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Credit: <u>Alex Proimos</u>

## DATA ENGAGEMENT FOR THE DATA-HESITANT LIBRARIAN

Or, How I Learned to Stop Worrying and Love the Data

## TODAY'S SESSION (BASED ON ONE I DID FOR ICPSR)

Data-savvy for all: Can we? Must we? Should we?

Critical data literacy

- Empowering librarians to choose their own approaches
- Engaging data-hesitant librarians in training and other activities
- Training approaches and availability

Creating your plan of action for future data activities



### WITH THANKS TO ICPSR!!!

The ICPSR presentation:

<u>https://is.gd/DataEngage\_ICPSR</u>

The ICPSR slides:

<u>https://is.gd/DataEngage Slides</u>

The ICPSR collaborative notes document:

<u>https://is.gd/DataEngage CollabNotes</u>

Credit: <u>namtaf</u> ANN GLUSKER, UC BERKELEY LIBRARY, GLUSKER@BERKELEY.EDU 3

# CRITICAL DATA LITERACY: DEFINED

"I rarely talk now about just 'data literacy', and instead, I now frame it more clearly as critical data literacy.

The skills needed to copy and paste your spreadsheet into a great tool like <u>Datawrapper</u> or <u>RAW</u> seem far less urgent to me than being able to critically assess the limitations of your data and what it might make your viewer think; about who can access and understand that data, and <u>what you want them to do once they</u> <u>have understood</u>, to name just a few of those skills."

--Zara Rahman, "Getting Critical with Data Literacy"

Credit: <u>Harry McGregor</u>



## EMPOWERING LIBRARIANS: CHALLENGING THE STATUS QUO

"A challenge for any librarian in this area is intimidation, as well as data mystification. "Data" is seen as having special power in Western academic settings, and as something that can be interpreted only by experts in a given field. Although librarians work to enable access to information of all types, there is a growing divide between "data librarians" and "non-data librarians" in academic libraries today."

--Pappas, Emmelhainz and Seale, "<u>Critical Data</u> <u>Literacy Using Remittances</u>"



Credit: Eye/See

## EMPOWERMENT: REMIND OURSELVES, WE ALREADY KNOW HOW TO DO THIS!

We already answer questions using data! Many tools on the internet that deliver answers are doing data analysis behind the scenes

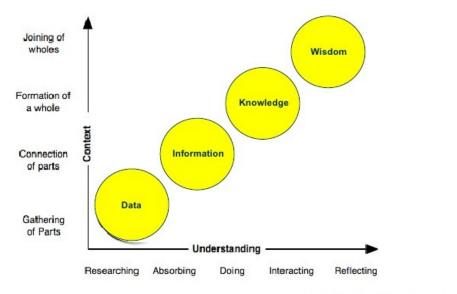
We are comfortable with classification and ordering of information—this is a fundamental data skill

The ways we attack problems can translate neatly to data questions:

- We do a careful reference interview
- We evaluate sources for currency, bias, authority and reliability
- We know how to search to find out what's already been done rather than recreating the wheel

### Imperial College

### The Continuum of Understanding



understanding is a continuum (Cleveland, 1982):

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## EMPOWERMENT: CHOOSING OUR OWN APPROACHES

### Credit: Marc Biarnès



### In our workplaces:

- Do you feel there is a good fit between your data competencies and your position?
- If not, do you need enhanced competencies, or are you being underutilized?
- Is there flexibility and support for professional development, and collaborative projects you could use to shift focus?
- Are there data-related initiatives or processes that you would like to be part of but aren't yet?
- Could you infuse data concepts and evidence-based decision making explicitly in your work? In instruction and programming if you are involved in those?
- Are there learning opportunities you feel drawn to?
- Are there like minded colleagues who might want to have regular meetings (they can be short!)?

### In our careers:

- Understand yourself- how connected do and interested in data are you, really?
- Do you want to improve your data skills in your current position?
- If you aren't already, do you see yourself becoming a data-focused librarian some day? (or, even, leaving librarianship for data)
- Do you feel ready/motivated to stay abreast of changing trends which are increasingly data-driven?
- Depending on the answers to these questions, what professional development opportunities, mentors, continuing education, etc. might you want to commit to?

