Prepping for Your Digital Research Project

Sasha Renninger,
Digital Humanities Specialist, Museum Library
sashafr@upenn.edu
http://guides.library.upenn.edu/digital-research-methods
The Digital Scholarship Team

Scott Enderle
Digital Humanities Specialist

Laurie Allen
Assistant Director for Digital Scholarship

Margaret Janz
Scholarly Comm. & Data Curation Librarian

Sarah Wipperman
Scholarly Comm. & Digital Repository Librarian

Girmay Misgna
Mapping & Geospatial Data Librarian

Sasha Renninger
Digital Humanities Specialist

Kenny Whitebloom
Digital Scholarly Publishing Librarian
What We Do

- Mapping Data -
- Digital Exhibits -
- Publishing Research -
- Community Archives -
What We Do

- Computational Text Analysis -
- Data Curation -
- Finding Pictures of Bears -
So how can our team help you?
Collaborate on Research Projects

2. Visit Office Hours: Fridays 2-4pm, Van Pelt 124
3. Schedule an appointment!

Sasha Renninger,
DH Specialist, Museum Library
sashafr@upenn.edu

Scott Enderle,
DH Specialist, Van Pelt Library
enderlej@upenn.edu
Collaborate with us through the Price Lab!

- Starting a new research project, paper, or publication?
  - Schedule a consult with us to learn about how we can apply tools and techniques commonly used in engineering, business and the hard sciences to your work!

- Already working on a project?
  - Schedule a consult to discuss ways we can help with publication, analysis, visualization, discovery, sustainability and more!

- Check out some of our past projects online, in Office Hours, or at one of our annual events (Digital Project Showcase & Digital Research Fair - both in Sept)
Get DH Support for Teaching and Research

1. Visit our Guide
2. Visit Office Hours: Fridays 2-4pm, Van Pelt 124
3. Schedule an appointment!
4. Check out our Digital Research Workshop Series

Sasha Renninger, DH Specialist, Museum Library
sashafr@upenn.edu

Scott Enderle, DH Specialist, Van Pelt Library
enderlej@upenn.edu
Looking to enrich your syllabus? Check out our

Digital Research In-Course Workshop Menu

On-Demand Customized Workshops tailored to your class
including: Mapping, Digital Exhibits, Text Analysis, and more!

Go to

https://guides.library.upenn.edu/digital-projects-and-methods
Omeka

What Can I Do With Omeka?

- Build a Digital Exhibit
  - Enhance a physical exhibit
- Collaborate to Tell the Story of a Collection
  - Add an Omeka project to a course
  - Use as an alternative to a final paper
- Create a Digital Archive
- Crowdsource Your Research
- Design Mobile Tours
- Build a Map Narrative

How Do I Get It?

- Email ahnberg@upenn.edu to schedule a consultation for setting up a free Omeka site, hosted by the Penn Libraries

Training & Help

- Guide: https://guides.library.upenn.edu/omeka
- Course Integrated Workshops
- Open Library Workshops
- One-on-One Consultation
- Digital Humanities Office Hours (Fri 2-4pm, Weigle)
Omeka Examples

Simple Exhibits

Mapped Narratives

Course Projects

Digital Archives

Mobile Tours

Crowdsourcing
Omeka Examples

Simple Exhibits

Mapped Narratives

Digital Archives

Mobile Tours

Course Projects

Crowdsourcing

Bonus! Enhance Your Publication!!!
Scalar

What Can I Do With Scalar?

- Author a Digital Research Paper
- Start an Online Journal
- Collaborate to Develop a Multi-Linear, Interactive Narrative
  - Embed narrative web elements like StoryMapJS, TimelineJS, Youtube, Sketchfab, and Oral History Metadata Synchronizer
- Supplement a Thesis or Dissertation

How Do I Get It?

