

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

GOOGLE LLC,
Petitioner

v.

BRODTI INC.,
Patent Owner.

Case IPR2025-00472
Patent 11,416,898 B2
Issue Date: August 16, 2022

Title: METHODS, SYSTEMS, AND APPARATUS FOR
FINANCING PROJECTS

DECLARATION OF INGRID HSIEH-YEE, PH.D.

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I, Ingrid Hsieh-Yee, declare as follows:

I. INTRODUCTION AND QUALIFICATIONS

1. I am over the age of eighteen and otherwise competent to make this declaration.

2. I have been retained by counsel for Petitioner to provide my expert opinion in connection with the above-captioned proceeding (“IPR”) regarding the public availability of certain prior art references in relation to U.S. Patent No. 11,416,898 B2 (the “’898 patent”).

3. I am being compensated for my time in connection with this IPR at my current consulting rate. I am also being reimbursed for any reasonable expenses associated with my work and testimony in this investigation. My compensation is not contingent on the results of my study, the substance of my opinions, or the outcome of this matter.

A. Qualifications and Professional Experience

4. My complete qualifications and professional experience are described in my academic curriculum vitae (**Appendix A** to this declaration). The following is a brief summary of my relevant qualifications and professional experience.

5. I was a professor in the Department of Library and Information Science at the Catholic University of America for 32 years and was conferred the title of Professor Emerita in December 2022. I have experience working in an academic

library, a medical library, and a legislative library. I hold a Ph.D. and a Masters in Library and Information Studies from the University of Wisconsin-Madison.

6. I am an expert on library cataloging and classification and have published two editions on this subject, *Organizing Audiovisual and Electronic Resources for Access: A Cataloging Guide* (2000 and 2006). I taught a variety of courses, including Cataloging and Classification, Advanced Cataloging and Classification, Organization of Internet Resources, Organization of Information, Metadata, Digital Content Creation and Management, Internet Searches and Web Design, Information Literacy Instruction, Advanced Information Retrieval and Analysis Strategies, and The Information Professions in Society. I am familiar with metadata schema design and implementation. In my teaching, I covered the design and implementation of metadata in databases, search engines, digital repositories, digital libraries, and digital archives. I also covered how information organization affects the discovery and access to digital resources on the Internet. My research interests cover cataloging and classification, information organization, metadata, information retrieval, information architecture, digital collections, scholarly communication, social media, user interaction with information systems, and others

II. BACKGROUND OF LIBRARY CATALOGING

A. Machine-Readable Cataloging (“MARC”)

7. I am very familiar with a library cataloging encoding standard known

as the “Machine-Readable Cataloging” standard, also known as “MARC,” which became the national standard for sharing bibliographic data in the United States by 1971 and the international standard by 1973. MARC is the primary communications protocol for the transfer and storage of bibliographic metadata in libraries. Experts in my field reasonably rely upon MARC records when forming their opinions.

8. A MARC record consists of several fields, each of which contains specific data about the work. Each field is identified by a standardized, unique, three-digit code corresponding to the type of data that follows. **Appendix B** is a true and correct copy of Parts VII to X of “Understanding MARC Bibliographic: Machine-Readable Cataloging” (<https://www.loc.gov/marc/umb/um07to10.html>), a brief description and tutorial published by the Library of Congress in 2009 that explains commonly used MARC fields. For example, the personal author of a work is recorded in Field 100, the title is recorded in Field 245, publisher information is recorded in Field 260, the physical volume and characteristics of a publication are recorded in Field 300, and topical subjects are recorded in Fields 650. More details of MARC21 format for Bibliographic Data are available on the Library of Congress website at <https://www.loc.gov/marc/bibliographic/>.

9. I am very familiar with library cataloging and processing practices and the relationships between OCLC (Online Computer Library Center) and library catalogs, and how libraries create and share their records to help the public discover

and access information.

10. OCLC is the largest bibliographic network of the world, and its WorldCat database contains more than 559 million records from thousands of member institutions (many of which are libraries of some type) in more than 100 countries. OCLC was founded in 1967 to promote and support library cooperation. According to the third article of the “Amended Articles of Incorporation of OCLC [Online Computer Library Center], Inc.,” OCLC was created “to establish, maintain, and operate a computerized library network and to promote the evolution of library use, of libraries themselves, and of librarianship, and to provide processes and products for the benefit of library users and libraries, including such objectives as increasing availability of library resources to individual library patrons and reducing the rate of rise of library per-unit costs, all for the fundamental public purpose of furthering ease of access to and use of the ever-expanding body of worldwide scientific, literary, and educational knowledge and information” (source: <https://www.oclc.org/content/dam/oclc/membership/articles-of-incorporation.pdf>).

11. OCLC members can contribute original cataloging records in MARC to the system or derive cataloging records from existing records, an activity referred to as “copy cataloging.” When an OCLC participating institution acquires a work, it can create an original MARC record for the work in OCLC’s Connexion system (a system for catalogers to create and share MARC records), and the system will

automatically generate a code for the date of record creation in the yymmdd format, and the creating library's OCLC symbol is recorded in subfield "a" of the 040 field. Once the MARC record is in Connexion, it becomes available to other OCLC members for adoption to their local online catalogs (*i.e.*, copy cataloging).

12. After a MARC record is created in Connexion, it also becomes searchable and viewable on WorldCat.org, which is a free web portal for users to explore more than 10,000 libraries worldwide. Records in WorldCat.org, however, are not presented in MARC fields. Instead, the data elements are labeled to help users interpret the records. Thus, the information stored in MARC records in Connexion is available to the interested public through the user-friendly WorldCat web portal. WorldCat records can also be searched on OCLC FirstSearch, a subscription-based search system that provides access to many proprietary databases, including the WorldCat database.

B. Library Online Catalogs

13. Library online catalogs gained acceptance in the early 1980s and many libraries migrated their systems to the World Wide Web in the mid-1990s. Library online catalogs are based on MARC records that represent their collections in order to help the public understand what materials are publicly accessible in those libraries. Most libraries with online catalogs have made their catalogs freely available on the Web. These online catalogs offer user-friendly search interfaces. Strong user interest

in keyword searches and the popularity of Google have led to the “googlization” of library search systems. As a result, many library catalogs nowadays provide a single search box for users to conduct keyword searches, with additional support for searches by author, title, subject terms, and other data elements such as ISBN (International Standard Book Number). Library catalogs these days also offer features for users to narrow their search results by language, year, format, and other elements. Many libraries display MARC records on their online catalogs with labels for the data elements to help the public interpret MARC records. Many libraries also offer the option to display MARC records in MARC fields.

14. Libraries create MARC records for works they acquire, including books, serials, motion pictures, and publications in other formats. Monograph cataloging is fairly common in libraries, and most libraries make a newly cataloged monograph available to the public soon after the cataloging work is completed, usually within a week. Libraries can create original cataloging records or use an existing record in the OCLC WorldCat database to create a copy cataloging record. As soon as the cataloging record is completed, it is added to the library’s online catalog for users. If the record is an original record, it is also entered into the OCLC system. If it is a copy cataloging record, the library’s holding symbol is attached to the existing original record in the OCLC system to facilitate searching and interlibrary loan.

15. I am personally familiar with many online catalogs, databases, and search engines. In preparing for this declaration, I used the following authoritative information systems to search for records:

- Google Scholar (<https://scholar.google.com/>)
- Internet Archive (<https://archive.org/>)
- Online catalog of the Library of Congress (<https://catalog.loc.gov/>)
- Online catalog of the North Carolina State University Libraries (<https://catalog.lib.ncsu.edu>)
- Online catalog of the Texas A&M University Libraries (<https://catalog.library.tamu.edu>)
- Public catalog of the US Copyright Office (<https://cocatalog.loc.gov/>)
- WorldCat.org (<https://search.worldcat.org/>)

C. Scope of this Declaration

16. I have been asked to offer an opinion on the public availability dates of the following documents:

- Zeff, R. L., & Aronson, B., Advertising on the Internet, 1999, 2nd edition, New York, NY : Wiley (“Zeff”) (**Ex. 1009** (excerpts));
- Baxley, B., Making the Web Work: Defining Effective Web Applications, 2003, 1st Edition, Indianapolis, IN : New Riders (“Baxley”) (**Ex. 1014** (excerpts)); and

- Korsh, J. F., Data Structures, Algorithms and Program Style, January, 1986, PWS Publishing Co. (“*Korsh*”) (**Ex. 1016** (excerpts)).

17. I am informed by counsel that a given reference is “published” upon a satisfactory showing that such a document has been disseminated or otherwise made publicly available to the extent that persons interested and ordinarily skilled in the subject matter or art could locate it exercising reasonable diligence and obtain the document. I have also been informed by counsel that materials available in a library constitute “printed publications” if they are catalogued and indexed according to general library practices and protocols that make the references available and accessible to members of the interested public.

18. I have been informed by counsel that the ’898 patent was filed in the United States and it claims November 12, 2004 as its earliest priority date. I have assessed public accessibility of the documents referenced above as of this claimed priority date.

19. I have been informed by counsel that the subject matter of this proceeding generally relates to advertising on the Internet.

20. I have been informed by counsel that a “person of ordinary skill in the art at the time of the invention” (POSA) is a hypothetical person who is presumed to be familiar with the relevant field and its literature at the time of the inventions. I have been informed by counsel that this hypothetical person is also a person of

ordinary creativity, capable of understanding the scientific principles and literature applicable to the pertinent field.

21. I have been informed by counsel that a person of ordinary skill in the art as of November 12, 2004 would have knowledge of the literature and have skills relating to '898 patent. I have been informed by counsel that a person of ordinary skill in the art would have possessed a bachelor's degree in electrical engineering, computer science, or similar field, with at least two years of experience in developing and implementing network-based computer systems, such as systems for sending and receiving information over the Internet and/or the Web. A person could also have qualified as a person of ordinary skill in the art with some combination of (1) more formal education (such as a master's of science degree) and less technical experience, or (2) less formal education and more technical or professional experience.

22. It is my opinion that such a person would have been actively engaged in learning about the field, possibly through formal instruction through the bibliographic resources. By at least November 12, 2004 such a person would have had access to a vast array of print and electronic resources, including at least the documents referenced below.

D. Evidence Considered in Forming My Opinion

23. In the preparation of this declaration, I have reviewed **Ex. 1009**, **Ex.**

1014, and **Ex. 1016** referenced above, and any other documents I reference herein. Each of these is a type of material that experts in my field would reasonably rely upon when forming their opinions. I provided a further description of materials I considered in **Appendix C**.

III. AUTHENTICITY AND PUBLIC AVAILABILITY OF *ZEFF* (EX. 1009).

A. Authentication

24. **Ex. 1009** is a true and correct copy of excerpts of *Advertising on the Internet*, 2nd edition, (“*Zeff*”), by R. Zeff and B. Aronson, published by Wiley in 1999, that I obtained from the Library of Congress. To ascertain the availability of *Zeff* in libraries, I researched information on library holdings on WorldCat.org, the free web portal, by searching by the book title, and a WorldCat record at <http://www.worldcat.org/oclc/1252729723> showed that Library of Congress was one of the holding libraries. After verifying the holdings information in the library’s online catalog, I obtained a copy of excerpts of this book from Library of Congress through a document vendor. This copy of *Zeff* is presented as **Ex. 1009** in this declaration.