## ENGAGEMENT: CIVIC DATA IS A GREAT PLACE TO START

Table Preview					v Data Create Visualization	n				
Dataset Name	Problem Statements Rel	Keywords :	URL	:	apl_endpoint	:				
Appliance Large Items Permits	How are appliance large items	appliance large items,permits	https://data.cambridgema.g	<u>gov</u>	https://data.cambridgema.gov					
Dewatering Permits	How are dewatering permits a	Å								
Excavation Permits	How are excavation permits st How are business outside of c cambridge open data									
Temporary Food Service Permits										
Catering Permits	How are businesses outside o									
Swimming Pool Permits	How are swimming pools in th									
Food Establishment Permits	Are food establishments active									
Tobacco Licenses without Food	How are tobacco shops geogra									
Mobile Food Truck Permits	How are food trucks geograph									
Farmer's Market Permits	How are farmer's markets dist	Use	Cambridge's open data to help ou	ur city co	me up with innovative solutions to its	s biggest				
Demolition Permits	What kinds of buildings are be		Use Cambridge's open data to help our city come up with innovative solutions to its big challenges. This dataset lists city issues that you can help us solve by analyzing or hackir							
Sheet Metal Permits	What can the kind of sheet me	on our open data. It's certainly not an exhaustive list, but we hope it will at least								
Solar Installation Permits	What can the dataset suggest	e right direction. Feel free to reach out at OpenData@cambridgema.gov with questions								
Building Permits: New Constru	Where is most of the new buil	or ideas. Thanks for your help. We're glad you're on our team!								

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## ENGAGEMENT: THERE'S NO PLACE LIKE HOME

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2018 OCT Ebony Magnus, Jackie Belanger and Maggie Faber 31 *comments* 

### TOWARDS A CRITICAL ASSESSMENT PRACTICE

*"We worry about disclosing data, but often do not consider the implications of creating data."* -Jeffrey Alan Johnson (2018, p. vi)

*"A critical assessment practice starts with mindfulness."* -Sonia DeLuca Fernández (2015, p. 5)

## THE LIBRARY ASSESSMENT COOKBOOK



### ALSO:

Online learning
Forums (fora?) and listservs
Collaboration/<u>networks</u>
<u>Mentors</u>
Events
Love Data Week

Reading Groups
Live Watch Sessions

## ENGAGEMENT: A THING OF BEAUTY (IN 26 ROWS)

## Data Engagement Opportunities

This document is intended to provide ideas for library and information professionals in how they MIGHT progress in data skills in specific areas. This document should not be used as a position description for any one individual. Instead, it provides areas for how research data skills MAY be implemented across an institution depending upon individual, institutional, and programmatic goals

