People + Information + Technology
First, what we haven’t solved

- Scholarly communication
First, what we haven’t solved

- Scholarly communication
- Digital divide
First, what we haven’t solved

• Scholarly communication
• Digital divide
• Global warming
Technology: The network
Technology: Network effects

• Platform concentrates data
• Community forms around platform
• Gravitational hubs – the rich get richer
Your science experiment: 250 miles above Earth. For the whole world to see. YouTube Space Lab
Technology: Cloud services
An ecosystem

cloud

kindle

Amazon.com

Amazon cloud drive

book marketplace

Cloud player

Apps

Music

opportunistic?

own hardware optimised user experience

Most logical platform... for now

Highly optimised core product

http://www.slideshare.net/yiibu/beyond-the-mobile-web-by-yiibu
Technology: Social/crowd-sourcing

- Blogs
- Email
- Instant messaging
- Wikis
- Social bookmarking
- Facebook
- Twitter
The original social network
Technology at OCLC : 1998

• Y2K approaching!
• Running out of holding symbols!!
• Running out of OCLC numbers!!
Technology at OCLC

- Proprietary software to open systems architecture
- New development techniques
Technology at OCLC

8 engineering centers

Seattle
San Mateo
Dublin

Sheffield
Leiden
Mannheim
Oberhaching

Melbourne
OCLC 1989 footprint: 44,400 sq. ft.

17 mainframes
249 disk drives
OCLC 2012 footprint: 14,800 sq. ft.

Servers
- 760 Physical AMD / Intel
- 4,000 Virtual on 144 Hosts
- 1 IBM Mainframe z9-J01

Storage
- 600 Terabytes Primary
- 10,000 slot Tape Library 1.2 petabytes
- 200 Terabytes Virtual tape

Data Centers
- Dublin, Ohio, USA
- Westerville, Ohio, USA
- London, UK
- Sydney, Australia

Operations Center, Kilgour Building, Dublin, Ohio, USA
Cell phone: 1998
Cell phone: 2012
Washington's crossing

Author: David Hackett Fischer
Series: Pivotal moments in American history.
Edition/Format: Book : English
Summary: Six months after the Declaration of Independence, the American Revolution was all but lost. A powerful British force had routed the Americans at New York, occupied three colonies, and advanced within sight of Philadelphia. Yet George Washington, and many other Americans, refused to let the Revolution die. On Christmas night, as a howling nor'easter struck the Delaware Valley, he led his men across the river and Read more.
Rating: ★★★★★ based on 1 rating(s) ✍️ 1 with a review

Find a copy in the library

Enter your location: 43017

Displaying libraries 1-6 out of 2680 for all 21 editions

1. Pontifical College Josephinum
# The Birth of Metadata

## The Elements

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<td><strong>Label:</strong></td>
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| **Definition:** | A point or period of time associated with an event in the lifespan of the resource.
The world's libraries. Connected.

Collections grid (Lorcan Dempsey and Eric Childress, OCLC Research)

**Stewardship/scarcity**

- **Low-High**
  - Books & Journals
  - Newspapers
  - Gov Documents
  - CD & DVD
  - Maps
  - Scores

- **High-High**
  - Special Collections
  - Rare books
  - Local/Historical Newspapers
  - Local History Materials
  - Archives & Manuscripts
  - Theses & dissertations

- **Low-Low**
  - Freely-accessible web resources
  - Open source software
  - Newsgroup archives

- **High-Low**
  - Research & Learning Materials
  - Institutional records
  - ePrints.tech reports
  - Learning objects
  - Courseware
  - E-portfolios
  - Research data
  - Prospectus
  - Institutional website

**Uniqueness**

- **High Stewardship**
  - In many collections

- **Low Stewardship**
  - In few collections
Future of bibliographic work

- Descriptive
- Analytics
- Social
- Algorithmic
Sources of Metadata

1. Professional
2. Social/crowd-sourced
3. Transaction
4. Programmatically promoted
Social

User-generated content

- Annotations
- Audio comments
- Images
- Links
- Lists
- Ratings
- Recommendations
- Reviews
- Tagging
- Text editing
- Video
ISLAMIC MANUSCRIPTS AT MICHIGAN
الفهرسة: المخطوطة الإسلامية في جامعة ميشيغان

The world's libraries. Connected.

SHARE DESCRIPTIVE COMMENTS ON ISLAMIC MANUSCRIPTS. أضف تعليقاتك على المخطوطة الإسلامية في جامعة ميشيغان

Total comments on this page: 9

« Previous: Mizān al-tibb, i.e. 1222, ميزان الطب [1238م].
Next: Sikandar nāmah-i barri, i.e. 1256م. [1256م], سندر نظام بری [سندر نظام بری]. »

[Jangnāmah-i Imām Ḥusayn ...etc., 1222 and 1259, i.e. 1807 and 1843م.][1222م و 1259م].

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3 Author:
Kāshīf, Ḥusayn Wāʻiz, d. 1504م or 1505م.

4 Place/Date of Production:
Unidentified—Can you help supply this information? Please comment!
Data mining

- Discovering patterns in data
- Automatic/semi-automatic
The world's libraries. Connected.
People: May 18-20, 1998
My first Users Council meeting

“The Value of OCLC Membership in a Global Library Community”

UC Executive Committee:
Kris Senecal, Brad Baker, Larry Alford, Betsy Wilson
Fast forward to 2009

“It is futile, Mr. Bond. You will not be able to stop me once I have control of all libraries on the planet.”
OCLC staff
Librarians
Librarians
Public purposes:
Further access to the world’s information
Reduce the rate of rise of library costs