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# **Using DataCORE, IU's New Data Repository**

# DataCORE and Agenda

- Introducing DataCORE, IU's new repository!
  - Launch later this semester with the ability to take data of all sizes
  - Other features coming later, to suit IU's data needs!
- Defining Data and Data Repositories
- History of DataCORE and Demo



# Who Am I

- Who am I?
  - Ethan Fridmanski, PhD
  - Data Services Librarian
  - contact: [ejfridma@iu.edu](mailto:ejfridma@iu.edu)
- Joined IU and DataCORE in Spring 2021



# What is Data?

- Information
  - All information? Is everything data?
- Need a more specific definition
  - Information used for the pursuit of scientific knowledge
- Quantitative vs. Qualitative
- Disciplinary Inclusive

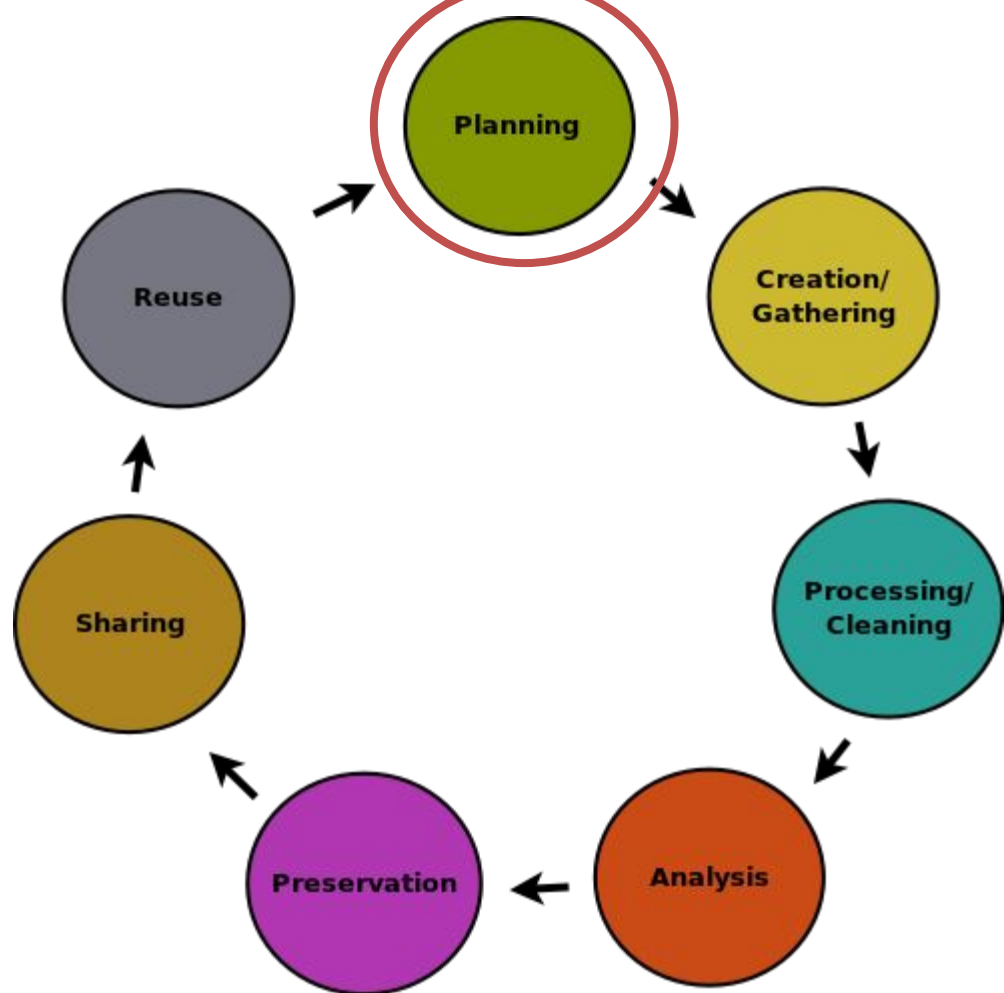


# What Happens to Data?

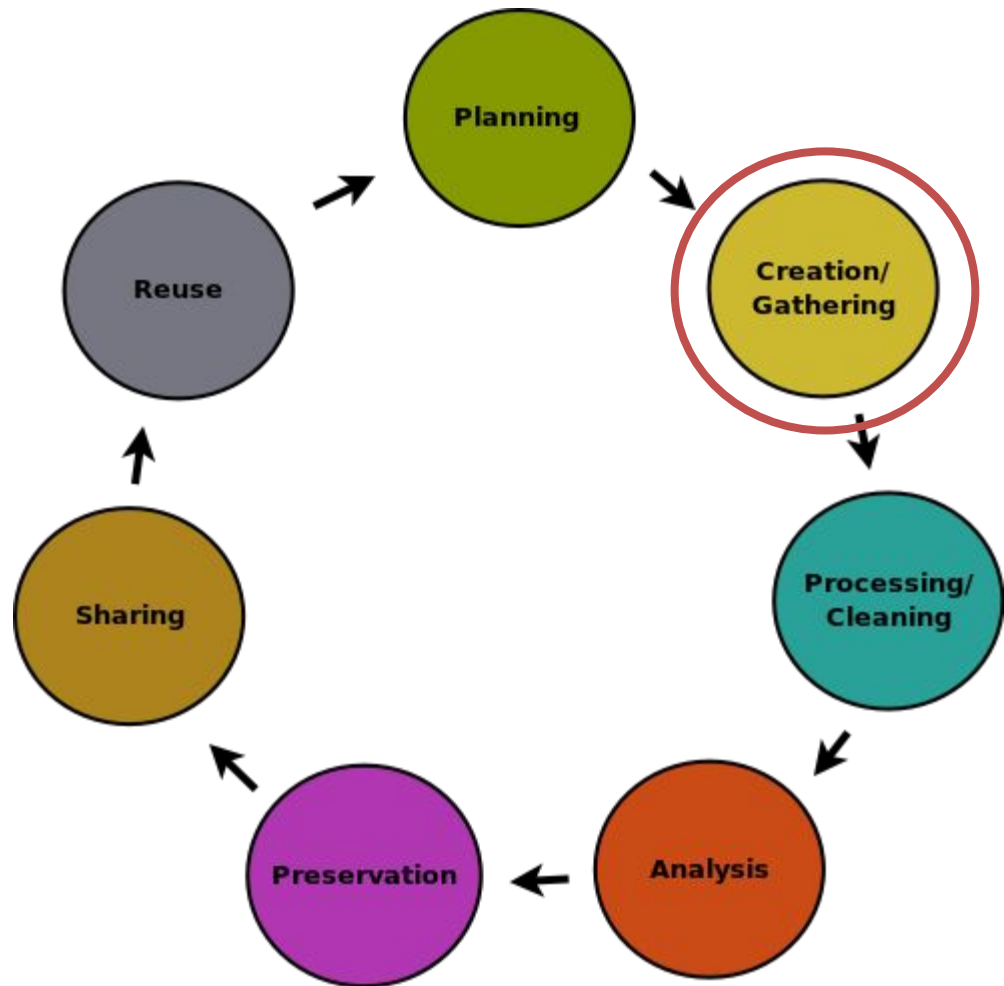
- Data is not stationary, it evolves and changes over time
- Data will go through phases in a research project
- Data Life-Cycle



