

Research Data Management for Cultural Heritage

A whistle-stop tour!

Webinar on Open Scholarship in GLAM

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Jez Cope (he/him) |  @petrichor@digipres.club

Data Services Lead

The British Library

Overview

- What is Research Data Management?
- How do I do it?
- What else is there?
- Further resources

Research Data is...

- Text, documents, corpora, images, maps, web pages, spreadsheets, interview transcripts, video, audio, 3D models, ...
- Any source of information you use to support a research conclusion or argument

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Research Data **Management** is...

1. Ensuring your data is safe, secure, documented, accurate, findable, useful, preserved, appropriately shared
2. Planning the actions necessary for the above

Brief aside

I try to consistently treat "data" as a mass noun

Other people prefer to treat it as plural;

I don't mind what you do as long as you're consistent!

Tell the *whole* story

Not just the book/article! Yes, data, but also...

- Methodology
- Analysis code
- Intellectual property
- Primary & secondary sources
- Public engagement activities
- Creative outputs: performances, artworks, poetry...

Wellcome Trust call this "Outputs Management"

Open Data

Available for others
to reuse...

...without charge

...without
unreasonable
restrictions

FAIR Data

Findable

Accessible

Interoperable

Reusable

CARE Data

Collective Benefit

Authority to Control

Responsibility

Ethics

Not all data can be open!

Opportunities

- Raise your profile/influence
- Attract collaborators
- Get more citations
- Enable new types of research
- Improve transparency

Publishing data — Delivery

Pick **one** of these:

- Submit to a data repository/archive
- *If it's sensitive:* Release under data sharing agreement on request
- *If it's really big:* Send via courier

Avoid these:

- *Supplementary material in a journal*
- *Upload to lab, department or personal website*
- *"On request from the author" without good reason*

"Never underestimate the bandwidth of a station wagon full of tapes hurtling down the highway."

— *Andrew S. Tanenbaum (1985)*

Publishing data — Advertising

Do **as many of these** as you like:

- Get a DOI for it
- Citation or data availability statement in your papers
- Promote at conferences
- Link from a personal website
- Social media

Where to publish

- Your institution's data repository
- Discipline-specific repository/archive
 - Search <https://www.re3data.org/>
- General-purpose repository
- *Ask your data librarian for recommendations!*

Cite your data!

1. Get a DOI
 - Most data repositories/archives offer this
2. Follow your department/publisher's referencing guide
 - Use your bibliographic database software for consistency
 - Use <https://citation.crosscite.org/> with a DOI
3. That's it!

Citation example (APA style)

Borghi, J., & Van Gulick, A. (2020). Data Management and Sharing: Practices and Perceptions of Psychology Researchers (Version 3) [Data set]. Dryad. <https://doi.org/10.5061/DRYAD.6WWPZGMW3>

Licensing

Licenses specify what non-rightsholders can do with information

No license? Look but don't touch!

Content types

- General creative works:
Creative Commons licenses
- Open Data: Open Data
Commons licenses
- Open Software: GNU Public
License, MIT, BSD, Apache

Common restrictions & requirements:

- Attribution
- No derivatives
- Share-alike
- Non-commercial

creativecommons.org | opendatacommons.org | choosealicense.com

What else?

- Documentation
 - Both human-readable and machine-readable
 - Provenance, copyright & licensing, structure, content
- Organisation
 - File naming & folder structure
 - File formats
- Licensing & intellectual property
- Information security
 - Availability
 - Confidentiality
 - Integrity
- Curation, preservation & archival
- **Planning** for all of the above

Data management planning

Great tool to help you consider all aspects

(Also a funding requirement for many grants)

dcc.ac.uk/dmps for examples and guidance

dmponline.dcc.ac.uk for templates

Where to learn more

This is just the beginning of your journey!

- British Library: A Guide to Research Data Management: doi.org/gsh6
 - From the [British Library Scholarly Communications Toolkit](#)
- Write a data management plan with [DMPonline](#)
- Research Data MANTRA course mantra.edina.ac.uk
- ALLEA "Sustainable and FAIR Data Sharing in the Humanities" report: doi.org/ghp928
- [The Programming Historian](#), especially "[Preserving Your Research Data](#)" lesson
- [Library Carpentry FAIR Research lesson](#) (*work in progress*)

Thank
you

