Research data management: Essentials for Higher Degree by Research Students by Monash University Library is licensed under a Creative Commons Attribution-NonCommercial 3.0 Unported License.
Overview

- What do we mean by research data?
- Your responsibilities
- Finding out more – sources of information, advice and technical support
Characterising research data (1)

- Original material generated by research and/or unpublished resources analysed for research in original ways
- Very valuable part of your research
  - Validates your results
  - Enables others to build on your findings
Characterising research data (2)

- New (collected or created by you) and/or existing (sourced from somewhere else)
- Qualitative and/or quantitative
- Multiple formats
Common types of research data

- Statistics and measurements
- Results of experiments or simulations
- Observations e.g. fieldwork
- Survey results – print or online
- Interview recordings and transcripts, and coding applied to these
- Images, from cameras and scientific equipment
- Textual source materials and annotations
Discussion

- What kind of research are you doing?
- What types of data do you think you might generate?
Managing data well is part of being a responsible researcher

- **Australian Code for the Responsible Conduct of Research (2007), Section 2**

- Monash University Research Data Management Policy and Procedures (including HDR procedures)

- Research data needs to be kept for a *minimum* of 5 years and managed well
Leaflet

- Pick up a copy from your campus Library
- Or download from the web: www.researchdata.monash.edu.au/resources/dataleaflet.pdf
Guidelines provide advice on common concerns

Research data management

Monash University is committed to improving the way research data in all formats is created, stored, managed and disseminated. This website provides guidance on common research data management issues and highlights the portfolio of advisory and technical support services that are available to researchers.

Guidelines

- Data management planning
- Ownership, copyright and IP
- Ethical requirements
- Durable formats
- Storage and backup
- Sharing data and controlling access
- Documentation and metadata
- Retention and disposal
- Secure destruction
- Deposit in a repository or archive

Latest

- exPERT seminars for HDR students
  1. Introduction to Data Management
  Registrations opening soon for Clayton and Caulfield campus sessions in May-June 2010
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- Seeking a customised session or individual consultation? Contact the University's Data Management Coordinator
Data planning checklist


- Helps you develop a plan for how you will manage your data

- Will be of most benefit completed early, but is a work in progress
A. OWNERSHIP, COPYRIGHT, INTELLECTUAL PROPERTY (IP)

Copyright protection

1. □ The data is protected by copyright. This will apply to most research data.
2. □ The data will be collected, created or compiled
   □ in Australia - Australian copyright applies.
   □ outside of Australia.

Complete quickly and easily using multi-choice boxes

Not sure which option applies to you? Follow the links to relevant resources and people who can help

Attach other documents and add supplementary information to create a more comprehensive data management plan

KEY DOCUMENTS ON THIS TOPIC

- Research data management guidelines: ownership, copyright and IP
- Intellectual Property Framework
- Statute 11.2 IP and Copyright and IP Regulations
- Explanatory Memorandum for IP Statute and Regulations
- Copyright at Monash website
- Practical Data Management: A Legal and Policy Guide (national guide)

Consult the Copyright Advisers or University Solicitors.

Provide a copy of MRGS.IP and Assignment Forms to help clarify ownership of the data.

Provide a reference number or copy of the agreement.
Effective management of data

- National & institutional policy frameworks
- Copyright & IP in new data
- Using existing data
- Ethics
- File formats
- Storage & backup
- Sharing & controlling access
- Organising & documenting data
- Publishing & dissemination
- Long-term retention
- Secure destruction
- Leaving Monash
Developing data management skills

- exPERT seminar: Introduction to data planning
- MPA days
- Other events on request
Other related exPERT seminars

- Introduction to Intellectual Property and Copyright
- Ethics (various modules)
- Software packages for statistics
Advice - Library

- Data Management Coordinator
  researchdata@monash.edu

- Faculty contact librarians
  http://www.lib.monash.edu/contacts/faculty/
Technical advice – e-Research Centre
www.monash.edu.au/eresearch

- The Monash e-Research Centre (MeRC) complements central IT support
- MeRC focuses on supporting researchers and can help you with
  - Storage and backup
  - Organising data
  - Collaboration
  - Publishing and disseminating datasets
Large Research Data Store (LaRDS)

- LaRDS is Monash’s central research data store
- Use of LaRDS is welcomed and encouraged by all Monash researchers (including HDR students)
- No cost for standard use
- NOT a single service, ‘file system’, or interface – LaRDS is storage infrastructure that supports different tools and access modes
- e-Research Centre staff help you work out which way of accessing LaRDS is best for you
How to get access to LaRDS

- Email merc@monash.edu – include as much of the following information as you can
  - Brief research description (~150 words)
  - Mac / Windows PC / Linux
  - Data size, data type and data security requirements
  - Duration of your project
  - Users - just you / you and your supervisor / group? Anyone outside Monash?
  - How often you will access the data, and from where – office, lab, home, in the field?
  - How you heard about LaRDS
Things to remember

- Your research data is a precious asset
- You need to keep data *at least* 5 years after the end of your project (sometimes much longer)
- Monash University has many services and people that can help you – but it’s up to you to make the most of them
- Find out more through exPERT seminars, web resources and getting in touch