Mass Digitization and Access to Books Online

MAURA MARX
EXECUTIVE DIRECTOR
OPEN KNOWLEDGE COMMONS

UNIVERSITY OF NOTRE DAME 2009
Over 7 million books online
Waiting for the GBS Settlement outcome
No legislative solution to orphan works problem
Library and grant funded scanning hampered by economy
Hathi Trust
Plans for radical collaboration
What is Mass Digitization?

“The goal of mass digitization is not to create individual collections but to digitize the books in the world’s libraries on a grand scale - ideally, every book ever printed.”

California Digital Library : “Inside CDL”
Northeast Regional Scanning Center
Kirtas
BookScan
How and where

- Non-destructive book scanning
- Software processing (OCR, image correction)
- Derivative creation; ingest in repositories

- Google centers: shhhhh! Top secret
- Internet Archive run centers: Toronto, Boston, NY, Washington D.C., U of California, San Francisco
- Kirtas: Cornell, Johns Hopkins
Overnight? Not really

- Project Gutenberg: 1971
- Million Books Project: 2001
December 2, 1994

Press contact: Guy Lamolinara (202) 707-9217


On October 21, approximately 60 directors from libraries that are members of the Association of Research Libraries (ARL) met with Library of Congress officials to discuss the creation of a National Digital Library. This was the second in a series of conversations the Library of Congress has planned with various constituencies interested in the Library’s plans for the National Digital Library.

"The Library of Congress is fully aware that the National Digital Library cannot be built by one institution. This huge task will require the cooperation of libraries across the nation -- and indeed throughout the world," said Winston Tabb, the Library's Associate Librarian for Collections Services. "We look forward to working with members of the Association of Research Libraries and other institutions in making a major contribution to the National Information Infrastructure and ultimately the global information infrastructure."

Library officials noted that the ARL libraries have major research collections that must be part of the national digital library. They also acknowledged the pioneering digital efforts under way at various ARL libraries, such as Yale, Cornell, and Columbia. While participants in the meeting expressed enthusiasm for the potential the digital library offers to scholars and librarians, all agree that digitization of library collections is not a universal remedy for all library problems, such as space and preservation. Digital
Google Checks Out Library Books

The Libraries of Harvard, Stanford, the University of Michigan, the University of Oxford, and The New York Public Library Join with Google to Digitally Scan Library Books and Make Them Searchable Online

MOUNTAIN VIEW, Calif. - December 14, 2004 - As part of its effort to make offline information searchable online, Google Inc. (NASDAQ: GOOG) today announced that it is working with the libraries of Harvard, Stanford, the University of Michigan, and the University of Oxford as well as The New York Public Library to digitally scan books from their collections so that users worldwide can search them in Google.
In Challenge to Google, Yahoo Will Scan Books

By KATIE HAFNER
Published: October 3, 2005

An unusual alliance of corporations, nonprofit groups and universities plans to announce today an ambitious plan to digitize hundreds of thousands of books over the next several years and put them on the Internet, with the full text accessible to anyone.

The effort is being led by Yahoo, which appears to be taking direct aim at a similar project announced by its archrival, Google, whose own program to create searchable digital copies of entire collections at leading research libraries has run into a series of challenges since it was announced nine months ago.

The new project, called the Open Content Alliance, has the wide-ranging goal of digitizing historical works of fiction along with specialized technical papers. In addition to Yahoo, its members include the Internet Archive, the University of California, and the University of Toronto, as well as the National Archive in England and others.
Why digitize books?

- Search
- Access
- Enhance traditional scholarship
- Cause new scholarship
- Public good: resource sharing
- Democratic access to information
For convenience
Download and use

Austria and the Austrians (1837)

Author: Blumenbach, W. C. W. (Wenzel Carl Wolfgang)
Subject: Austria -- Description and travel; Hungary -- Description and travel
Publisher: London : H. Colburn
Year: 1837
Possible copyright status: NOT_IN_COPYRIGHT
Language: English
Call number: srif_ucla:LAGE-4017487
Digitizing sponsor: MSN
Book contributor: University of California Libraries
Collection: americana; cdl
Scanfactors: 34

Reviews
## Derivative files

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Chapter 1

Alice was beginning to get very tired of sitting by her sister on the bank, and of having nothing to do: once or twice she had peeped into the book her sister was reading, but it had no pictures or conversations in it, and "why is the glass clean now?" thought Alice (she had been considering this all day) "and why is the rabbit red?"

