

Introduction to Research Data Management

Using data repositories

<http://hdl.handle.net/1969.1/164755>

Workshops

1. Build an overview
2. Collect and document data
3. Store digital data
4. Work with data
- 5. Share and preserve data**
6. Plan ahead

Introduction

Focus on finding and using data repositories for data sharing and preservation.

The goal is to make data open, findable and usable into the future.

The need for preservation

External requirements: you may need to make your data publicly available, in which case, it also needs to be maintained.

Long-term usefulness: you may want to preserve the data for a longer period of time due to its potential value and limited reproducibility.

Data repositories

- Institutional repository (IR): connected to the researcher's institution.
- Disciplinary repository (DR): discipline specific and often operated by a professional organization, a consortium of researchers, or some similar group.
- Open Repository (OR): allows researchers from different disciplines to deposit and make their data available.

Finding a data repository

- Registry of Research Data Repositories: re3data.org
- The Directory of Open Access Repositories: <http://opendoar.org>
- FAIRSharing: <https://fairsharing.org/databases/>
- Nature *Scientific Data* recommended repositories: <https://www.nature.com/sdata/policies/repositories>

Repository considerations

- Access
- Permanent Identifiers
- Embargoes
- Licensing: Open Data Commons, Creative Commons
- Depositing Data: self-deposit and mediated deposit
- Curation
- Data disposal

Demo

Final tips and reminders

- Decide which data you want to share.
- Choose file formats that last.
- Remember the documentation.
- Consider ownership and privacy.
- Follow metadata tips and standards.

Conclusion

- Discussed finding and using data repositories.

References and resources

- Cornell. "Data licensing" [Website](<https://data.research.cornell.edu/content/intellectual-property#data-licensing>)
- Data Curation Center. "How to license research data" [Website](<http://www.dcc.ac.uk/resources/how-guides/license-research-data>)
- DMPTool. "Data Management General Guidance" [Website](https://dmptool.org/dm_guidance)