25. Page 1 is the spine of a bound volume that shows the author and title and indicates the call number of this work is “HF 6146 .I58 Z43 1999 Copy 1” and the copy is in “CBN BRNCH GenColl” (meaning the general collection at the Cabin Branch storage facility of the Library of Congress). Page 2 is the front cover that

shows the title, authors, and edition statement. Page 3 is the title page that shows the same information as the front cover and identifies John Wiley & Sons of New York as the publisher. Page 4 is the copyright page that shows a “1999” copyright date with the authors as the copyright holders. This page also shows a “Library of Congress Cataloging-in-Publication Data” record that shows “0-471-34404-4” as the book’s ISBN (International Standard Book Number) and a number of “99-21722” that has the appearance of a Library of Congress Control Number. This page also shows a library date stamp of “Library of Congress AUG 18 1999 CIP” and a hand-written call number. Pages 5 to 12 are the table of contents that shows *Zeff* includes 14 chapters with illustrations, a section on “How to Advertise for Free or Almost Free” by Eric Ward, an appendix of “Resource Directory,” a glossary, an “About the Authors” section, and an index. Pages 14 to 21 are internal pages 38 to 41 and 108 to 111. Page 22 is the back cover that shows a Library of Congress barcode and the ISBN of *Zeff*, and indicates the companion Web site to *Zeff* at www.wiley.com/compbooks/zeff provides links to additional training and tool resources, and the publisher web site at www.wiley.com/compbooks/ includes information on Wiley publications.

26. This library copy of excerpts of *Zeff* (**Ex. 1009**) is in a condition that creates no suspicion about its authenticity. Specifically, this copy is not missing any intermediate pages in the sections included, and there are no visible alterations to the

document. Furthermore, this copy of *Zeff* is in the custody of a national library. Based on my analysis, I see no reason to question the authenticity of this scanned copy of excerpts of *Zeff* (**Ex. 1009**).

B. Library of Congress Records

27. To determine the public availability date of *Zeff*, I obtained Library of Congress records for this work. **Ex. 1009A** is a true and correct copy of the bibliographic and MARC records for *Zeff*. I personally identified, located, and obtained these records from the online catalog of the Library of Congress. They are the type of records experts in my field would reasonably rely upon when forming their opinion.

28. Pages 1 to 3 of **Ex. 1009A** are the bibliographic record that shows the authors, title, edition number, publisher, publication year, physical description, and other details of *Zeff*. It also shows the ISBN of *Zeff* is “0471344044” and the LCCN (Library of Congress Control Number) of this record is “99021722.” The authors, title, publisher, publication year, ISBN and LCCN match the information presented in **Ex. 1009**, confirming this record represents *Zeff*. The “Item Availability” area shows the call number of *Zeff* is “HF6146.I58 Z43 1999 FT MEADE Copy 2” and Copy 2 can be requested at the “Jefferson or Adams Building Reading Rooms” and its status is “Not Charged” (meaning available for user request). Copy 1 has the same call number, is stored offsite at the Cabin Branch storage facility, and is also “Not

Charged”.

29. Pages 4 and 5 are the MARC record for *Zeff*. The first six digits of Field 008 show the MARC record was created on “990217” (*i.e.*, February 17, 1999), and the “s1999” code following this record creation date indicates this publication has a single publication date of 1999. Field 955 records local cataloging activities and shows the book was received and sent to CIP ver. (meaning CIP record verification) on “08-30-99” (*i.e.*, August 30, 1999). This field also shows CIP record verification was completed on “09-14-99” (*i.e.*, September 14, 1999), and the book was sent to BCCD (Binding and Collection Care Division) on “09-15-99” (*i.e.*, September 15, 1999). Field 040 shows that “DLC” created the original record. According to the *Directory of OCLC Members* (<https://www.oclc.org/en/contacts/libraries.html>), “DLC” is the OCLC library symbol for the Library of Congress. Fields 008, 955 and 040 inform my opinion that the original MARC record was a Cataloging-in-Publication (CIP) record created before *Zeff* was published. After the book was published, Library of Congress received a copy and sent it to the CIP Program for record verification on August 30, 1999. After record verification, the book was sent to the processing unit on September 15, 1999, to prepare it for public access. A customary library practice is to process a newly cataloged monograph promptly for public access, usually within a week after the cataloging work is completed. My personal experience with the collections at the Library of Congress is that it can take

one to three months for a newly cataloged monograph to become publicly accessible. It is therefore my opinion that *Zeff* became publicly accessible at the Library of Congress no later than December 15, 1999.

30. The Cataloging in Publication Program (CIP) of the Library of Congress is responsible for cataloging books in advance of publication to alert the library community to forthcoming publications and facilitate acquisition. The initial CIP record is created based on information submitted by the publisher. When the CIP record is ready, it is sent to the publisher for inclusion in the publication. The Cataloging-in-Publication Data on the copyright page of *Zeff* (**Ex. 1009**) reflects this practice. The Library of Congress distributes CIP records in MARC format to large libraries, bibliographic services, and book vendors worldwide.

31. CIP records are also entered into OCLC Connexion system, the cataloging system, for OCLC member libraries to use it for copy cataloging and acquisition purposes. After the book is published, the publisher is obligated to send a copy to the CIP Program, and Library of Congress catalogers use the newly received publication to verify and update data in the original CIP record.

32. Field 010 of the MARC record shows the Library of Congress Control Number assigned to *Zeff* and Field 020 show the ISBN of this book. Field 100 shows the first author, Field 245 shows the title and statement of responsibility, Field 250 identifies the book as the “2nd ed.” and Field 260 shows Wiley of New York

published the book with a 1999 copyright date. Field 300 shows the book's front matter ends on page xii, the last numbered page is page 434, and the book includes illustrations. Field 500 shows "Wiley Computer Publishing" is on the title page and a second 500 field shows the book includes an index. Field 700 shows the second author is included in the MARC record to help users discover this book. The record includes two links in Fields 856 to take users to publisher's description of the book and the table of contents of *Zeff*. The authors, title, publisher, publication year, edition statement, ISBN, LCCN, physical description match the information presented in **Ex. 1009**, confirming this MARC record represents *Zeff*.

33. Subjects of this book are represented in Field 050 by a Library of Congress Classification (LCC) number of "HF6146.I58" that represents "Internet advertising" (Source: Library of Congress Classification, Schedule H at https://loc.gov/aba/publications/Archived-LCC2019/LCC_H2019TEXT.pdf) and in Field 082 by a Dewey Decimal Classification (DDC) number of "658.8/0025" representing "Management of marketing" (source: 600 Technology (Applied sciences) at <https://www.oclc.org/content/dam/oclc/webdewey/help/600.pdf>). Subjects are also represented in Fields 650 by four Library of Congress subject headings: Internet advertising, Internet advertising |v Directories ("|v" indicates a form subdivision), Internet advertising |x Computer network resources ("|x" indicates a topical subdivision), and Internet advertising |x Rates. These subject representations

enable users to conduct subject searches to discover *Zeff*.

34. This MARC record (**Ex. 1009A**) shows that a CIP record was created for *Zeff* on February 17, 1999, making it searchable in the online catalog of the Library of Congress. Interested public would have been able to conduct subject searches by the LCC number, DDC number and the Library of Congress subject headings in the MARC record to discover this book. They would also have been able to search for *Zeff* by the title, authors, ISBN, and LCCN.

35. As evidence that the Library of Congress had an online catalog in operation in 1999, I obtained a profile of the library at <https://librarytechnology.org/library/2263> from libraries.org, a directory of libraries throughout the world. I personally located, identified, and obtained this profile. This is the type of material experts in my field would reasonably rely upon when forming their opinions. This profile is presented as **Ex. 1009B** in this declaration.

36. The Technology Profile on page 2 of **Ex. 1009B** shows Library of Congress began using Voyager as its online catalog in 1998, and changed to FOLIO-EBSCO Information Services in 2023. These dates mean that as of 1999 interested users were able to use the Voyager system of the Library of Congress to search for and access *Zeff*.

C. Internet Archive Records

37. Internet Archive is a digital library that archives scholarly materials,

cultural artifacts, and other web resources on the Internet and provides free public access to its collections. I have used Internet Archive in the past and am familiar with their Wayback Machine and their practice of assigning an extended URL to an archived resource in the format of `http://www.archive.org/web/[Year in yyyy][Month in mm][Day in dd][Time code in hh:mm:ss]/[Archived URL]` to show the point of time the archived file was captured.

38. Because Internet Archive usually does not archive web resources the moment they appear on the Internet, and a web resource must be available first before it can be archived, the archive date of a file captured by the Internet Archive means that the archived file was available before, and definitely no later than, the archive date.

39. To determine the public availability of *Zeff* on the Internet, I searched Internet Archive for records. **Ex. 1009C** is a true and correct copy of the publisher's webpages for *Advertising on the Internet*, 2nd edition. I personally located, identified and obtained this webpage. They are the type of material experts in my field would reasonably rely upon when forming their opinions.

40. Page 1 of **Ex. 1009C** is a screen capture of a Wayback Machine calendar that shows the publisher's webpage for *Zeff* was captured 16 times from "26 Jan 2000" to "20 Apr 2005" and this particular copy was archived on "Feb 07 2001" and available at

<https://web.archive.org/web/20010207180311/http://www.wiley.com/compbooks/catalog/34404-4.htm>. Pages 2 and 3 are the PDF of this webpage that shows the title, edition statement, authors, a description of the book, and a note that a companion Web site at www.wiley.com/compbooks/zeff provides “links to additional training and tool resources.” Below the book cover on page 1, the webpage shows the price of this book, its ISBN, pagination (“448 pages”) and publication date (“08/02/1999”). Page 2 shows the table of contents, which matches the information presented in **Ex. 1009**. Page 3 includes a box for online ordering, making it easy for users to purchase this book on the Internet. The end of this page shows the webpage has a “1999” copyright date with John Wiley & Sons as the copyright holder.

41. **Ex. 1009C** informs my opinion that Wiley published *Zeff* on August 2, 1999, and provided a webpage to inform the public of the availability of this book and an area for users to order the book online. The extended URL of this webpage shows that it was archived on “20010207180311” (*i.e.*, February 7, 2001, at 6 p.m., 3 minutes and 11 seconds), meaning the general public would have learned about the availability of this book and its content no later than February 7, 2001, when this webpage was archived by the Internet Archive. After locating this webpage, interested users would have been able to order *Zeff* online from the publisher.

42. As evidence that Internet Archive was in operation when the publisher’s webpage for *Zeff* became available on the Internet, I obtained a Library

of Congress record on Internet Archive at <https://www.loc.gov/item/2003541624>. This record is presented as **Ex. 1009D** in this declaration. It indicates Internet Archive is a “software, e-resource” and the record summary states that “The Internet Archive” was founded [in 1996] to build an “Internet library,” with the purpose of offering permanent access for researchers, historians, and scholars to historical collections that exist in digital format.” **Ex. 1009D** shows that Internet Archive has been in operation since 1996, meaning interested users were able to use it to discover the publisher’s webpage for *Zeff* in 2001.

D. Citation Records

43. Actual usage of a publication is reflected by the papers that make reference to it. The citation history on Google Scholar shows that the first edition (1997) and second edition (1999) of *Zeff* were cited 657 times. I identified early citations to the second edition from this group of citations to compile a list of early usage. **Ex. 1009E** presents eight citations to *Zeff* and shows that early citations appeared in April, May and November of 2000, supporting my opinion that *Zeff* was publicly accessible at the Library of Congress no later than December 1999, and also accessible on the Internet no later than February 2001.