There was nothing very remarkable in that; nor did Alice think it so very much out of the way to hear the rabbit say to itself, "Dear, dear! I shall be too late!" (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural); but when the rabbit actually took a watch out of its waistcoat-pocket, looked at it, and then hurried on, Alice started to her feet, for...
Alice was beginning to get very tired of sitting by her sister on the bank of having nothing to do: once or twice she had peeped into the book her sister was reading, but it had no pictures or conversations in it, and what was the use of reading such nonsense?

There was nothing very remarkable in that; nor did Alice think it so very much out of the way to hear the rabbit say to itself "Dear, dear! I shall be too late!" (when she thought it over afterwards, it occurred to her that she ought to have wondered at this, but at the time it all seemed quite natural), but when the rabbit actually took a watch out of its waistcoat-pocket, looked at it, and then hurried on, Alice started to her feet, for it flashed across her mind that she had never before seen a rabbit with either a waistcoat-pocket, or a watch to take out of it, and挎着 was very curious to know what it had done with it, and why it had been so particular to get it out so quickly.

"Who are you?" said the White Rabbit, raising its voice and Speaking sharply.

"I--I--am nobody at all," said Alice timidly; "I meant to say there was nobody here.

"There might be some reason why there wasn't," said the White Rabbit.

"There aren't," said Alice.

"There can't be.

"There might be.

"There aren't.

"There must be," said the White Rabbit, "or I'm a very stupid little fellow."

"I'm not stupid," said Alice.

"You are a very stupid little fellow," said the White Rabbit.

"I'm not beautiful," said Alice.

"You are a very ugly little fellow," said the White Rabbit.

"I'm a very good little fellow," said Alice, "if I may be allowed to say so myself."

"You can't be," said the White Rabbit.

"I can," said Alice.

"You can't," said the White Rabbit.

"I can," said Alice, looking her very best.

"You can't," said the White Rabbit.

"I can make you believe as many as I choose," said Alice, "if I choose."

"You can make who believe what you choose," said the White Rabbit.

"I can make whom believe what I choose," said Alice.
Chapter One

Alice was beginning to get very tired of sitting by her sister on the bank, and of having nothing to do: once or twice she had peeped into the book her sister was reading, but it had no pictures or conversations in it, and what is the use of a book, thought Alice, without pictures or conversations? So she was considering in her own mind (as well as she could, for the hot day made her feel very sleepy and stupid), whether the pleasure of making a daisy-chain was worth the trouble of getting up and picking the daisies, when a white rabbit with pink eyes ran close by her.

There was nothing very remarkable in that, neither.
Full text search across collections...

Proceedings of the Indiana Academy of Science - Page 8
by Indiana Academy of Science - Science - 1966
Emil Hoffman, University of Notre Dame (Northern Indiana Regional); AC Koester, Valparaiso University (Northwestern Indiana Regional); Leo Kuhn, ...
Snippet view - About this book - Add to my library - More editions

Notre Dame: Where Have You Gone? - Page 77
by Eric Hansen - Sports & Recreation - 2005 - 192 pages
There were all the people at Notre Dame who were pulling for him — everyone from university president the ... freshman guidance counselor, Emil T. Hoffman. ...
Limited preview - About this book - Add to my library

Celt and pepper - Page 202
by Ralph McNerney - Fiction - 2002 - 240 pages
... of Notre Dame, had been used for a variety of purposes over the years. It had housed the Freshman Year of Studies when that brainchild of Emil Hoffman ...
Limited preview - About this book - Add to my library

Simply Devine: Memoirs of a Hall of Fame Coach
by Dan Devine, Mike Steele, Michael R. Steele - Biography & Autobiography - 2000 - 200 pages
Emil T. Hoffman, former Dean of the Freshman Year at Notre Dame, and University of Missouri Chancellor Richard Wallace have provided key glimpses into Coach ...
Limited preview - About this book - Add to my library - More editions
and within books
VI.

DEVELOPMENT OF THE UNIVERSITY.

I. The Third Presidency ..... 105
II. The Silver Jubilee, and the Alumni Association ..... 107
III. The Notre Dame Scholastic ..... 111
IV. The Scholastic Annual ..... 115
V. Professor Joseph A. Moeller ..... 116

Page 6

Page 9

Page 11

THE UNIVERSITY OF NOTRE DAME
DU LAC.

work, the teaching of the young, to which labor they have added the care of the sick and distressed, by serving in hospitals and otherwise.

