# Collaborative Outreach and Education for Research Data Management and Use

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Upper Midwest Digital Collections Conference August 19, 2014



#### **Broadening the Bridge: A Collaboration Grant**

\$1.4 million Mellon grant to support innovative collaboration between Carleton and St. Olaf Colleges



Image courtesy of the Theater Department, St. Olaf College

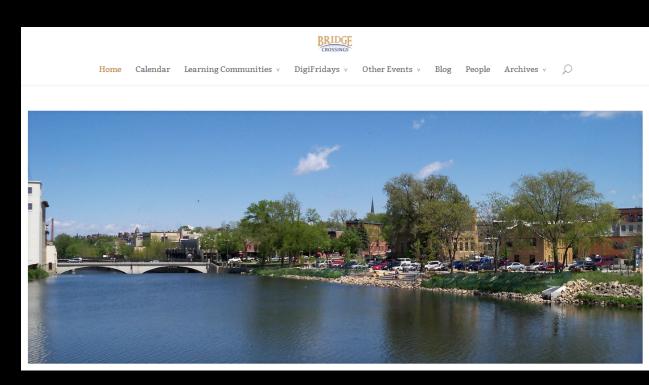
## **Broadening the Bridge: IT/Library Programs**

#### **Learning Communities**

Digital Research & Teaching across the Curriculum

Community of Practice aka DigiFriday!

Teaching & Technology Showcases



## Creating a Culture of Data Management



"window to a secret place" by Grant MacDonald via Flickr, under CC BY-NC-2.0



"Monarch Butterfly Life Cycle" by hspauldi via Flickr, under CC BY-SA 2.0

#### **Creating a Culture of Data Management**

# **Strategies**

Counter the perception that "data management doesn't apply to me."

Establish information management as an essential personal, professional, and scholarly skill set.

Start with practices for everyday situations that can then be "scaled up" to research projects and systemic workflows.

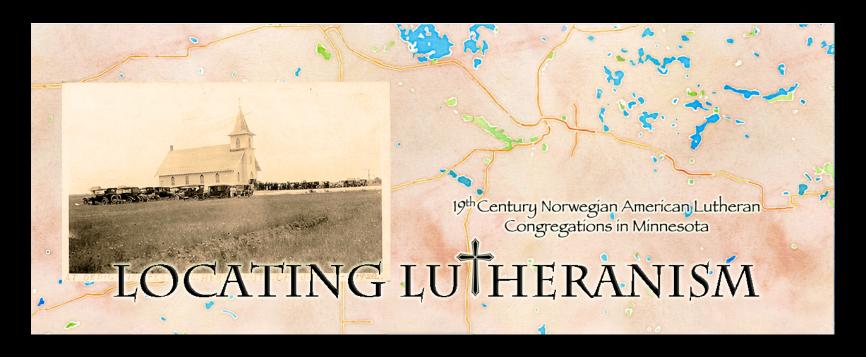
#### **Creating a Culture of Data Management**

## **Tactics**

Integrate data literacy and data management education into our information literacy curriculum.

Provide R&I librarians with the tools to teach their students and faculty basic data management concepts.

Balance the systematic with the serendipitous.



http://pages.stolaf.edu/locluth

#### Black Hammer norsk evangelisk lutherske menighet.

Spring Grove (5 mil nord), Houston Co., Minn. Norske synode, 1858-.

Organisert 1ste januar 1858. 380 sjæle i 1883, 512 i 1914. Prester: F. C. Clausen, 1859-70; St. S. Reque, 1871-95; R. Larsen, 1876-78; E. P. Jensen, 1880-05; G. C. Jensen, 1904-05; K. A. Kasberg, 1905-12; H. H. Frost, 1912-. Embedsmænd i 1915: b. H. K. Ike; c. P. C. Onstad; e. Gunder Treangen, L. E. Veum, Joe Hermanson. Kvindefor., 1885. Ungdomsfor., 1895. Sangfor. Kirke 1, 1868. Kirke 2, 1898, \$4.400. Prestehus. Gravplads, 2 acres, \$500. Presteløn: \$335 (1914).—H. H. Frost. (834—1548)