E. Summary of My Opinion on *Zeff*

44. The copy of excerpts of *Zeff* from the Library of Congress (**Ex. 1009**) is authentic because it contains no sign to raise suspicion about its authenticity, and

the copy is in the custody of a national library. The MARC record of the Library of Congress (**Ex. 1009A**) shows the library created a CIP record for *Zeff* on February 17, 1999, making this work discoverable in the online catalog of the library from that date on. After the book was published, the CIP record was verified on September 14, 1999. After that, the book was sent to the processing unit on September 15, 1999, to prepare it for public access. It is therefore my opinion that *Zeff*, after processing, would have been publicly accessible no later than December 15, 1999 at the Library of Congress. In addition, the publisher's webpage for *Zeff* was archived on February 7, 2001 by Internet Archive, meaning this webpage would have been publicly discoverable on the Internet no later than that date. Interested users would have been able to discover the webpage for *Zeff* no later than February 7, 2001, and use it to order the book online from the publisher. The earliest citation to *Zeff* was published in April 2000, further supporting my opinion that *Zeff* was publicly accessible at Library of Congress no later than December 15, 1999, and was also publicly discoverable on the Internet no later than February 7, 2001.

IV. AUTHENTICITY AND PUBLIC AVAILABILITY OF BAXLEY (EX. 1014)

A. Authentication

45. **Ex. 1014** is a true and correct copy of excerpts of *Making the Web Work: Defining Effective Web Applications*, first edition ("*Baxley*"), by B. Baxley, that I obtained from the Library of Congress. To ascertain the availability of *Baxley*

in libraries, I researched information on library holdings on WorldCat.org, the free web portal, by searching by the book title, and a WorldCat record at <https://search.worldcat.org/title/422447467> showed that Library of Congress was one of the holding libraries. After verifying the holdings information in the library's online catalog, I obtained a scanned copy of excerpts of this book from Library of Congress through a document vendor. This copy of *Baxley* is presented as **Ex. 1014** in this declaration.

46. **Ex. 1014** is a true and correct copy of excerpts of *Baxley*, including the spine, front cover, title page, copyright page, table of contents, acknowledgements, pages 234 to 241, and the back cover. Page 1 is the spine of a bound volume that identifies the author and title and indicates the call number of this work is "TK 5105.888 .B395 2002 Copy 2" and it is in "FT MEADE GenColl" (meaning the general collection at the Fort Meade storage facility of the Library of Congress). Page 2 is the front cover that shows the title, subtitle, author and publisher of this work. Page 4 is the title page that shows the same information as the front cover. Page 5 is the copyright page that shows a "2003" copyright date with New Riders Publishing as the copyright holders. This page also shows "0-7357-1196-8" as the book's ISBN (International Standard Book Number), "2001094067" as the Library of Congress Catalog Card Number, and "November 2002" as the date for the first edition. In addition, this page shows a library date stamp of "Library of Congress NOV 5 2002."

Page 6 is the dedication page that shows a hand-written call number. Pages 7 and 8 show the “Contents At a Glance” indicating *Baxley* consists of five parts, and a total of 14 chapters and an index. Pages 9 to 16 are the table of contents. Pages 17 to 24 are internal pages 234 to 241, and page 25 is the back cover that shows a Library of Congress barcode and the ISBN of *Baxley*.

47. This library copy of excerpts of *Baxley* (**Ex. 1014**) is in a condition that creates no suspicion about its authenticity. Specifically, this copy is not missing any intermediate pages in the section included, and there are no visible alterations to the document. Furthermore, this copy of *Baxley* is in the custody of a national library. Based on my review and analysis, I see no reason to question the authenticity of this scanned copy of *Baxley* (**Ex. 1014**).

B. Library of Congress Records

48. To determine the public availability date of *Baxley*, I obtained Library of Congress records for this work. **Ex. 1014A** is a true and correct copy of the bibliographic and MARC records for *Baxley*. I personally identified, located, and obtained these records from the online catalog of the Library of Congress. They are the type of records experts in my field would reasonably rely upon when forming their opinion.

49. Pages 1 and 2 of **Ex. 1014A** are the bibliographic record that shows the author, title, edition number, publisher, publication date, physical description, and

other details of *Baxley*. It also shows the ISBN of *Baxley* is “0735711968” and the LCCN (Library of Congress Control Number) of this record is “2001094067.” The author, title, publisher, publication date, ISBN and LCCN match the information presented in **Ex. 1014**, confirming this record represents *Baxley*. The “Item Availability” area shows the call number of *Baxley* is “TK5105.888 .B395 2002 FT MEADE Copy 2” and this copy can be requested at the “Jefferson or Adams Building Reading Rooms” and its status is “Not Charged” (meaning available for user request).

50. Pages 3 and 4 are the MARC record for *Baxley*. The first six digits of Field 008 show the MARC record was created on “010724” (*i.e.*, July 24, 2001), and the “s2003” code following this creation date indicates this publication has a single publication date of 2003. Field 955 records local cataloging activities and shows a pre-publication record was created on “2001-07-24” (*i.e.*, July 24, 2001), two copies were sent to ASCD (*i.e.*, the Arts and Sciences Cataloging Division) on “2003-02-04” (*i.e.*, February 4, 2003) and the cataloging work was completed on “2003-07-31” (*i.e.*, July 31, 2003). Field 040 shows that “DLC” created the original record. According to the *Directory of OCLC Members* (<https://www.oclc.org/en/contacts/libraries.html>), “DLC” is the OCLC library symbol for the Library of Congress. Fields 008, 955 and 040 inform my opinion that Library of Congress created the original MARC record for *Baxley* on July 24, 2001 before the book was published, received the book on February 4, 2003, and completed

the cataloging on July 31, 2003. A customary library practice is to process a newly cataloged monograph promptly for public access, usually within a week after the cataloging work is completed. My personal experience with the collections at the Library of Congress is that it can take one to three months for a newly cataloged monograph to become publicly accessible. It is therefore my opinion that *Baxley* became publicly accessible at the Library of Congress no later than October 31, 2003.

51. Field 010 of the MARC record shows the Library of Congress Control Number and Field 020 show the ISBN of this book. Field 100 shows the author, Field 245 shows the title, subtitle and statement of responsibility, Field 250 identifies the book as the “1st ed.” and Field 260 shows the publisher and publication year. Field 300 shows the book’s front matter ends on page xviii, the last numbered page is page 474, and the book includes illustrations. The author, title, publisher, publication date, edition statement, ISBN, LCCN, physical description match the information presented in **Ex. 1014**, confirming this MARC record represents *Baxley*.

52. Subjects of this book are represented in Field 050 by a Library of Congress Classification (LCC) number of “TK5105.888” that represents general works on World Wide Web (source: Library of Congress Classification, Schedule T, at https://www.loc.gov/aba/publications/FreeLCC/LCC_T2019TEXT.pdf), and in Field 082 by a Dewey Decimal Classification (DDC) number of “005.2/76” representing workbooks for “Programming for specific types of computer, for

specific operating systems, for specific user interfaces” (source: 000 Computer science, information, general works, at <https://www.oclc.org/content/dam/oclc/webdewey/help/000.pdf>). Subjects are also represented in Fields 650 by two Library of Congress subject headings: Web site development, and Web services. These subject representations enable users to conduct subject searches to discover *Baxley*.

53. This MARC record (**Ex. 1014A**) shows that a pre-publication record was created for *Baxley* on July 24, 2001, making this book discoverable in the online catalog of the Library of Congress. Interested public would have been able to conduct subject searches by the LCC number, DDC number and the Library of Congress subject headings in the MARC record to discover this book. They would also have been able to search for this book by the author, title, ISBN, and LCCN.

54. As evidence that Library of Congress had an online catalog in operation in 2003, I obtained a profile of the library at <https://librarytechnology.org/library/2263> from libraries.org, a directory of libraries throughout the world. I personally located, identified, and obtained this profile. It is the type of material experts in my field would reasonably rely upon when forming their opinions. This profile is presented as **Ex. 1014B** in this declaration.

55. The Technology Profile on page 2 of **Ex. 1014B** shows Library of Congress began using Voyager as its online catalog in 1998, and changed to FOLIO-

EBSCO Information Services in 2023. These dates mean that as of 2003 interested users were able to use the Voyager system of the Library of Congress to search for and access *Baxley*.

C. Copyright Registration Record

56. **Ex. 1014C** is a true and correct copy of the copyright registration record for *Baxley*. I personally located, identified, and obtained this record from the public catalog of the US Copyright Office. This is the type of record experts in my field would reasonably rely upon when forming their opinions.

57. The title, subtitle, author, edition statement, publisher, and pagination match the information presented in **Ex. 1014**, confirming this record represents *Baxley*. The Date of Publication field shows this book was published on “2002-10-23” (*i.e.*, October 23, 2002), and the Registration Number / Date field shows the book was registered with the US Copyright Office on “2002-10-24” (*i.e.*, October 24, 2002). These dates align well with the date stamp date that shows Library of Congress received *Baxley* on November 5, 2002.

D. Records of North Carolina State University Libraries

58. **Ex. 1014D** is a true and correct copy of the bibliographic and MARC records for *Baxley*. I personally located, identified, and obtained these records from the online catalog of the North Carolina State University Libraries. They are the type of records experts in my field would reasonably rely upon when forming their

opinions.

59. Pages 1 to 3 are the bibliographic record that shows the title, subtitle, author, publisher, publication year, copyright date, edition statement, language, index note, ISBN, LCCN, and physical description of *Baxley*. These details match the information presented in **Ex. 1014**, confirming this record represents *Baxley*.

60. Pages 4 to 6 are the MARC record, and the first six digits of Field 008 show the original record was created on “010724” (*i.e.*, July 24, 2001). Subfields “a” and “c” shows “DLC” created the original record and entered it into the OCLC WorldCat database. According to the Directory of OCLC Members (<https://www.oclc.org/en/contacts/libraries.html>), “DLC” is the OCLC library symbol for Library of Congress. Field 005 is a machine-generated field that automatically records the last time the MARC record was modified by the holding library, and it shows “20030731173351” (*i.e.*, July 31, 2003, at 5 p.m., 33 minutes, and 51 seconds) was the last time North Carolina State University Libraries modified this record. Fields 008, 040, and 005 inform my opinion that North Carolina State University Libraries used the MARC record created by Library of Congress for copy cataloging, and the last date they modified their copy cataloging record was July 31, 2003, meaning this record for *Baxley* would have been discoverable at this library’s online catalog no later than July 31, 2003. A customary library practice is to process a newly cataloged monograph promptly for public access, usually within a week after

the cataloging work is completed. Since record modification can take place any time after a record has been created, it is my opinion that the physical copy of *Baxley* would have been publicly accessible at this library no later than August 7, 2003.

61. Since the MARC record of the North Carolina State University Libraries (**Ex. 1014D**) is based on the Library of Congress MARC record (**Ex. 1014A**), it is logical that the copy cataloging record is nearly identical to the source record, including the same LCCN in Field 010, ISBN in Field 020, classification numbers in Field 050 and Field 082, author in Field 100, title, subtitle and statement of responsibility in Field 245, edition statement in Field 250, and subject headings in Fields 650. An important difference is **Ex. 1014D** includes summary notes in Fields 505 to show the content of *Baxley*. **Ex. 1014D** also reflects more recent cataloging practice by recording publisher information in Field 264 and including Fields 336, 337, and 338. Overall, the MARC record of the North Carolina State University Libraries (**Ex. 1014D**) enables interested users to search and access *Baxley* by subjects and by author, title, ISBN and LCCN.

62. As evidence that North Carolina State University Libraries had an online catalog in operation when *Baxley* became discoverable and accessible in 2003, I obtained a profile of this library system at <https://librarytechnology.org/library/2153> [from libraries.org](https://libraries.org), a directory of libraries throughout the world. This record is presented as **Ex. 1014E** in this declaration.