<ul> <li>individual, institutional, and programmatic goals.</li> <li>Transferable Skills</li> </ul>		Research Data Lifecycle Phase	Data Information Literacy Competency	Engaged	Collaborating	:X Coordinating	Measures of Success			
		A		В	С	D	E	F	G	
	1	Reference interviewing: Usability: Document storage: Knowledge management: Projects management: Reference services: User education; Problem communication; Usderstanding usar demands and information meeds. Research as skills: Working in a team; Knowledge of current developments; Strategic planning change lagility: Service orientation; Uncyclin of information perspective. Long tail perspective; Special of information perspective. Neare dynamics inherent in inform perspective; Social dynamic of groups penspective.	solving: Scholarly ills, Communication Ability to of information	Creating Data	Data Management and Organization	Have a conversation with a researcher about their research process and data.	Organize projects to address identified RDM needs for a specific faculty member or researcher.	Embed in research projects as a grant- supported data manager: review policies and protocols	Upward trend in: * collaborations with researchers: *number of templates available * institutional collaborations *number of grants awarded	
	2	Knowledge of current developments: Reference interviewing: Understanding use information needs; Information literacy instruction; Liferycle of information persp information perspective; Participation in networks and concortia; Knowledge of s	L in	owledge of current developments; Reference interviewing; Understanding user demands and ormation needs; Information literacy instruction; Lifecycle of information perspective; Systems of ormation perspective; Participation in networks and consortia; Knowledge of subject content		Creating Data	Cu	ultures of Practice	Identify the research data management requirements for the most common grant funders for your disciplines.	
	Beference interviewing: Information literacy instruction: User education: problem communication: Strategic planning: Understanding user demands and informatic Communication skills: User interface; Knowledge of current developments: Digita practices: Scourdy and privacy: Service orientation; Lifecycle of information perspective		Re	Reference interviewing; Information literacy instruction; User education; problem solving; Scholarly						gan contes es jou assignment
4 Knowledge of current developments: Reference interviewing: Understanding use information needs: Information literacy instruction; Lifecycle of information perso information perspective: Participation in networks and consortia; ICT and emergin Systems of information perspective		3 Co	communication; Strategic planning; Understanding user demands and information needs; Marketing; Communication skills; User interface; Knowledge of current developments; Digital collections; Archival practices; Security and privacy; Service orientation; Lifecycle of information perspective; Long tail of information perspective			Creating Data Data Manag			Speak with individuals about available tools and templates, such as DMPtool.org.	
	5	Collection development/management: Evaluation of collections: Selection and ac materials: Reference interviewing: Knowledge management: Financial resource r Projects management; Transfering analog operations to digital operations; Befer Problem society: Calabaging, Metadata; Revearch skills: Corrinomization skills: Op Archival practices; Digitation: Ability to change: Agility; Ethics and social respon orientations: Cang skill Afformation perspective; Economics of Information persp of subject content	4 in in	Knowledge of current developments; Reference interviewing; Understanding user demands and information needs; Information literacy instruction; Lifecycle of information perspective; Systems of information perspective; Participation in networks and consortia; ICT and emerging technologies; Systems of information perspective			Creating Data	Discovery	r and Acquisition of Data	Know the disciplinary repositories for your disciplines and teach them to students as likely sources for scholarly work.
	6	Collection development/management; Evaluation of collections; Selection and ac materials; Reference interviewing; Evaluation/assessment of services; Knowledge Database design; Database management; Document storage; Preservation of mat	m	aterials; Reference interviewi	gement; Evaluation of collections; Selecti ng; Knowledge management; Financial re	esources management;				
Credit: Megan Sapp Nelson and Abigail Goben,		5 Pr Ar	roblem solving; Cataloging; M rchival practices; Digitization;	ring analog operations to digital operatio etadata; Research skills; Communication Ability to change/ Agility; Ethics and soci ation perspective; Economics of informati	skills; Digital collections; al responsibility; Service	Creating Data	Discovery	and Acquisition of Data	Locate existence of datasets a researcher needs and/or owns.	

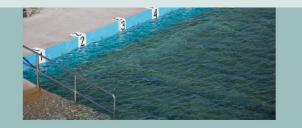
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ACRL RDM Road Show

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## **TRAINING: A TEMPLATE**



Credit: Ale:

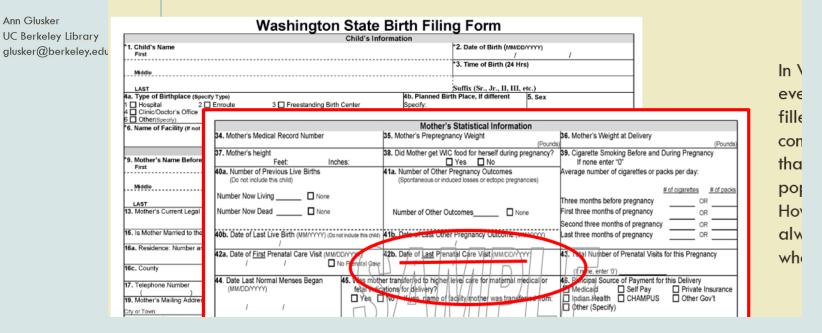
Ann Glusker

### **GETTING STARTED WITH DATA**

A basic one-hour workshop to use with librarians who want to get started but are hesitant...

### https://is.gd/GluskerIASSIST2021

## HOW ARE DATA CREATED? CASE STUDY: BIRTH



## MORE TRAINING For the data beginner

Data Equity for Main Street <u>https://data-equity.org/</u>

Coursera, edX and other MOOCs (the levels may vary!)

