



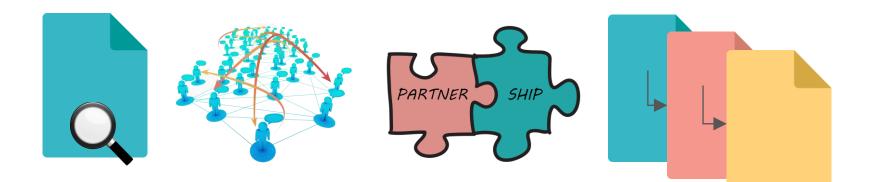
DataONE

DataONE Data Management Training the different approaches to data management training

Rebecca Koskela Belmont Forum Digital Skills and Curricula Development Workshop April 28, 2017

Development of Resources Approach

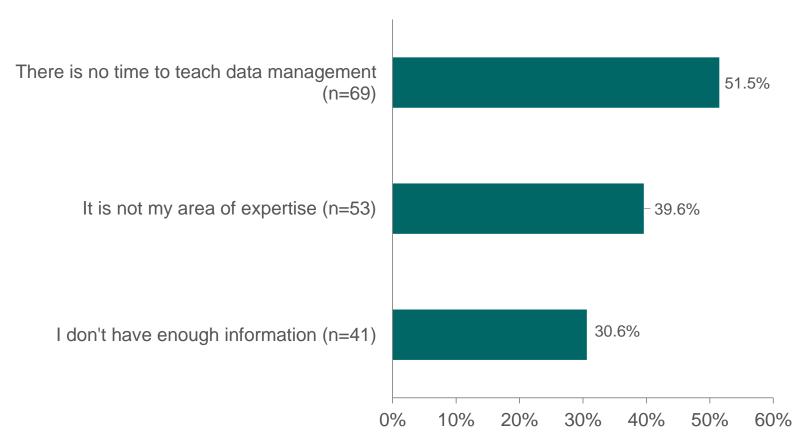
- Solicit community feedback
- Build partnerships
- Append, create, revise offerings





Challenges Educators

Barriers to Teaching Data Management (n=134)

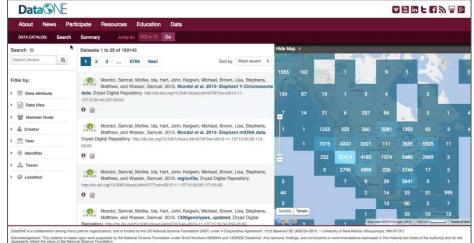


Data (3) |

Sustainable Outreach Online Engagement









Data

Best Practices Database and Primer

Best Practices

The DataONE Best Practices database provides individuals with recommendations on how to effectively work with their data through all stages of the data lifecycle. Users can access best practices within the database by either clicking on a stage of the lifecycle or selecting keywords under search.

Best Practices Primer

For students and others new to data management, we provide a Best Practices Primer as an introduction to the DataONE Best Practices database and data management in general.

Public Participation in Science Research Data Management Guide

We also provide a Data Management Guide written specifically for the Citizen Science community that takes the users through the steps of the data lifecycle and links to various DataONE Best Practices online.



Search by Keyword in title	Search by Keyword in Body	
Filter by tag access analyze annotation assure backup calibration citation coding collect You may enter multiple tags by holding down command (control) and making your selection	Filter by Data Life Cycle	

Data

www.dataone.org

Primer on Data Management: What you always wanted to know* * but were afraid to ask

Carly Strasser, Robert Cook, William Michener, Amber Budden

Contents

CUI	itents			
1.	Objective of This Primer1			
2.	Why Manage Data?		1	
	2.1.	It will benefit you and your collaborators	1	
	2.2.	It will benefit the scientific community	2	
	2.3.	Journals and sponsors want you to share your data	2	
3.	How To Use This Primer 2			
4.	The Data Life Cycle: An Overview3			
5.	Data Management Throughout the Data Life Cycle		4	
	5.1	Plan	4	
	5.2	Collect		
	5.3	Assure		
	5.4	Describe: Data Documentation	5	
	5.5.	Preserve	6	
	5.6.	Discover, Integrate, and Analyze	7	
6.	. Conclusion		7	
7.	Acknow	Acknowledgements8		
8.	Reference	References 8		
9.	Glossary			

1. Objective of This Primer

The goal of data management is to produce self-describing data sets. If you give your data to a scientist or colleague who has not been involved with your project, will they be able to make sense of it? Will they be able to use it effectively and properly? This primer describes a few fundamental data management practices that will enable you to develop a data management plan, as well as how to effectively create, organize, manage, describe, preserve and share data.