63. The Technology Profile on page 2 of **Ex. 1014E** shows North Carolina State University Libraries began using Symphony in 2002 as their online catalog and changed to Alma in 2023. These dates show that as of 2003 interested users were able to use the library system's online catalog, Symphony, to discover and access *Baxley*.

E. Records of Texas A&M University Libraries

64. To further demonstrate the public availability of *Baxley*, I obtained records from Texas A&M University Libraries. **Ex. 1014F** is a true and correct copy of the bibliographic and MARC records for *Baxley*. I personally located, identified, and obtained these records from the online catalog of the Texas A&M University Libraries. They are the type of records experts in my field would reasonably rely upon when forming their opinions.

65. Page 1 includes the bibliographic record for *Baxley* that shows the title, author, format, language, publisher, publication date, edition statement, and subjects. Pages 2 to 4 show the MARC record, and the first six digits of Field 008 show the original record was created on "020629" (*i.e.*, June 29, 2002). Subfields "a" and "c" show "UKM" created the original record, and subfield "d" shows "TXA" modified the original record. According to the Directory of OCLC Members (<https://www.oclc.org/en/contacts/libraries.html>), "UKM" is the OCLC library symbol for the British Library, and "TXA" is the OCLC library symbol for Texas A&M University Libraries. Fields 008 and 040 inform my opinion that Texas A&M

University Libraries used the original record created by the British Library to create their copy cataloging record. Field 948 shows their copy cataloging work was completed on “2003/1/10” (*i.e.*, January 10, 2003), meaning *Baxley* became discoverable in their online catalog from that date on. After processing, the physical copy of *Baxley* would become publicly accessible no later than January 17, 2003, at this library system.

66. The MARC record of Texas A&M University Libraries (**Ex. 1014F**) was based on a British Library record, instead of a Library of Congress record. Nevertheless, it includes the same ISBN (Field 020), author (Field 100), title (Field 245), edition statement (Field 250), publisher information (Field 264), physical description, Library of Congress classification number (Field 090), and Library of Congress subject heading (Field 650) as the Library of Congress MARC record (**Ex. 1014A**). **Ex. 1014F** has made *Baxley* discoverable and accessible at Texas A&M University Libraries since January 2003. Interested users have been able to search for this work by ISBN, author, title, Library of Congress classification number, and Library of Congress subject heading. The differences between **Ex. 1014F** and **Ex. 1014A** are mainly due to the fact that **Ex. 1014F** has been updated to reflect more recent cataloging practice.

67. As evidence that Texas A&M University Libraries had an online catalog in operation in 2003, I obtained a profile of this library system at

<https://librarytechnology.org/library/2088> from libraries.org, a directory of libraries throughout the world. This record is presented as **Ex. 1014G** in this declaration.

68. The Technology Profile on page 2 of **Ex. 1014G** shows this library system began using Voyager as their online catalog in 2000, and changed to FOLIO in 2022. These dates mean that as of 2003 interested users were able to use Voyager at this library system to discover and access *Baxley*.

F. Reviews of *Baxley*

69. Book reviews provide useful data on when a book became publicly available. **Ex. 1014H** is a true and correct copy of a review of *Baxley* posted on “December 9, 2002” on “Boxes and Arrows” by Jeff Lash, and a copy of this review archived on December 21, 2002, on Internet Archive. I personally located, identified, and obtained these records on the Internet. These are the type of records experts in my field would reasonably rely upon when forming their opinions.

70. Pages 1 to 5 reviews *Baxley*. Page 6 provides a link for users to read a sample chapter, and includes title, author, publisher, publication year, ISBN and pagination of this book that matches the information presented in **Ex. 1014**. Page 9 shows a comment to the review was posted on December 12, 2002.

71. Page 10 is a screen capture of a Wayback Machine calendar that shows this review by Jeff Lash was archived 27 times between “21 Dec 2002” and “5 Jul 2008” and this particular copy was archived on “DEC 21 2002” and available at

https://web.archive.org/web/20021221121831/http://www.boxesandarrows.com/archives/making_the_web_work_designing_effective_web_applications.php. The

archive date of “20021221121831” means this review was archived on December 21, 2002 at 12 p.m., 18 minutes and 31 seconds. **Ex. 1014H** informs my opinion that this review of *Baxley* was available on the Internet on December 9, 2002, and since December 21, 2002, this review has been available on Internet Archive. These dates show that interested users would have known about *Baxley* as early as December 9, 2002, and no later than December 21, 2002, on the Internet.

72. **Ex. 1014I** is a true and correct copy of an Amazon webpage for *Baxley* with reader reviews that I obtained from Amazon.com. Pages 1 to 3 presents information on *Baxley* and shows this webpage is about the first edition of this book that has an ISBN of “0735711968.” Pages 4 to 13 are reader reviews posted from 2002 to 2019, and the earliest review was posted on December 17, 2002, followed by two reviews published in February and November of 2003. These reviews inform my opinion that interested users were able to access *Baxley* by December 2002.

G. Summary of My Opinion on *Baxley*

73. The copy of excerpts of *Baxley* obtained from Library of Congress (**Ex. 1014**) is authentic because it contains no signs to raise suspicion about its authenticity, and this copy of *Baxley* is in the custody of a national library. The Library of Congress MARC record for *Baxley* (**Ex. 1014A**) shows a CIP record was

created on July 24, 2001, making this book discoverable from that date on in the online catalog of the library. The copyright registration record (**Ex. 1014C**) shows *Baxley* was published on October 23, 2002, and the MARC record (**Ex. 1014A**) shows the CIP record was verified on July 31, 2003. After processing, *Baxley* would become publicly accessible at Library of Congress no later than October 31, 2003.

74. The MARC record of the North Carolina State University Libraries (**Ex. 1014D**) shows that it is a copy cataloging record based on the Library of Congress MARC record (**Ex. 1014A**), and the copy cataloging record was last modified on July 31, 2003, making *Baxley* discoverable and accessible at this library system no later than July 31, 2003.

75. The MARC record of the Texas A&M University Libraries (**Ex. 1014F**) shows that the library system used a British Library MARC record to complete their copy cataloging record on January 10, 2003, making *Baxley* discoverable from that date on in their online catalog. After processing, their physical copy would become publicly accessible no later than January 17, 2003.

76. The earliest review of *Baxley* was posted on the Internet on December 9, 2002, and this review was archived on December 21, 2002, by Internet Archive (**Ex. 1014H**). These dates inform my opinion that information on *Baxley* was discoverable in December 2002 for interested users to obtain a copy of this book. Reader reviews on the Amazon webpage for *Baxley* (**Ex. 1014I**) show that the earliest

review was posted on December 17, 2002, followed by two reviews in 2003.

77. Based on the documents and records I have reviewed and analyzed, it is my opinion that *Baxley* was publicly available in January 2003 at the Texas A&M University Libraries, was publicly available by July 31, 2003 at the North Carolina State University Libraries, and was also publicly available by October 31, 2003 at the Library of Congress. Reviews in fact show that users were able to access this book in 2002 and post reviews in December 2002.

V. AUTHENTICITY AND PUBLIC AVAILABILITY OF *KORSH* (EX. 1016)

A. Authentication

78. **Ex. 1016** is a true and correct copy of excerpts of *Data Structures, Algorithms and Program Style*, (“*Korsh*”), by J. F. Korsh that I obtained from the Library of Congress. To ascertain the availability of *Korsh* in libraries, I researched information on library holdings on WorldCat.org, the free web portal, by searching by the book title, and a WorldCat record at <https://search.worldcat.org/title/12313110> showed that Library of Congress was one of the holding libraries. After verifying the holdings information in the library’s online catalog, I obtained a copy of excerpts of this book from Library of Congress through a document vendor. This copy of *Korsh* is presented as **Ex. 1016** in this declaration.

79. **Ex. 1016** is a true and correct copy of excerpts of *Korsh*. Page 1 shows

the front cover that shows the title and author, the spine with a call number label of “QA 76.9 . D35 K67 1986” and a label of “FT MEADE GenColl” that indicates this book is in the general collection of the Fort Meade storage facility. Page 2 is the title page that shows the title, author, and PWS Computer Science of Boston as the publisher. Page 3 is the copyright page that shows a date stamp of “Library of Congress FEB 3 1986 CIP” and a hand-written call number. It also shows a “1986” copyright date with the publisher as the copyright holder. This page also shows a “Library of Congress Cataloging-in-Publication Data” record and the ISBN of this book. Page 4 is the Preface that shows a hand-written annotation of “6-28-85” (*i.e.*, June 28, 1985) as the date for the CIP record, and “3-18-86” (*i.e.*, March 18, 1986) as the date for record completion. Pages 6 to 13 are the table of contents that shows *Korsh* has 12 chapters, a bibliography, and an index. Pages 14 to 16 are internal pages 110 to 112. Page 17 shows the back cover that shows a Library of Congress barcode and an ISBN of “087150-936-9.”

80. This library copy of excerpts of *Korsh* (**Ex. 1016**) is in a condition that creates no suspicion about its authenticity. Specifically, this copy is not missing any intermediate pages in the section included, and there are no visible alterations to the document. Furthermore, this copy of *Korsh* is in the custody of a national library. Based on my review and analysis, I see no reason to question the authenticity of this copy of *Korsh* (**Ex. 1016**).

B. Library of Congress Records

81. To determine the public availability date of *Korsh*, I obtained Library of Congress records for this work. **Ex. 1016A** is a true and correct copy of the bibliographic and MARC records for *Korsh*. I personally identified, located, and obtained these records from the online catalog of the Library of Congress. They are the type of records experts in my field would reasonably rely upon when forming their opinion.

82. Pages 1 and 2 of **Ex. 1016A** are the bibliographic record that shows the author, title, publisher, publication year, physical description, and other details of *Korsh*. It also shows the ISBN of *Korsh* is “0871509369” and the LCCN (Library of Congress Control Number) of this record is “85016873.” The author, title, publisher, publication date, ISBN and LCCN match the information presented in **Ex. 1016**, confirming this record represents *Korsh*. The “Item Availability” area shows the call number of *Korsh* is “QA76.9.D35 K67 1986 LANDOVR” for copy 1, and this copy can be requested at the “Jefferson or Adams Building Reading Rooms” and its status is “Not Charged” (meaning available for user request).

83. Pages 3 and 4 are the MARC record for *Korsh*. The first six digits of Field 008 show the MARC record was created on “850709” (*i.e.*, July 9, 1985), and the “s1986” code following this record creation date indicates this publication has a single publication date of 1986. Field 040 shows that “DLC” created the original

record. According to the *Directory of OCLC Members* (<https://www.oclc.org/en/contacts/libraries.html>), “DLC” is the OCLC library symbol for the Library of Congress. Field 005 is a machine-generated field that records the last time when the record was modified by the library, and it shows the last record modification date was “19870402000000” (*i.e.*, April 2, 1987). Fields 008, 040, and 005 inform my opinion that Library of Congress created a Cataloging-in-Publication record for *Korsh* on July 9, 1985 before the book was published, and the last time the library modified the MARC record was April 2, 1987. It is useful to keep in mind that existing library records can be modified for any number of reasons, such as correcting a typo, so the last record modification date means the library record was in the library system no later than that date.

