

Community Resources for Data Management

Megan Mach and Amber Budden DataONE

Nancy Hoebelheinrich Knowledge Motifs

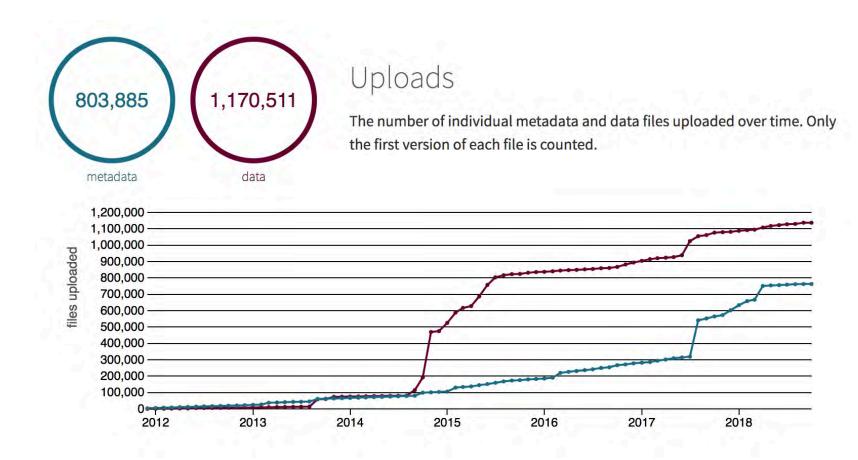
DataONE Cyberinfrastructure





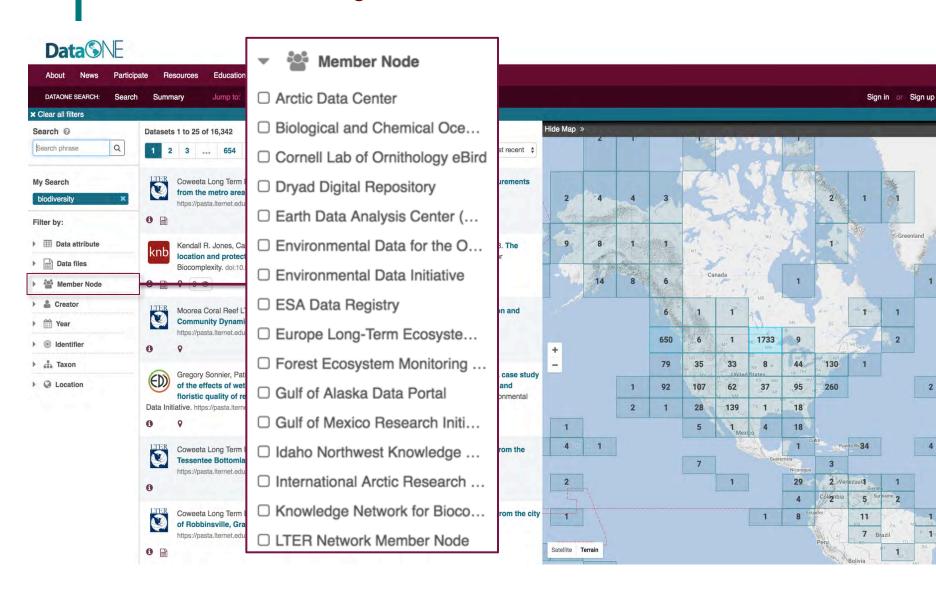
Data Holdings

dataone.org/current-member-nodes

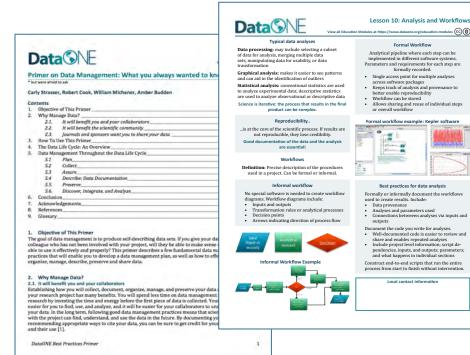


DataONE Search

search.dataone.org



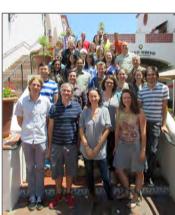
Data Management Education







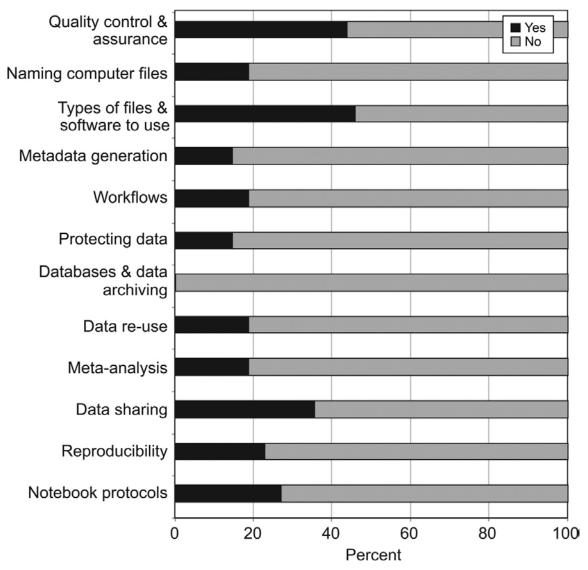








The Fractured Lab Notebook





DataONE Education Modules

dataone.org/education-modules









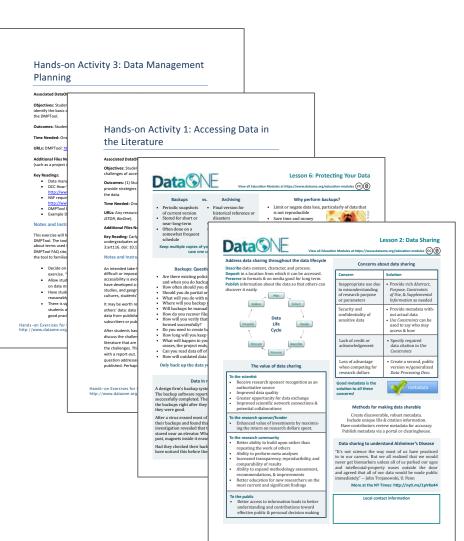
DataONE Education Modules

dataone.org/education-modules













Community Use

P	age ?		Total Events
		. 11	232,749 % of Total: 100.00% (232,749)
1.	/education-modules	P	30,854 (13.24%)
2.	/best-practices/create-and-document-data-back up-policy	P	23,989 (10.30%)
3.	/data-management-planning	P	23,604 (10.13%)
4.	/best-practices	P	10,892 (4.67%)
5.	/software-tools/fusion-lidar-software	P	8,562 (3.67%)
6.	/current-member-nodes	P	8,198 (3.52%)
7.	/find-data	P	7,635 (3.28%)
8.	1	Ð	6,504 (2.79%)
9.	/software-tools/dbdesigner-4	4	6,409 (2.75%)
0.	/investigator-toolkit	(P)	5,756 (2.47%)

Community Use

Page 7		Event Label 3		Total Events	8 4
				% of Tota	,947 al: 6.42% 232,749)
1.	/education-module	1.	/sites/all/documents/L01_DataManagement.pptx	2,115 ((14.15%)
2.	/best-practices/cre up-policy	2.	/sites/all/documents/education- modules/pptx/L01_DataManagement.pptx	1,364	(9.12%)
3.	/data-managemen	3.	/sites/all/documents/L07_Metadata.pptx	1,029	(6.88%)
4.	/best-practices	4.	/sites/all/documents/DataONE_Education_Modules_Full_Set.p ptx	913	(6.11%)
5.	/software-tools/fu	5.	/sites/all/documents/L03_DataManagementPlanning.pptx	793	(5.30%)
6.	/current-member-r	6.	/sites/all/documents/education- modules/pptx/L03_DataManagementPlanning.pptx	762	(5.10%)
7.	/find-data	7.	/sites/all/documents/L02_DataSharing.pptx	740	(4.95%)
8.	1	8.	/sites/all/documents/L04_DataEntryManipulation.pptx	725	(4.85%)
9.	/software-tools/db	9.	/sites/all/documents/education- modules/pptx/L07_Metadata.pptx	634	(4.24%)
10.	/investigator-toolk	10.	/sites/all/documents/L08_WriteQualityMetadata.pptx	600	(4.01%)

Maintenance



Volume 6 | Issue 2

Article 1

2017-09-08

Using Peer Review to Support Development of Community Resources for Research Data Management