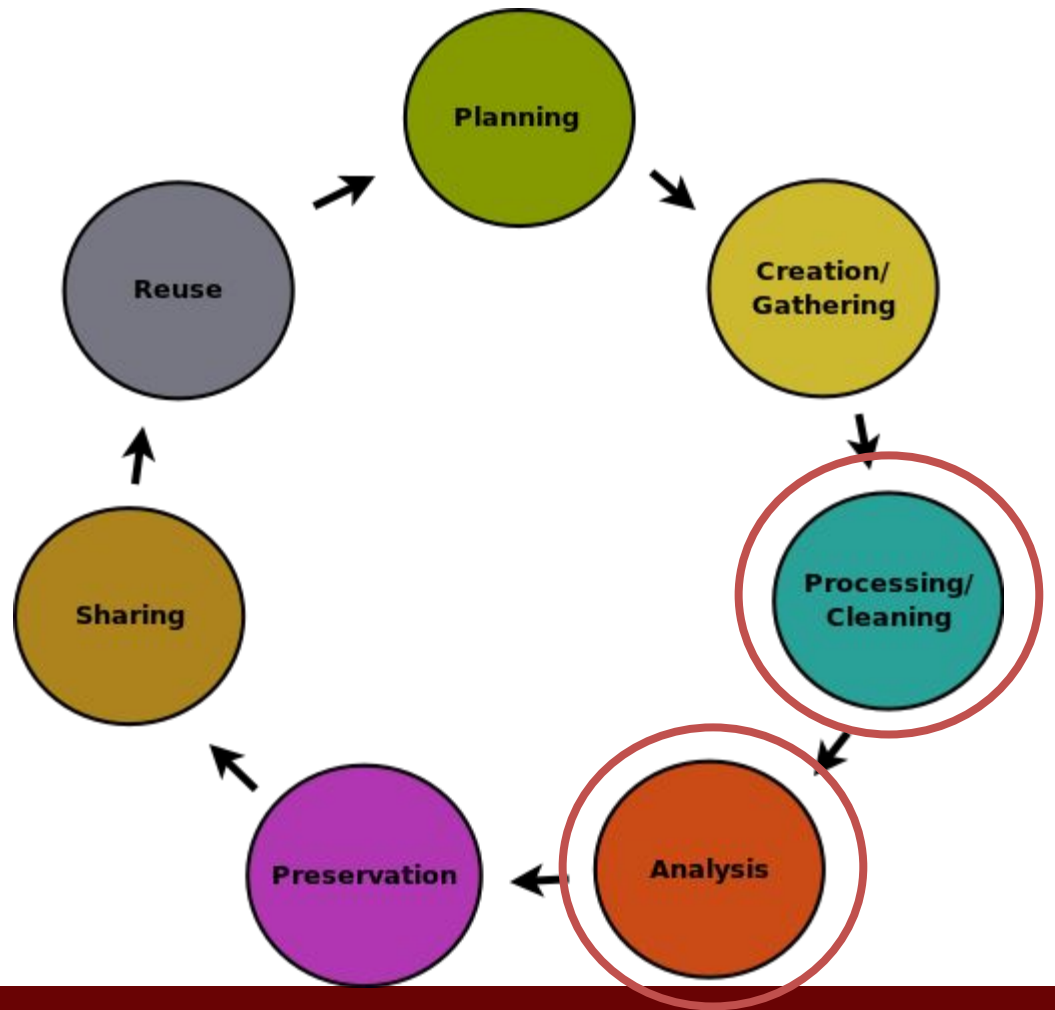
# Data Lifecycle



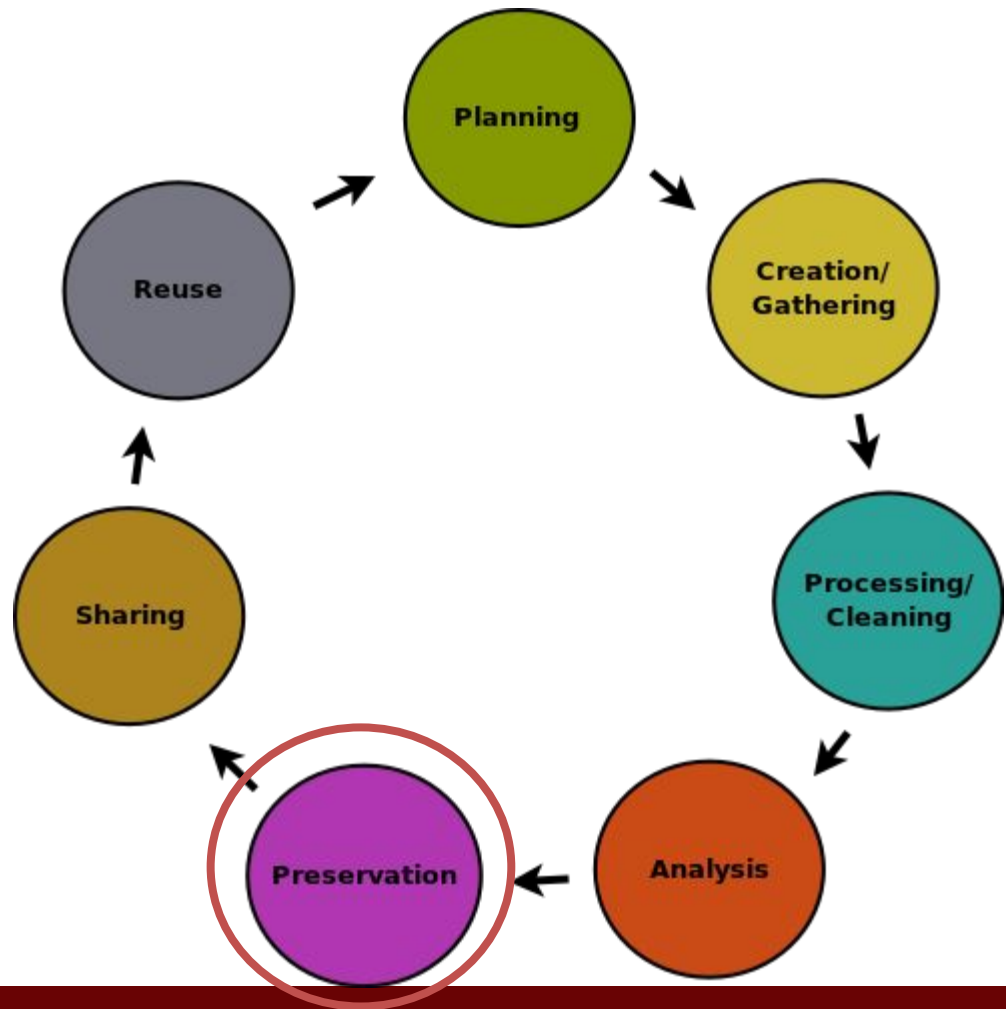
# Data Lifecycle



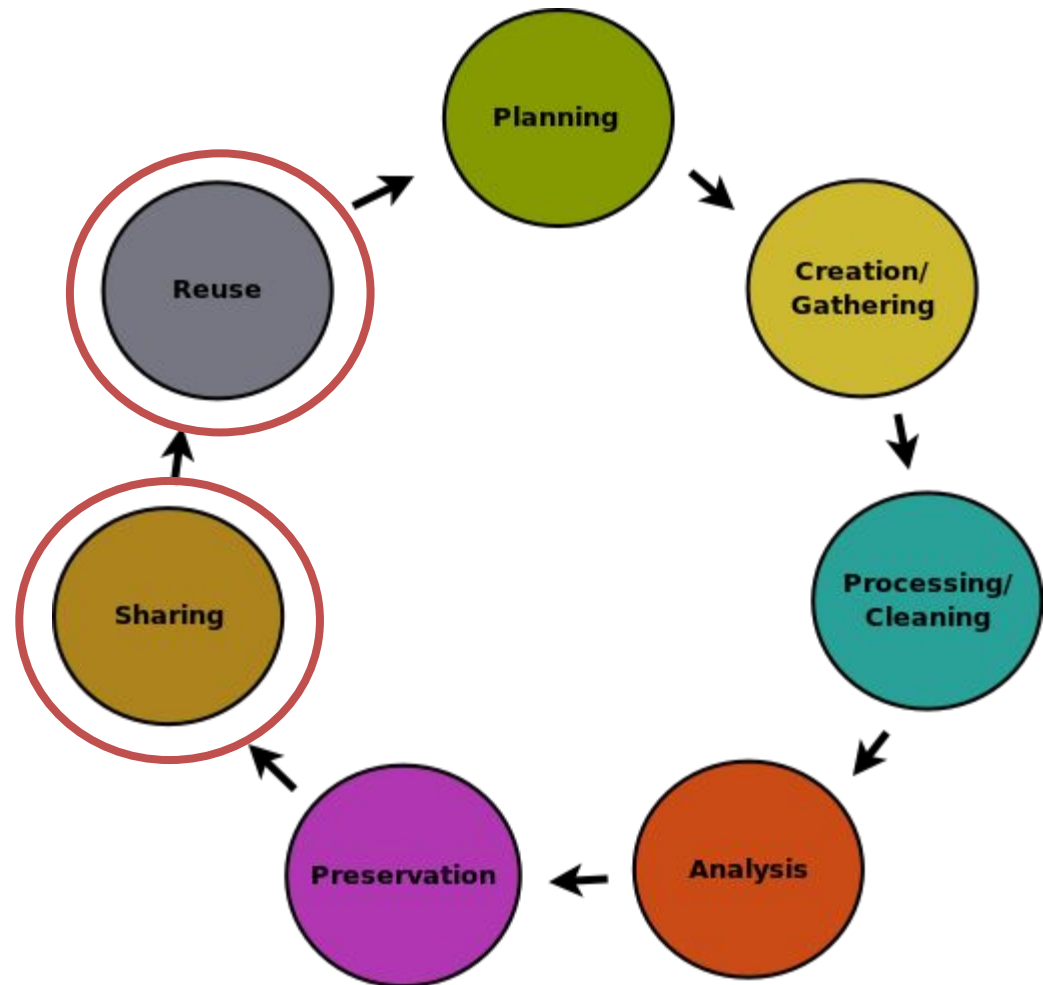
# Data Lifecycle



# Data Lifecycle



# Data Lifecycle

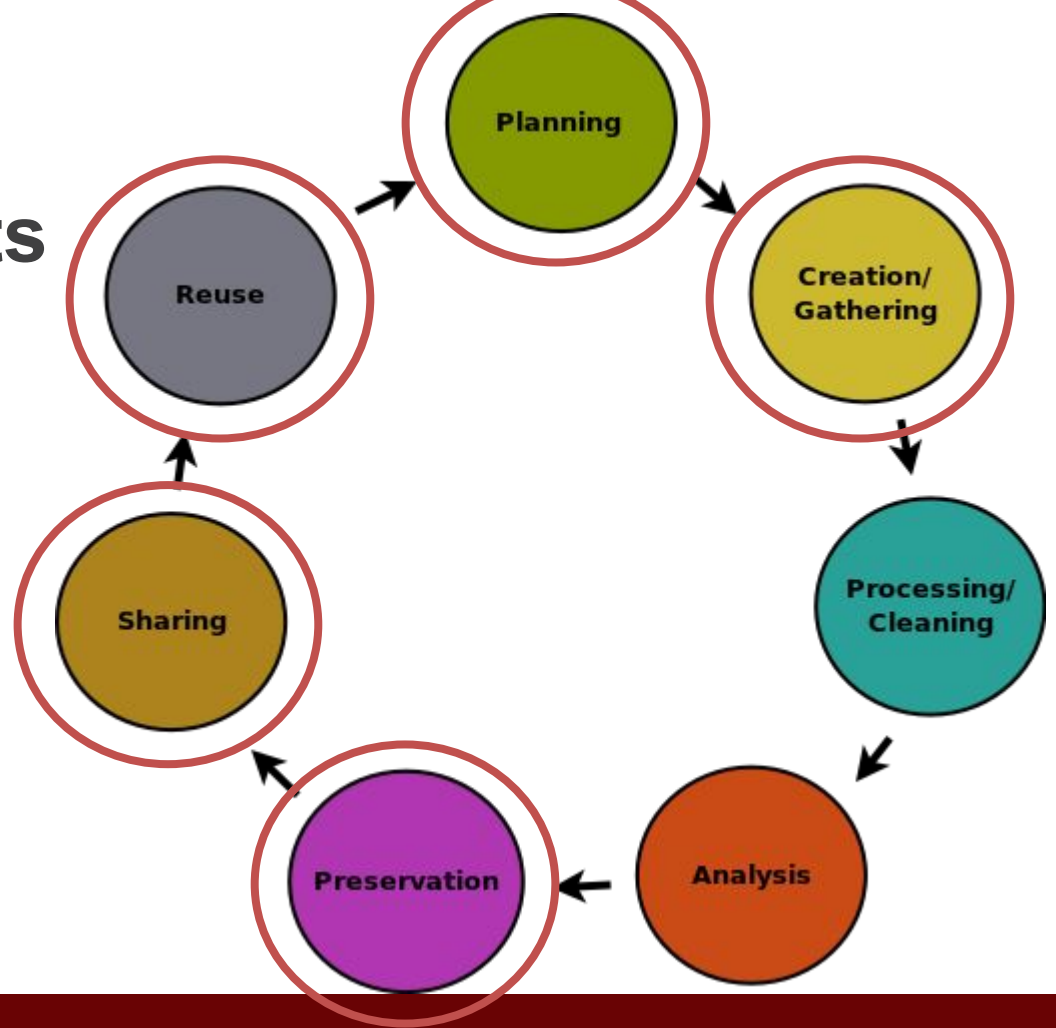


# What are Data Repositories?

- Archives for digital objects
  - Just like how we used to store data physically on punch cards
- Essential technological infrastructure
- Help assist in the data life-cycle
  - Intervene and act as a binder



# Intervention Points



# Intervention Points

- Planning and Creation/Gathering
  - Repositories allow researchers to access new/existing data
- Preservation
  - Repositories allow researchers to preserve data
- Sharing
  - Related to scholarly communication and visibility
  - Reproducibility
- Reuse
  - Where does data come from?



