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## Data Literacy: Something for Everyone

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# data literacy: something for everyone

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LIWest, 25 July 2014

# data literacy



# data literacy

- Many definitions depending on discipline, context, goal
- Relevant to all disciplines: not just for quantitative researchers anymore

# data literacy

- Entirely comparable to basic information literacy: understanding what you're looking for, where to look for it, and how to understand what you find when you find it

# data literacy

- Why should we bother?
  - Necessary real-world, post-graduation skill for students  
(they need to understand what they're combining in those sexy mashups)

# data literacy

- Why should we bother?
- Professional practice: administration ~~demands~~ requests for empirical evidence that describes and justifies what we do

# data literacy

- Why should we bother?
  - Scholarly activity: growth of evidence-based empirical research expectations/opportunities in LIS scholarship



# data literacy

- Why should we bother?
  - Bad data makes bad decisions: crucial to be able to identify good or bad conclusions made from good or bad applications of data

# data literacy

- Where to start
  - 5-part framework for data literacy competencies (Prado & Marzal, 2013)
  - 1-3 easiest to incorporate in existing IL curricula

# data literacy

- One: Understanding Data
  - What is it? (hint: not just numbers)
  - What role(s) does it play in society? In scholarly communication?

# data literacy

- Two: Finding/Obtaining Data
  - Sources: who produces it (and why)?
  - Sources: where can you get it (and what if it doesn't exist)?

# data literacy

- Three: Reading, Interpreting & Evaluating Data
- Presentation, Format, Citation Style, Context
- Authority, Methodology, Comparability, Relevance

# data literacy

- Three: Reading, Interpreting & Evaluating Data
  - Why was the data collected/created, and are any conclusions drawn from it sufficiently explained/justified?

# data literacy

- Three: Reading, Interpreting & Evaluating Data
- We're not (usually) statisticians, and we don't need to be.

# data literacy

- Three: Reading, Interpreting & Evaluating Data
  - For example, looking at a table of data in an article: what are the units? Data source? Observed or calculated data? Description of table in article text?
  - Slow down: spend at least as much time reading the table as you would spend reading a block of text taking up the same space on the page.



# data literacy

- Four: Managing Data
  - Understanding/creating metadata and codebooks
  - Importance of long-term preservation for access, replication, sharing (research data management)

# data literacy

- Five: Data Handling
  - Specifics generally outside the scope of basic one-shot IL session (YMMV)
  - Ethical uses
    - Who benefits from these data
    - Citing data

# data literacy

Prado, J. C., and Miguel Angel Marzal. 2013.  
“Incorporating Data Literacy into Information Literacy  
Programs: Core Competencies and Contents.”  
*Libri* 63 (2): 123-134.

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and to put things into perspective...

# You are here