Heather Soyka

Kent State University

Amber Budden

DataONE/University of New Mexico

Viv Hutchison

US Geological Survey

Challenges

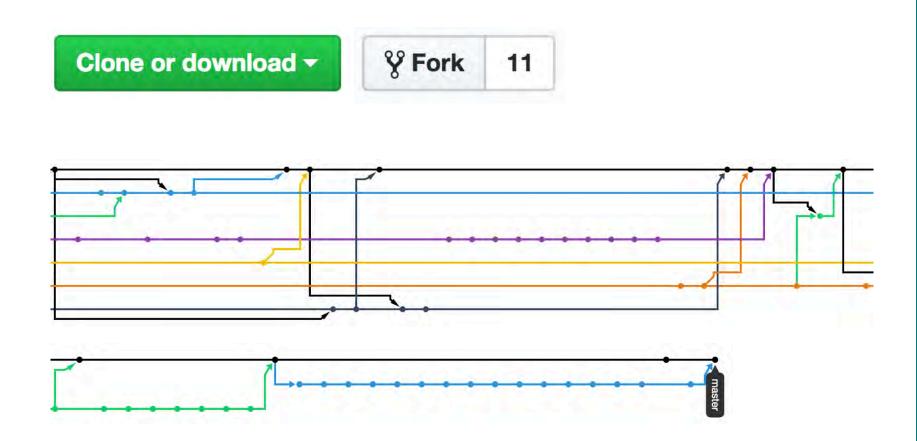




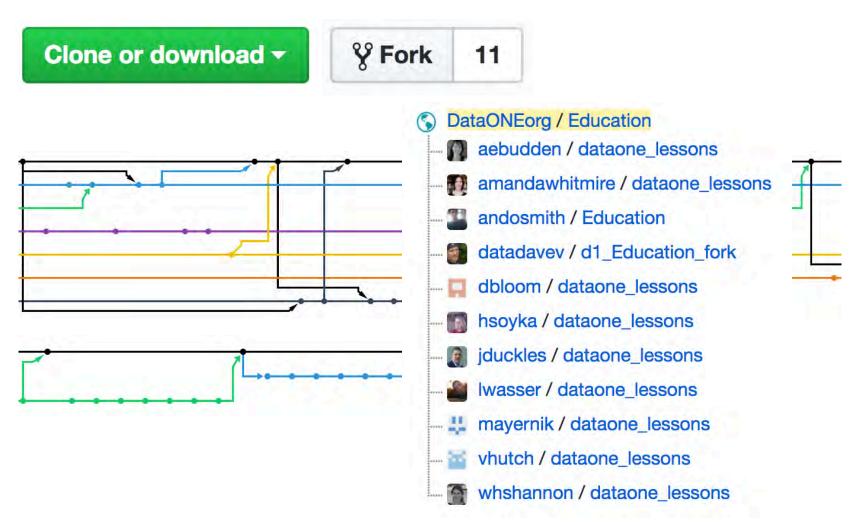
Solutions



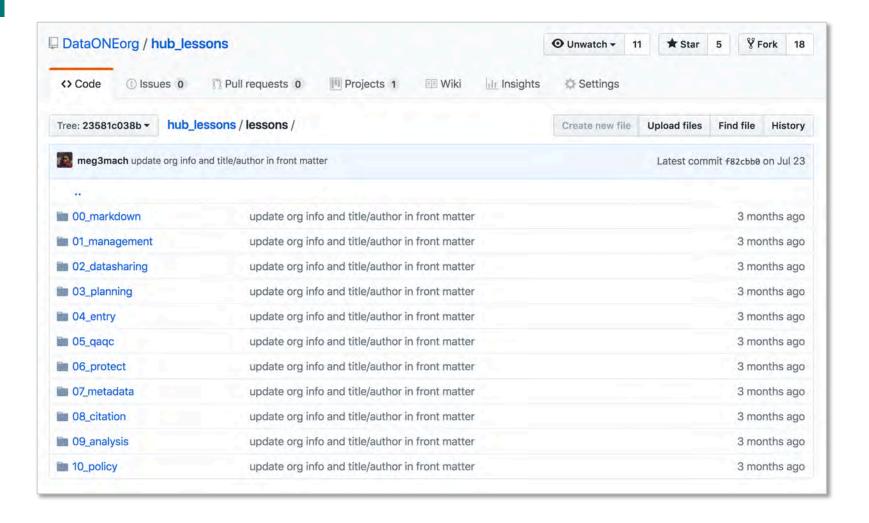
Versioned work space



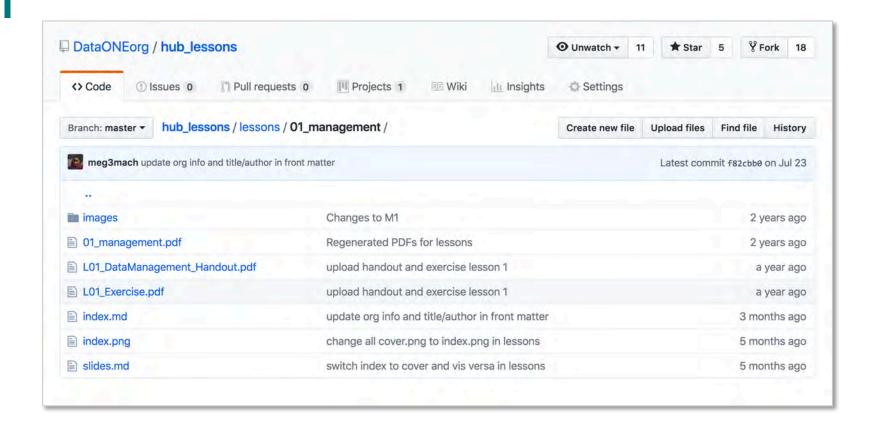
Versioned work space



Structured repository



Structured repository





Home Contribute FAQ GitHub

Q

The Data Management Skillbuilding Hub contains resources for better data management and is open to community input and update. These resources are adaptable across a range of contexts and intended for use by researchers, teachers, librarians, or anyone who wants to learn better data management practices. Each tile below links to community contributed education materials, such as best practices and lesson plans

The resources presented on the Data Management Skillbuilding Hub can be updated by users to promote a current, well-maintained, and sustainable educational tool. Learn more about how you can contribute.

Using This Resource

Click individual tiles to learn more and use each resource. You can limit resources by content type and Data Life Cycle stage. Comprehensive information is available in the FAQ.

» Filter by content type:

А	п		
м		-	
		_	

TEACHING MODULE

BEST PRACTICE

VIDEO

» Filter by stage of the Data Life Cycle



















- Structure: Data life-cycle
- Current holdings: Education modules and best practices
- Citation: Credit where credit is due
- Editing content (forking!)
- Creating new content (in the works)
- Future holdings





Q

Contribute FAO GitHub Home

The Data Management Skillbuilding Hub contains resources for better data management and is open to community input and update. These resources are adaptable across a range of contexts and intended for use by researchers, teachers, librarians, or anyone who wants to learn better data management practices. Each tile below links to community contributed education materials, such as best practices and lesson plans

The resources presented on the Data Management Skillbuilding Hub can be updated by users to promote a current, well-maintained, and sustainable educational tool. Learn more about how you can contribute.

Using This Resource

Click individual tiles to learn more and use each resource. You can limit resources by content type and Data Life Cycle stage. Comprehensive information is available in the FAO.

» Filter by content type:

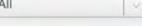
ALL

TEACHING MODULE

BEST PRACTICE

VIDEO

» Filter by stage of the Data Life Cycle











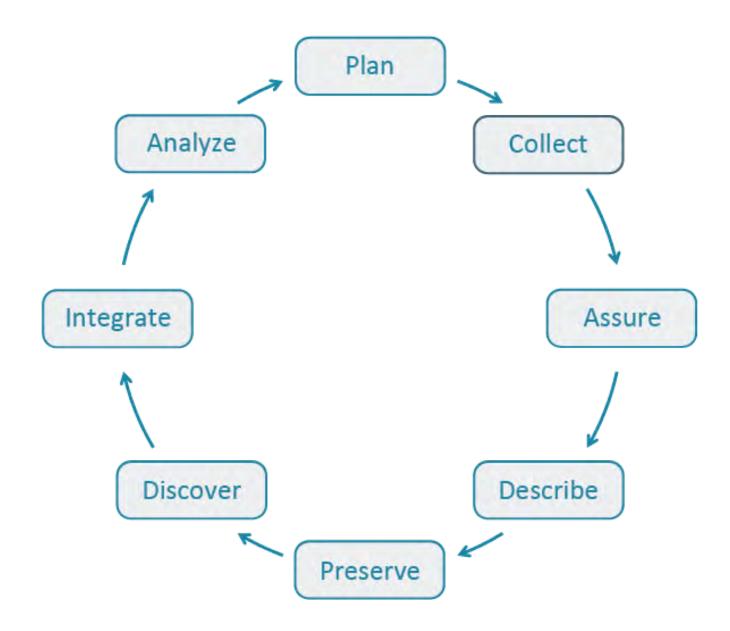








Data life-cycle stages





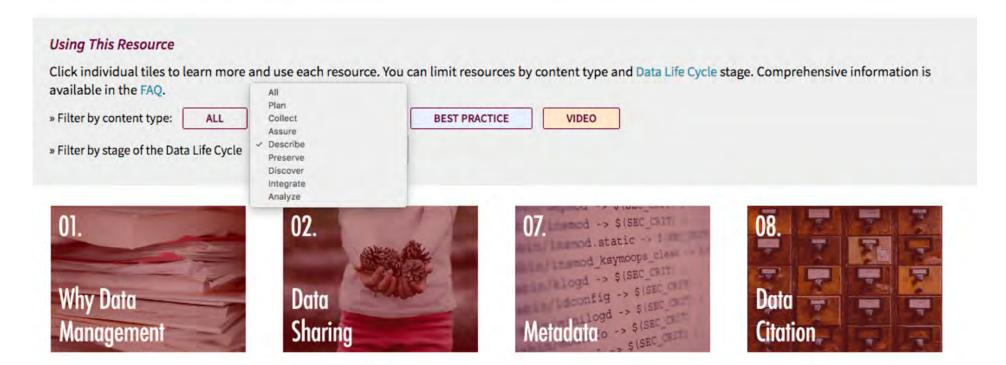


Home Contribute FAQ GitHub

a

The Data Management Skillbuilding Hub contains resources for better data management and is open to community input and update. These resources are adaptable across a range of contexts and intended for use by researchers, teachers, librarians, or anyone who wants to learn better data management practices. Each tile below links to community contributed education materials, such as best practices and lesson plans

The resources presented on the Data Management Skillbuilding Hub can be updated by users to promote a current, well-maintained, and sustainable educational tool. Learn more about how you can contribute.



Hosted by DataONE

In collaboration with the community, DataONE has developed high quality resources for helping educators and librarians with training in data management, including teaching materials, webinars and a database of best-practices to improve methods for data sharing and management.

1 If you have a question or concern, please open an Issue in this repository on GitHub.



Home (

Contribute

FAQ

GitHub

-

TEACHING MODULE





Presentation View

Quick tips: Press p for presentation; f for full screen

Supporting downloads:



PDF Download



PPT Download



Handout



Hands-on Exercise

When first sharing research data, researchers often raise questions about the value, benefits, and mechanisms for sharing. Many stakeholders and interested parties, such as funding agencies, communities, other researchers, or members of the public may be interested in research, results and related data. This lesson addresses data sharing in the context of the data life cycle, the value of sharing data, concerns about sharing data, and methods and best practices for sharing data.

Cite this lesson:

DataONE Community Engagement & Outreach Working Group (2017) "Data Sharing". Accessed through the Data Management Skillbuilding Hub at https://dataoneorg.github.io/Education/lessons/02_datasharing/index on Oct 04, 2018





Version date: Apr 06, 2017

The Data Lifecycle

Several stages require critical attention to ensure effective data sharing

Step	Action
Describe	document the data content, character and process
Deposit	store the data in a location from which it can be accessed
Preserve	select storage formats and media with long term use in mind
Discover	publish information about the data so that others can find it

Data ONE

6/24

Why share data

Data sharing requires effort, resources, and faith in others. Why do it?

For the benefit of:

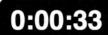
- · the public
- · the research sponsor
- · the research community
- · the researcher



CC Image by Jossen Lucia on Flicks







NOTES FOR CURRENT SLIDE

Effective data sharing requires careful thought during each stage of the data development process including:

- description and documentation of the data process, content, and character;
- deposition and storage of the data in a location from which it can be accessed or shared;
- preservation of the data using a format and media that enable long term reuse; and
- making the data discoverable by publishing information about the data in research publications, data clearinghouses and data distribution portals.

NOTES FOR NEXT SLIDE

Why expend the extra effort to share data? Because it benefits the public, the research sponsor, the research community and, perhaps most importantly, the researcher.



