

Mass Digitization and Access to Books Online



**MAURA MARX
EXECUTIVE DIRECTOR
OPEN KNOWLEDGE COMMONS**

UNIVERSITY OF NOTRE DAME 2009

May 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



- LoC, ARL call for a National Digital Library: 1994

- Million Books Project: 2001





NEWS *from* The Library of Congress

Public Affairs Office
101 Independence
Avenue SE
Washington, DC
20540-1610
tel (202) 707-2905
fax (202) 707-9199
e-mail pao@loc.gov

December 2, 1994

Press contact: Guy Lamolinara (202) 707-9217

Library of Congress, Association of Research Libraries Directors Colaborate on National Digital Library

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

December 2004



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.

October 2005

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.



Peter DaSilva for the New York Times
From left, David Mandelbrot of
Yahoo; Daniel Greenstein, a digital

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.

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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: [srlf_ucla:LAGE-4017487](#)

Digitizing sponsor: [MSN](#)

Book contributor: [University of California Libraries](#)

Collection: [americana](#); [cdl](#)

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Reviews

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austriaaustrians00blum_abbyy.gz	2007-Dec-21 18:23:37	5.3M	application/octet-stream
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austriaaustrians00blum_dc.xml	2007-Dec-21 02:42:59	0.4K	application/xml
austriaaustrians00blum_djvu.txt	2007-Dec-22 00:59:53	359.5K	text/plain
austriaaustrians00blum_djvu.xml	2007-Dec-21 18:31:02	2.9M	application/xml
austriaaustrians00blum_files.xml	2008-Nov-16 12:25:04	5.0K	application/xml
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austriaaustrians00blum_lib_jp2.zip	2007-Dec-21 15:05:17	80.0M	application/zip
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austriaaustrians00blum_meta.mrc	2007-Dec-21 02:42:59	0.5K	application/octet-stream
austriaaustrians00blum_meta.xml	2008-Nov-16 12:25:04	2.1K	application/xml
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austriaaustrians00blum_scandata.xml	2007-Dec-21 05:27:46	189.7K	application/xml
austriaaustrians00blum_scanfactors.xml	2008-Nov-16 10:25:56	4.7K	application/xml
austriaaustrians00blum_wm_jp2.zip	2007-Dec-21 15:05:15	80.0M	application/zip

A Christmas Gift
to
a Dear Child
in Memory
of
a Summer Day.

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 where 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, 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