#### **Congregation Data (Phase 1)**

Congregation name

Location

Founding date

Event dates (split, divided, ceased, reorganized)

Synodical affiliations

Page number

**Image** 

#### O.M. Norlie, Norske lutherske menigheter i Amerika, 1843-1916

Black Hammer norsk evangelisk lutherske menighet. Spring Grove (5 mil nord), Houston Co., Minn. Norske synode, 1858-. Root River prækeplads. Spring Grove (10 mil nord), Houston Co., Minn. Utenom (Ns), 1866(?)-69(?), Utenom (Ns), 1866(?)-69(?). Begyndt 1866(?). Sluttet 1869(?). Prest: F. C. Claussen, 1866-69. (7032-1549) Brownsville prækeplads. Union Township prækeplads (Union). Spring Grove (18 mil sst), Houston Co., Minn. Norske synode, 1871(?)-78(?). Begyndt 1871(?). Sluttet 1878(?). Prest: St. S. Reque, 1871-78.—M. H. (5480-1551) Looney Valley norsk evangelisk lutherske menighet. Looney Valley norsk evangelisk futherstee memplet.

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Olt Lee; h. Gunder Tranen; c. Gunder Tranen; c. Christopher Erikson, Martin Jetnundsen, Peder Osagard, Halprim Rauk, 1 1915; b. N. S. Hatstennud; c. Nils H. Wiger; c. Ole G. Haugen, Narve Larson, Enos Krogstad; f. N. L. Halstennud K. Windeloru, 1880. Umgdomsfor. Kirke, 1877, \$2,500. Prestelbus, 1880. Gravplads, 4 lotter, \$40. Land, 67 acres, \$3,000. Prestelbus, 100 (1878), \$235 (1944).—H. H. Front. (835—1534)

#### Caledonia menighet.

Caledonia, Houston Co., Minn.
Norske synode, 1877–88(?).
Organiseri 1877. Oplyst 1908(?). 60 sjæle i 1902, 90 i 1908. Prester:
St. S. Reque, 1877–68; E. P. Jensen, 1880–82. Embedsmand i 1908: b. E. K.
Roverud—M. C. H. (5481–1555)

#### Hokah prækeplads.

Hokah, Houston Co., Minn. Norske synode, 1877-78. Begyndt 1877. Sluttet 1878. Prester: R. Larsen, 1877-78; St. S. Reque, 1877-78-M. C. H. (5483-1556)

#### Hokah menighet

Hokalı, Houston Co., Minn. Konferentsen, 1870-80. Organisert 1878. Oplost 1890. 24 sjæle i 1878, 21 i 1879. Prest: J. A. Bergh, 1878-80.—M. C. H. (5485—1557)