Home (

Contribute

FAQ

GitHub

-

TEACHING MODULE





Presentation View

Quick tips: Press p for presentation; f for full screen

Supporting downloads:



PDF Download



PPT Download



Handout



Hands-on Exercise

When first sharing research data, researchers often raise questions about the value, benefits, and mechanisms for sharing. Many stakeholders and interested parties, such as funding agencies, communities, other researchers, or members of the public may be interested in research, results and related data. This lesson addresses data sharing in the context of the data life cycle, the value of sharing data, concerns about sharing data, and methods and best practices for sharing data.

Cite this lesson:

DataONE Community Engagement & Outreach Working Group (2017) "Data Sharing". Accessed through the Data Management Skillbuilding Hub at https://dataoneorg.github.io/Education/lessons/02_datasharing/index on Oct 04, 2018





Version date: Apr 06, 2017

Home Contribute FAQ GitHub

Q

The Data Management Skillbuilding Hub contains resources for better data management and is open to community input and update. These resources are adaptable across a range of contexts and intended for use by researchers, teachers, librarians, or anyone who wants to learn better data management practices. Each tile below links to community contributed education materials, such as best practices and lesson plans

The resources presented on the Data Management Skillbuilding Hub can be updated by users to promote a current, well-maintained, and sustainable educational tool. Learn more about how you can contribute.

Using This Resource

Click individual tiles to learn more and use each resource. You can limit resources by content type and Data Life Cycle stage. Comprehensive information is available in the FAQ.

>>	Filter	by co	ntent	type:
----	--------	-------	-------	-------

Δ		

TEACHING MODULE

BEST PRACTICE

VIDEO

» Filter by stage of the Data Life Cycle





















Home Contribute FAQ GitHub

BEST PRACTICE

Best Practice: Assure

Select a Best Practice below to learn more about the "Assure" stage in the Data Life Cycle.

What is the "Assure" stage?

Employ quality assurance and quality control procedures that enhance the quality of data (e.g., training participants, routine instrument calibration) and identify potential errors and techniques to address them.

More information can be found in the Best Practices Primer.



Best Practices by Data Life Cycle

All

Plan

Collect

Assure

Describe

Preserve

Discover

Integrate

Analyze

Learn more:

BP Primer



Home Contribute FAQ GitHub Q

BEST PRACTICE

Best Practice: Assure

Select a Best Practice below to learn more about the "Assure" stage in the Data Life Cycle.

What is the "Assure" stage?

Employ quality assurance and quality control procedures that enhance the quality of data (e.g., training participants, routine instrument calibration) and identify potential errors and techniques to address them.

More information can be found in the Best Practices Primer.

Analyze Collect Integrate Assure Discover Describe S

Best Practices by Data Life Cycle

All

Plan

Collect

Assure

Describe

Preserve Discover

Integrate

Analyze

Communicate data quality

Information about quality control and quality assurance are important components of the metadata: (click for more)

Tags: assure flag qualify

Confirm a match between data and their description in metadata

To assure that metadata correctly describes what is actually in a data file, visual inspection or analysis should be done by someone not otherwise familiar with the data and its format. This will assure that the metadata is sufficient to describe the da... (click for more)

Tags: assure data consistency describe documentation metadata quality

Consider the compatibility of the data you are integrating

The integration of multiple data sets from different sources requires that they be compatible. Methods used to create the data should be considered early in the process, to avoid problems later during attempts to integrate data sets. Note that just beca... (click for more)

Tags: analyze assure database integrate quality tabular

Develop a quality assurance and quality control plan

Just as data checking and review are important components of data management, so is the step of documenting how these tasks were accomplished. Creating a plan for how to review the data before it is collected or compiled allows a researcher to

Learn more:

BP Primer



Home Contribute FAQ GitHub

Q

BEST PRACTICE

Communicate data quality

Data Life Cycle stage(s): Assure

Information about quality control and quality assurance are important components of the metadata:

- Qualify (flag) data that have been identified as questionable by including a flagging_column next to the column of data values. The two
 columns should be properly associated through a naming convention such as Temperature, flag_Temperature.
- Describe the quality control methods applied and their assumptions in the metadata. Describe any software used when performing the
 quality analysis, including code where practical. Include in the metadata who did the quality control analysis, when it was done, and what
 changes were made to the dataset.
- Describe standards or test data used for the quality analysis. For instance, include, when practical, the data used to make a calibration curve.
- If data with qualifier flags are summarized to create a derived data set, include the percent flagged data and percent missing data in the
 metadata of the derived data file. High frequency observations are often downsampled, and it is critical to know how much of the data
 were rejected in the primary data.

Description Rationale

Data quality and any methods used for quality control should be communicated so others can assess the data independently.

Additional Information

Hook, L.A., Beaty, T.W., Santhana-Vannan, S., Baskaran, L. and Cook, R.B. 2007. Best practices for preparing environmental data sets to share and archive. Oak Ridge National Laboratory Distributed Active Archive Center, Oak Ridge, Tennessee, U.S.A. (daac.ornl.gov/PI/bestprac.html)

Sheldon, W., Henshaw, D. and Ramsey, K. 2007. Final Report: Workshop to define quality management standards for data completeness in derived data products. Long Term Ecological Research Network Document Archive, University of New Mexico, Albuquerque, NM.

Additional Information (Biblio)

Best Practices by Data Life Cycle

All

Plan

Collect

Assure

Describe

Preserve

Discover

Integrate

Analyze

Learn more:

BP Primer



Contribute

FAO

GitHub

Search the Data Management Skill Building Hub

Results are listed in order of find, not by best match to search word, and will be alphabetically ordered by result type.

data backup

Teaching Module: Protecting Your Data: Backups, Archives & Data Preservation

Life Cycle Step(s): preserve, assure Authoring Organization: DataONE

Best Practice: Create and document a data backup policy

Life Cycle Step(s): plan, preserve Authoring Organization: DataONE

Best Practice: Ensure integrity and accessibility when making backups of data

Life Cycle Step(s): preserve

Authoring Organization: DataONE

Hosted by DataONE

In collaboration with the community, DataONE has developed high quality resources for helping educators and librarians with training in data management, including teaching materials, webinars and a database of best-practices to improve methods for data sharing and management.

1 If you have a question or concern, please open an Issue in this repository on GitHub.



Home

Contribute

FAQ

GitHub

TEACHING MODULE





Presentation View

Quick tips: Press p for presentation; f for full screen

Supporting downloads:



PDF Download



PPT Download



Handout



Hands-on Exercise

When first sharing research data, researchers often raise questions about the value, benefits, and mechanisms for sharing. Many stakeholders and interested parties, such as funding agencies, communities, other researchers, or members of the public may be interested in research, results and related data. This lesson addresses data sharing in the context of the data life cycle, the value of sharing data, concerns about sharing data, and methods and best practices for sharing data.

Cite this lesson:

DataONE Community Engagement & Outreach Working Group (2017) "Data Sharing". Accessed through the Data Management Skillbuilding Hub at https://dataoneorg.github.io/Education/lessons/02_datasharing/index on Oct 04, 2018





Version date: Apr 06, 2017

- Structure: Data life-cycle stage
- Current holdings: Education modules and best practices
- Citation: Credit where credit is due
- Editing content (forking!)
- Creating new content (in the works)
- Future holdings





Home Contribute FAQ GitHub

Q

Guidelines for contributors and content editors

This document details our recommended processes to update current content, suggest changes to content, and fork content for your own use, as well as an introduction to how the content is organized and the tools we use to display content.

This repository was developed by the DataONE Community Engagement and Outreach Working Group and continues to be maintained by members of this team. Thank you for your interest in contributing to these educational materials.



Home Contribute FAQ GitHub

Guidelines for contributors and content editors

This document details our recommended processes to update current content, suggest changes to content, and fork content for your own use, as well as an introduction to how the content is organized and the tools we use to display content.

This repository was developed by the DataONE Community Engagement and Outreach Working Group and continues to be maintained by members of this team. Thank you for your interest in contributing to these educational materials.

Update current content

Want to update a link or method? See a spelling error? Changes can be easily proposed by opening the GitHub Education page and editing content directly. For help, try this brief GitHub tutorial on forking and editing content.

Edit content

- 1. Create a fork of the lessons or best practices repository into your github account, depending on which content you wish to edit.
- 2. Modify the files that you want to change (See "Structure" below for tips on making changes).
- 3. Submit a pull-request against the master branch of this repository.
- Your changes will be reviewed by the repository admins.



Home Contribute FAQ GitHub

Guidelines for contributors and content editors

This document details our recommended processes to update current content, suggest changes to content, and fork content for your own use, as well as an introduction to how the content is organized and the tools we use to display content.

This repository was developed by the DataONE Community Engagement and Outreach Working Group and continues to be maintained by members of this team. Thank you for your interest in contributing to these educational materials.

Update current content

Want to update a link or method? See a spelling error? Changes can be easily proposed by opening the GitHub Education page and editing content directly. For help, try this brief GitHub tutorial on forking and editing content.

Edit content

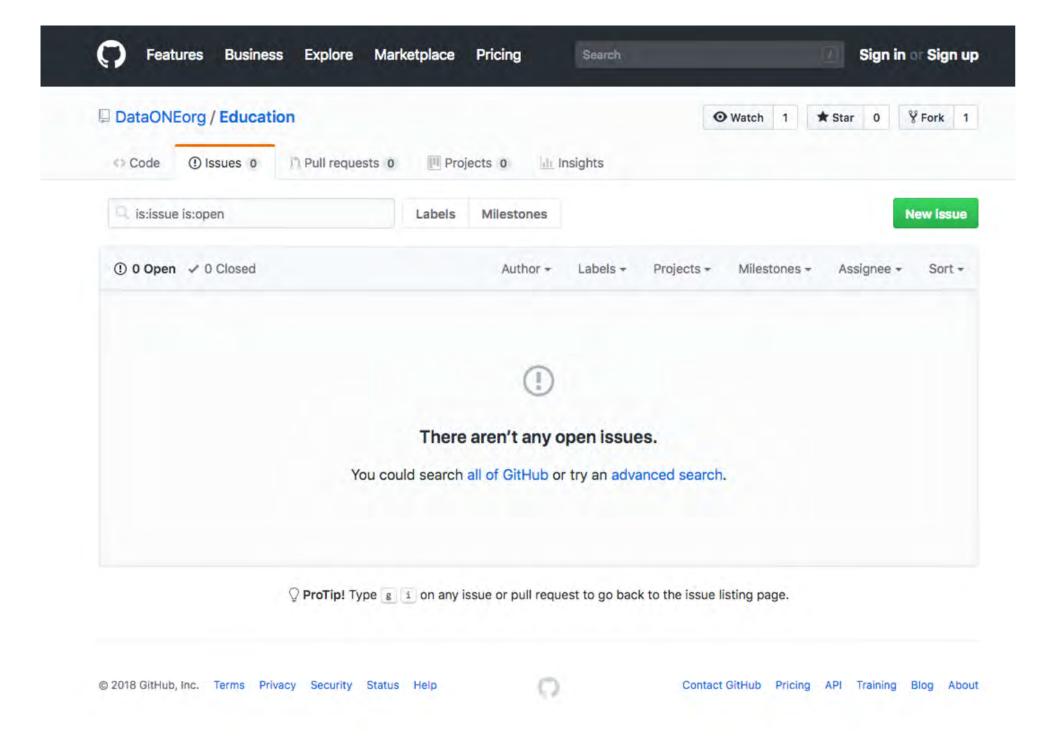
- 1. Create a fork of the lessons or best practices repository into your github account, depending on which content you wish to edit.
- 2. Modify the files that you want to change (See "Structure" below for tips on making changes).
- Submit a pull-request against the master branch of this repository.
- Your changes will be reviewed by the repository admins.

