## Data Help Desk

Get Answers to Your Data Management Questions: Workshops, Demos and More ...



Booth 219-223 http://bit.ly/DHDESA19 #datahelpdesk

# Data Management Skillbuilding Hub

dataoneorg.github.io/Education/





#### **Data Management Skillbuilding Hub**



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:

ALL

TEACHING MODULE

BEST PRACTICE

VIDEO

» Filter by stage of the Data Life Cycle All













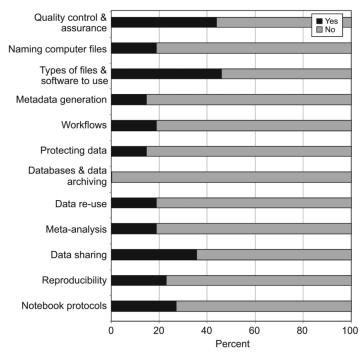






## Status of Data Management Education

#### Survey of Ecology Courses



Percent of ecology courses that address and/or teach the data management topics listed

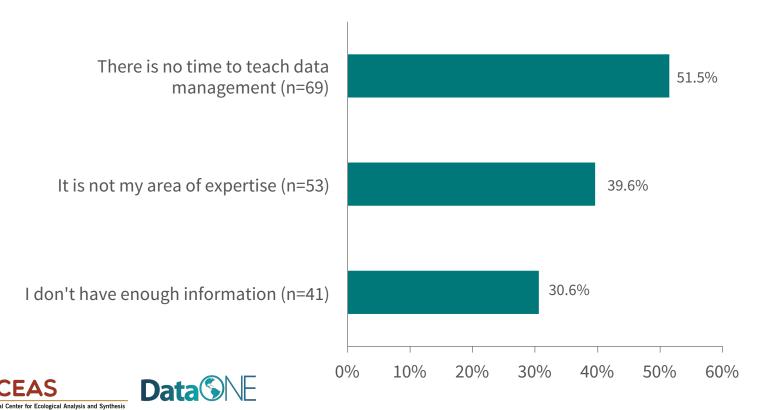
Strasser and Hampton 2012





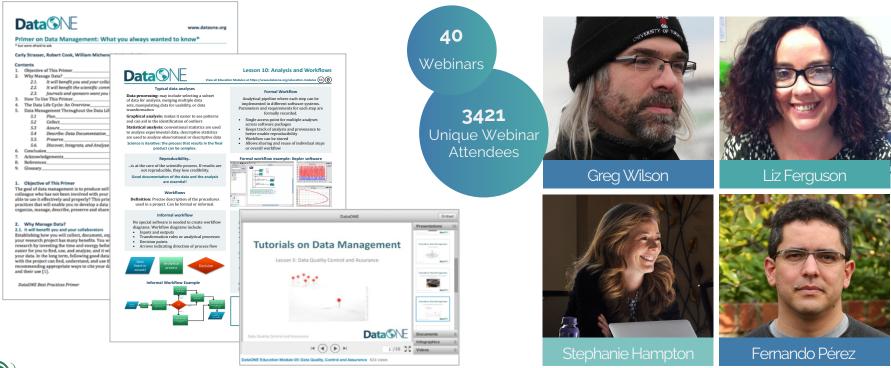
## Challenges in Data Management Training

#### Survey of Educators



## **Training**

#### Leadership in Data Management Education







## Training

## Training Events















"Thanking my lucky stars for aDataONEorg education modules this week! Data entry exercise adapted nicely for online participation."

"Thank you! I love these materials."

"@DataONEorg website has great education resources on managing data w/ best practices."

"Great collection of free education material on data management by @DataONEorg."

"Thanks @DataONEorg for making these education modules available CCO!"

