Creating and Managing a Digital Library
Agenda

• Housekeeping items

• Introduction of speakers
  – Laura Costello
  – Sharon Yang
  – Richard Jost

• Questions
Creating a digital library takes time, effort, and resources, but the tools are available, thanks to the popularity of the digital movement. In this panel discussion, three experts in the field of librarianship will share their views on the role of the librarian in providing tools and guidance to create and manage a digital library.
Introducing Our Panel

A Climate of Demand: The shift from traditional print collections to the emergence of eBooks and demand-driven acquisitions

Laura Costello, Head of Research & Emerging Technologies
Stony Brook University

Altmetrics and Research Support: Tips on using altmetrics to measure the impact of your digital library

Sharon Q Yang, Professor and Systems Librarian
Rider University Libraries, New Jersey

Staffing the Library of the Future: The skills librarians need as the library transitions from a print to a more technical environment

Richard Jost, Director of the Law Librarianship Program
University of Washington Information School
FAR BEYOND

A Climate of Demand
Hi! I’m Laura
Head of Research & Emerging Technologies at Stony Brook University
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Evaluating Demand-Driven Acquisitions

Chandos Publishing, 2016
1. Context
2. Case Studies
3. New Research
4. What’s next?
What we talk about when we talk about monographs

- Serials
- Space
- Processing/Outsourcing
- The changing role of libraries
What’s the bottom line?

◆ Assessment!

◆ ACRL’s 2016 Top Trends in Academic Libraries indicated that continuous assessment is the new normal, along with “An increasing need to establish more holistic and agile approaches (both qualitative and quantitative) to manage budgetary constraints while ensuring that collections are “responsive” and committed to institutional research and curricular requirements and needs.”
Case Study: Teachers College
Case Study: Chicago Public Library
New Research


Altmetrics and Research Support: Tips on Using Altmetrics to Measure the Impact of Your Digital Library

Sharon Q. Yang, Rider University
Altmetrics

- Alternative metrics to traditional metrics (citation counts and journal impact factor)
- Digital indicators derived from Internet-based activities and engagement (NISO, 2016).
- Complement, not replace traditional metrics
- Examples

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Sources for Altmetrics

- Social media - Twitter, Facebook, Google+, Pinterest and blogs
- Online reference managers like Mendeley and CiteULike
- Library data - Worldcat, EBSCO databases, Pubmed
- More and more…
Altmetrics Collection

• Persistent Identifiers
  – doi (digital object identifier)
  – Pubmed ID
  – ISBN
  – ORCID/open researcher and contributor ID
  – RID/researcherID (Web of Science ID)
  – Scopus ID
  – Author/title
  – More…

• Meta data/tags
• Standard citations (Wikipedia)
• Links (news)
• Others
Outputs of the NISO Alternative Assessment Metrics Project
Promotion/Tenure, Grant Applications

• Marine scientist, Steven B. Roberts at Washington University used altmetrics to get promotion to associate professor with tenure, including blog posts, tweets, views, downloads, mentions in social media as well as citations (Howard, 2013)

• Emilio Bruna, University of Florida-”I included Impactstory data in my portfolios for 1) promotion to full professor and 2) selection to UF’s Academy of Distinguished Teaching Scholars, a campus-wide faculty award. Both were successful” (Bruna, 2013)

• Successful grant applications are reported
Image from https://www.peoplemaps.com/psychometric-assessment-for-line-managers/
Digital libraries

• “The collections of digitized or digitally born items that are stored, managed, serviced, and preserved by libraries or cultural heritage organizations, excluding digital content from the publishers” (Matusiak, 2012).

• A digital library may be one of the following?
  – Institutional repositories/academic repositories
  – Digital archives/special digital collections
Assessment of Digital Libraries

- Cost
- Use
- Usability
- Impact - Internet attention and activities through altmetrics
Two studies

• 2014 study on 100 international digital libraries/institution repositories (Rehemtula and others, 2014)
  – 9% used altmetrics from a commercial aggregator like PlumX
  – 70% displayed some altmetrics as part of the system

• 2016 study on 100 US digital libraries/institutional repositories (Dawson & Yang, 2016)
  – 4% used altmetrics from an aggregator
  – 73% displayed some altmetrics as part of the system
  – 25% did not display any altmetrics
Two studies found the following apps are being used for digital libraries/institutional repositories. Some of the following can track simple altmetrics such as downloads and pageviews.

- Bepress
- ContentDM
- Dspace
- Eprints
- Digital Commons
Issues of Altmetrics

• Altmetrics measure attention, not quality (citation based metrics have the same problem)

• Gaming

• Early indicators of future citations and impact (not conclusive)

• Subjects (popular vs. academic)

• The general public and level of education (Roemer & Borchardt, 2015)
Tips

- Follow NISO 2016 recommendations (know how aggregators collect altmetrics)
- Choose a digital library application that readily collects altmetrics or connect to Altmetrics aggregators via APIs
- Encourage the developers to include this function in DL/IR applications
- Encourage authors to apply for ORCID, ResearcherID
- Use persistent identifiers in metadata or tags
Tips

• Supply as much metadata or tags as possible when describing an item
• Develop a plan to use altmetrics consistently and meaningfully
• Use altmetrics in conjunction with other data if possible
• Aware of the issues and limitations of altmetrics
• More…
References

• Dawson, Patricia H. & Sharon Q. Yang 2016. Unpublished data
CREATING AND MANAGING A DIGITAL LIBRARY: STAFFING THE LIBRARY OF THE FUTURE

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21st Century Trends

• Change in technologies
  • Mobile devices, tablets, smartphones
• Changes in information formats
  • Electronic, digital, audiobooks
• Changes in publishing practices
  • Amazon as producer, publisher and seller
  • Reduction in brick & mortar book stores
• Changes in reading habits
  • Snippets vs. full-text
LIBRARIES WILL CHANGE

- More integration with social media
- More emphasis on resource sharing
- Libraries as place vs storage warehouses
  - Will libraries be stuck with an outmoded technology (books) as society moves on?
  - Function as the community platform for publishing, research, unique content, etc.
- More emphasis on patron-centered activities
LIBRARIES WILL CHANGE #2

• More emphasis on electronic & digital resources
  • Still true: “The value of library collections are rooted in the worth of a local copy”?  
  • With electronic materials, no need for local copies; information can be procured from all over the globe through downloads.
  • Will people pay for libraries to house local copies when they can have an equal or better experience using their own technology?
  • Are books to become niche items for the select few?
Electronic resources workflow

- Renew/cancel
- Review
- Manage
- Discovery
- Acquisition
- Evaluation

The cycle flows from evaluation to acquisition, then to discovery, management, review, and finally back to evaluation.
LIBRARY STAFF WILL CHANGE

• Smaller staff and smaller budgets
• More reliance on technology
• More reliance on shared services (like joint technical services)
• Need for new skills to cope with changing formats, new systems
• More jobs will be direct service to patrons
Stephen G. Haines, founder and CEO of Haines Centre International and its four Haines Companies including his publishing companion, Systems Thinking Press, based in San Diego, CA. Steve is the world's foremost authority, leader and speaker in The Systems Thinking Approach™ to the field of Strategic Management (Planning - People - Leadership - Change - Customer Value).
REASONS FOR SUPPORTING CHANGE

• They believe their needs are not being met currently.
• They believe the change will make it easier for them to meet their needs.
• They believe the benefits outweigh the risks.
• They believe the change process is being handled properly.
• They believe the change will work.
• They believe those responsible for the change can be trusted.

Source: *Making Change Irresistible* by Ken Hultman
Questions?