# Why IU Needs Repositories

- Promote Interdisciplinary Research
  - How are researchers in other disciplines supposed to find data?
  - Innovative Findings
  - Public Health and Safety



# Why IU Needs Repositories

- Scholarly Communication and Visibility
  - With Digital Object Identifiers researchers are more likely to get credited for data creation (data is HUGE output)
  - Creates a central location for data sets and makes it easier to share
  - Creates connections between other researchers (within and across disciplines)
    - Can reach people beyond the institution and academy



# DataCORE

- Flexible Metadata Standards
- Large files
  - Cover most use cases
- Multiple File Types
  - Encourage open formats but realize this is not not always possible



# DataCORE

- Easy to use
  - Repositories must be easy! Researchers are busy!
  - Automatic DOI generation
  - Minimized human mediation
- Interdisciplinary and methods agnostic
  - GIS, surveys, networks, text
- Collections to help with visibility
  - Other features as campus needs evolve



# DataCORE Demo and Technical Overview

- Jim Halliday, ([jhallida@indiana.edu](mailto:jhallida@indiana.edu)) - Head of Repository Technology
- Brian Keese ([bkeese@indiana.edu](mailto:bkeese@indiana.edu)) - DataCORE Developer



# DataCORE Technical Overview

- DataCORE is a replacement for our previous solution - data was previously stored in our DSpace institutional repository



# DataCORE Technical Overview

- DataCORE is based on code from the open source Deep Blue Data project from the University of Michigan



# DataCORE Technical Overview

- DataCORE is based on Hyrax, a Ruby-based repository engine using Samvera technology.