Where's the rest of this book?
Places in books...

Key terms

Places mentioned in this book  Maps  KML

- **Vostok** - Page 239
  The pilot cosmonaut of the spaceship satellite **Vostok** is a citizen of the Union of Soviet Socialist Republics, Major of Aviation Yuri Alekseyevich ... more pages: 209 212 227 229 248 266 273

- **Kapustin Yar** - Page 127
  Almost immediately after his marriage to Nina, Korolev was off to **Kapustin Yar**. He had less than a year to prepare for a series of launches on his ... more pages: 116 292 295 361

- **Strelka** - Page 211

more »
Popular passages

You gain strength, courage and confidence by every experience in which you really stop to look fear in the face. You are able to say to yourself, "I have lived through this horror. I can take the next thing that comes along." You must do the thing you think you cannot do.

Page 29

Appears in 197 books from 1978-2008

Our doubts are traitors, And make us lose the good we oft might win, By fearing to attempt.

Page 31

Appears in 1002 books from 1767-2008

Show all 7 passages »
Ideas and quotes across books...

"You gain strength, courage and confidence by every experience in which you really stop to look fear in the face. You are able to say to yourself, "I have lived through this horror. I can take the next thing that comes along." You must do the thing you...

Clinical Behavioral Medicine: Some Concepts and Procedures - Page 209
by Ian E. Wickramasekera - Medical - 1991

You Are Not Your Illness: Seven Principles for Meeting the Challenge - Page 75
by Linda Noble Topf, Hal Zina Bennett - Medical - 1995 - 256 pages

Simon & Schuster Crostics 116
by Thomas H. Middleton - Games - 1996 - 64 pages

Get out of your own way: overcoming self-defeating behavior - Page 148
by Mark Goulston, Philip Goldberg - Psychology - 1996 - 177 pages

You learn by living - Page 29
by Eleanor Roosevelt - 1983 - 211 pages
Limited preview - About this book
Development and Metamorphosis

either the germinal or the food part of the eggs. There seems to exist no
difference among these cells at first, but soon certain ones begin to
move slowly down through the egg-tube in single file, each becoming
surrounded and enclosed by yolk, i.e., reserve foodstuff. This gathering
of yolk increases the size of the forming eggs, so that they appear as a short
string of beads of varying size enclosed in the elastic egg-tube. When of
considerable size each egg is lowered end of the tube becomes enclosed.
Linnanieni, Zur Kenntnis der Blattminierer Finnlands.

GanzenscheintjedochdieAnzahlderFamilien,indenen
Blattminierernachkommen,nichtunbedeutendergeringerzu
sein,alsdieAnzahlderLepidopteren.Allegehörenzuden
Cyclorrhapha.SowiedmirausderLiteraturbekanntist,
kommenBlattminierernurinfolgendenFamilienvor,nämlich:
Anthomyidae(Pegomyia,Chortophila,?Coenosia),
Scatonymzidae(Paralleolomatia),?Borboridae(?Limosina),Trype-
tidae(Acida,Spilographa,Oxyna,Tephriths),Chloropidae
(Merozyza,Chlorops,Grassseta),Ephrideridae(Hydrellia,
Drosophilidae,Scatonymza,Agromyza,Ceratomyza,
Phyto-
myza).

Esbrauchtkaumhervorgehobenzuwider,ddass
in denaufgezähltenFamilienundGattungendieLebens-
weise der Larve erst für einen geringen Teil der
bekanntenArtenfestgestelltist,sowie dassind den meisten
dieLebensweisefürdieverschiedenenArtenrechtoft
verschiedenist.

DieGattungenAgromyzazundPhytozyzumfassenmehr
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Davonkommenwohlnativmindestens100auchbeiunsvor——so
wirdsichanschliessendanhandderBlattminierer

Additional Access Mechanisms for HathiTrust

HathiTrust provides a baseline of access tools for content in the repository and works with participating libraries to define, prioritize, and develop other tools and services. Additionally, HathiTrust works to elaborate an open service definition to make it possible for participating libraries to develop other secure access mechanisms.

Access mechanisms for content in the repository currently include:

Global searching

Development of full-text searching capabilities for large portions (and possibly all) of the Repository is underway. You can read about our progress at http://www.hathitrust.org/technical_reports/Large-Scale-Search.pdf and in the Update on November Activities. A new HathiTrust Search Beta is also available. The search beta indexes approximately 500,000 volumes, including all public domain works (which are fully viewable) and a sample of search-only volumes.