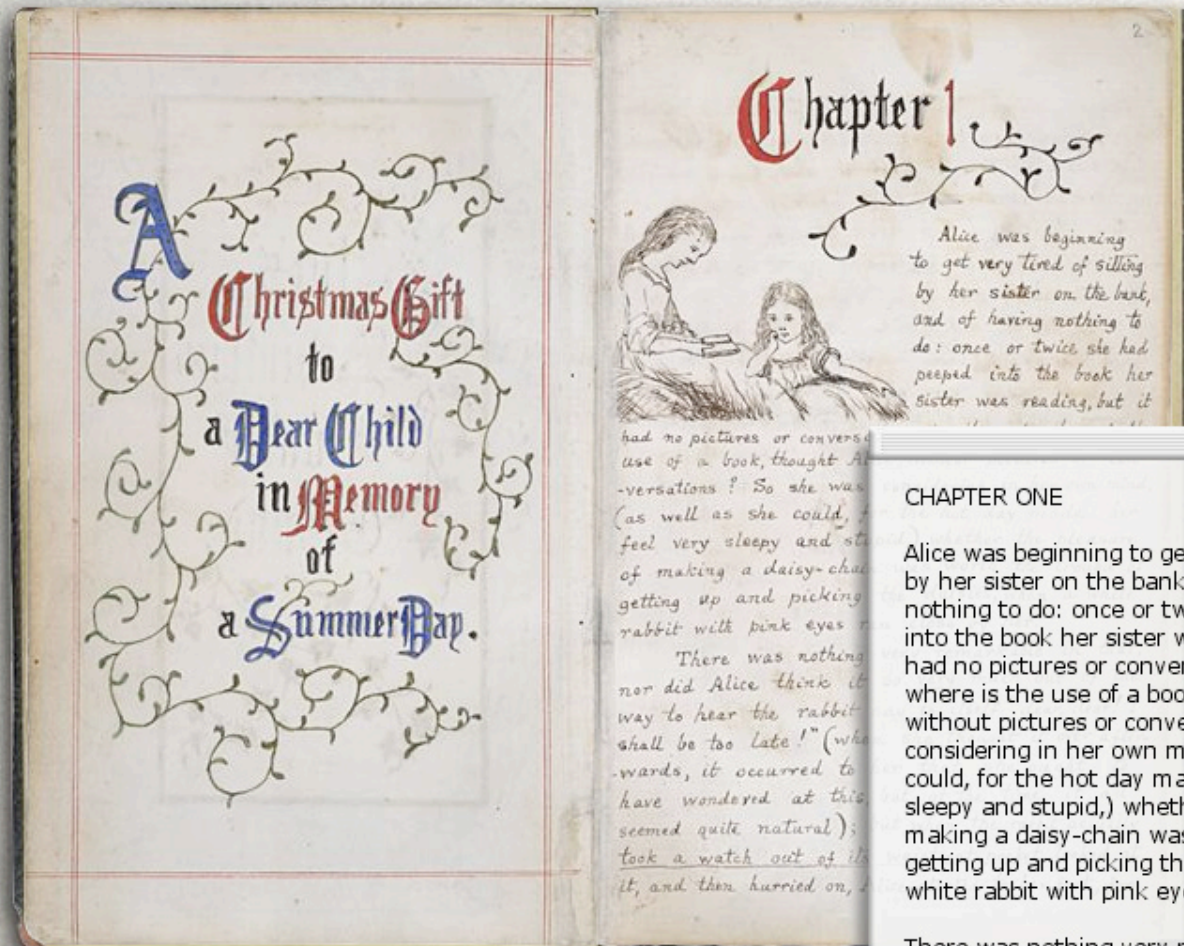


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getting on, when a white rabbit with pink eyes ran close by her.

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CHAPTER ONE

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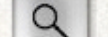
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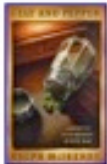


[Notre Dame: Where Have You Gone? - Page 77](#)

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**. ...

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[Celt and pepper - Page 202](#)

by Ralph McInerney - [Fiction](#) - 2002 - 240 pages

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[Simply Devine: Memoirs of a Hall of Fame Coach](#)

by Dan Devine, Mike Steele, Michael R. Steele - [Biography & Autobiography](#) - 2000 - 200 pages

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Pages  

ent. Thank you, Jo and Geri.


Diane Bratman, Coach Devine's secretary, helped as the project went forward in very distant places. John Heisler, after two decades of assistance for both of us from the Sports Information Office at **Notre Dame**, never failed to produce pertinent results when called upon—which was often.

Fathers Theodore Hesburgh and Edmund P. Joyce were extremely generous with their time and insights. They offered their considerable support in the formative stages of the project. We are both deeply indebted to them for their examples, guidance and love.

Lyn Leone has been a generous, helpful resource.

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 Devine's career and professional responsibilities and practices at their respective universities.

The Athletic Directors at Arizona State, Missouri and **Notre Dame**, along with the CEO of the Green Bay Packers, graciously agreed to offer retrospective views, the pooling of which shows remarkable consistency across five decades in the life of Dan Devine. Special thanks thus go to Kevin White of ASU and **Notre Dame**, Mike Alden of Missouri, Bob Harlan of the Packers, and Mike Wadsworth of **Notre Dame**. Journalist Bob Broeg has made a great



Memoirs of the former University of Missouri and Notre Dame head football coach. Devine also served as head coach... [more »](#)

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V. Professor Locant	118

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THE UNIVERSITY OF NOTRE DAME DU LAC.

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work, the teaching of the young, to which labor they
have added the care of the sick and distressed, by serv-
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Our doubts are traitors, And make us lose the good we oft might win, By fearing to attempt. [Page 31](#)

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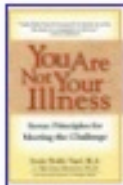


[Clinical Behavioral Medicine: Some Concepts and Procedures - Page 209](#)

by Ian E. Wickramasekera - [Medical](#) - 1991

...hurt also will pass. Or to reframe the change in the manner of Anna Eleanor Roosevelt when she said, "You gain strength, courage and confidence by every...to yourself, 'I lived through this horror. I can take the next thing that comes along. " You must do the thing you..."