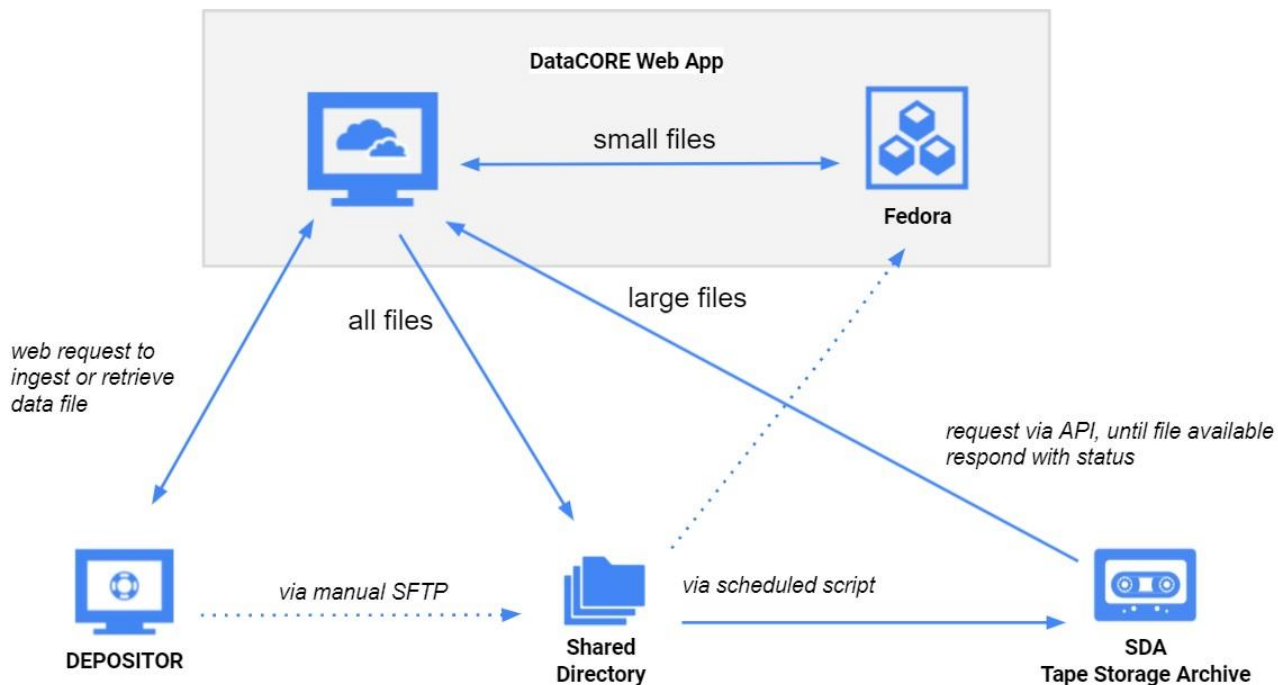


# DataCORE Technical Overview

- Metadata is compatible with the DataCite metadata schema
- All data is backed up in IU's Scholarly Data Archive (SDA)
- Most files are also stored locally for immediate access
- Very large files can be retrieved and downloaded from SDA through the web interface



# DataCORE Technical Overview



# DataCORE Technical Overview

- DataCORE is up and running in pilot phase production:  
<https://datacore.iu.edu/>
- Not all features are fully in place, but development is ongoing
- New, easier ways to get data into the system are coming soon



# DataCORE Demo





Enter search terms

Go

IU DataCORE is a pilot project repository offered by Indiana University Libraries that provides access and preservation services for digital research data that were developed or used in the support of research activities at IU.