84. Field 010 of the MARC record shows the Library of Congress Control Number and Field 020 show the ISBN of this book. Field 100 shows the author, Field 245 shows the title and statement of responsibility, and Field 260 shows the publisher and publication year. Field 300 shows the book’s front matter ends on page xii, the last numbered page is page 499, and the book includes illustrations. The record also shows *Korsh* includes a bibliography and an index (Fields 504 and 500). The author, title, publisher, publication date, ISBN, LCCN, physical description match the information presented in **Ex. 1016**, confirming this MARC record represents *Korsh*.

85. Subjects of this book are represented in Field 050 by a Library of

Congress Classification (LCC) number of “QA76.9.D35” that represents “Data structures” (source: Library of Congress Classification Schedule Q, online at https://www.loc.gov/aba/publications/FreeLCC/LCC_Q2020TEXT.pdf), and in Field 082 by a Dewey Decimal Classification (DDC) number of “005.7/3” representing “Data in computer systems”. Subjects are also represented in Field 650 by one Library of Congress subject heading: Data structures (Computer science). These subject representations enable users to conduct subject searches to discover *Korsh*.

86. This MARC record (**Ex. 1016A**) shows that a pre-publication record was created for *Korsh* on July 9, 1985, making this book discoverable in the online catalog of the Library of Congress. Interested public would have been able to conduct subject searches by the LCC number, DDC number and the Library of Congress subject heading in the MARC record to discover this book. They would also have been able to search for this book by the author, title, ISBN, and LCCN.

87. The MARC record (**Ex. 1016A**) has made *Korsh* discoverable at the Library of Congress when the pre-publication record was created on July 9, 1985. The date stamp of “FEB 3 1986” shows Library of Congress received the book on this date, the date annotation in **Ex. 1016** shows the cataloging record was completed on March 18, 1986, and the MARC record was last modified on April 2, 1987. A customary library practice is to process a newly cataloged monograph promptly for

public access. My personal experience with the Library of Congress collections is that it can take one to three months for such a work to become publicly accessible. It is therefore my opinion that, after processing, the physical copy of *Korsh* would have been publicly accessible by June 18, 1986 at the Library of Congress.

88. As evidence that Library of Congress had an online catalog in operation by 1993 and a catalog on the Web by 1998, I obtained a Library of Congress Timeline, a report on Internet access to Library of Congress resources, and a copy of the Library of Congress online catalogs webpage archived by Internet Archive. I personally located and obtained these materials. They are the type of materials experts in my field would reasonably rely upon when forming their opinions. These files are presented as **Ex. 1016B** in this declaration.

89. Pages 1 to 7 are a timeline of the history of the Library of Congress, and page 6 shows on January 1, 1981, “[t]he filing of cards into the Library’s main card catalog stops, and the online cataloging of the Library’s collections officially begins.”

90. Pages 8 and 9 show a report on “Gaining Electronic Access to the World’s Largest Library,” *Library of Congress Information Bulletin*, vol. 52, no. 16 that has a “September 6, 1993” issue date. This report states that “LC Online Search is a service of LC that permits anyone outside the Library to search LOCIS (Library of Congress Information Service) over the Internet” and interested users “with a

connection to Internet that permits logging on to remote computers (TELNET) may search LOCIS” from anywhere. The report further clarifies that “[a]ccess is provided to a portion of LOCIS, with more than 26 million records” from the LC catalog and several other resources.

91. Pages 10 to 13 shows an archived copy of a webpage on how to search Library of Congress online catalogs, and the archive date was January 20, 1998.

92. **Ex. 1016B** informs my opinion that Library of Congress began online cataloging in 1981, and by September 1993, the Library had begun offering Internet access to the Library of Congress Information Service (LOCIS) that includes the library catalogs. By January 1998 the Library of Congress online catalogs had been on the Web, and the library webpage on how to search the online catalogs was archived by Internet Archive on January 20, 1998. These dates indicate that by September 1993 Library of Congress had offered telnet access to its library catalogs and by January 1998 the Library had provided web access to its library catalogs. These dates show that by at least September 1993 *Korsh* was discoverable in the online catalogs of the Library of Congress.

C. Copyright Registration Record

93. **Ex. 1016C** is a true and correct copy of the copyright registration record for *Korsh*. I personally located, identified, and obtained this record from the public catalog of the US Copyright Office. This is the type of record experts in my field

would reasonably rely upon when forming their opinions.

94. The title, author, and publisher match the information presented in **Ex. 1016**, confirming this record represents *Korsh*. The Date of Publication field shows this book was published on “1986-01-06” (*i.e.*, January 6, 1986), and the Registration Number / Date field shows the book was registered with the US Copyright Office on “1986-01-14” (*i.e.*, January 14, 1986). These dates align well with the date stamp on **Ex. 1016** that shows *Korsh* was received by the CIP Program of the Library of Congress on February 3, 1986.

D. Citation Records

95. Actual usage of a publication is reflected by the papers that make reference to it. The citation history on Google Scholar shows that *Korsh* was cited 10 times. **Ex. 1016D** presents four citations published in 1990, 1992, 1994, and 1998. These citations support my opinion that *Korsh* was publicly accessible at the Library of Congress no later than by June 1986.

E. Summary of My Opinion on *Korsh*

96. The excerpts of *Korsh* obtained from Library of Congress (**Ex. 1016**) is authentic because it contains no signs to raise suspicion about its authenticity, and this copy of *Korsh* is in the custody of a national library. The Library of Congress MARC record for *Korsh* (**Ex. 1016A**) shows a CIP record was created on July 9, 1985, making this book discoverable from that date on in the online catalog of the

library. An annotation in Ex. 1016 shows the cataloging record was completed on March 18, 1986. After processing, the physical copy of *Korsh* would have become publicly accessible no later than June 18, 1986 at the Library of Congress. Records on information services and catalogs of the Library of Congress (**Ex. 1016B**) show that by September 1993 users interested in *Korsh* were able to use remote login protocols to search the online catalogs of the Library of Congress and by January 1998 they were able to search the online catalog directly on the Internet. The copyright registration record (**Ex. 1016C**) shows *Korsh* was published on January 6, 1986. The date stamp of “FEB 3 1986” and the record completion date of March 18, 1986 on **Ex. 1016** align well with the publication date on the copyright registration record. Based on these records, it is my opinion that *Korsh* became publicly accessible at the Library of Congress no later than June 1986. Citations published in 1990, 1992, 1994, and 1998 show other researchers were able to use *Korsh* in the 1990s. These records support my opinion that *Korsh* was publicly accessible by June 1986.

VI. CONCLUSION

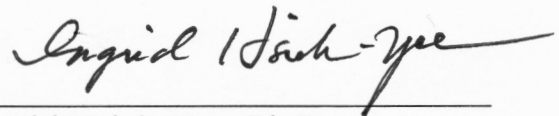
97. In signing this Declaration, I recognize that the Declaration will be filed as evidence in a contested case before the Patent Trial and Appeal Board of the United States Patent and Trademark Office. I also recognize that I may be subject to cross-examination in this proceeding. If required, I will appear for cross-examination at

the appropriate time.

98. I hereby declare that all statements made herein of my own knowledge are true and that all statements are made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001.

Dated: January 17, 2025

Respectfully submitted,

A handwritten signature in cursive script, reading "Ingrid Hsieh-Yee", written over a horizontal line.

Ingrid Hsieh-Yee, Ph.D.
Annapolis, Maryland

APPENDIX A

Ingrid Hsieh-Yee
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Education

Ph.D. 1990. Library and Information Studies, University of Wisconsin-Madison
Minors: Sociology and Psychology

M.A. 1984. Library and Information Studies, University of Wisconsin-Madison.

M.A. 1983. Comparative Literature, University of Wisconsin-Madison.

B.A. 1980. Foreign Languages and Literature, National Taiwan University.

Work Experience

Professor, School/Dept. of Library and Information Science, Catholic University of America,
1990-2022 (Assistant Professor, 1990-1996; Associate Professor, 1997-2004; Professor
2004-2022; Professor Emerita 2022)

Co-Chair, Dept. of Library and Information Science, Catholic University of America, June 2015-
August 2016.

Acting Dean, School of Library and Information Science, Catholic University of America,
January 2010-June 2012.

Cataloger, Dept. of Legislative Reference Library, Annapolis, Maryland, 1989-1990.

Lecturer, School of Library and Information Studies, University of Wisconsin-Madison, 1988.

Teaching Assistant, School of Library and Information Studies, University of Wisconsin-
Madison, 1986-1988.

Cataloger, Health Sciences Library, University of Wisconsin-Madison, 1984-1986.

Areas of Teaching and Research Interests

Information Organization and Access; Metadata; Cataloging & Classification; Information
Architecture; Information Retrieval; Digital Collections; Social Media; Scholarly

Communication; Information Behavior; Health Informatics; Human Computer Interaction; Usability Studies

Grants & Honors

Cultural Heritage Information Management Project. IMLS grant. Amount: \$498,741. Period: Aug. 2012 to July 2015. Co-PI with Dr. Youngok Choi.

D.C. Health Information Technology (HIT4): Building Capacity & Providing Access in Our Nation's Capital. Dept. of Labor H2B Training Grant. Grant amount: \$4,175,500. Grant period: Nov. 2011 to Dec. 2015. Partner with the Metropolitan School of Professional Studies of the Catholic University of America, Children's National Medical Center, D.C. Department of Employment Services, Holy Cross Hospital, Howard University, Center for Urban Progress, Providence Hospital, and Sibley Memorial Hospital.

Capital Health Careers Project. Department of Labor Healthcare Sector and Other High Growth and Emerging Industries Grant. Grant amount: \$4,953,999. Grant period: March 2010 – February 2013. Awarded to a group of healthcare organizations and educational institutions in Washington, D.C. Providence Health Foundation of Providence Hospital (Lead institution). Part of the grant supported the development of a Master's degree program in Information Technology with a concentration in Health Information Technology offered by the School of Library and Information Science.

The Washington D.C. School Librarians Project. IMLS grant. Grant amount: \$412,660. Grant period: Aug. 2007 – June 2011. The School partnered with the District of Columbia Public Schools (DCPS) and the District of Columbia Library Association to educate and mentor school media specialists for the DCPS system. PI, Jan. 2010 to June 2011.

SIG Member of the Year, American Society for Information Science and Technology (2009).

Most Outstanding Paper of *OCLC Systems & Services* (2001).

ALISE Research Grant (2001).

Most Outstanding Paper of *OCLC Systems & Services* (2000).

Research Grant from ERIC (1999-2000).

Best Research Paper Award; Association for Library and Information Science Education (1998).

Research Grants, Catholic University of America. 1991, 1992, 1993, 1996, 1998, 1999, 2004, 2005, 2006, 2007, 2013-14.

Cooperative Faculty Research Grant, Consortium of Universities in the Washington Metropolitan Area (1993-1994).

Cooperative Research Grant, Council on Library Resources (1993-1994).

Journal of the American Society for Information Science Best Paper Award (1993).

ASIS/ISI Information Science Doctoral Dissertation Scholarship (1989).

HEA Title IIB Fellowship (Dept. of Education) (1989)

Chinese-American Librarians Association Scholarship (1987).

Beta Phi Mu (1985).

Vilas Fellowship, University of Wisconsin-Madison. 1984

Publications

Hsieh-Yee, I. (2021). Can We Trust Social Media? *Internet Reference Services Quarterly*, 1-15.
Published online: 28 July, 2021. 10.1080/10875301.2021.1947433.

Bailey, T., & Hsieh-Yee, I. (2020). Combating the Sharing of False Information: History, Framework & Literacy Strategies, *Internet Reference Services Quarterly*, 24 (1-2), 9-30.