2. Why Manage Data?

2.1. It will benefit you and your collaborators

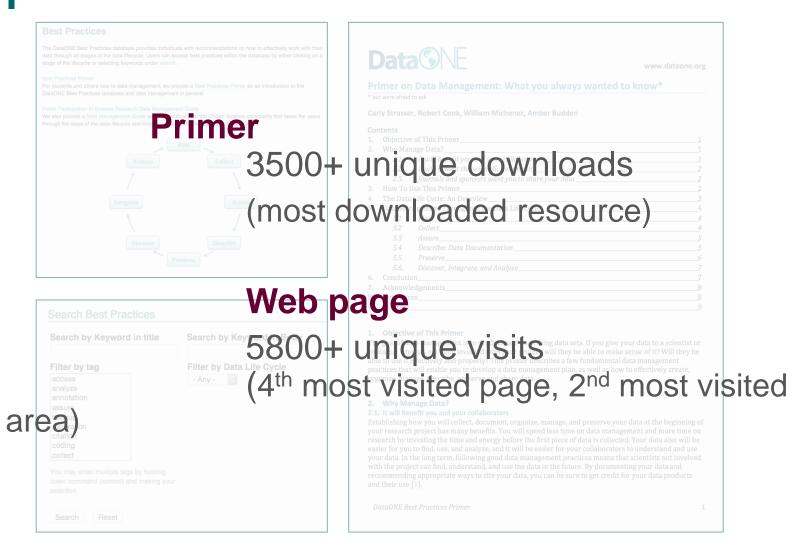
Establishing how you will collect, document, organize, manage, and preserve your data at the beginning of your research project has many benefits. You will spend less time on data management and more time on research by investing the time and energy before the first piece of data is collected. Your data also will be easier for you to find, use, and analyze, and it will be easier for your collaborators to understand and use your data. In the long term, following good data management practices means that scientists not involved with the project can find, understand, and use the data in the future. By documenting your data and recommending appropriate ways to cite your data, you can be sure to get credit for your data products and their use [1].

DataONE Best Practices Primer

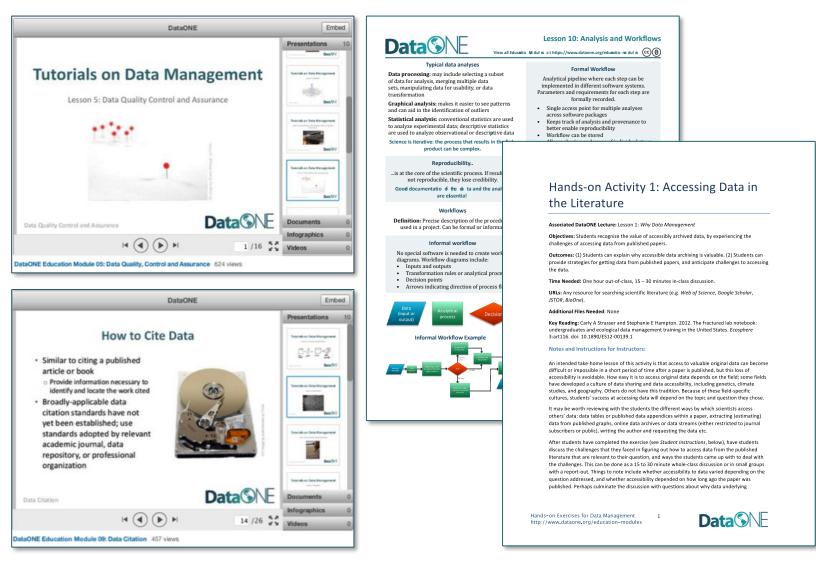
1

www.dataone.org/best-practices

Best Practices Metrics



Data Management Modules Overview



Data Management Modules Enhancement

Comprehensive peer-review and revision
Transition to GitHub