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by Linda Noble Topf, Hal Zina Bennett - [Medical](#) - 1995 - 256 pages

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Cisium Citrus Clematis Coelenterata **Coleoptera** Columella **Compositae** Convolvulus Copepoda Conylus Crassostrea virginica Crataegus
Crinoidea Cruciferae **Crustacea** Cuscuta Cyperaceae Cyperus Decapoda Dianthus **Diptera** Draba Drosera Drosophila Dryopteris
Echinodermata Echinoidea Echinus Epilobium Equisetum Ericaceae Eucalyptus **Euphorbia** Euphorbiaceae Fagus Festuca Flos Foraminifera Fossile Fraxinus
Fructus Fucus Fundulus Galium **Gastropoda** Gentiana Gouan **Gramineae** Grevillea **Hemiptera** Hepaticae Hexapoda Hibiscus
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Lecanora Lecoidea Legumen **Leguminosae** **Lepidoptera** Liliaceae Lilium Linaria **Linnaea** Lobelia Lonicera Malpighia Malvaceae
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Development and Metamorphosis

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either the germinal or the food part of the eggs. There seems to exist no differentiation 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 in the lower end of the tube becomes enclosed

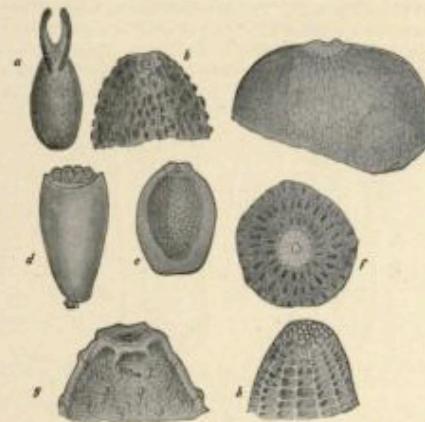
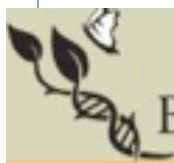


FIG. 67.—Insect eggs and parts of eggs, showing micropyle. a, egg of *Drosophila celaria*; b, upper pole of egg of robber-fly, *Asilus crabroformis*; c, upper pole of egg of hawk-moth, *Sphinx populi*; d, egg of head-lice, *Pediculus capitis*; e, egg of dragon-fly, *Libellula depressa*; f, upper surface of egg of harpy-moth, *Harpyia simulia*; g, upper pole of egg of *Hammalicherus cerdo*; h, upper pole of egg of sulphur-butterfly, *Calias hyale*. (After Leuckart; much enlarged.)

in two envelopes, a membranous inner one (yolk or vitelline membrane) and an outer horny one, the chorion or egg-shell. But both of these envelopes are pierced at one pole by a tiny opening, the micropyle (Fig. 67), and through this opening the fertilizing spermatozoa enter the egg from the seminal receptacle just before the egg is extruded from the body.

The development of the embryo within the egg is also securely sealed away from the eyes of most amateurs. The study of insect embryology requires a knowledge of microscopic technic, and facilities for fixing and



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Names on this page

[Acidia](#)
[Agromyza](#)
[Anthomyidae](#)
[Aphanisticus](#)
[Borboridae](#)
[Buprestidae](#)
[Ceratomyza](#)
[Ceutorrhynchus](#)
[Chloropidae](#)
[Chlorops](#)

Acta Soc. pro Fauna et Flora Fennica.

v. 37 (1912-1913) [Download/About this book](#) 26 *Liananiemi, Zur Kenntniss der Blattminierer Finnlands.*

Ganzen scheint jedoch die Anzahl der Familien, in denen Blattminierer vorkommen, nicht unbedeutend geringer zu sein, als die Anzahl der Lepidopteren. Alle gehören zu den *Cyclorrhapha*. So weit mir aus der Litteratur bekannt ist, kommen Blattminierer nur in folgenden Familien vor, nämlich: *Anthomyidae* (*Pegomyia*, *Chortophila*, ?*Coenosia*), *Scatomyzidae* (*Parallelomma*), ?*Borboridae* (?*Limosina*), *Trypetidae* (*Acidia*, *Spilographa*, *Oxyna*, *Tephritis*), *Chloropidae* (*Meromyza*, *Chlorops*, *Crassiseta*), *Ephydridae* (*Hydrellia*, *Drosophila*, *Scaptomyza*, *Agromyza*, *Ceratomyza*, *Phytomyza*). Es braucht kaum hervorgehoben zu werden, dass in den aufgezählten Familien und Gattungen die Lebensweise der Larve erst für einen geringen Teil der bekannten Arten festgestellt ist, sowie dass in den meisten die Lebensweise für die verschiedenen Arten recht oft verschieden ist.

