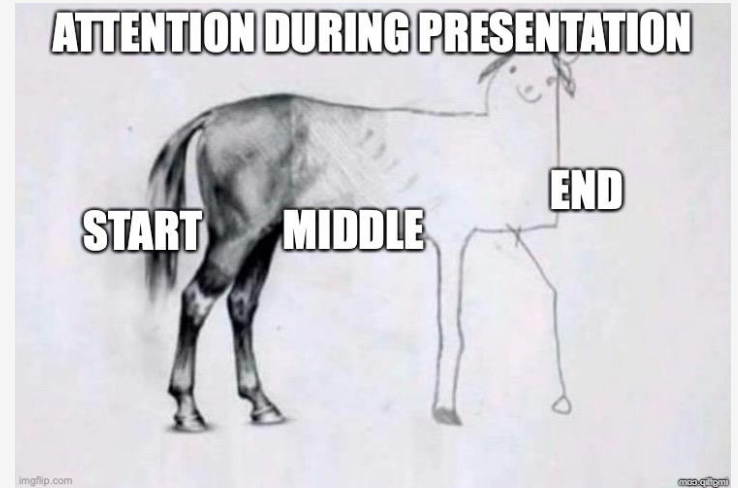source

Intro to Research Data Management (RDM)

Nick Rochlin, Data Science Librarian
UVic Libraries

Session Overview

- What is research data management (RDM)?

- Why should you care? (Should you?)

- Uvic's RDM Services

ATTENTION DURING PRESENTATION

START   MIDDLE   END

source

[visible confusion]

What is Research Data Management (RDM)?

What Are Research Data?

What Are Research Data?

"**Research data are used as primary sources or evidence to support and validate an inquiry, research question(s), and/or creative work.**

Research data are distinguished by their intended purpose rather than form and can be experimental, observational, repurposed, processed, or any other manifestation of data. Determining what constitutes research data can be highly contextual and should be decided in keeping with disciplinary norms."

Geographical

Transport

Cultural

Natural

Scientific

Types of Data

Meteorological

Financial

Statistical

source

What is RDM?

What is RDM?

"**RDM are practices and activities over the research life cycle that pertain to the management of research data, including planning, collecting, analyzing, documenting, storing, sharing, and preserving.**
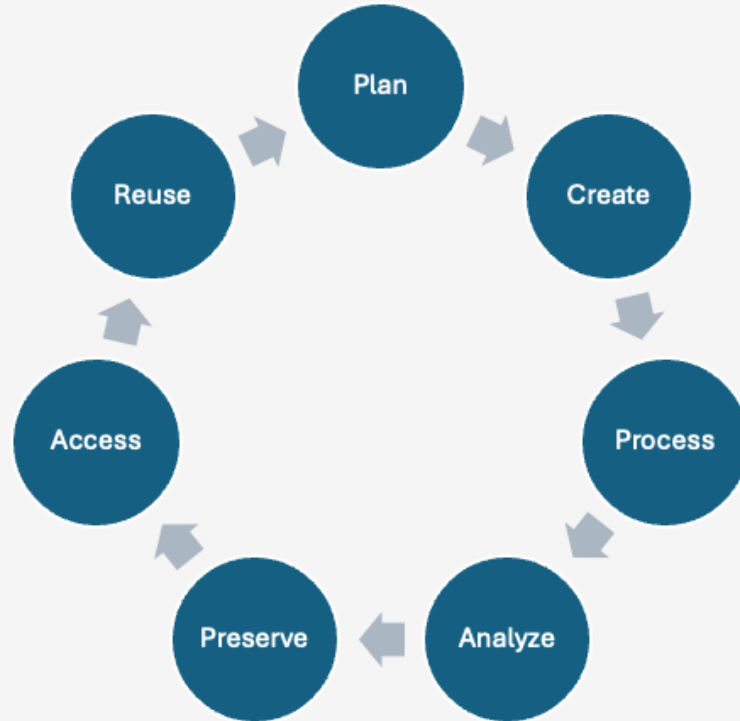
RDM is essential at all points of a data's lifecycle and should be a fundamental part of any project's design and progression."
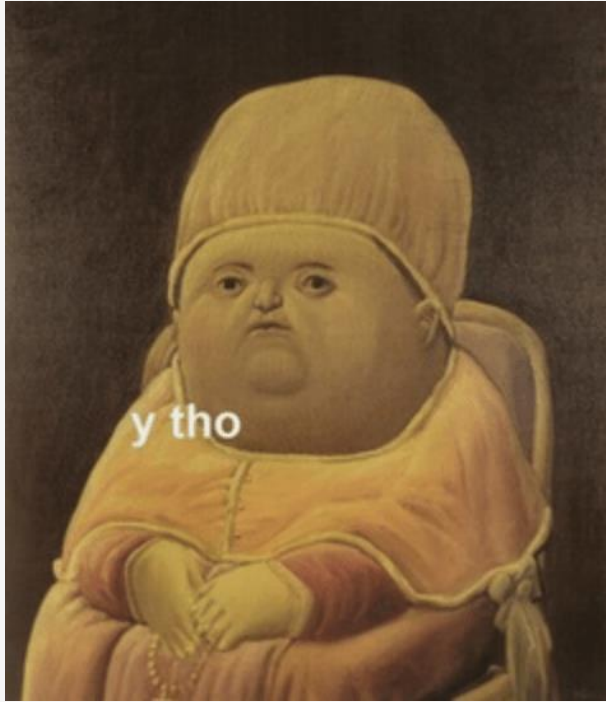
The Research Data Lifecycle