Choi, Y., and Hsieh-Yee, I. (2010). Finding Images in an OPAC: Analysis of User Queries, Subject Headings, and Description Notes. *Canadian Journal of Information and Library Science*, 34(3): 271 – 295.

Hsieh-Yee, I. (2008). Educating Cataloging Professionals in a Changing Information Environment. *Journal of Education for Library and Information Science*, 46(2): 93-106.

Vellucci, S. L., Hsieh-Yee, I., and Moen, W.E. (2007). The Metadata Education and Research Information Commons (MERIC): A Collaborative Teaching and Research Initiative. *Education for Information*, 25(3&4): 169-178.

NISO Framework for Guidelines for Building Good Digital Collections. 3rd ed. Baltimore, MD: National Information Standards Organization, 2007. Also available online: <http://www.niso.org/framework/framework3.pdf> (NISO Working Group members: Priscilla Caplan (chair), Grace Agnew, Murtha Baca, Tony Gill, Carl Fleischhauer, Ingrid Hsieh-Yee, Jill Koelling, and Christie Stephenson.)

Choi, Y., Hsieh-Yee, I., and Kules, B. (2007). Retrieval Effectiveness of TOC and LCSH. *Proceedings of the Joint Conference on Digital Libraries*, pp. 233-234.

Vellucci, S., and Hsieh-Yee, I. (2007). They Didn't Teach Me That in Library School! Building

a Digital Teaching Commons to Enhance Metadata Teaching, Learning and Research. *Proceedings of the National Conference of the Association of College and Research Libraries, Baltimore, MD*, pp. 26-31.

Mitchell, Vanessa, and Ingrid Hsieh-Yee. (2007). Converting Ulrich's Subject Headings to FAST Headings: A Feasibility Study. *Cataloging & Classification Quarterly*, 45(1): 59-85.

Hsieh-Yee, I., Tang, R., and Zhang, S. (2007). User Perceptions of a Federated Search System. *IEEE Technical Committee on Digital Libraries Bulletin*, Summer 3(2) (URL = <http://www.ieee-tcdl.org>).

Tang, R., Hsieh-Yee, I., and Zhang, S. (2007). User Perceptions of MetaLib Combined Search: An Investigation of How Users Make Sense of Federated Searching." *Internet Reference Services Quarterly*, 12(12): 211-236.

Hsieh-Yee, I., Tang, R., and Zhang, S. (2006). User Perceptions of a Federated Search System. *Proceedings of the Joint Conference on Digital Libraries, June 11-15, 2006, Chapel Hill*, p. 338.

Hsieh-Yee, I. (2006). *Organizing Audiovisual and Electronic Resources for Access: A Cataloging Guide*. 2nd ed. Westport, Conn.: Libraries Unlimited.

NISO A Framework of Guidance for Building Good Digital Collections. 2nd ed. Bethesda, MD: National Information Standards Organization, 2004. Framework Advisory Group: Grace Agnew, Liz Bishoff, Priscilla Caplan (Chair), Rebecca Gunther and Ingrid Hsieh-Yee.

Hsieh-Yee, I. (2004). Cataloging and Metadata Education in North American LIS Programs. *Library Resources & Technical Services*, 48(1): 59-68.

Hsieh-Yee, I. (2004). Cataloging and Metadata Education. In Gary E. Gorman (Ed.), *International Yearbook of Library and Information Management 2003: Metadata Applications and Management*, (pp.204-234). London: Facet Publishing.

Yee, P. L., Hsieh-Yee, I., Pierce, G.R., Grome, R., and Schantz, L. (2004). Self-Evaluative Intrusive Thoughts Impede Successful Searching on the Internet. *Computers in Human Behavior*, 20(1): 85-101.

Hsieh-Yee, I. (2003). Cataloging and Metadata Education: A Proposal for Preparing Cataloging Professionals of the 21st Century. A report submitted to the ALCTS-Education Task Force in response to Action Item 5.1 of the *Bibliographic control of Web Resources: A Library of Congress Action Plan*. Approved by the Association for Library Collections and Technical Services. Web version available since April 2003 at <http://lcweb.loc.gov/catdir/bibcontrol/CatalogingandMetadataEducation.pdf>.

- Hsieh-Yee, I. (2002). Cataloging and Metadata Education: Asserting a Central Role in Information Organization. *Cataloging & Classification Quarterly* 34(½): 203-222.
- Hsieh-Yee, I., and Smith, M. (2001). The CORC Experience: Survey of Founding Libraries, Part I. *OCLC Systems & Services*, 17: 133-140. (Received "The Most Outstanding Paper of OCLC Systems & Services in 2001" award.)
- Hsieh-Yee, I., and Smith, M. (2001). The CORC Experience: Survey of Founding Libraries, Part II, Automated Tools and Usage. *OCLC Systems & Services*, 17: 166-177. (Received "The Most Outstanding Paper of OCLC Systems & Services in 2001" award.)
- Hsieh-Yee, I. (2001). ERIC User Services: Changes and Evaluation for the Future. *Government Information Quarterly*, 18: 31-42.
- Hsieh-Yee, Ingrid. (2001). Research on Web Search Behavior. *Library and Information Science Research*, 23: 167-185.
- Logan, E., and Hsieh-Yee, I. (2001). Library and Information Science Education in the Nineties. *Annual Review of Information Science and Technology*, 35: 425-477.
- Hsieh-Yee, I. (Ed.) (2001). *Library and Information Science Research*, 23 (2). A special issue in honor of the retirement of Douglas L. Zweizig.
- Hsieh-Yee, I. (2000). *ERIC User Services: Evaluation in a Decentralized Environment*. Washington, D.C.: Dept. of Education.
- Hsieh-Yee, Ingrid. (2000). *Organizing Audiovisual and Electronic Resources for Access: A Cataloging Guide*. Littleton, CO: Libraries Unlimited.
- Hsieh-Yee, I. (2000). Organizing Internet Resources: Teaching Cataloging Standards and Beyond. *OCLC Systems & Services*, 16: 130-143. (Received "The Most Outstanding Paper of OCLC Systems & Services in 2000" award.)
- Hsieh-Yee, I. (1998). The Retrieval Power of Selected Search Engines: How Well Do They Address General Reference Questions and Subject Questions? *Reference Librarian*, 60: 27-47.
- Hsieh-Yee, I. (1998). Search Tactics of Web Users in Searching for Texts, Graphics, Known Items and Subjects: A Search Simulation Study. *Reference Librarian*, 60: 61-85. (Received the 1997 Best ALISE Research Paper Award.)
- Hsieh-Yee, I. (1997). Access to OCLC and Internet Resources: LIS Educators' Views and Teaching Practices. *RQ*, 36: 569-86.

- Hsieh-Yee, I. (1997). Teaching Online and CD-ROM Resources: LIS Educators' Views and Practices. *Journal of Education for Library and Information Science*, 38: 14-34.
- Hsieh-Yee, I. (1996). The Cataloging Practices of Special Libraries and Their Relationship with OCLC. *Special Libraries*, 87: 10-20.
- Hsieh-Yee, I. (1996). Modifying Cataloging Practice and OCLC Infrastructure for Effective Organization of Internet Resources. In *Proceedings of the OCLC Internet Cataloging Colloquium*. [Online]. Available: <http://www.oclc.org/oclc/man/colloq/hsieh.htm>
- Hsieh-Yee, I. (1996). Student Use of Online Catalogs and Other Information Channels. *College & Research Libraries*, 57: 161-175.
- Hsieh-Yee, I. (1995). Ten entries in James S. C. Hu (Ed.), *Encyclopedia of Library & Information Science*, 913, 1028-29, 1036, 1037, 1145-46, 1514, 1575, 1763-64, 2216-27, 2378-79. Taipei, Taiwan: Sino-American Publishing. (Topics include "Advanced Technology/Libraries," "Information Ethics," "Instruction on Cataloging and Classification," "Instruction on Reference Services.")
- Hsieh-Yee, I. (1993). Effects of Search Experience and Subject Knowledge on Online Search Behavior: Measuring the Search Tactics of Novice and Experienced Searchers. *Journal of the American Society for Information Science*, 44: 161-174. (Received the 1993 Best JASIS Paper Award.)

Works in Progress

- Hsieh-Yee, I. Actionable lessons for debunking false information: A comparative analysis of literacy lessons in communication and library and information science
- Hsieh-Yee, I. Representing diverse voices and communities in cataloging and indexing: The evolution of controlled vocabularies
- Hsieh-Yee, I. Information Organization and Retrieval in Practice (a monograph scheduled for completion and publication in 2023)

Presentations

- Bailey, T. & Hsieh-Yee, I. (February 2020). The Phenomena of Sharing Misinformation and the Need for Information Literacy. Presented at the 2020 Bridging the Spectrum Symposium, Washington, D.C., February 14, 2020.

- Hsieh-Yee, I. and Fragan-Fly, J. (May 2018) Trends, Design & Strategies for Digital Scholarship Services. Presented at the 2018 Maryland/Delaware Library Association Conference, Cambridge, MD.
- Hsieh-Yee, I. (February, 2018) Research Data Management: What It Takes to Succeed. Presented at the 10th Bridging the Spectrum Symposium, Washington, D.C.
- Hsieh-Yee, I. (February, 2017) *Research Data Management: New Competencies and Opportunities for Information Professionals*. Presented at the 9th Bridging the Spectrum Symposium, Washington, D.C.
- Hsieh-Yee, I. and Lawton, P. (February, 2017) *Enhancing Catholic Portal Searches with User Terms and LCSH*. Presented at the 9th Bridging the Spectrum Symposium, Washington, D.C.
- Hsieh-Yee, I. (2016, October) *Visualizing Data for Information*. Presented at the 2016 Virginia Library Association Conference, Hot Springs, VA.
- Hsieh-Yee, I. (2016, August) *Religious Materials Toolbox for Archivists: Solutions to Problems Facing the Profession*. Presented at Archives * Records 2016, Atlanta, GA.
- Hsieh-Yee, I. and Lawton, P. (2016, March) *Enhancing Retrieval of Catholic Materials with LCSH Knowledge Structure*. Presented at the 2016 Catholic Library Association Conference, San Diego, CA.
- Fagan-Fry, J. and Hsieh-Yee, I. (2016, February) *Approaches to Digital Scholarship at Top Universities around the World: Scholarly Publishing in the Digital Age*. Presented at the 8th Bridging the Spectrum Symposium, Washington, D.C.
- Hsieh-Yee and Fagan-Fry, J. (2016, January) *Innovative Services for Digital Scholarship at Top 100 Research Libraries of the World*. Poster presented at the 2016 Annual Conference of the Association for Library and Information Science Education, Boston, Mass.
- Hsieh-Yee, I. and Lawton, P. (2015, June). *Crowdsourcing terms for CRRA portal themes*. Poster presented at the third CRRA symposium and annual meeting, Bringing the created toward the Creator: Liturgical art and design since Vatican II. Catholic Theological Union, Chicago, Illinois.
- Hsieh-Yee, I. and Lawton, P. (2015, February). *Crowdsourcing terms for thematic exploration in the Catholic Portal*. Poster presented at the 7th Annual Bridging the Spectrum Symposium, Washington, D.C.
- Hsieh-Yee, I., James, R., and Fagan-Fry, J. (2015, February). *Support for digital scholarship at top university libraries of the world*. Poster presented at the 7th Annual Bridging the Spectrum Symposium, Washington, D.C.