#### The Emmanuel Norwegian Evangelical Lutheran Church

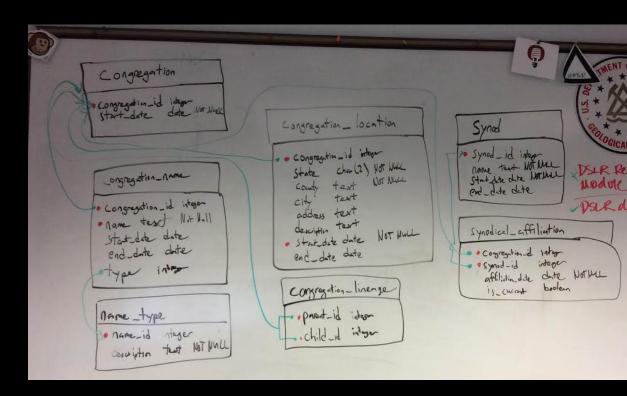
Utenom (Ns), 1893-07; Norske synode,

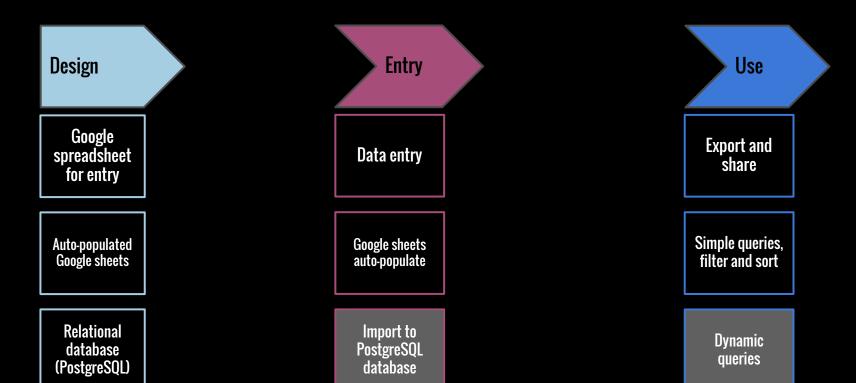
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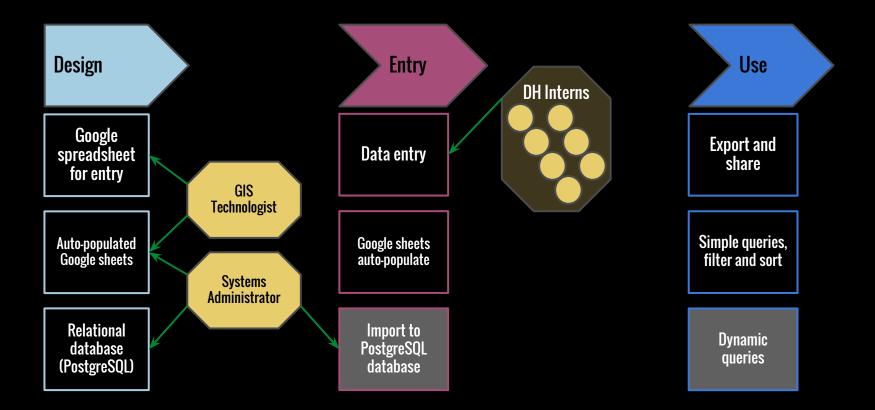
# MINNESOTA CONGREGATIONS

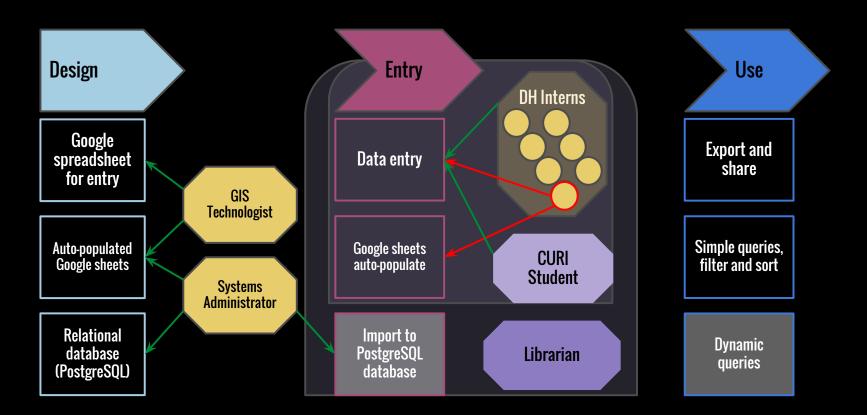
1,536 congregation entries

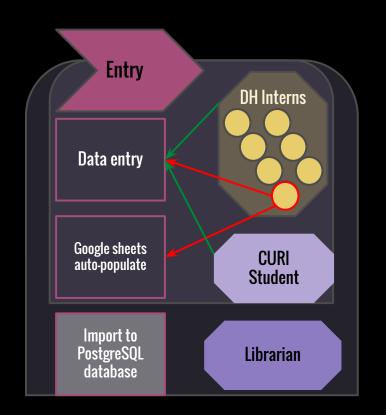
348 images

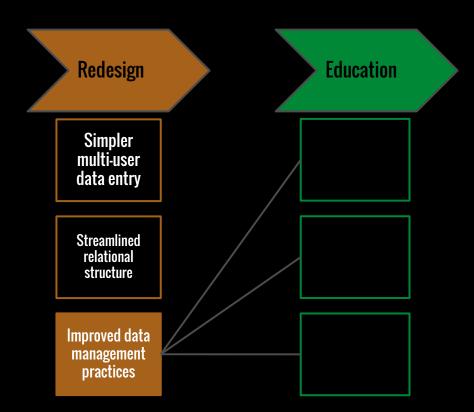












## Case Study: Digital Humanities Students

#### **FIVE** Formatting and **Organizing Data**

Data form the basis of, and are the result of, empirical research. Research data exist n many different forms: textual data, numerical data, databases, geospatial data, mages, audio-visual recordings, and data generated by machines or instruments. All digital data exist in specific file formats; the form in which information is