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## Featured Works

Featured Works

Recently Uploaded



**Quaternary Geology of the Indiana Portion of the Eastern Extent of the South Bend 30- x 60-Minute Quadrangle**

**Depositor:** jhoops@iu.edu

**Keywords:** Indiana Geological and Water Survey (IGWS), IGWS, formation, quaternary, surficial, Wedron Group, Martinsville Formation, Atherton Formation, Wadsworth Formation, Haeger Formation, Lemont Formation, Elkhart Formation, Yorkville Member, Batestown Member, Late Pleistocene, Holocene



Enter search terms



Limit your search

Resource type	▼
Dataset	41
Software	5
Interactive Object	2

Creator	▼
Engs, Ruth	4
Fischer, Jeremy	3
Gierut, Judith A.	3
Polly, P. David	3
Stewart, Craig A.	3
more »	

Language	▼
English	15

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Sort by relevance ▼

10 per page ▼

### Quaternary Geology of the Indiana Portion of the Eastern Extent of the South Bend 30- x 60-Minute Quadrangle



Creator: Antinao, J. L. and Rupp, R. F.

Description: The Quaternary Geology of the Indiana Portion of the Eastern Extent of the South Bend 30- x 60-Minute Quadrangle was created to provide digital access to the Quaternary geology of the eastern extent of the South Bend 30- x 60-minute quadrangle in Indiana. This geodatabase presents basic Quaternary ge... [more]

Keyword: Indiana Geological and Water Survey (IGWS), IGWS, formation, quaternary, surficial, Wedron Group, Martinsville Formation, Atherton Formation, Wadsworth Formation, Haeger Formation, Lemont Formation, Elkhart Formation, Yorkville Member, Batesown Member, Late Pleistocene, and Holocene

Citation to relate... Antinao, J. L., and Rupp, R. F., 2021,



Demographics



Limit your search

Resource type ▾

Dataset 5

Creator ▾

- Gierut, Judith A. 3
- Chen, Pei-Ying 1
- Ellcessor, Elizabeth 1
- Hayes, Erica Y. 1
- Larivière, Vincent 1
- [more »](#)

Filtering by: Demographics ✕ Start Over

1 - 5 of 5

Sort by relevance ▾

10 per page ▾

### Demographics Archive



Creator: Gierut, Judith A.

Description: ZIP file approximately 1MB; CONTENTS: DemogArchive\_Across Ss.xlsx; DemogArchive\_Reference File.pdf; README.pdf with instructions for use and keys to coding; SOFTWARE: Excel: Mac 2011; Adobe Acrobat XI Pro PDF/A; NOTE: It is imperative to retain Lucida Grande font to preserve the integrity of phonetic... [\[more\]](#)

Keyword: phonology, child phonology, clinical phonology, phonological disorders in children, phonological treatment, Learnability Project, and language acquisition

Citation to relate... <https://doi.org/10.5967/K8VD6WCT>

Title: Demographics Archive

 Go

**Limit your search**

Resource type >


Creator v

- Chen, Pei-Ying x 1
- Hayes, Erica Y. 1
- Larivière, Vincent 1
- Sugimoto, Cassidy R. 1

Filtering by: Demographics x Creator > Chen, Pei-Ying x Start Over

1 entry found Sort by relevance v 10 per page v

### Dataset and codebook for "Altmetrics and social reference managers: An examination of demographics and ideologies of scholarly communication"



Creator: Chen, Pei-Ying, Hayes, Erica Y., Larivière, Vincent, and Sugimoto, Cassidy R.

Description: N/A

Keyword: altmetrics, social reference managers, and scholarly communication

Citation to relate...  
Title: Dataset and codebook for "Altmetrics and social reference managers: An examination of demographics and ideologies of scholarly communication"



bkeese@iu.edu

Home > Back to search results

### Dashboard

ACTIVITY

Your activity >

Reports

REPOSITORY CONTENTS

Collections

Works

Importers

Exporters

TASKS

Review Submissions

Manage Embargoes

CONFIGURATION

Settings >

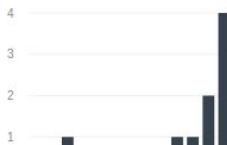
Workflow Roles

Registered Users	Total Visitors	Returning Visitors	New Visitors
Current	Past 30 days	Past 30 days	Past 30 days
26	n/a	n/a	n/a

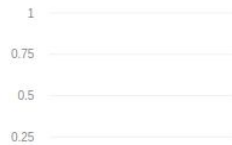
#### Administrative Sets Recent activity

Administrative Set	Works	Files
Default Admin Set	47	175

#### User Activity New user signups



#### Repository Growth Past 90 days



#### Repository Objects Current Status





bkeese@iu.edu

Home > Dashboard > Works

## Works

Create batch of works

Add new work

All Works

Your Works

Filter works:

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Status

Resource type

Admin Set

Sort by relevance

Enter search terms

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Show 10 per page

<input type="checkbox"/> Select	Title	Date Created	Last Modified	Highlighted	Visibility	Actions
<input type="checkbox"/>	New Test Work	2021-10-19	2021-10-19	☆	Open Access	Select

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## Describe Work

Descriptions Files Relationships

To create a separate work for each of the files, go to [Batch upload](#)

Please provide information about your data set (referred to as a "work") in the following fields, keeping in mind that your responses will enable people to discover, identify, and understand your data. If you are uncertain of how to complete any of these fields, we recommend that you read or refer to the [Guide to Metadata](#) in DataCORE's Help pages.