Die Gattungen *Agromyza* und *Phytomyza* umfassen mehr als $\frac{2}{3}$ von allen bisher bekannten Dipterenminierern. Die ganze Anzahl zur Zeit bekannter europäischer Blattminierer in dieser Ordnung dürfte sich höchstens auf ca 150 belaufen. Davon kommen wohl mindestens 100 auch bei uns vor — so

Shared repository & services



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

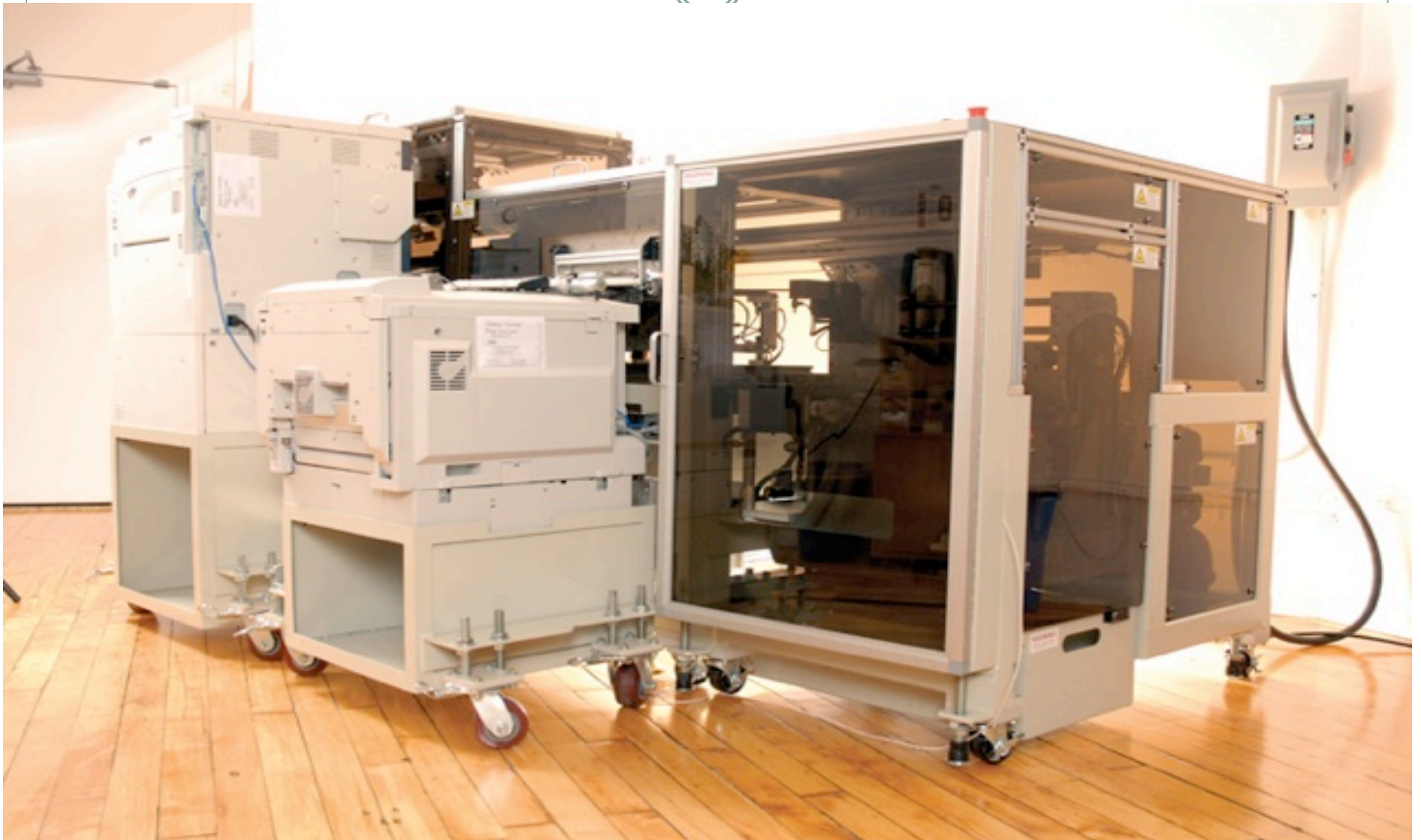
The University of Michigan has developed and is testing a mechanism to support additional access for users with print disabilities. HathiTrust will work with participating libraries to design and implement a generalized version (i.e., a version that works with multiple institutions) of these mechanisms.