Page not rendering?

Check that the title field of the YAML header (the first line of each lesson) is in quotes.

Suggest changes to content

- 1. Open an Issue on this repository.
- 2. Provide your suggested changes with as much detail and guidance as possible. Be specific.
- 3. Your suggestions will be reviewed by the repository admins.
- 4. Changes will be pushed to the repository by the repository admins regularly/as needed.





Home Contribute FAQ GitHub

Guidelines for contributors and content editors

This document details our recommended processes to update current content, suggest changes to content, and fork content for your own use, as well as an introduction to how the content is organized and the tools we use to display content.

This repository was developed by the DataONE Community Engagement and Outreach Working Group and continues to be maintained by members of this team. Thank you for your interest in contributing to these educational materials.

Update current content

Want to update a link or method? See a spelling error? Changes can be easily proposed by opening the GitHub Education page and editing content directly. For help, try this brief GitHub tutorial on forking and editing content.

Edit content

- 1. Create a fork of the lessons or best practices repository into your github account, depending on which content you wish to edit.
- 2. Modify the files that you want to change (See "Structure" below for tips on making changes).
- 3. Submit a pull-request against the master branch of this repository.
- Your changes will be reviewed by the repository admins.

Page not rendering?

Check that the title field of the YAML header (the first line of each lesson) is in quotes.

Suggest changes to content

- 1. Open an Issue on this repository.
- 2. Provide your suggested changes with as much detail and guidance as possible. Be specific.
- Your suggestions will be reviewed by the repository admins.
- Changes will be pushed to the repository by the repository admins regularly/as needed.

Fork content for your own use

Fork and edit content through GitHub, rather than editing privately, to enable others to use your edited content and to track how these materials are used.

- 1. Create a fork of the lessons or best practices repository into your github account
- 2. Modify the files that you want to change (See "Structure" below for tips on making changes)



Contribute FAQ **GitHub**

Edit or fork content for your own use

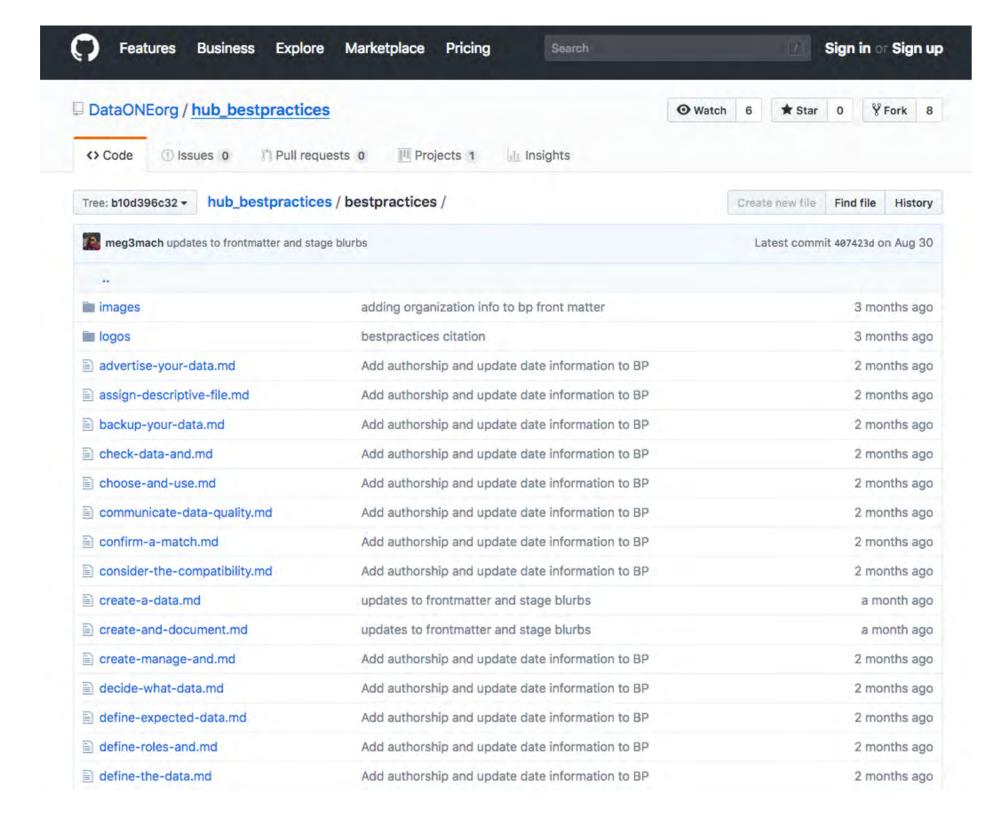
Select one of the buttons below to open the appropriate GitHub repository:

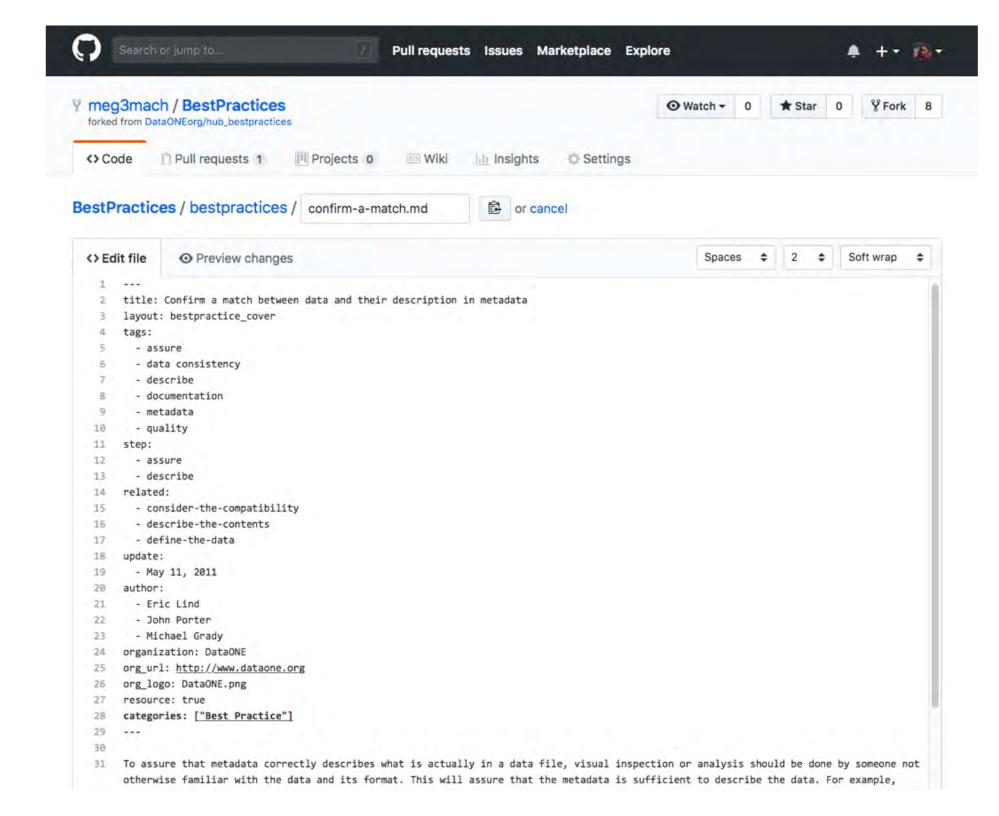
Teaching Module Best Practice

Hosted by DataONE

In collaboration with the community, DataONE has developed high quality resources for helping educators and librarians with training in data management, including teaching materials, webinars and a database of best-practices to improve methods for data sharing and management.

1 If you have a question or concern, please open an Issue in this repository on GitHub.





- Structure: Data life-cycle stage
- Current holdings: Education modules and best practices
- Citation: Credit where credit is due
- Editing content (forking!)
- Creating new content (in the works)
- Future holdings



- Structure: Data life-cycle stage
- Current holdings: Education modules and best practices
- Citation: Credit where credit is due
- Editing content (forking!)
- Creating new content (in the works)
- Future holdings



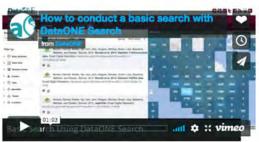
- Structure: Data life-cycle stage
- Current holdings: Education modules and best practices
- Citation: Credit where credit is due
- Editing content (forking!)
- Creating new content (in the works)
- Future holdings

Upcoming Webinar:



Tutorials:

Conducting a Basic Search



DataONE Search: Basic Search from DataONE on Vimeo.



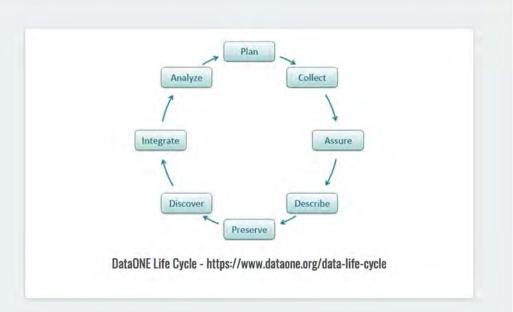
Welcome to the DMT Clearinghouse

The Data Management Training (DMT) Clearinghouse is a registry for online learning resources focusing on research data management.

It was created in a collaboration between the U.S. Geological Survey's Community for Data Integration, the Earth Sciences Information Partnership (ESIP), and DataONE.

