Introduction to Research Data Management

Welcome

Your instructor

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Introductions

1. Your name

2. What do you study – or intend to study – in your research?

3. Do already have – or work with – data?

4. Why did you sign up for this workshop series?

5. Anything else?

Our schedule

Workshop scope

- Broad introduction.

- No prerequisites and no grades.

Our agreement

One rule
Individuals who behave in a manner that shows indent to exclude, intimidate, or cause discomfort to others will be asked to leave.

One expectation
Active participation.

Discussion

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- "Recorded factual material commonly accepted in the scientific community as necessary to document and support research findings." (National Institutes of Health)

- "…determined by the community of interest through the process of peer review and program management." (National Science Foundation)

- "…materials generated or collected during the course of conducting research." (National Endowment for the Humanities)

Defining data

Research data are information artifacts that scholars draw upon for evidence in supporting research claims, and producing new knowledge.

Research data management

Research data management (RDM) refers to the practices of organizing, documenting, storing, sharing, and preserving data collected during a research project.

The aim of research data management is to ensure that data are usable over time.

Discussion

Why is research data "management" a thing?

Discussion

Why is research data "management" a thing?

- Personal efficiency.

- Happy advisors.

- The future.

Topics covered

- **Collecting** and **formatting data** for easy analysis.

- **File organization** and **naming conventions** for identification.

- **Documentation** and **version control** for tracking changes and roll-back.

- Managing **storage** and **access** locations for security and collaboration.

- **Back-up** procedures for redundancy.

- **Quality control** for integrity.

- Policies for **sharing** and **reuse**.

- **Archiving** for future accessibility.

Discussion

What do you hope to gain from the workshop series?

Conclusion

We've covered the scope of this workshop, and talked about definitions for data and research data management.

Recommended reading

- Carly Strasser, Robert Cook, William Michener, Amber Budden. 2012. "DataONE Primer on Data Management: What you always wanted to know" [PDF](https://doi.org/doi:10.5060/D2251G48)