**There's an
elephant in
the library.**

www.hathitrust.org



Print-on-demand



All of recorded human knowledge...





A photograph of three children standing behind a white sign for a lemonade stand. The sign has the word "LEMONADE" in large, yellow, bubbly letters with a red outline at the top. At the bottom, it says "~~5¢~~ FREE" in the same style. The children, two boys and one girl, are smiling. The boy on the left is wearing a blue and white "SLAM" jersey. The girl in the middle is wearing a colorful floral dress. The boy on the right is wearing a white t-shirt with a graphic. They are outdoors on a grassy area with a pink umbrella and trees in the background.

LEMONADE

~~5¢~~ FREE

NEW BUSINESS MODELS

E-Book growth



Estimated Net Sales

	2002 Census	2003		2004		2005		2006		2007		2008		Compound Growth Rate 2002-2008
		\$	% Change	\$	% Change	\$	% Change	\$	% Change	\$	% Change	\$	% Change	
Trade (Total)	7,144,188	6,872,190	-3.8%	7,504,458	9.2%	8,043,471	7.2%	8,274,103	2.9%	8,525,932	3.0%	8,079,423	-5.2%	2.1%
Adult Hardbound	2,371,553	2,314,636	-2.4%	2,460,458	6.3%	2,495,175	1.4%	2,597,477	4.1%	2,800,080	7.8%	2,436,070	-13.0%	0.4%
Adult Paperbound	1,876,620	1,865,360	-0.6%	1,917,590	2.8%	2,099,167	9.5%	2,277,618	8.5%	2,282,173	0.2%	2,364,331	3.6%	3.9%
Juvenile Hardbound	1,636,248	1,484,077	-9.3%	1,902,587	28.2%	2,100,456	10.4%	2,058,447	-2.0%	2,048,155	-0.5%	1,794,184	-12.4%	1.5%
Juvenile Paperbound	1,259,767	1,208,117	-4.1%	1,223,823	1.3%	1,348,653	10.2%	1,340,561	-0.6%	1,395,524	4.1%	1,484,838	6.4%	2.8%
Book Clubs & Mail Order	852,384	775,669	-9.0%	706,634	-8.9%	659,290	-6.7%	639,511	-3.0%	621,605	-2.8%	600,470	-3.4%	-5.7%
Mass Market Paperback	1,216,710	1,196,026	-1.7%	1,089,580	-8.9%	1,091,759	0.2%	1,141,980	4.6%	1,119,140	-2.0%	1,085,566	-3.0%	-1.9%
Audiobooks	143,410	161,049	12.3%	159,922	-0.7%	206,299	29.0%	182,162	-11.7%	218,230	19.8%	172,402	-21.0%	3.1%
Religious	556,799	836,312	50.2%	883,145	5.6%	829,273	-6.1%	744,687	-10.2%	783,411	5.2%	723,872	-7.6%	4.5%
E-books	7,337	19,772	169.5%	30,271	53.1%	43,832	44.8%	54,396	24.1%	67,233	23.6%	113,220	68.4%	57.8%
Professional	3,155,191	3,268,778	3.6%	3,334,154	2.0%	3,300,812	-1.0%	3,376,731	2.3%	3,474,656	2.9%	3,457,283	-0.5%	1.5%
El-Hi (K-12 Education)	5,795,044	5,939,920	2.5%	5,945,860	0.1%	6,570,175	10.5%	6,189,105	-5.8%	6,356,211	2.7%	6,076,538	-4.4%	0.8%
Higher Education	3,025,029	3,133,930	3.6%	3,190,341	1.8%	3,359,429	5.3%	3,453,493	2.8%	3,677,970	6.5%	3,777,275	2.7%	3.8%
All Other	136,488	153,932	12.8%	161,629	5.0%	158,558	-1.9%	140,641	-11.3%	115,185	-18.1%	168,976	46.7%	3.6%
Total	22,032,580	22,357,578	1.5%	23,005,994	2.9%	24,262,898	5.5%	24,196,809	-0.3%	24,959,573	3.2%	24,255,025	-2.8%	1.6%

