Intro to Digital Scholarship
Arc of a Digital Project

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http://guides.library.upenn.edu/digital-research-methods
The Arc of a Digital Project??

Planning

Collection & Analysis

Sharing & Publication
The Arc of a Digital Project

Cycle

Collection & Analysis

Planning

Sharing & Publication
1. Planning a Digital Project
Have a Plan
Document your Expectations

1. Purpose
2. Scope
3. Partners
4. Deliverables
5. Timeline for Completion
6. Funding
7. Launch Plan
8. Ownership
9. Afterlife

- For large, complex projects, write a Memorandum of Understanding or Project Charter
  - For examples, check out https://t.co/zqoLEc7RQe
  - Look at what your funder requires
  - Consider a data management plan: http://guides.library.upenn.edu/data-management

- For smaller projects, consider free project management tools
  - Trello
  - Asana (freeish)
  - Basecamp (free with a .edu email)
  - Slack
  - Google Drive
Find the Right Software for You!

1. Visit our Guide: guides.library.upenn.edu/digital-research-methods
2. Research the trends in your field
3. Schedule an appointment!
What to Consider when Evaluating Software...

- What kinds of User Stories is this application really designed to serve?
- Is it Open Source or Proprietary?
- How is it supported?
  - Is it actively being developed?
- How can you get your work out of the application?
- Is the data separable from the interface?
- What kind of tutorials/trainings are available?
- How customizable is it? Is that important?
- Does it have a good Community of Support?
- Is Minimal Computing a factor?
- Does the Penn Libraries offer support?
User Stories

> Describe who & what (but not how!)
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Open Source vs. Proprietary
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Minimal Computing

What do you really need?
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Choose your Method of Engagement

Do It Yourself

Join a Learning Group

Bring in a Partner
2. Collection & Analysis
Document Everything You Do

Why Do I Care?!

- Outcomes of a digital research project are **multimodal**
- Documentation makes your digital research **reproducible**
- Give back to the scholarly community by allowing the **reuse** of your research
- **Funder Are Catching On!**
Document Everything You Do

How Do I Document Everything?!

- Investigate the standards in your field
- Create a Code Book, include:
  - File Naming Conventions
  - File Structures
  - File Formats
  - Where everything will be stored
     - Remember 3, 2, 1!
  - Security & Back-Up
  - Methodology of Research Collection & Analysis
  - Controlled Vocabularies (use linked data if you can!)
- Consider versioning software!
Communicate with Your Team

Tools:

- Trello
- Asana (freeish)
- Basecamp (free with a .edu email)
- Slack
- Github
Give Your Project an “Agile” Boost

Agile programming encourages goals & deliverables be broken down into sprints.
3. Publication & Sharing
Application Programming Interface - Connecting One Application to Another
Linked Open Data - Creating a Network of Context
Open Access & Publishing

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

http://repository.upenn.edu/
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/
Data Repositories

- Open Science Framework
- FigShare
- Scholarly Commons
- Github
Love Your Data Week
February 13-17
12pm TRL Conference Room

Monday
Defining Quality Data
Sasha Renninger talks about Machine Readable data

Tuesday
Documenting, Describing, Defining
Metadata is a love note to future you

Wednesday
Good Data Examples
What DOES good data look like?

Thursday
Finding the Right Data
Mia Wells discusses Warton Research Data Services

Friday
Rescuing Unloved Data
*WIC Seminar Room*
Find out about the DataRefuge project—saving federal climate & environmental data in uncertain political times

DIGITAL RESEARCH WORKSHOP SERIES

INTRODUCTION TO MAPPING

FRIDAY, MARCH 17 @ 12:00PM
WEIGLE INFORMATION COMMONS SEMINAR ROOM
Thank You!

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http://guides.library.upenn.edu/digital-research-methods

Come visit me at the Museum Library!

http://guides.library.upenn.edu/digital-research-methods

https://xkcd.com/365/