The Research Data Lifecycle

Why Should You Care? (Should you?)

source

Academic Integrity

Stanford president resigns after fallout from falsified data in his research

Updated July 20, 2023 · 6:36 PM ET
By Ayana Archie

People walk on the Stanford University campus beneath Hoover Tower in Stanford, Calif., on March 14, 2019. Stanford President Marc Tessier-Lavigne said on Wednesday he would resign, citing an independent review that cleared him of research misconduct but found flaws in other papers authored by his lab.
Ben Margot/AP

Research Fraud: Is Everything We Think We Know About Alzheimer's Disease Wrong?

TOPICS: Alzheimer's Brain Dementia Popular University Of Michigan
By MICHIGAN MEDICINE - UNIVERSITY OF MICHIGAN   AUGUST 15, 2022

Evidence revealed that scientists had faked images in a study published 16 years ago. This was an important paper that other researchers had trusted and relied on as they did their own work.

HAMILTON REGION

'Spiderman' Jonathan Pruitt falsified and fabricated research, McMaster investigation reveals

An investigation into Pruitt's 'research misconduct' revealed he 'engaged in data falsification and fabrication in several papers.'

Harvard professor who studies honesty accused of falsifying data in studies

Francesca Gino, a prominent Harvard Business School professor, alleged to have falsified results in behavioral science studies

Tri-Agency Policy

Researchers:

Data Management Plans

- Have started piloting with a handful of grants, more to come

Data Deposits

- Will phase in based on readiness of community

Tri-Agency Policy

Institutions

Institutional Strategy

- (Most) published March 1, 2023
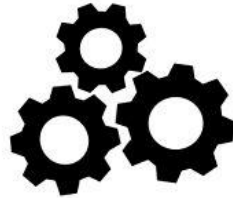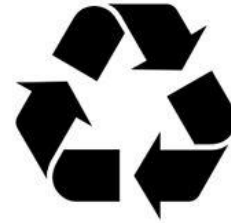
FAIR Principles

CARE Principles

Legal, Copyright, & Ethics

UVic's RDM Services

Data Management Plans (DMPs)

- UVic DMP Assistant template

- 1:1 guidance to complete DMPs

- DMP workshops

Data Deposits

- UVic's Borealis repository

- Provide 1:1 support to navigate deposits

- Detailed curation process to ensure that data and code are FAIR

- CoreTrustSeal certified as a Trustworthy Data Repository

- Support for finding and depositing data in other repositories, if needed

Other Cool Stuff

- File/folder naming and data organization via consultations and workshops

- Metadata schemas and controlled vocabularies

- Data analysis and reproducibility

- Data licensing

- Sensitive data

- Connecting researchers with other data services (storage, compute, funding requirements)

- Grants menu

Questions?