- Hsieh-Yee, I., Zhang, S., Lin, K., and Cherry, S. (2015, February). *Thus said the end users: Summon experience and support for research workflows*. Poster presented at the 7th Annual Bridging the Spectrum Symposium, Washington, D.C.
- Yontz, E., Hsieh-Yee, I., & Houston, S. (2015, February). *Healthy Heroes Summer Reading Club: Developing healthy youth at public libraries*. 11th Annual Jean Mills Health Symposium, Greenville, North Carolina.
- Yontz, E., Hsieh-Yee, I., and Houston, S. (2015, January). *Healthy youth and libraries: A pilot study*. Association for Library & Information Science Education (ALISE) Annual Conference, Chicago, Illinois.
- Hsieh-Yee, I. (2014, May). *Linking CRRA resources to portal themes via authority files*. Presented at the Catholic Research Resources Alliance 2014 Membership Meeting, Marquette, WI.
- Hsieh-Yee, I. (2014, April). *Enhancing subject access to CRRA resources*. Presented at the 2014 Catholic Library Association Conference, Pittsburgh, PA.
- Hsieh-Yee, I. (2014, January). *Health Information Technology Program: Educational entrepreneurship in action*. Presented at the 2014 annual Conference of the Association for Library and Information Science Education, Philadelphia, PA.
- Hsieh-Yee, I., Zhang, S., Lin, K., and Cherry, S. (2014, January). *Discovering information through Summon: An analysis of user search strategies and search success*. Paper presented at the 6th Bridging the Spectrum Symposium, Washington, D.C.
- Hsieh-Yee, I. (2012, December). *National Digital Stewardship Alliance and SLIS at CUA: An Educational Partnership*. Paper presented at Best Practices Exchange: Acquiring, Preserving, and Providing Access to Government Information in the Digital Era, Annapolis, MD.
- Choi, Y. and Hsieh-Yee, I. (2010, January). *Finding Images in an OPAC: Analysis of User Queries, Subject Headings, and Description Notes*. Paper presented at 2nd Annual Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I. and Coogan, J. (2010, January). *Google Scholar vs. Academic Search Premier: What Libraries and Searchers Need to Know*. Paper presented at 2nd Annual Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I. (2009, November). *Information Science Education: An LIS School's Perspective*. Paper presented at Annual Meeting of the American Society for Information Science and Technology, Vancouver, British Columbia, Canada.

- Hsieh-Yee, I., Menard, E., Ya-Ning Chen, A., Shu-Jiun Chen, S., Kalfatovic, M. R., Wisser, K. M. (2009, November). *Information Organization in Libraries, Archives and Museums: Converging Practices and Collaboration Opportunities*. Presented at Annual Meeting of the American Society for Information Science and Technology, Vancouver, British Columbia, Canada. (Organizer and moderator of this panel.)
- Hsieh-Yee, I. and Coogan, J. (2009, July). *Catching up to Google Scholar: The Retrieval Power of Academic Search Premier and Google Scholar*. Poster presented at American Library Association Conference, Chicago, Illinois.
- Hsieh-Yee, I., with the CUA Scholarly Communications Project Team. (2009, January). *Digital Scholarship@CUA: Developing an Institutional Repository for CUA*. Poster presented at 1st Annual Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.
- Wise, M., Cylke, K., and Hsieh-Yee, I. (2009, January). *Digital Talking Books: Meeting the Needs of the Blind and the Handicapped*. Paper presented at the Bridging the Spectrum Symposium, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I. (2009, January). *User Expectations of MERIC*. Presented at the Information Organization Competencies for the 21st Century Discussion Session of the 2009 Conference of the Association for Library and Information Science Education, Denver, Colorado.
- Choi, Y., and Hsieh-Yee, I. (2008, November). *Subject Access for Images in an OPAC*. Annual Meeting of the American Society for Information Science and Technology, Columbus, Ohio. (Also co-organized a panel on Retrieving and Using Visual Resources: Challenges and Opportunities for Research and Education.)
- Hsieh-Yee, I. (2008, June). *Educating Cataloging Professionals in a Changing Information Environment*. National Taiwan University, Taipei, Taiwan.
- Vellucci, S. L., Moen, W.E., Hsieh-Yee, I., Marson, B., and Wisser, K. (2008, January) *Building a Metadata Education and Research Community through MERIC (Metadata Education and Research Information Commons): Demo and Stakeholder Input*. A panel presented at the 2008 Conference of the Association for Library and Information Science Education, Philadelphia, Pennsylvania.
- Hsieh-Yee, I., Choi, Y. and Kules, B. (2007, October). *Searching for Books and Images in OPAC: Effects of LCSH, TOC and Subject Domains*. A poster presented at the American Society for Information Science and Technology Annual Meeting, Milwaukee, Wisconsin.
- Hsieh-Yee, I. and Coogan, J. (2007, August) *Google Scholar vs. Academic Search Premier: A Comparative Analysis*. Presented to the Faculty and Staff of the University of the District

of Columbia.

- Hsieh-Yee, I. and Coogan, J. (2007, June). *Google Scholar vs. Academic Search Premier: A Comparative Analysis*. Presented to the Washington Research Library Consortium Community, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I., Choi, Y., and Kules, B.. (2007, June). *What Users Need for Subject Access: Table of Contents or Subject Headings?* A poster presented at the 2007 American Library Association Annual Conference, Washington, D.C., June 2007.
- Choi, Y., Hsieh-Yee, I., and Kules, B. (2007, June). *Retrieval Effectiveness of TOC and LCSH*. A paper presented at the Joint Conference on Digital Libraries 2007, Vancouver, Canada.
- Vellucci, S. L., Hsieh-Yee, I., and Moen, W.E. (2007, May). *If We Build It, Will They Come? Building a Community of Practice for Metadata Stakeholders*. A poster presented at the Rutgers University Research Day, Bridgeton, New Jersey.
- Hsieh-Yee, I. (2007, May). *Federated Searching: User Experience & Perceptions*. International Conference on Information Organization & Retrieval, National Taiwan University, Taipei, Taiwan.
- Hsieh-Yee, I. (2007, May). *Search Performance of Google Scholar and Academic Search Premier*. International Conference on Information Organization & Retrieval, National Taiwan University, Taipei, Taiwan.
- Hsieh-Yee, I. (2007, May) *MERIC: Building a Digital Commons for Metadata Education & Research*. International Conference on Information Organization & Retrieval, National Taiwan University, Taipei, Taiwan.
- Hsieh-Yee, I., and Coogan, J. (2007, March/April). *A Comparative Analysis of Google Scholar and Academic Search Premier*. Poster presented at the Association of College & Research Libraries 13th National Conference, Baltimore, Maryland.
- Vellucci, S. L. and Hsieh-Yee, I. (2007, March/April) *They Didn't Teach Me That in Library School! Building a Digital Teaching Commons to Enhance Metadata Teaching, Learning and Research*. On-site presentation and Webcast by Elluminate. A contributed paper presented at the Association of College & Research Libraries 13th National Conference, Baltimore, Maryland. The acceptance rate for contributed paper was 20%. This paper was one of 10 conference papers chosen for live webcast during the conference.
- Moen, W., Hsieh-Yee, I. and Vellucci, S.L. (2007, January) *A DSpace Foundation for a Teaching & Research Commons: The Metadata Education and Research Information Commons*. A poster session presented at the Open Repositories Conference 2007, San Antonio, Texas.

- Tang, R., Hsieh-Yee, I., and Zhang, S. (2006, November) *User Perception of MetaLib Combined Search*. Paper presented at the Annual Meeting of the American Society for Information Science and Technology, Austin, Texas, Nov. 2006.
- Hsieh-Yee, I. (2006, November). *Federated Searching: User Perceptions, System Design, and Library Instructions*. Paper presented at the Annual Meeting of the American Society for Information Science and Technology, Austin, Texas. (Panel organizer, moderator, presenter).
- Hsieh-Yee, I. (2006, November). *Building a Digital Teaching Commons to Enhance Teaching and Learning: The MERIC Experience and Challenges*. Paper presented at the Annual Meeting of the American Society for Information Science and Technology, Austin, Texas. (Panel organizer, moderator, presenter)
- Hsieh-Yee, I. (2006, September). *Search Performance of Google Scholar and Academic Search Premier*. Paper presented at the ERIC Publishers Meeting, Washington, D.C.
- Hsieh-Yee, I., Zhang, S., and Rong Tang, R. (2006, June). *User Perceptions of a Federated Search System*. Poster presented at Joint Conference on Digital Libraries, Chapel Hill, North Carolina.
- Hsieh-Yee, I. and Zhang, S. (2006, June). *Preparing Users for Federated Search: Implications of a MetaLib User Perceptions Study*. Paper presented at the 2006 Ex Libris User Groups of North America Conference, Knoxville, Tennessee.
- Hsieh-Yee, I. (2006, January). *MERIC Organizations and Navigation*. Paper presented at the 2006 ALISE Annual Conference, San Antonio, Texas.
- Hsieh-Yee, I. (2006, January). *Metadata and Cataloging Education: Recommended Competencies*. Paper presented at the 2006 ALISE Annual Conference, San Antonio, Texas.
- Hsieh-Yee, I. (2005, November). *Digital Library Evaluation: Progress & Next Steps*. Presentation at the Annual Meeting of the American Society for Information Science & Technology, Charlotte, North Carolina.
- Hsieh-Yee, I. (2005, August). *Providing Access to Digital Content: Issues for DL Managers*. Presentation at MDK12 Digital Library Steering Committee Meeting, Columbia, Maryland.
- Hsieh-Yee, I. (2005, April). *Enhancing Teaching and Learning: The Role of School Library Media Specialists*. Presentation at Meeting of the Baltimore County Public School System School Media Specialists, Baltimore, Maryland.

- Hsieh-Yee, I. (2005, January). *Subject Access and Users: Insights & Inspirations from Marcia J. Bates*. Paper presented at the Historical Perspectives SIG, 2005 Conference of the Association for Library and Information Science Education, Boston, Massachusetts.
- Hsieh-Yee, I. (2005, January). *Electronic Resource Management: Practice, Employer Expectations, & CE Interests*. Paper presented at Technical Services Education SIG, 2005 Conference of the Association for Library and Information Science Education, Boston, Massachusetts.
- Hsieh-Yee, I. (2004, October). *Library Professionals for the Digital Age: Competencies & Preparation*. Paper presented at Bibliographic Access Management Team meeting, Library of Congress, Washington, D.C.
- Hsieh-Yee, I. (2004, January). *Cataloging and metadata expertise for the digital era*. Presented at Preparing 21st Century Cataloging and Metadata Professionals: A Workshop for Educators and Trainers, San Diego and sponsored by ALCTS, ALISE, LC, and OCLC.
- Hsieh-Yee, I. (2004, January). *Educating catalogers for the digital era*. Paper presented at the Technical Services SIG, 2004 Conference of the Association for Library and Information Science Education, San Diego.
- Hsieh-Yee, I. (2003, July). *Cataloging Education for the 21st Century*. A presentation at the Library of Congress, Washington, D.C.
- Hsieh-Yee, I. (2002, January) *Metadata Education and Research Priorities: A Delphi Study of Metadata Experts*. Presentation at the 2002 Conference of the Association for Library and Information Science Education, New Orleans.
- Hsieh-Yee, I. (2001, November). *A Delphi Study of Metadata: Preliminary Findings*. Poster session at the 2001 Annual Meeting of the American Society for Information Science & Technology, Washington, D.C.
- Hsieh-Yee, I. (2001, June). *Resources on Asian American Children: Analysis of Retrieval by Search Engines and WorldCat*. Presentation at the National Conference on Asian Pacific American Librarians, San Francisco.
- Hsieh-Yee, I. (2001, January). *Delphi Study on Metadata: Project Design*. Presentation at Research Awards Session, Association for Library & Information Science Education, Washington, D.C.
- Hsieh-Yee, I. (2000, May). *Web Search Behavior Research: Progress and Implications*. Presentation at the Symposium on Evaluating Library and Information Science Research, University of Wisconsin-Madison, Madison, Wisconsin.

