Part Three

Data Wrangling

CURATE

Workflow model created by the **Data Curation Network**.

Check files and read documentation

Understand the data

Request missing information

Augment documentation and metadata

Transform file formats for reuse

Evaluate for FAIRness

Check

- Review the content of the data files (open files in viewer or application, run code, etc.)
- Review documentation (Metadata, readme files, instructions, related articles)

Understand

- Are any of the tags or metadata ambiguous? Is there data missing? If there is code, does it run?
- Is all the documentation where it should be?
- Is there enough documentation and is the data clearly arranged enough that another researcher with the same background could be reasonably expected to be able to reuse the data?

Understand

- Recommended content
- General information
- Data and file overview
- Sharing and access information
- Methodological information Data-specific information

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

Request

- Evaluate gaps in information revealed in the Check and Understand steps.
- Decide on priority of information
- Contact researcher (preferably via email) to ask about missing information
- Keep it simple and to the point
- Get permission to do the work yourself.

Augment

- Makes changes, add data, any other steps suggested by the new data that the researcher has agreed to
- Create metadata based on the original and revised documentation
- Standardize For example ISO 8601 (YYYY-MM-DD Format)
- Compile curation log Everything done to the data, correspondence with researcher, etc.



Basic Metadata

- Author
- Title
- Keywords
- Abstract
- Language
- Citation
- Any links necessary
- Licensing information
- Funding information

Transform to Archival Formats

- Open formats: CSV, TXT, PDF instead of DOCX, XSLX, etc.
- Lossless rather than lossy
- Widely adopted
- Independant (not tied to a particular application, OS, or hardware)
- Library of Congress Recommended Formats

Evaluate FAIRness

Findable

Accessible

Interoperable

Reusable

Examples

Code File

Your Turn

https://drive.google.com/open?id=1dNke_YUMpVv77XU0SW8m6vMuy-VOy7y-