- Email ahnberg@upenn.edu to schedule a consultation for setting up a free Scalar site, hosted by the Penn Libraries

Training & Help

- Guide: https://guides.library.upenn.edu/scalar
- Course Integrated Workshops
- Coming Soon! - Public Library Workshops
- One-on-One Consultation
- Digital Humanities Office Hours (Fri 2-4pm, Weigle)
Scalar Examples

Online Journals

Course Projects

Supplement to a Thesis or Dissertation
Tools for Mapping Narratives

TimelineJS
StoryMapJS
StoryMap by Esri
Neatline
Library Resources for Text Analysis

Scott Enderle
Digital Humanities Specialist
enderlej@upenn.edu

● Text Mining Guide: https://guides.library.upenn.edu/penntdm
● Dirt Directory: http://dirtdirectory.org/
AntConc

What Can I Do With AntConc?

- Look at Keywords in Context
- Identify Distinctive Words
- Explore Co-occurrence Patterns
  - Some words appear together more frequently than others
  - Different words will appear together in different documents
- Find Passages for More Careful Reading

How Do I Get It?

- Download the software from [http://www.laurenceanthony.net/software/antconc/](http://www.laurenceanthony.net/software/antconc/)
- The Perseus Project provides a large collection of text archives for analysis.

Training & Help

- Course Integrated Workshops
- Coming Soon! - Public Library Workshops
- One-on-One Consultation
- Digital Humanities Office Hours (Fri 2-4pm, Weigle)
AntConc Demo

Data and links for the demo are here:

https://gist.github.com/senderle/14de1023be177fa1bed4c7e030b8a41e
Topic Modeling Tool

What Can I Do With the Topic Modeling Tool?

- Identify Broad Patterns in Vocabulary Usage
- Examine Correlations Between Topics and Existing Metadata
  - Requires you to collect metadata about authors, publication dates, and so on.
  - Topics will often rise and fall in popularity over time, or be discussed more or less frequently in different regions.

How Do I Get It?

- Follow the Quickstart Guide at https://senderle.github.io/topic-modeling-tool/documentation/2017/01/06/quickstart.html

Training & Help

- Course Integrated Workshops
- Coming Soon! - Public Library Workshops
- One-on-One Consultation
- Digital Humanities Office Hours (Fri 2-4pm, Weigle)
Topic Modeling Tool Demo

Quickstart guide:

https://senderle.github.io/topic-modeling-tool/documentation/2017/01/06/quickstart.html
Library Resources for Mapping

Girmay Misgna
Mapping and Spatial Data Librarian
gmisgna@upenn.edu

- Mapping and GIS Guide: https://guides.library.upenn.edu/mapping
- Spatial Data Guide: http://guides.library.upenn.edu/data
- Dirt Directory: http://dirtdirectory.org/
Analysis

Example: Multiple geometry data collected from an archaeological survey, which you would like to use to determine where to conduct next season’s fieldwork

- Extremely powerful software suite with extensive analysis packages
- Windows-Only desktop software
- Difficulty: Complex
- Available on all Library Desktop Windows PCs

- Shares most of the same package library functionality with ArcGIS
- Works on Windows, Mac, Linux, and Android
- Difficulty: Complex
- Free to download

- Fewer analysis capabilities compared with ArcGIS & QGIS, but growing everyday
- Web-based
- Great for collaboration
- Allows a limited amount of interactive capabilities
- Not free anymore :( 

ArcGIS

CARTO

QGIS
Example: Creating a map that shows ancient trade routes, with find spots of several sunken vessels, including some historical maps and historical coastlines. Your find spot data is in Excel.

- Designed for building your own custom base maps
- Free Limited Account option
- Browser Based

- Allows you to georectify images of old maps onto basemaps
- Free
- Browser Based

- Allows you to import base maps
- Can easily upload .csv data
- Browser based
Mapping Narratives

Example: You have a very large text of a traveler exploring Ottoman Turkey and would like to tell the traveler’s story using maps.