Courtesy of Management Practice, Inc.

Cyberinfrastructure



“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

More cyberinfrastructure



“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>

[Obstacles]



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



Google Book Search Settlement Agreement

- 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



THE BRIGHT SIDE



DOMINANCE

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?

Class Action - Orphans



“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](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

MFN...



“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



Google Book-Scanning Pact to Give Libraries Input on Price

By MIGUEL HELFT

Published: May 20, 2009

 SIGN UP TO

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.

LIBRARY RESPONSE



- 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:

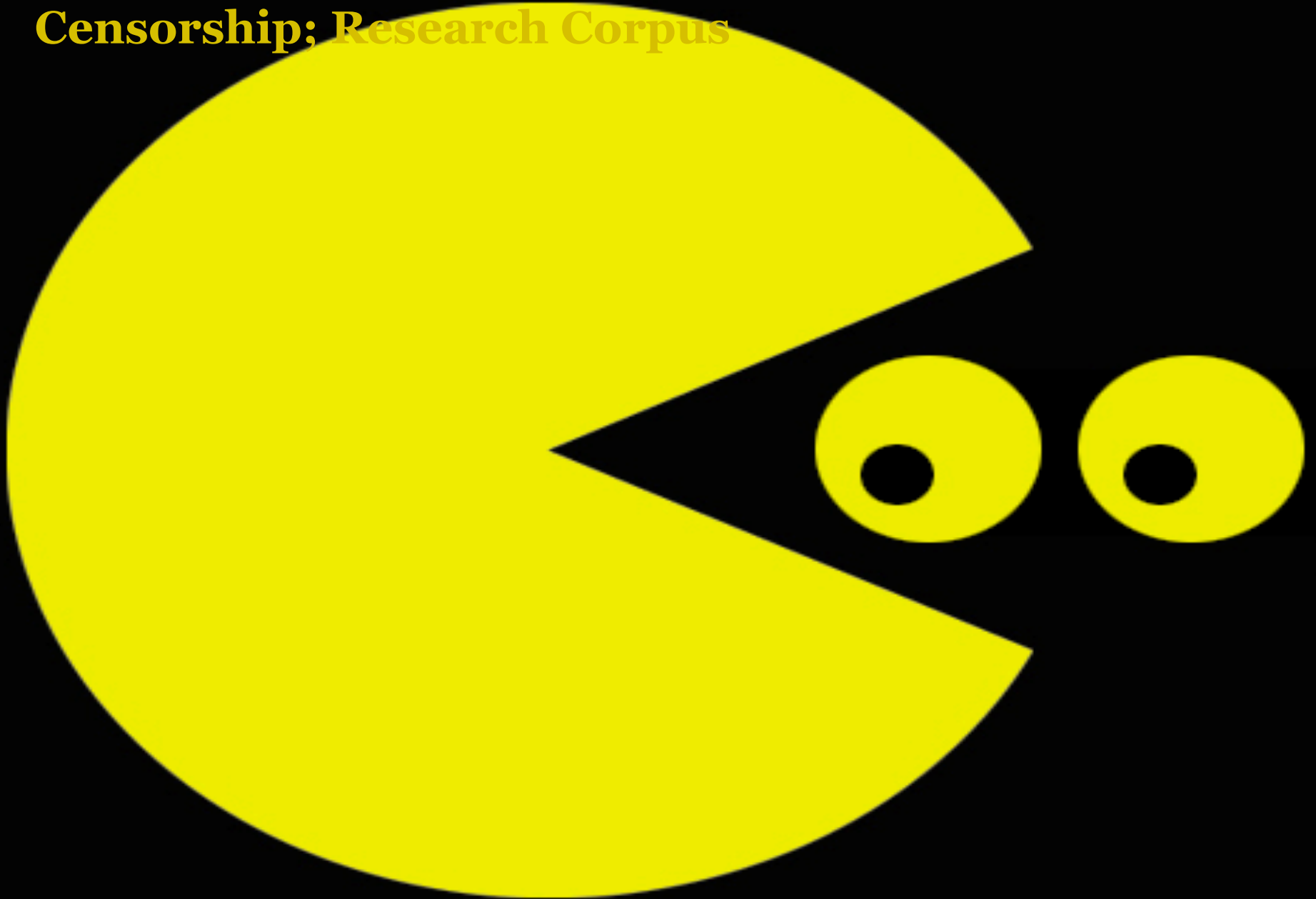
Personal information; tracking; personalization