For questions or feedback, please contact clearinghouseEd@esipfed.org

Read More



Find learning resources by keyword, name, date, license and cost DataONE Search





Data Management Training (DMT) Clearinghouse:

A Convenient and Curated Source for Finding Educational Resources on Research Data Management

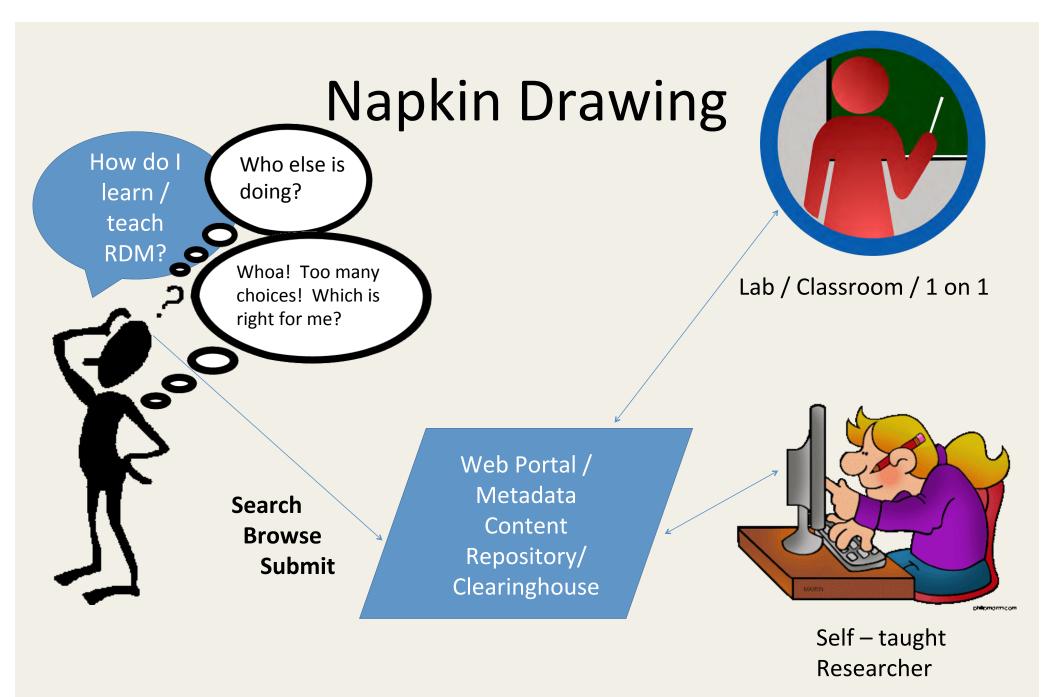
DataONE Webinar
October 9, 2018
Nancy J. Hoebelheinrich



Research Data Management Training – Sometimes you or your research team need it,

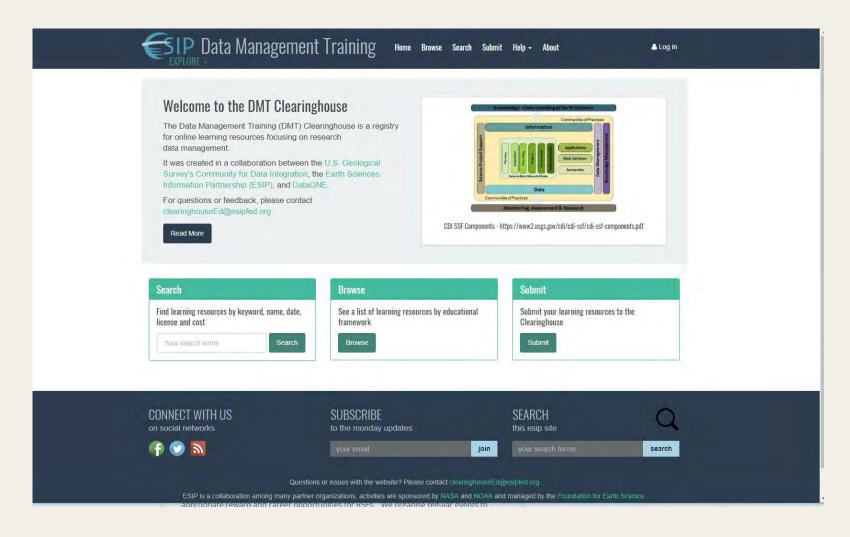
- Why is training needed?
 - Motivators:
 - Funders require
 - Publishers are beginning to require
 - For scientific reproducibility
 - For data re-use by colleagues
 & collaborators
 - Community culture beginning to expect open data
 - Others...?

where to find training resources?



Excerpted from the SGCI BootCamp "Pitch Deck"

Introducing the ESIP-hosted Data Management Training Clearinghouse!



http://dmtclearinghouse.esipfed.org/

What is the Data Management Training (DMT) Clearinghouse??

What?

- Metadata registry for educational resources on research data management
- Capabilities include:
 - Search
 - Browse
 - Submit
- Collaboratively developed & maintained

What kind of training resources?

- Short courses ala "Kahn Academy" (7 – 15 min. modules)
- Videos
- Learning activities to supplement courses
- Presentations & webinars
- Data "recipes"
- Syllabi & curricula

http://dmtclearinghouse.esipfed.org/

Why use the DMT Clearinghouse??

Answers to these Researcher questions:

- -- What kind of resources are available on RDM & where did they come from?
- -- Do they pertain to my subject domain?
- -- Do they fit the data management framework of my organization?
- -- Are they appropriate for my role on my research team?
- -- What do they cost?

Answers to these Data Specialist questions:

- -- I've been asked to provide some training to a research team on RDM. What have others done that I can adapt?
- -- Where can I find practical, subject-domain targeted exercises for my generic tutorials on RDM?
- -- Colleagues keep asking me for the training resources that I've created. Where can I share them easily?

Where, how is the DMT Clearinghouse maintained??

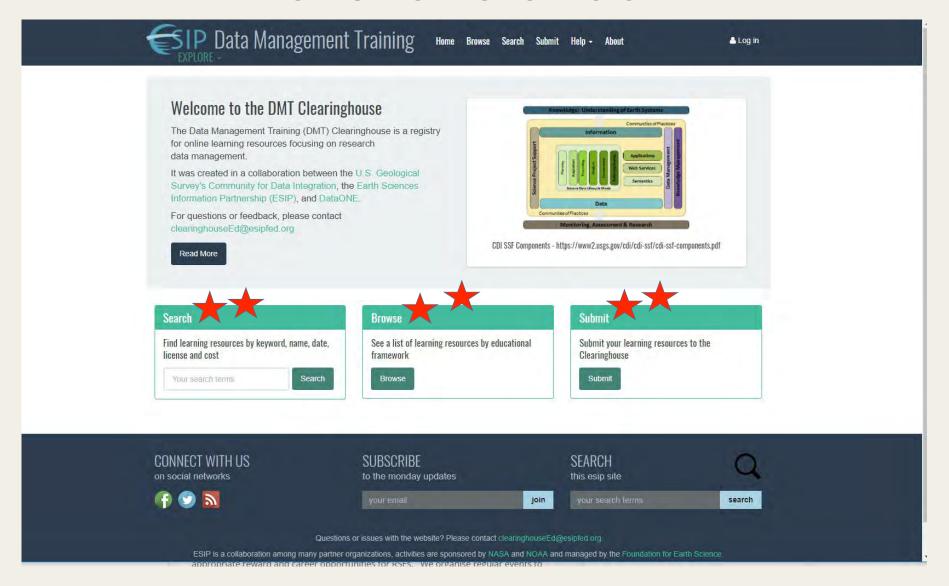
Currently, hosted & maintained

- On & by the ESIP Federation Commons – a Drupal based content management system
- Don't need to register for Search / Browse / Suggest a Resource to add
- Do not need an ESIP Acct to "submit" a resource, unless planning to create full description

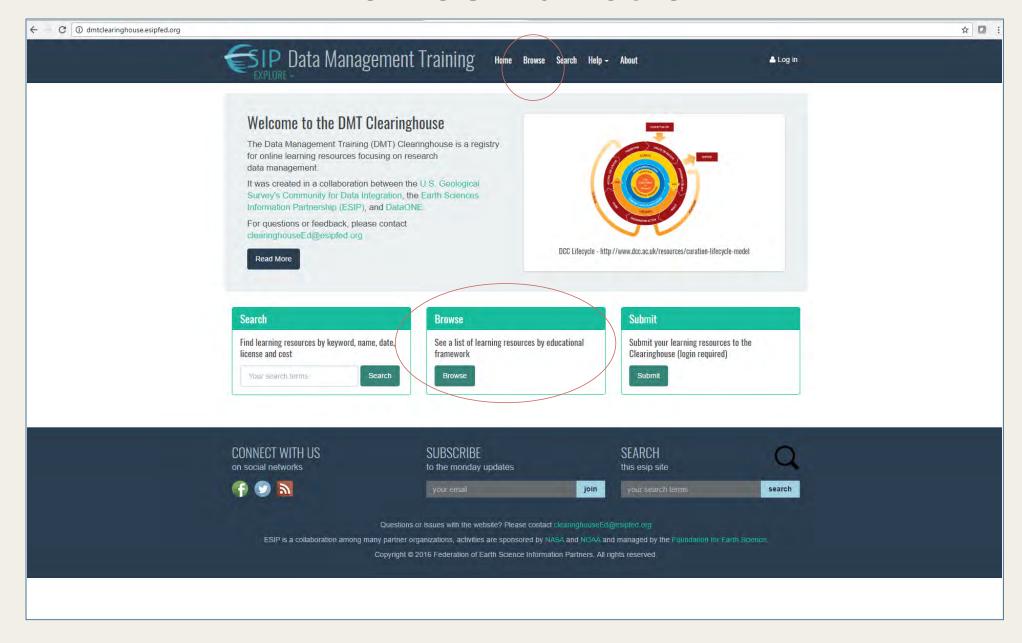
Sustainability Plan

- Crowd-sourced submissions
- Domain-knowledgeable reviewers & editors to maintain quality & currency of resources
- Always seeking user interface & functionality feedback
- After initial seed \$\$, have been funded by IMLS for 3 year National Leadership Grant
- Exploring options for longer term Sustainability from NSF

Let's take a look!



