway » NO-RDA Workshop: Research Data Management in practice - Documentation and metadata

31
MAY
2021
UTC

NO-RDA Workshop: Research Data Management In Practice - Documentation And Metadata



Date: 31 May 2021 - 09:00 UTC

<https://www.rd-alliance.org/group/rda-norway/event/no-rda-workshop-research-data-management-practice-documentation-and-metadata>

Skills development at UiO



Carpentry@UiO



CODE REFINERY

Carpentries

www.uio.no/carpentry

CodeRefinery

<https://coderefinery.org/>

UiOs Digital Scholarship Center

<https://www.ub.uio.no/english/writing-publishing/dsc/>



Questions & Answers

The background of the slide is a black and white photograph showing several large stacks of papers and folders, likely in an archive or library. The papers are piled high, and some have small labels or tabs sticking out. The lighting is dramatic, with strong highlights and deep shadows, creating a sense of depth and volume. The text is overlaid on a dark, semi-transparent rectangular area in the center of the image.

Upcoming sessions...

- Data Classification and Storage Selection
12/05 9:00-10:30
- Ethics, Privacy and Data Protection
19/05 9:00-10:30
- Sharing and Archiving Research Data
20/05 9:00-10:30
- Data Discovery
21/05 9:00-10:30

Thank you!

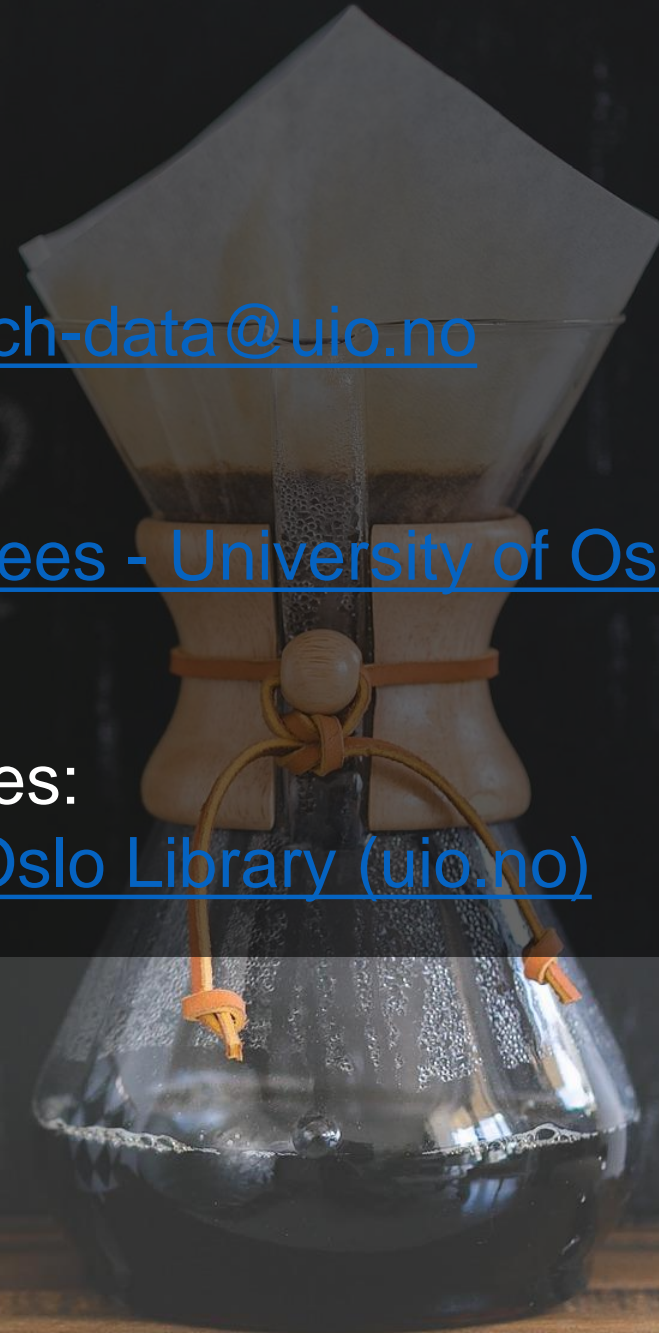
Email UiO's research data experts: research-data@uio.no

Resources at UiO:

[Research Data Management - For employees - University of Oslo \(uio.no\)](#)

More info on data management and courses:

[Digital Scholarship Center - University of Oslo Library \(uio.no\)](#)



Sources

- Deutz DB, Buss MCH, Hansen JS, Hansen KK, Kjellmann KG, Larsen AV, Vlachos E, Holmstrand KF (2020). *How to FAIR: a Danish website to guide researchers on making research data more FAIR*. <https://howtofair.dk/how-to-fair/>
- CESSDA Training Team (2017 - 2020). *CESSDA Data Management Expert Guide*. Bergen, Norway: CESSDA ERIC. Retrieved from <https://www.cessda.eu/DMGuide>
- *Research Data MANTRA* [online course, <https://mantra.edina.ac.uk/>] by the Research Data Service, University of Edinburgh
- Rockenberger A (2020) *Shut Up And Write Documentation: README.txt*. Retrieved from: <https://zenodo.org/record/3778273>
- K. Briney (2014) *Wrapping Up A Project*. Retrieved from: <http://dataabinitio.com/?p=344>
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