iedereen heeft recht op privacy



3. INTELLECTUAL FREEDOM:

Censorship; Research Corpus



4. EQUITABLE TREATMENT:

Library landscape; digital divide





5. TERMS OF USE:

Digital files;
traditional
exceptions

Knowledge Commons



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



OKC #2: Preservation



HATHI TRUST
a shared digital repository

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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.

Bold idea. Big plan. [Join HathiTrust.](#)

» [Printer-friendly version](#)

November Activities

- [Indiana and Michigan Sites Synchronized](#) 
- [Report on Large-Scale Search Benchmarking](#)
- [Preliminary Development API](#)
- [New Growth](#)
- [December Forecast](#)

[Read the full update >>](#)


Currently Digitized

2,460,672 volumes
861,235,200 pages
92 terabytes
29 miles
1,999 tons
371,558 volumes (~15% of total)
in the public domain

[Statistics info >>](#)

OKC #3: Tool Building





WIKIPEDIA
The Free Encyclopedia

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Hajj

From Wikipedia, the free encyclopedia
(Redirected from [Haj](#))

For other uses, see [Hajj \(disambiguation\)](#).

The **Hajj** (**Arabic:** حج *Ḥaǧǧ*) is a pilgrimage to [Mecca](#) (Makkah Mekar). It is the largest annual pilgrimage in the world,^[1] and is the fifth pillar of [Islam](#), an obligation that must be carried out at least once in their lifetime by every able-bodied [Muslim](#) who can afford to do so. The Hajj is a demonstration of the solidarity of the Muslim people, and their submission to [Allah](#)(God).^[2] The pilgrimage occurs from the 7th to 10th day of [Dhu al-Hijjah](#), the 12th month of the [Islamic calendar](#). Because the Islamic calendar is a [lunar calendar](#), eleven days shorter than the [Gregorian calendar](#) used in the Western world, the Gregorian date of the Hajj changes from year to year. In 2007, the Hajj was from December 17–21; in 2008 from December 6–10, and in 2009 will be November 25–29. Ihram is the name given to the special state in which Muslims live whilst on the pilgrimage.

The Hajj is associated with the life of [Muhammad](#) from the 7th century, but the ritual of pilgrimage to Mecca is considered by Muslims to stretch back thousands of years to the time of [Ibrahim](#) (Abraham). Pilgrims join processions of hundreds of thousands of people, who simultaneously converge on Mecca for the week of the Hajj, and perform a series of rituals: Each person walks counter-clockwise seven times about the [Kaaba](#), the cube-shaped building which acts as the Muslim direction of prayer; kisses the [Black Stone](#) in the corner of the Kaaba; runs back and forth between the hills of [Al-Safa](#) and [Al-Marwah](#); drinks from the [Zamzam Well](#); goes to the plains of [Mount Arafat](#) to stand in vigil; and throws stones in a ritual [Stoning of the Devil](#). The pilgrims then shave their heads, perform a ritual of animal sacrifice, and celebrate the three day global festival of [Eid al-Adha](#).^{[3][4][5]}



A supplicating pilgrim at [Masjid al-Haram](#), the mosque which was built around the [Kaaba](#) (the building at center). In this image of the Hajj from 2003, thousands of pilgrims are walking around the Kaaba in a counter-clockwise direction (Tawaf).

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

Open Knowledge Commons



Thank you!

Maura Marx

maura@knowledgecommons.org

FLICKR IMAGE USE CREDITS



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



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2004-2009



- 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