"Awesome presentations about data management. The Metadata module is great!! I like them. Thanks

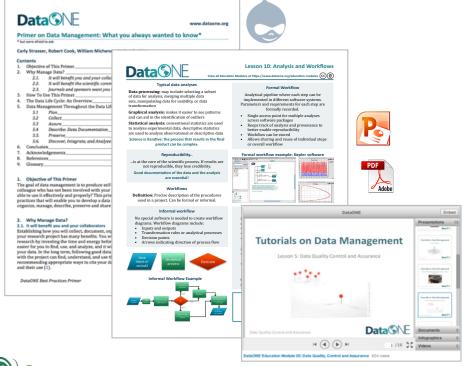
@DataONEorg"

## **Community Perspectives**



#### **Education Materials**

#### The Evolution of Resources



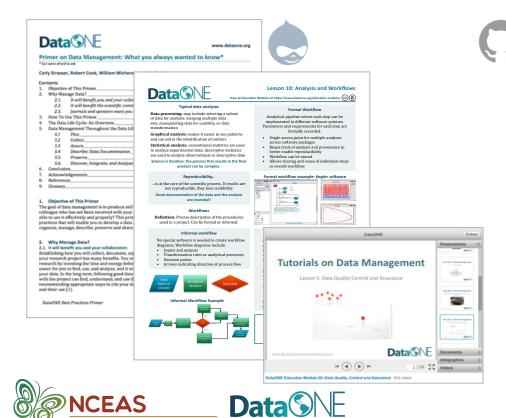




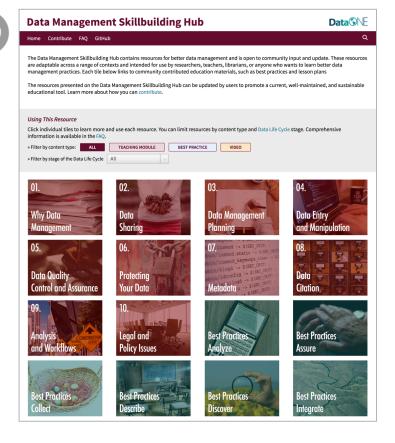


#### **Education Materials**

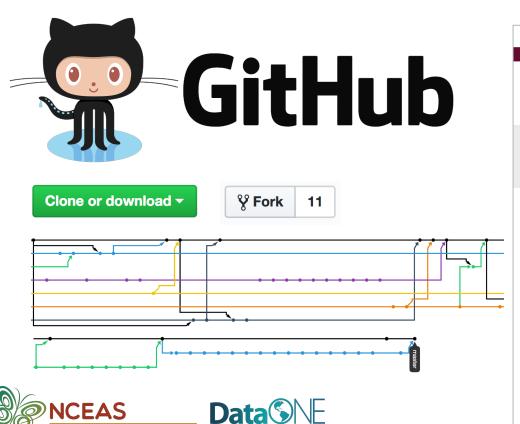
#### The Evolution of Resources

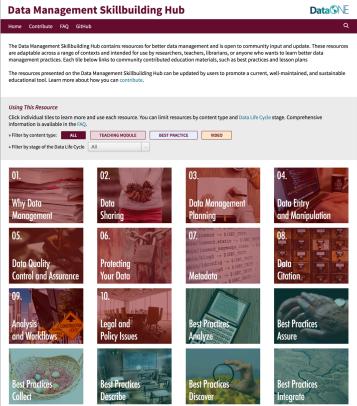


National Center for Ecological Analysis and Synthesis



## Open Community Platform





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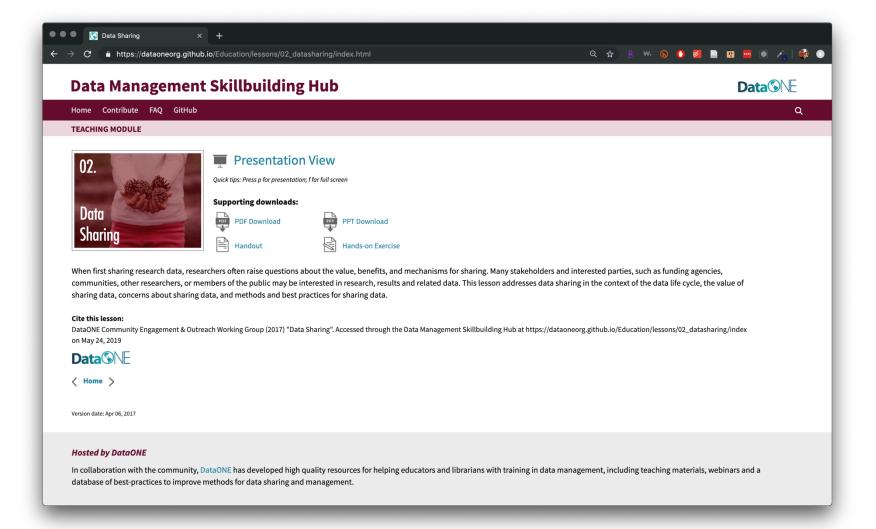