- Requires an Omeka installation
- Allows for custom design of interactive maps tied to items
- Difficulty: Moderate
- Library supported
- Allows very quick and easy, attractive map narratives
- Free
- Browser Based
- Embeddable
- Easy way to create an attractive exhibit with existing Esri maps
- Free Limited Account
- Browser based
Library Resources for Data

Data Curation Librarian
Margaret Janz
mjanz@upenn.edu

- Data Management Guide: http://guides.library.upenn.edu/data-management
- Spatial Data/ArcGIS Guide: https://guides.library.upenn.edu/data
- Dirt Directory: http://dirtdirectory.org/
Library Resources for Data

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mjanz@upenn.edu

- Writing a High Quality Data Management Plan
- File Management
- Creating and Using Spreadsheets or CSV Files
- Document Your Data Using Codebooks, ReadMe Files, and Data Dictionaries
- Security & Privacy
- Data Sharing
- Storing and Backing-up Data
- Archiving data for the long haul
Library
Resources for Scholarly Communication

Scholarly Communications & Digital Repository Librarian
Sarah Wipperman
swipp@upenn.edu

Digital Scholarly Publishing Librarian
Kenny Whitebloom
kenwhi@upenn.edu

- Open Access & Publishing Guide: http://guides.library.upenn.edu/oa-publishing
- Scholarly Commons Guide: https://guides.library.upenn.edu/scholarlycommons
- Scholarly Commons: https://repository.upenn.edu/
Scholarly Communication Resources

Faculty Uploads
All Penn faculty, including non-tenured and emeritus professors, can have their publications reviewed for copyright permissions and uploaded to ScholarlyCommons. Learn more.

Journal Publishing
ScholarlyCommons supports open access journal publishing, including peer-review, customized front-end designs, and archiving. Learn more.

Conferences and Events
With ScholarlyCommons, you can capture the valuable output from your past or upcoming conferences, symposiums, or other events. Learn more.

Digital Projects
We assist departments, centers, classes, individual faculty members, staff, and other Penn-related groups in setting up collections for a wide-range of digital materials. Learn more.
Scholarly Commons

- Permanently store your published and unpublished research in a free and open repository
- Track access to your uploaded materials
- Share a wide variety of file types, including images, videos, 3D models, and static data sets

http://repository.upenn.edu/
Open Access & Publishing

- Deposit Materials in Scholarly Commons
- Open Access
- Open Access Publication Fund

http://repository.upenn.edu/
Choosing Your Infrastructure...
Selecting Your Software

1. Choosing Your Infrastructure...

Open Source v. Proprietary
Selecting Your Software

Who Owns Your Data?

1. Choosing Your Infrastructure...
Selecting Your Software

1. Choosing Your Infrastructure...

How is it supported?
Selecting Your Software

1. Choosing Your Infrastructure...

Is it actively being developed?

How is it supported?

Does Penn Libraries support it?

Are there Tutorials/Training?

Is there a Community of Support?
Selecting Your Software

How can you get your work out of the Application?

1. Choosing Your Infrastructure...
Selecting Your Software

1. Choosing Your Infrastructure...

API - Application Programming Interface
Connecting One Application to Another!
Selecting Your Software

Is Minimal Computing a Factor?

1. Choosing Your Infrastructure...
Selecting Your Software

What Are the Trends In Your Field?

1. Choosing Your Infrastructure...
Choose Your Method of Engagement

1. Choosing Your Infrastructure...

- Do It Yourself
- Join a Learning Group
- Bring in a Partner
Library Resources for Selecting Software

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sashafr@upenn.edu
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- Visit our Guide: http://guides.library.upenn.edu/digital-research-methods
- Schedule an Appointment! http://libcal.library.upenn.edu/appointments
- DH Office Hours - Fridays, 2-4pm, Van Pelt 124
digital humanities
OFFICE HOURS
2:00PM-4:00PM
WIC SEMINAR ROOM, 1ST FLOOR
ARE YOU CURIOUS ABOUT WHAT DH COULD MEAN FOR YOUR WORK?
ARE YOU A STUDENT WITH A QUESTION ABOUT A DIGITAL CLASS ASSIGNMENT?
ARE YOU INTERESTED IN LEARNING ABOUT & EMPLOYING NEW RESEARCH TOOLS?
DO YOU HAVE AN IDEA FOR A DH PROJECT, BUT DON'T KNOW WHERE TO START?
STOP BY AND LET DH SPECIALISTS HELP YOU GET STARTED!
*Open to Penn students, faculty, and staff
Thank You!

Sasha Renninger
sashafr@upenn.edu
215-898-9331

http://guides.library.upenn.edu/digital-projects-and-methods

Come visit me at the Museum Library!

https://xkcd.com/365/