Page turner

Individual volumes (when confirmed to be in the public domain) can be viewed and searched through a page turner. Pages are rendered as native browser files and PDFs; OCR is also viewable when the work is in the public domain.

Collection builder

A Collection Builder provides the ability for end-users and collection development staff to create and “publish” virtual collections of volumes held in the repository. A UM-specific version was released in mid-2008. Generalization (e.g., ties into non-UM authentication mechanisms) will be specified in conjunction with participating libraries.

Access mechanisms for users with print disabilities

The University of Michigan has developed and is testing a mechanism to support additional access for users with print disabilities. HathiTrust will work with participating libraries to design and implement a generalized version (i.e., a version that works with multiple institutions) of these mechanisms.
Print-on-demand
All of recorded human knowledge...
# Estimated Net Sales

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</tr>
<tr>
<td>EI/Hi (K-12 Education)</td>
<td>5,795,044</td>
<td>5,939,920</td>
<td>2.5%</td>
<td>5,945,860</td>
<td>0.1%</td>
<td>6,570,175</td>
<td>10.5%</td>
<td>6,189,105</td>
<td>-5.6%</td>
<td>6,356,211</td>
<td>2.7%</td>
<td>6,076,538</td>
<td>-4.4%</td>
<td>0.8%</td>
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<tr>
<td>Higher Education</td>
<td>3,025,029</td>
<td>3,133,930</td>
<td>3.6%</td>
<td>3,190,341</td>
<td>1.8%</td>
<td>3,359,429</td>
<td>5.3%</td>
<td>3,453,493</td>
<td>2.8%</td>
<td>3,677,970</td>
<td>6.5%</td>
<td>3,777,275</td>
<td>2.7%</td>
<td>3.8%</td>
<td></td>
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<tr>
<td>All Other</td>
<td>136,488</td>
<td>153,932</td>
<td>12.8%</td>
<td>161,629</td>
<td>5.0%</td>
<td>158,558</td>
<td>-1.9%</td>
<td>140,641</td>
<td>-11.3%</td>
<td>115,165</td>
<td>-18.1%</td>
<td>168,976</td>
<td>46.7%</td>
<td>3.6%</td>
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<tr>
<td><strong>Total</strong></td>
<td>22,032,580</td>
<td>22,357,578</td>
<td>1.5%</td>
<td>23,005,994</td>
<td>2.9%</td>
<td>24,262,898</td>
<td>5.5%</td>
<td>24,196,809</td>
<td>-0.3%</td>
<td>24,959,573</td>
<td>3.2%</td>
<td>24,255,025</td>
<td>-2.8%</td>
<td>-1.6%</td>
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</tbody>
</table>

*Courtesy of Management Practice, Inc.*
“We can think, then, of cyberinfrastructure as a shared layer that supports multiple disciplines, activities, and scholars and that offers a platform for new kinds of scholarship and inquiry.”

Amy Friedlander "Cyberinfrastructure: It’s All about Sharing" CLIR
“if infrastructure is required for an industrial economy, then we could say that cyberinfrastructure is required for a knowledge economy.”

Report of the National Science Foundation Blue-Ribbon Advisory Panel on Cyberinfrastructure, 2003
http://www.nsf.gov/od/oci/reports/toc.jsp
1. Technology
2. Funding
3. Copyright law
4. Flexibility
No such obstacles....

GOOGLE BOOK SEARCH
• Scan everything under Fair Use for INDEX & SEARCH
• Rights holders can opt OUT
• Lawsuit: AG & AAP
• No decision on Fair Use
• One time payment
• Released from liability - 7 million books scanned
• Fee-based access services (read on Google)
• Book Rights Registry
• Research corpus

75%: Out-of-print, in copyright books
20%: public domain
5%: in print, in copyright
Official Responses to date

- **LIBRARY**
  - ALA Washington/ARL/ACRL : Amicus Brief

- **LAW SCHOOLS**
  - NYU, Columbia, Georgetown, Samuelson, Harvard

- **OTHERS**
  - Internet Archive
GBS Settlement criticism (distilled)

1. Class action nature of the settlement
2. Orphan Works legislation
3. Most-favored nation status
1. Class Action

- Class action: Remedy for past wrong
- Legislation: public policy; forward-looking
  - Provides privately-legislated set of rules for one company
  - No public input; no legislative inquiries
  - Goes way beyond the issue of index & search
  - Reshapes the entire book industry
  - Will private settlement influence future legislation?
“There’s a class here that consists of all people who don’t realize they’re part of it.”