> information about formatting, fonts, nage size, etc. Microsoft Word . Text plus formatting, . Only runs on

> > page size, fonts and

complex encoding

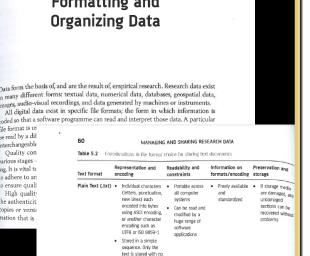
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Document

(.pdf)

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applications have been written that

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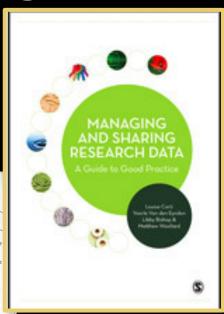
· No guarantee that

Microsoft will.

always ensure

of the software can open documents stored in older versions

fidelity



Category	Basic/Intro Questions	Advanced/Later Questions
Description	Which of your works/What kinds of works would you like to include a repository?	What formats is your work/content in? What is its size?
Storage/Preservation	Where is your work/ content currently stored? What happens if you lose it?	Does your work/content require preservation as opposed to storage?
Sharing/Accessibility	Would you like to see your work/ content shared with the campuses, with the world, or not shared at all?	Have you ever considered making your work/ content openly accessible? Would your contracts with publishers allow you to do this?
Organization / Discoverability (Metadata)	Do you have descriptions of your work/content?	Has your work/content been abstracted, indexed, or given subject headings by a publisher, content aggregator, or cataloging service? What format is that information in?
Intellectual Property	Do you have permission to contribute your work/content? If not, does your use of someone else's work/content constitute fair use?	Do your publishing contracts allow you to self- archive your work/content in an educational, non-commercial digital repository? Do you have agreements with collaborators on or contributors to your work/content that may prevent you from including that work/content in a repository?
Linked data		Is it important that your work/content link to other resources, both within and outside the repository?

Advanced/Later Overtions

#### **Case study: Digital Humanities Students**

Students identified a number of challenges for DM in DH.

"Content growing"

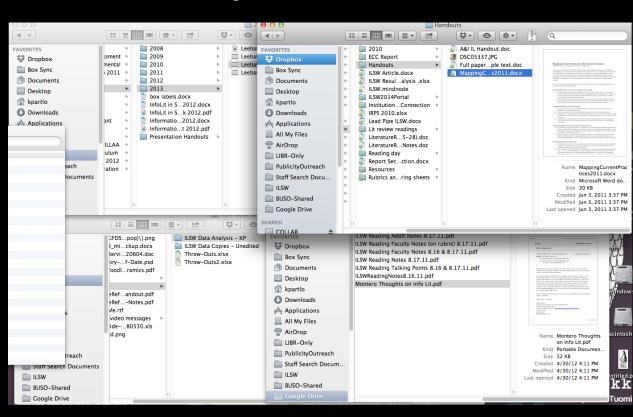
How are pilots and experimental projects categorized?

**Multiple storage locations** 

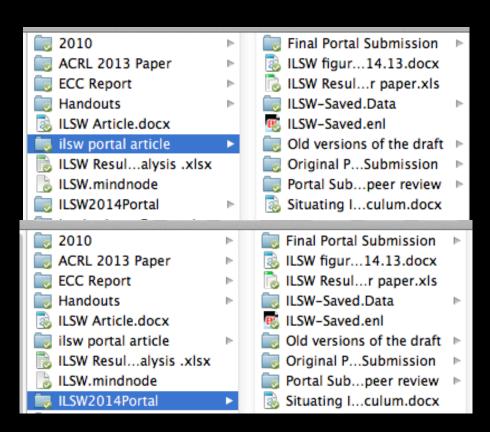
How to handle files used and/or contributed by students in courses?



