

# Data and Script Management

2021

# Description & Instructions for Trainers

If needed, provide an advertisement for what data management is, why it is important and how it applies in a particular setting.

- Use general language or tailor for a specific audience
- Integrate into training session (beginning or middle)
- Keep it to 1-2 minutes
- Point out people should talk to their PI /department about standard practices in their field before moving forward with generalities
- Highlight links to the website and complete slides more information
  - Resources to get people started: Onboarding Checklist, Lifecycle Checklist, etc.

# Data Management

1. **Planning: Plan ahead**
2. **Active Research: Document**
3. **Dissemination: Share confidently**

*Note: be sure to ask your PI and your department about standard practices in your field!*



Harvard Biomedical Data Management Website: <https://datamanagement.hms.harvard.edu>

Resources: <https://datamanagement.hms.harvard.edu/about/what-research-data-management/rdm-resources>

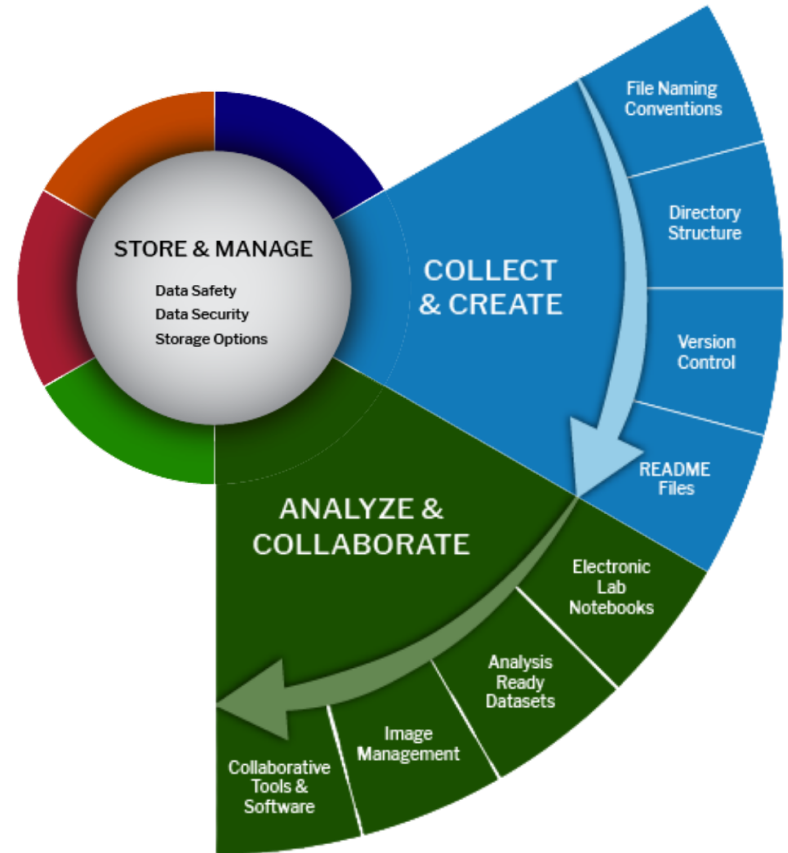
# Planning

- Document the activities for the entire lifecycle in a Data Management Plan
- Determine if you need a Data Use Agreement to acquire or share data
- Adopt a community-based metadata standard if applicable
- Consider how the data will be stored and protected over the duration of the project and beyond
- Assign roles & responsibilities for managing data



# Active Research

- Determine how the data will be organized including folder structure & file naming
- Consider versioning control for changes for both software and data products
- Create a README file to record the metadata that will be associated with data
- Link related code and algorithms
- Use tools & software to work with collaborators during the project



# Dissemination

- Determine what data will be disseminated, to who, when, and where
- Publish data in an open repository to receive a DOI and citation for your work
- Use standard, nonproprietary approaches and provide accompanying metadata
- Think about your preservation strategy and adhere to your lab's standard practices
- Research records should generally be retained no fewer than seven (7) years after the end of a research project or activity