James Grimmelman

http://laboratorium.net/archive/2009/03/14/google_and_the_zombie_army_of_orphans
2. Orphan Works

- By definition, probably won’t respond
- Estimated 88% orphans and 12% “active authors”
- Active authors get the $$$ from the BRR
- Only Google can integrate orphan content into other services
- Only Google reaps $$$ from ad revenue
“The orphans have become zombies...raised from the dead by the dark magic of a class action, turned into a shambling army under Google’s sole control...” James Grimmelman NY Law
3. Most Favored Nation clause 3.8a

Settlement is non-exclusive, BUT:

- BRR cannot give better terms to others
- No incentive for publishers & authors to do more deals
- BRR can license “active authors” to others but maintains orphans as copyrighted works
“If we can’t call it a monopoly, then let’s just say it is a hegemonic legally unassailable superpower with no competitors“

Robert Darnton
Cocaine pricing

Database Access!
SAN FRANCISCO — In a move that could blunt some of the criticism of Google for its settlement of a lawsuit over its book-scanning project, the company signed an agreement with the University of Michigan that would give some libraries a degree of oversight over the prices Google could charge for its vast digital library.

The new agreement, which Google hopes other libraries will endorse, lets the University of Michigan object if it thinks the prices Google charges libraries for access to its digital collection are too high, a major concern of some librarians. Any pricing dispute would be resolved through arbitration.
ALA/ARL/ACRL Amicus Brief

“While this is a private settlement between Google, the Authors Guild, and the Association of American Publishers, it has a very real impact on public policy.”
1. ACCESS:
public interest; financial implications; BRR
2. PRIVACY:
Personal information; tracking; personalization
3. INTELLECTUAL FREEDOM:
Censorship: Research Corpus
4. EQUITABLE TREATMENT:
Library landscape; digital divide
5. TERMS OF USE:
Digital files; traditional exceptions
The Open Knowledge Commons Agenda
OKC Goals

Help create the replicable legal and financial systems needed to contribute content to the Commons

Make incremental and grand progress on obstacles (funding, legislation, technology, flexibility)
OKC AGENDA

- Program Plan 2009-2010
  1. Content Creation
  2. Content Storage & Preservation
  3. Content Discovery & Use

- Advocacy Agenda
OKC #1: Production
Welcome to the Shared Digital Future

HathiTrust is a bold idea with big plans.
As a digital repository for the nation’s great research libraries, HathiTrust (listen to pronunciation) brings together the immense collections of partner institutions.

HathiTrust was conceived as a collaboration of the thirteen universities of the Committee on Institutional Cooperation and the University of California system to establish a repository for these universities to archive and share their digitized collections. Partnership is open to all who share this grand vision.

HathiTrust is a solution.
To prospective partners, HathiTrust offers leadership and reliability.

It provides a no-worry, pain-free solution to archiving vast amounts of digital content. You can rely on the expertise of other librarians and information technologists who understand your needs and who will address the issues of servers, storage, migration, and long-term preservation.

You will shape HathiTrust.
Growing the world's largest library won't happen overnight. You've heard of other digital libraries. This one is different in concept and scale. Its greatest promise—and challenge—rests in defining how to serve researchers in the digital age. Together we will develop and refine the services needed to search and use such a large digital collection, and realize collectively our greatest potential as a library community. Together we will make HathiTrust available, to everyone, anywhere, any time. Together we will shape the future.


» Printer-friendly version
OKC #3: Tool Building
Advocacy

Orphan Works Symposium for libraries and universities

- Refocus on the orphan issue
- Highlight the obstacles posed for learning and scholarship
- Unite with commercial interests for communal goal
Thank you!

Maura Marx
maura@knowledgecommons.org
FLICKR IMAGE USE CREDITS

These photos are of the Babel Library IX exhibit in the UC Berkeley Library. Artist: Ignacio Diaz de Rabago. Info: www.rabagoarte.com

Collections | Sets | Tags | Map | Archives | Favorites
Huge tension to free up knowledge
Explosive growth of e-book industry
Top uses for e-books: research and study
No legislation for orphan works digitization
Microsoft stops funding open efforts: 2008
Google leads in scanning operations and online access to library-held collections
Public embraces less privacy and confidentiality