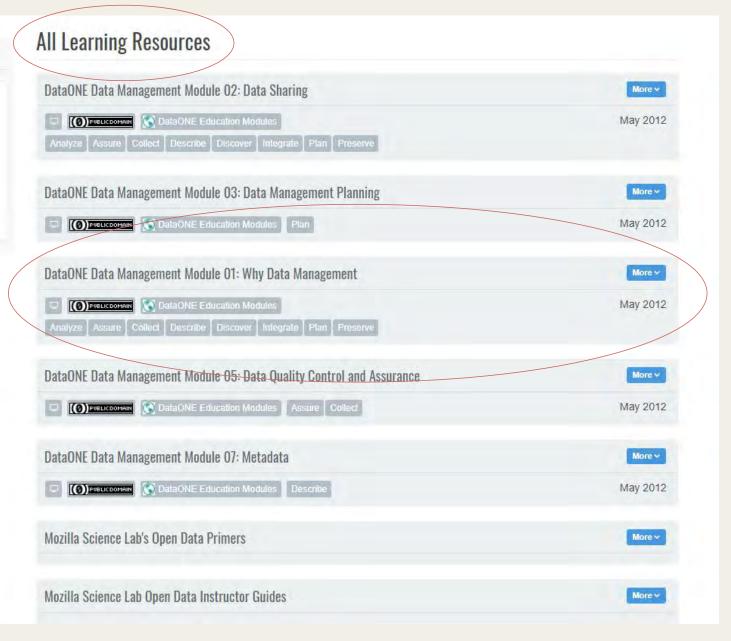
http://dmtclearinghouse.esipfed.org/



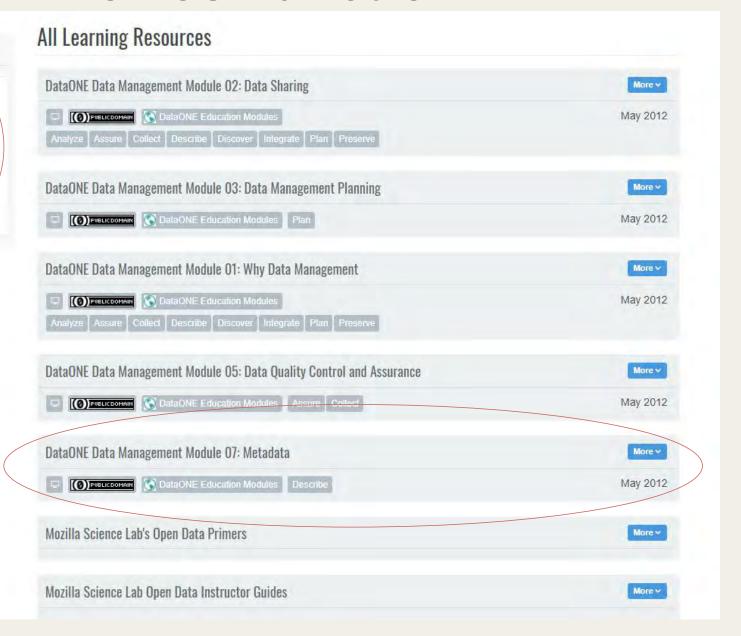
Browse

Framework

DataONE Education Modules
ESIP Data Management for
Scientists Short Course
ICSU - World Data System
Training Resources Guide
The Digital Preservation Network
USGS Science Support
Framework



Framework DataONE Education Modules ESIP Data Management for Scientists Short Course ICSU - World Data System Training Resources Guide The Digital Preservation Network USGS Science Support Framework



What is an educational framework?

- An [educational] framework is a plan or set of steps that defines or collects the content using clear, definable standards about what the student should know and understand.
- For purposes of the DMT Clearinghouse, a given learning resource may be associated with a community-defined standard for data management.

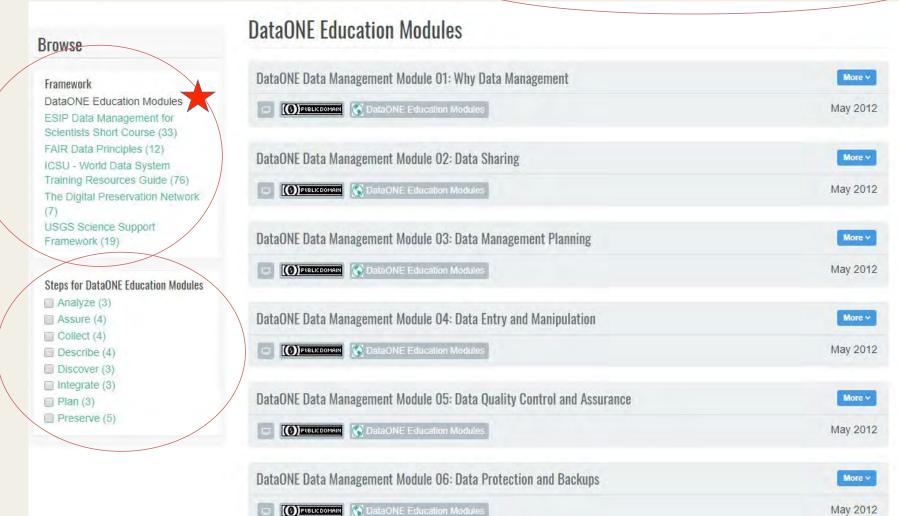
 For example, the DataONE framework represents the DataONE's "Data Life Cycle".



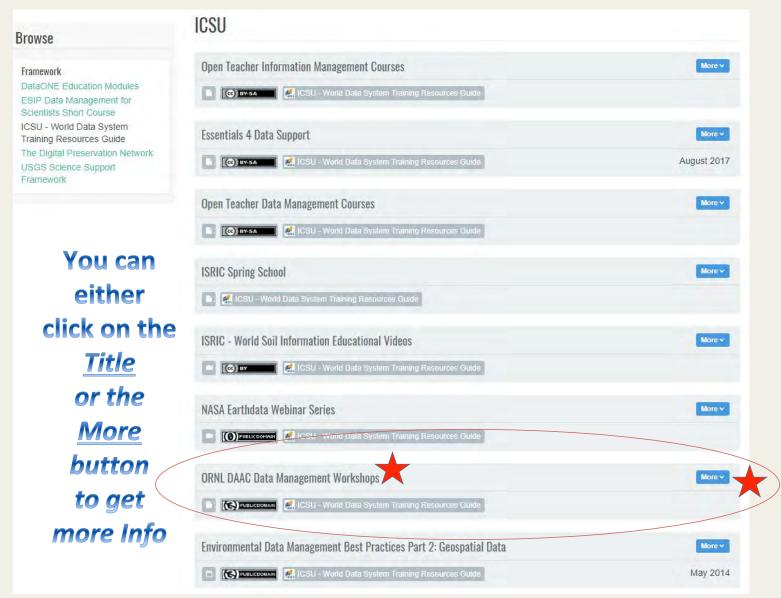
https://www.dataone.org/data-life-cycle

The DataONE data life cycle was developed ...in collaboration with the broader DataONE community ... [and] serves as an underlying framework for the development of tools, services and education materials by DataONE.

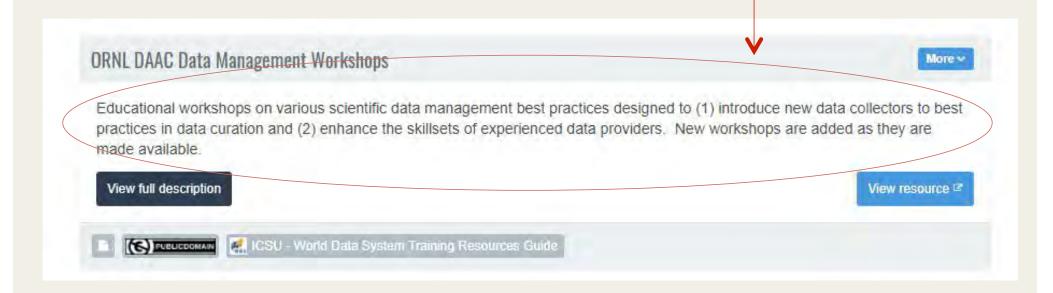
From ~250 'published' resources -> ~10



Browse Function -- you found one that looks useful! What next?



Browse Function -- you found one that looks useful from the brief description! What next?



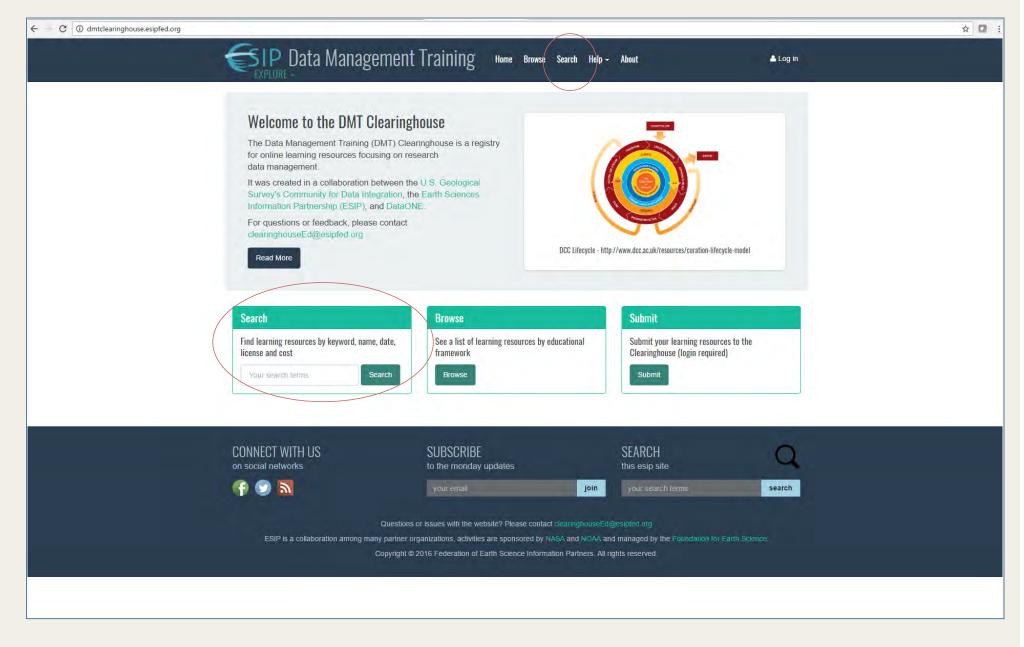
Browse Function -- you want to see more about this one! What next?

You can either ...

Click on the *View full description* to look at the full metadata ... or the *View resource* button to go directly to the "landing page" of the resource.