Lynda.com if available through your library (or local public library)

May work best to find basic statistics or even numeracy/math courses rather than starting with data, such as <u>https://onlinecourses.science.psu.edu/statprogram/review\_of\_basic\_statistics</u> or <u>https://www.ipracticemath.com/learn/basicmath</u>

\* Or look for resources for specific topic areas, such as Basic Data Analysis for Health Programs <u>https://www.measureevaluation.org/resources/training/capacity-building-</u> <u>resources/basic-data-analysis-for-health-programs</u>



Credit: Andy Roberts

# TRAINING FOR THE DATA-SAVVIER

School of Data <u>https://schoolofdata.org/</u>

Data Journalism Handbook
<u>http://datajournalismhandbook.org/1.0/en/index.html</u>

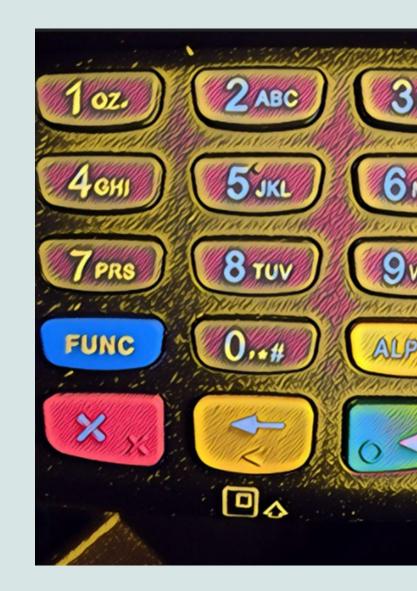
Open Data Institute <u>https://theodi.org/courses</u>

Open Data Handbook <u>http://opendatahandbook.org/resources/</u>

Data 101 <u>https://www.neighborhoodindicators.org/data-</u> <u>tech/course-catalog/data-101-data-visualization-data-literacy-and-</u> <u>storytelling</u>

Also, check out offerings on your own campus! AND ICPSR!!

And, there are many online courses related to research data management—contact me if you want to know more



Credit: Damian Gadal



# **CREATING A PLAN OF ACTION**

Ideas for implementing inclusive data initiatives in your settings: 1) Refer to the engagement grid; 2) encourage individual approaches! That said----

An individual not making a data engagement plan is a valid choice! But...if you want to encourage data confidence...

\*Ask librarians in your setting to consider:

\*What is realistic for your setting and job, and/or personal life?

Who would be natural collaborators?

What appeals to you? (at work or not)

Then-if they want to engage, set goals! 1, 3 and 6 months...???



Credit: <u>Zilupe</u>

### **MINE:**

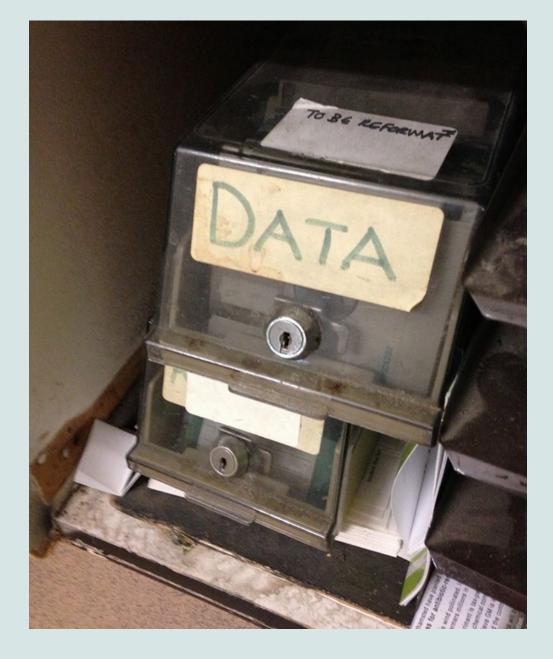
- 🙂 1: Read <u>Data Feminism</u>book
- 3: Take a class, "Power Pivot Data Modeling in Excel"
- **\*** 6: Create my own template of library assessment data relating to my departments, that I can update yearly

## **QUESTIONS?**

Slides and training template: https://is.gd/GluskerIASSIST2021

Email me! <u>Glusker@berkeley.edu</u>

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Credit: Janet McKnight