"Happy Sixth Birthday" Flickr User <u>Aris Sánchez</u> CC BY-NC-SA 2.0



# Dropbox Shared Network Drive Google Docs Local Files



# **Good Intentions**

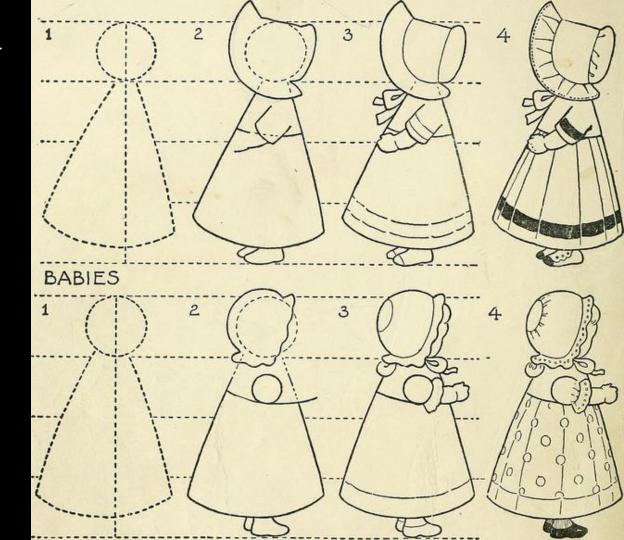
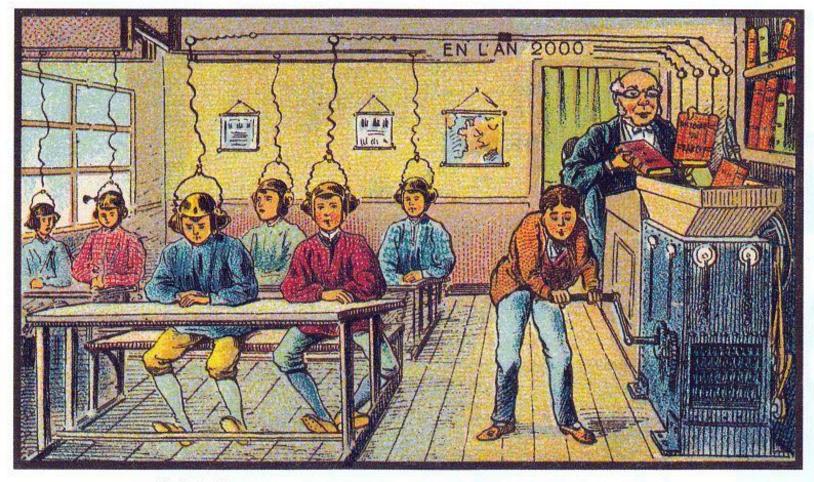


Image from page 70 of "Drawing made easy: a helpful book for young artists; the way to begin and finish your sketches, clearly shown step by step" (1921), via <u>Internet Archive</u>.



At School



# **Next Steps**

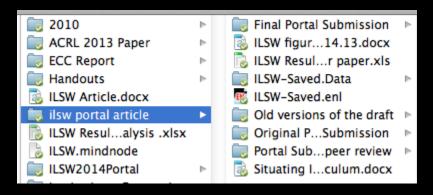
Data management teaching modules for research & instruction librarians

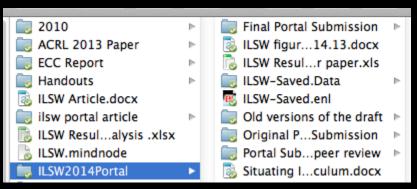
Collaborative training for DH Associates/Interns to recognize data management issues

Data repository, with its own educational resources on data sharing, open data licensing, and so forth

"Branch of a pomegranate tree with blue morpho butterfly (Morpho menelaus) and larva of banded sphinx (Eumorpha fasciata)" via Getty Open Content Images.

## **Teaching Modules**





Sets of at-the-ready examples, visuals, and prompts for the instruction librarians and others who work directly with faculty to illustrate basic, generalizable data management principles.

Applicable across disciplines and constituencies.

#### Collaboration

Doing together what you could never do alone.