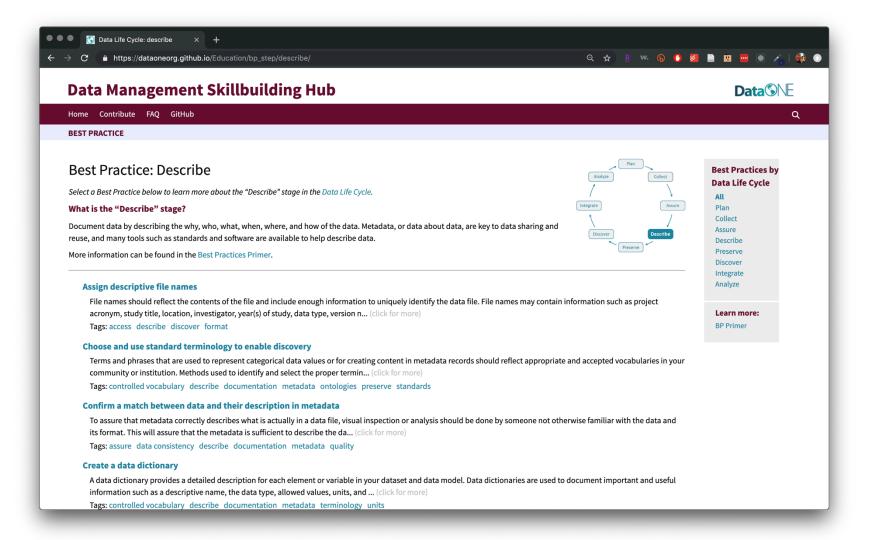


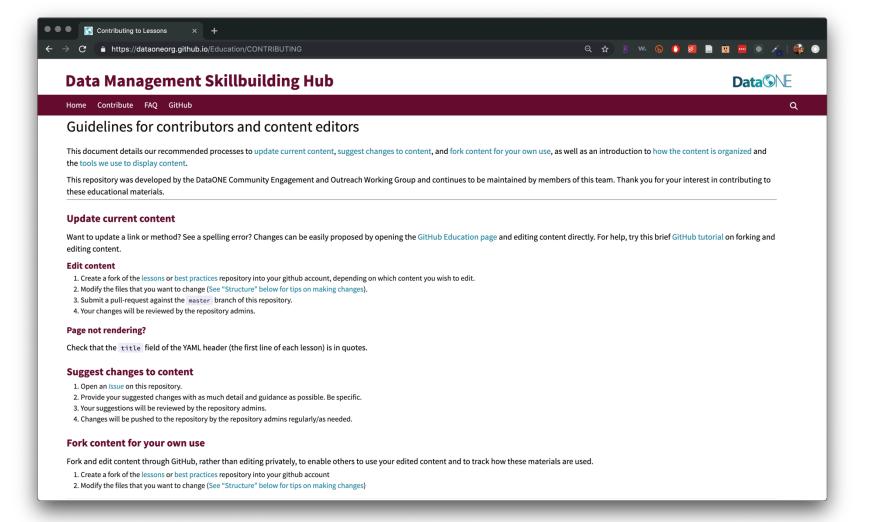


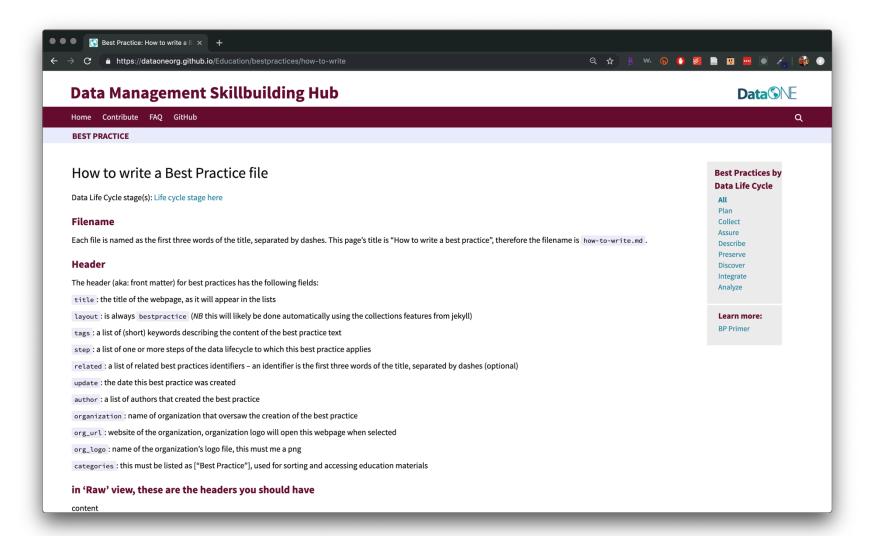


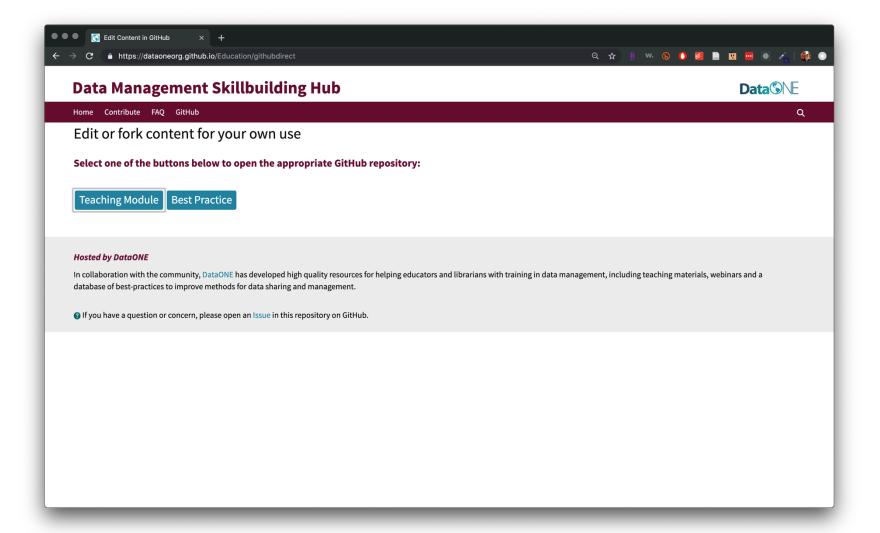












## dataoneorg.github.io/Education/







## NCEAS.UCSB.EDU/LEARNING-HUB/SHORT-COURSE

#### **Curriculum at a Glance**

#### **Enable data reuse through better data management**

Metadata - how to write a quality data description
Data modeling - tidy data for efficient access and storage
Data publishing, citation and credit

#### **Build reproducible scientific workflows**

Data munging with R tidyverse
Working collaboratively - git and GitHub
Writing functions in R
Building packages for publishing repoducible research

#### Communicate results effectively

Literate analysis with RMarkdown
Publishing analytical web pages with GitHub pages
Data visualization with ggplot and leaflet

#### **Details**

#### **Dates:**

November 4-8, 2019 February, 2020 TBD May, 2020 TBD

#### Cost:

\$2,100

Includes: 5 days of instruction, coffee, light snacks and lunch.

Does not include: travel, lodging costs, breakfast or dinner.

#### Location:

NCEAS, 735 State St. Suite #300 Santa Barbara, CA