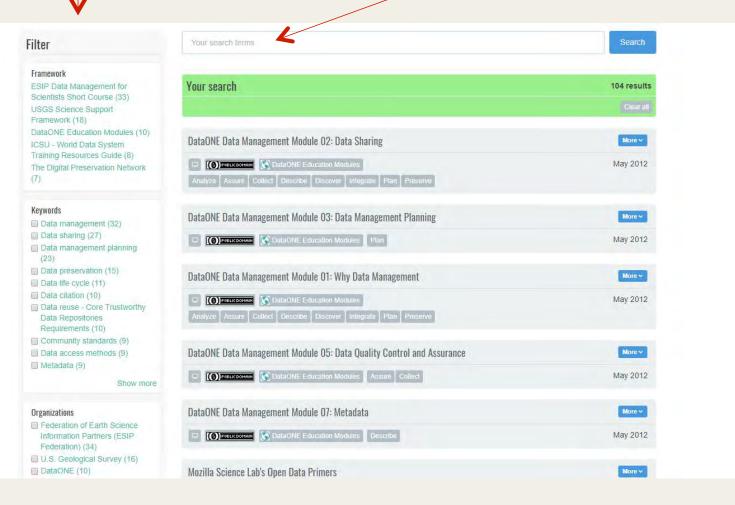
Search Function



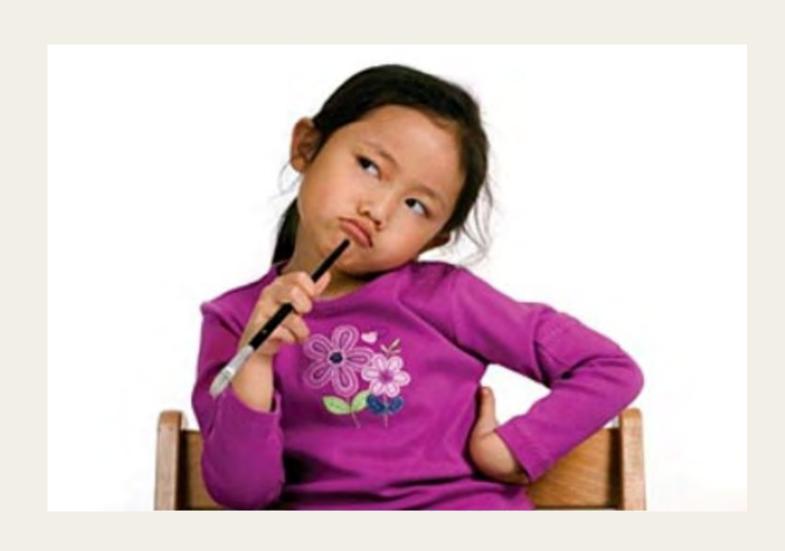
Search Function: 3 approaches

you filter
by
pre-set
categories
("filters")

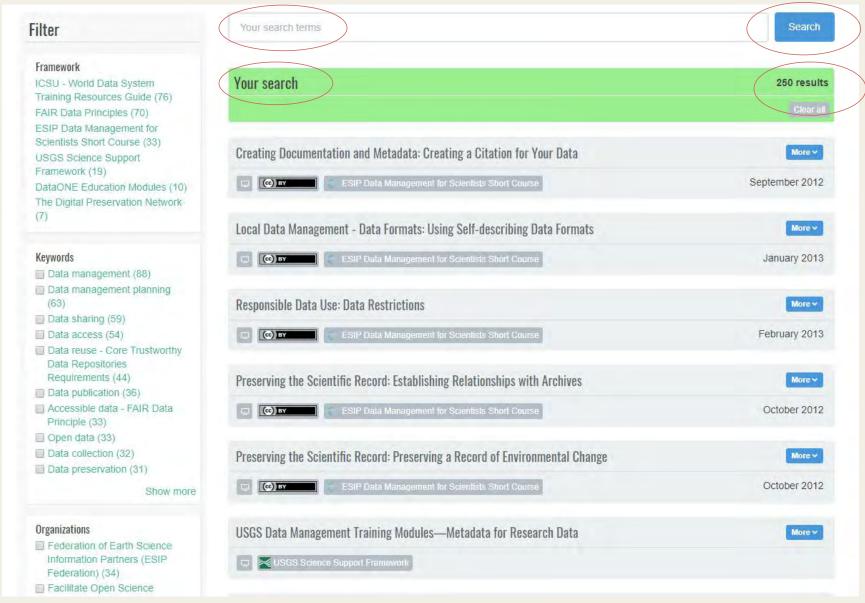
You enter your own search terms



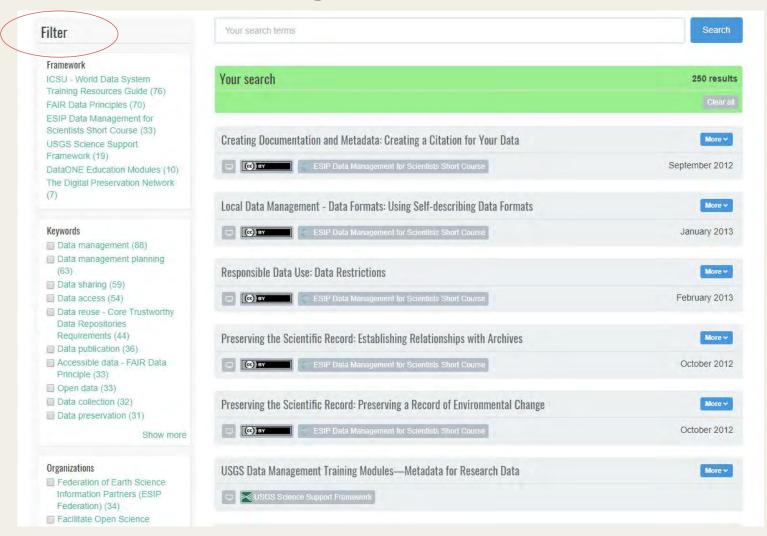
Search Function: Approach 3: Combining Approach 1 & Approach 2 ...



Search Function: Approach 1 = You search using your own terms



Search Function: Approach 2 = You start by checking boxes within the preset categories ("filters")



Built-in Search Filters

Filter Framework ESIP Data Management for Scientists Short Course (33) USGS Science Support Framework (18) DataONE Education Modules (10) ICSU - World Data System Training Resources Guide (8) The Digital Preservation Network Keywords Data management (32) Data sharing (27) Data management planning Data preservation (15) Data life cycle (11) Data citation (10) Data reuse - Core Trustworthy Data Repositories Requirements (10) Community standards (9) Data access methods (9) Metadata (9) Show more **Organizations** Federation of Earth Science Information Partners (ESIP Federation) (34) U.S. Geological Survey (16) DataONE (10)



License Creative Commons Attribution 3.0 United States - CC BY 3.0 US (35) Creative Commons 0 - CC0 "No Rights Reserved" (Public Domain) (31) Creative Commons Attribution 4.0 International - CC BY 4.0 (15)Creative Commons Attribution-NonCommercial 4.0 International - CC BY-NC 4.0 (5) Creative Commons 1.0 Universal (Public Domain Dedication) (3) Creative Commons Attribution-ShareAlike 4.0 International License - CC BY-SA 4.0 (3) Creative Commons Attribution 3.0 Unported - CC BY 3.0 (1) Cost No fee (101) Fee (3)

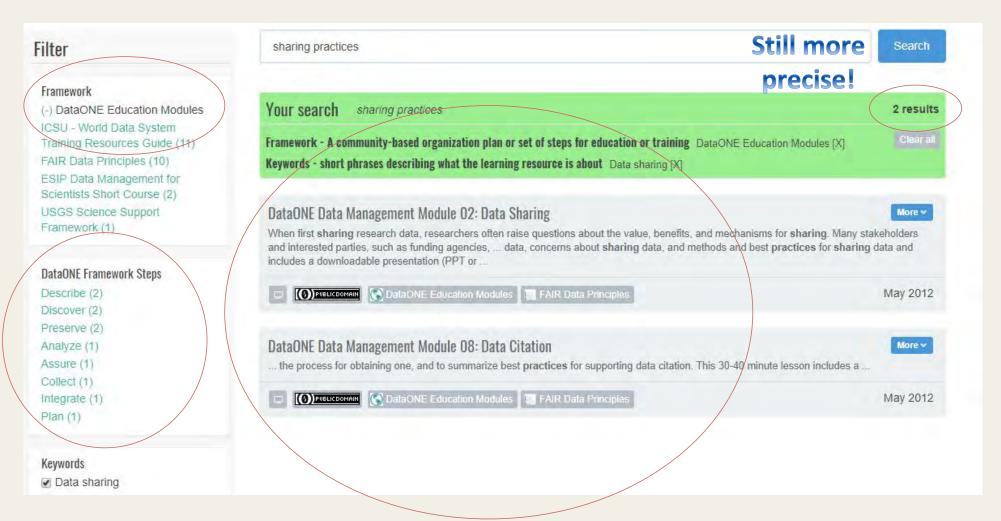
Demonstrating Approach 3: Start by entering your own search term...



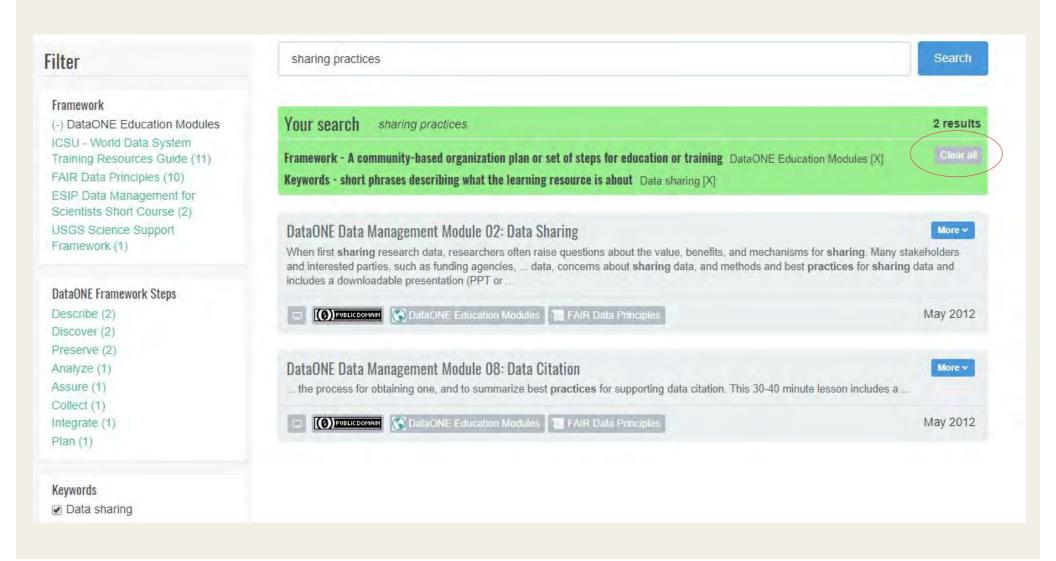
... then limiting by Keyword filter...



Demonstrating Search: finally, limiting even more by the Framework filter...



Demonstrating Search: however, if too precise, you can either *Clear all* to start over ... or uncheck filters / facets



Full Description – 1 of 2

ORNL DAAC Data Management Workshops

Key Info

URL - the landing page for the learning resource:

http://daac.ornl.gov/workshops/workshops.shtml

Description - a brief synopsis, abstract or summary of what the learning resource is about:

Educational workshops on various scientific data management best practices designed to (1) introduce new data collectors to best practices in data curation and (2) enhance the skillsets of experienced data providers. New workshops are added as they are made available.