### Title Required

Provide a descriptive name for the Work. Consider including the words "data" or "dataset" and terms related to the methods, discipline, and topic associated with your research.

[Add another Title](#)

### Creator Required

List the name(s) of the person(s) and/or organization(s) responsible for creating the Work; for names, use the following format: Last name, First name MI.

### Save Work

#### Requirements

- Please complete required descriptions
- Check deposit agreement below

#### Visibility

- Open Access**  
**Make available to all.**
- Institution**  
**Restrict access to Institution.**
- Embargo**  
**Set date for future release.**
- Lease**  
**Set date for future reduced access.**
- Restricted**  
**Keep to myself with**



bkeese@iu.edu

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Your activity >

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Settings >

Workflow Roles

## Describe Work

Descriptions

Files

Relationships

db.data

49.15 KB

Delete

You can add one or more files to associate with this work. Add files from your local system or a cloud provider.

Note that if you use a cloud provider to upload a large number of files within a short period of time, the provider may not be able to accommodate your request. If you experience errors uploading from the cloud, let us know via the [contact form](#).

Add files...

Add cloud files...

Drop files here.

### Save Work

#### Requirements

- Please complete required descriptions
- Check deposit agreement below

#### Visibility

- Open Access**  
Make available to all.
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bkeese@iu.edu

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Name	Size	Modified
chimera		13 Feb 2020
snap		30 Jan 2020
hydra-head		29 Jan 2020
questioning_authority		24 Jan 2020
rubydora		24 Jan 2020
ImageMagick-7.0.9-16		16 Jan 2020
redis-5.0.7		16 Jan 2020
fcrepo4-data		16 Jan 2020
solr-7.7.2		16 Jan 2020

Drop files here.

- Institution  
**Restrict access to Institution.**
- Embargo  
**Set date for future release.**
- Lease  
**Set date for future reduced access.**
- Restricted  
**Keep to myself with**



Enter search terms

Go

Your files are being processed by DataCORE in the background. The metadata and access controls you specified are being applied. You may need to refresh this page to see these updates.

**Work Description**

**Title: New Test Work**

Review and Approval

Attribute	Value
Methodology	Testing
Description	This is just a test work
Creator	<a href="#">Brian Keese</a>
Depositor	bkeese@iu.edu

Publisher	Keese, Brian
Resource type	Dataset
Last modified	10/19/2021
License	<a href="http://creativecommons.org/publicdomain/zero/1.0/">http://creativecommons.org/publicdomain/zero/1.0/</a>

To Cite this Work:


Brian Keese New Test Work [Data set]. Indiana University - DataCORE.

### Relationships

In Administrative Set:

[Default Admin Set](#)

### Files (Count: 1; Size: 48 KB)

	Title	Original Upload	Last Modified	File Size	Access	Actions
	db.data	2021-10-19	2021-10-19	48 KB	<a href="#">Open Access</a>	<a href="#">Select an action ▾</a>

**Download All Files (To download individual files, select them in the “Files” panel above)**

## DBD: Files Attached to New Test Work



**Keese, Brian W**

Tue 10/19/2021 9:52 AM

To: Keese, Brian W



The following file has been ingested into DataCORE deposit "New Test Work," at [http://datacore.iu.edu/concern/data\\_sets/gx41mh844](http://datacore.iu.edu/concern/data_sets/gx41mh844) . Please use this list to confirm all intended files were uploaded:

1 -- 'db.data' - 49152 bytes

[Reply](#)

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## Featured Works

Featured Works

Recently Uploaded



**New Test Work**

**Depositor:** bkeese@iu.edu

**Keywords:** no keywords specified

# DataCORE

- Thank you!
- Contact us with questions and inquiries:
  - Ethan Fridmanski ([ejfridma@iu.edu](mailto:ejfridma@iu.edu))
  - Jim Halliday, ([jhallida@indiana.edu](mailto:jhallida@indiana.edu))
  - Brian Keese ([bkeese@indiana.edu](mailto:bkeese@indiana.edu))