Authoring Organization(s) Name:

NASA ORNL DAAC (Oak Ridge National Laboratory Distributed Active Archive Center)

License - link to legal statement specifying the copyright status of the learning resource:

Creative Commons 1.0 Universal (Public Domain Dedication)

Access Cost:

No fee

Primary language(s) in which the learning resource was originally published or made available:

English

More info about

Keywords - short phrases describing what the learning resource is about:

Appraisal - Core Trustworthy Data Repositories Requirements

Data discovery and identification - Core Trustworthy Data Repositories Requirements

Data integrity and authenticity - Core Trustworthy Data Repositories Requirements

Data quality - Core Trustworthy Data Repositories Requirements

Data reuse - Core Trustworthy Data Repositories Requirements

Expert guidance - Core Trustworthy Data Repositories Requirements

Preservation plan - Core Trustworthy Data Repositories Requirements

Full Description – 2 of 2

Subject Discipline - subject domain(s) toward which the learning resource is targeted:

Engineering: Aerospace Engineering

Physical Sciences and Mathematics: Earth Sciences

Physical Sciences and Mathematics: Environmental Sciences

Publisher - organization credited with publishing or broadcasting the learning resource:

NASA ORNL DAAC (Oak Ridge National Laboratory Distributed Active Archive Center)

Media Type - designation of the form in which the content of the learning resource is represented, e.g., moving image:

Collection - a group or set of items that comprise a single learning resource, e.g., a PDF version of a slide presentation, an audio file of the presentation and a textual representation of the oral transcription of the presentation.

Contributor Organization(s):

Name

ICSU - World Data System (WDS)

Type:

Endorser

Contact Organization(s):

NASA ORNL DAAC (Oak Ridge National Laboratory Distributed Active Archive Center)

Educational Info

Purpose - primary educational reason for which the learning resource was created:

Professional Development - increasing knowledge and capabilities related to managing the data produced, used or re-used, curated and/or archived.

Learning Resource Type - category of the learning resource from the point of view of a professional educator:

Lesson - detailed description of an element of instruction in a course, contained in a unit of one or more lessons, and used by a teacher to guide class instruction.

Target Audience - intended audience for which the learning resource was created:

Data supporter

Early-career Research Scientist

Research Scientist

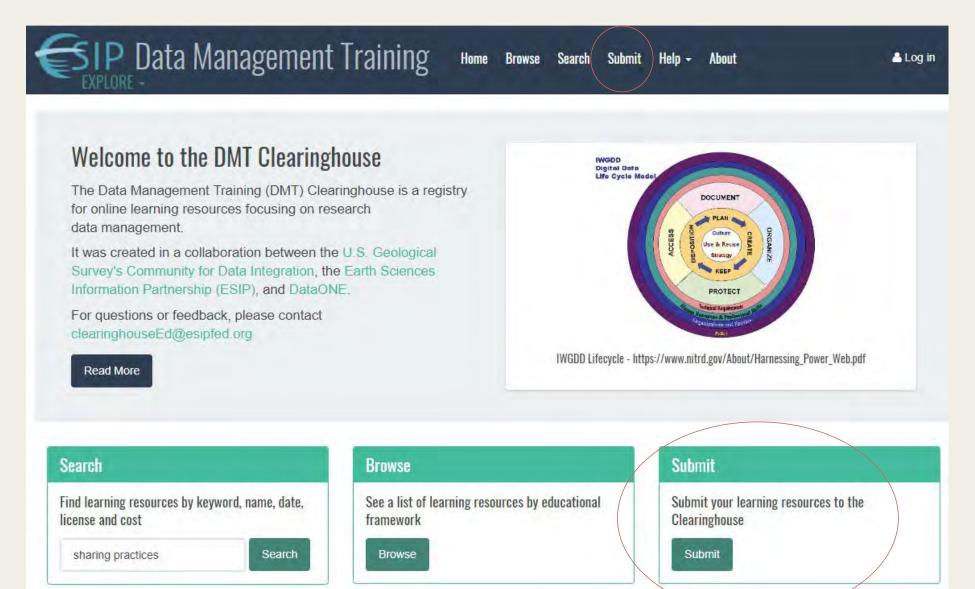
Intended time to complete - approximate amount of time the average student will take to complete the learning resource:

More than 1 hour (but less than 1 day)

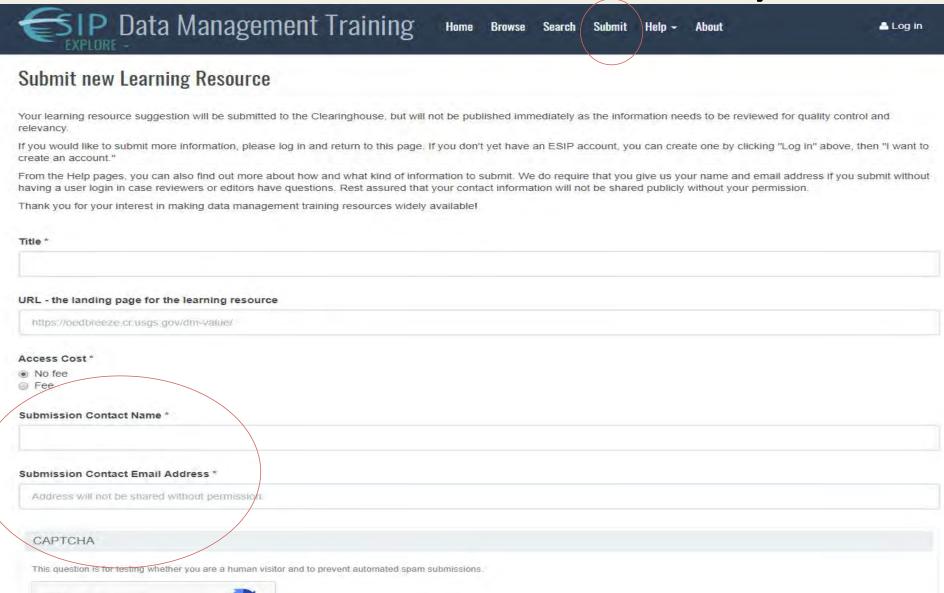
Framework - A community-based organization plan or set of steps for education or training:

ICSU - World Data System Training Resources Guide

Submit Function, briefly



Submit Function, briefly

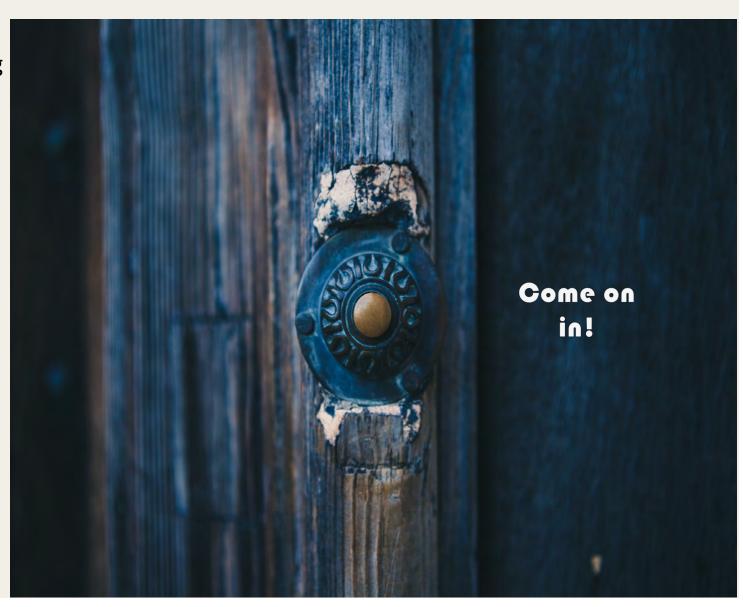


I'm not a robot

reCAPTCHA

As a community supported resource we'd love to have you to join us by...

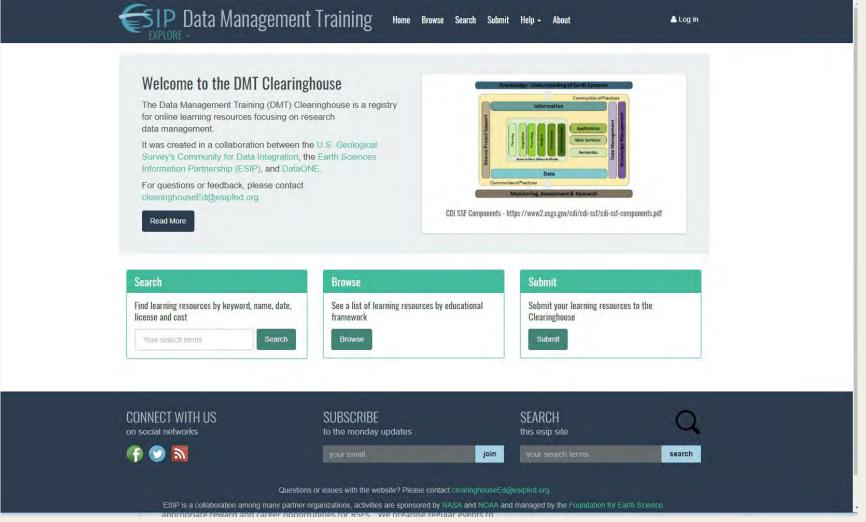
- Submitting your learning resources
- Joining our Working Groups on
 - Assessment Framework
 - Metadata Enhancement
 - Content Diversification
- > Editorial assistance
- Usability testing
- Spreading the word
- Jumping in on our crowdsourcing events



Join us!

Join the ESIP Research Data Management Cluster at: esip dmtraining@lists.esipfed.org Contact:

Nancy Hoebelheinrich (nhoebel@kmotifs.com) or clearinghouseEd@esipfed.org



http://dmtclearinghouse.esipfed.org/

- One off lessons
- Host/store here
- Indexed at DMT Clearinghouse

http://dataoneorg.github.io/Education

DMT Clearinghouse

- Index here
- Metadata
- This is a registry

http://dmtclearinghouse.esipfed.org



Please take some time and come ask us questions at the help desk

Megan Mach <u>mach@unm.edu</u>
Nancy Hoebelheinrich <u>nhoebel@kmotifs.com</u>
Amber Budden aebudden@dataone.unm.edu



DataONE Webinar Series

www.dataone.org/webinars

Upcoming Webinar Event

www.dataone.org/upcoming-webinar

Previous Webinar Events (Recording and
Discussion)

www.dataone.org/previous-webinars





Upcoming Webinar Event www.dataone.org/upcoming-webinar

Schema.org: Improving access to data through a standardized language

November 13, 2018

Bryce Mecum, Scientific Software Engineer, National Center for Ecological Analysis and Syntheis (NCEAS)

Doug Fils, Data Management Technical Expert, Consortium for Ocean Leadership (COL)