- Hsieh-Yee, I. (2000, March). *ERIC User Services: Evaluation in a Decentralized Environment*. Presentation at the National ERIC Joint Directors/Technical Meeting, Arlington, Virginia.
- Hsieh-Yee, I. (2000, January). *Enhancing Learning with Web Technology*. Presentation at Faculty Conversations, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I. (2000, January). *From Surrogates to Objects: CUA's Approaches to Organizing Electronic Resources*. Paper presentation at the Annual Conference of the Association for Library and Information Science Education, San Antonio, Texas.
- Yee, P., and Hsieh-Yee, I. (1997, November). *Individual Differences in Search Behavior on the WWW*. A poster session presented at the 38th Annual Meeting of the Psychonomic Society, Philadelphia, Pennsylvania.
- Hsieh-Yee, I. (1997, April). *Research + Marketing + Preparation = Job!* Presented at the "Workshop on Resume and Interview Techniques," Special Libraries Association, Student Chapter, Catholic University of America, Washington, D.C.
- Hsieh-Yee, I. (1997, February). *Creating CyberCatalogers: Education and Training*. Presentation at ALA's Midwinter Meeting, Washington, D.C.
- Hsieh-Yee, I. (1997, February). *Search Tactics of Web Users in Searching for Texts, Graphics, Known Items and Subjects: A Search Simulation Study*. Presented at the Conference of the Association for Library and Information Science Education, Washington, D.C.
- Hsieh-Yee, Ingrid. "Beginning Your Special Library/Information Center Career." Presented at SLA's "Career Day," Jan. 11, 1997, Catholic University of America.
- Hsieh-Yee, I. (1996, September). *The Roles of Library and Information Scientists in Managing Electronic Information*. Presentation at Hamilton College, Clinton, New York.
- Hsieh-Yee, I. (1996, May). *The Future of Cataloging as a Profession*. Presented at "The Cataloging Forum, Library of Congress, Washington, D.C.
- Hsieh-Yee, I. (1994, October). *The Impact of the Internet on OPACs*. Presented at the Third Workshop on User Interfaces for OPACs, Library of Congress, Washington, D.C.

Reports

- Hsieh-Yee, I., with Knowledge Management Competencies and Performance Action Group of the Federal Knowledge Management Initiative. "From Knowledge Management Competencies to Improved Organizational Performance." April 9, 2009.

Hsieh-Yee, I., with Knowledge Practices Action Group of the Federal Knowledge Management Initiative. "KM Practice in Government Agencies: Findings and Recommendations." April 9, 2009.

Hsieh-Yee, I. "Delphi Study on Metadata." 2001. Three quarterly reports submitted to the Association for Library and Information Science Education.

Hsieh-Yee, I. "College Students' Information Channels: Patterns of Use and Possible Factors in Channel Selection." 1995. Submitted to the Catholic University of America.

Hsieh-Yee, I. "The Information-Seeking Patterns of Scholars and Their Use of an Online Information System." 1994. Submitted to the Council on Library Resources.

Book Reviews

Review of *The Measurement and Evaluation of Library Services*, by Sharon L. Baker and F. Wilfrid Lancaster. *Information Processing and Management* 30 (1994): 450-52.

Review of *Subject Access to Films and Videos*, by Sheila S. Intner and William E. Studwell; and *Cataloging Unpublished Nonprint Materials*, by Verna Urbanski with Bao Chu Chang and Bernard L. Karon. *Information Processing and Management* 30 (1994): 449-50.

Review of *Automated Information Retrieval in Libraries: A Management Handbook*, by Vicki Anders. *Journal of Library and Information Science* 19 (1993): 98-100.

Review of *Full Text Databases*, by Carol Tenopir and Jung Soon Ro. *Information Processing and Management* 28 (1992): 667-68.

Review of *Descriptive Cataloging for the AACR2R And USMARC: A How-to-Do It Workbook*, by Larry Millsap and Terry Ellen Ferl. *Information Processing and Management* 28 (1992): 809-11.

Review of *MARC Manual: Understanding and Using MARC Records*, by Deborah J. Byrne. *Information Processing and Management* 28 (1992): 537-38.

Service

Professional Associations and Societies

- Library of Congress. RDA Training Program for the Profession. Co-authored with Tim Carlton. 2013-2014.
- 2014 Digital Preservation Outreach & Education Survey. Contributed to the design of the survey, 2014.
- National Digital Stewardship Alliance. Outreach Committee. 2011-2014.
- National Digital Stewardship Residency Program. Advisory Group, 2012-2013.
- FEDLINK Health Information Technology Advisory Council, 2011-2015.

- 2012 Joint Conference on Digital Libraries. Program Planning Committee, Pre-Conference Proposals Review Committee, 2012
- Catholic Research Resources Alliance. Five-Year Strategic Plan Task Force, 2011-2012
- Institute of Museum and Library Services. Grant reviewer. 2004, 2005, 2010.
- Association for Library and Information Science Education.
 - * ALISE Bodan Wynar Research Paper Award Committee, 2015, 2016, 2017
 - * ALISE Eugene Garfield Dissertation Award Competition, Jury, 2013, 2014
 - * ALISE Research Grant Competition Committee. Chair, 2012
 - * Pratt-Severn Faculty Innovation Award. Chair, 2009, 2010
 - * ALISE Doctoral Poster Jury, 2012
 - * “Information Organization Competencies for the 21st Century” Discussion session leader. 2009 Conference of the Association for Library and Information Science Education.
 - * Assisted Technical Services SIG Convener in organizing a program, “Building a Metadata Education and Research Community through MERIC (Metadata Education and Research Information Commons): Demo and Stakeholder Input” for the 2008 ALISE conference.
 - * Association for Library Collections and Technical Services/Association for Library and Information Science Education (ALCTS/ALISE) Metadata Education and Research Information Center (MERIC) Advisory Board, Co-Chair (with Sherry Vellucci), 2005-2007. Chair, 2008-2009 (leading the effort to build MERIC, a repository and collaborative space for metadata educators, practitioners, and researchers)
 - * Technical Services SIG, Convener, 2004-2005. Organized a program on “Electronic Resources Management: Current Practices, Employer Expectations, and Teaching Strategies” for the 2005 conference in Boston, Massachusetts.
 - * Technical Services SIG, Convener, 2003-2004. Organized a program on “Organizing Information with Metadata: Desired Competencies and Teaching Innovations” for the 2004 conference.
 - * Technical Services SIG, Convener, 1999-2000. Organized a program on "Teaching the Organization of Electronic Resources" for the 2000 conference.
 - * Curriculum SIG, Co-convener (with Sibyl Moses), 1996-97. Organized a program on “Government Information Policy” for the 1997 conference.
- American Society for Information Science & Technology.
 - * Reviewer, Conference program panel submissions and poster submissions, 2005, 2006, 2007, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017
 - * Nomination Committee, 2009-2011
 - * Information Science Education Special Interest Group. American Society for Information Science and Technology. Chair-Elect, 2007-2008. Chair 2008-2009.
 - * Committee on Information Science Education. 1999-2006.
 - * Committee on Information Science Education. Organizing Committee for an orientation program for students at ASIS annual meetings, 1999-2001
 - * Committee on Information Science Education. Sub-committee on Student Welfare (focusing on issues related to master's education), 1998-2001

- * SIG ED. Organizing Committee for the "Seminar on Research and Career Development" for junior researchers. 1995-96 (chair), 1997-2001
- * ISI Doctoral Dissertation Proposal Scholarship Jury, 1997; 2001, 2002
- * Pratt-Severn Best Student Research Paper Award Jury. Chair. 1997
- * 1998 Midyear Meeting (referee of contributed papers), 1997
- * Organizer and moderator of the ASIS Doctoral Forum and the Doctoral Research Seminar 1994-1995
- * SIG Human Computer Interaction. Chair-Elect, Chair, 1993-1995
- * Doctoral Forum Award Jury, 1995
- * Best Student Paper Award Jury, 1995
- American Library Association.
 - * Committee on Accreditation, External Review Panelist, 2009- (site visiting team 2013-2014; site visiting team 2016-2017)
 - * Association for Library Collections and Technical Services Task Force on Competencies and Education for a Career in Cataloging, member, 2008-2009
 - * Facilitator for "What They Don't Teach in Library School: Competencies, Education and Employer Expectations for a Career in Cataloging," an Association for Library Collections and Technical Services Preconference, June 22, 2007 in Washington, D.C. Also a local liaison for bringing this program to the Catholic University of America.
 - * Facilitator for a discussion on "Effect of Electronic Resources on Technical Services" at ALA's Midwinter Meeting held in Feb. 1997 in Washington, D.C.
 - * International Relations Committee, Subcommittee Task Force for IFLA and China, 1994-1997
- Virginia Association of School Librarians. Scholarships and Awards Committee. 2010-2012
- Federal Knowledge Management Initiative, Knowledge Management Practices Action Group. Member. 2009 (leading the effort to build a knowledge management repository)
- Federal Knowledge Management Initiative, Knowledge Management Competencies & Learning Action Group. Member. 2009 (developing an action plan for helping government knowledge workers and government agencies to develop knowledge management competencies)
- National Center for Education Statistics. Technical Review Panel. 2008.
- External evaluator for a case of promotion to full professorship. University of Tennessee. 2008.
- National Information Standards Organization (NISO). Advisory Board, Revision of "IMLS Framework of Guidance for Building Good Digital Collections," 2004, 2007.
- Library of Congress, Bibliographic Control of Web Resources: A Library of Congress Action Plan. Principal Investigator of Action Item 5.1, focusing on cataloging and metadata education for students and new librarians, 2002-2003. (worked with the Association for Library Collections and Technical Services, Education Task Force)

- Chinese American Librarians Association
 - * Chinese American Librarians Association Outstanding Library Leadership Award in Memory of Dr. Margaret Chang Fung, Award Committee, 2016-2017
 - * Achievement Award Jury, 2000-2001
 - * CALA Goal 2000 Task Force, 1997
 - * Scholarship Committee, 1995, 1996-1997 (chair)
 - * Board of Directors, 1994-1997
 - * Publication Committee, 1993-1995
 - * International Relations Committee, 1993-1996
- SailorSM Assessment Advisory Group (An impact study of Sailor, Maryland's Public Information Network), 1995
- Editorial boards
 - Journal of Library & Information Science. Editorial Board, 2012-
 - Chinese American Librarians Association, *Occasional Papers Series*. Editorial Board, 2009-2016.
 - Library Quarterly*. Editorial Board, 2003-2008
 - Bulletin of the Medical Library Association*, 1994-97
 - Newsletter editor for the Chinese American Librarians Association, 1989-92
- Referee for the following journals
 - Information Processing and Management*
 - Journal of Digital Information*
 - Journal of Education for Library and Information Science*
 - Journal of Information Science*
 - Journal of Library & Information Science*
 - Journal of Library Metadata*
 - Journal of the American Society for Information Science & Technology*
 - Library and Information Science Research*
 - Library Quarterly*
- Expert reviewer, “Digital Library” course, Evaluation module, University of North Carolina, Chapel Hill, 2007-2008.
- Expert reviewer, “Information Organization” course, University of Michigan, Ann Arbor. 2007.

Catholic University of America

- Academic Senate Committee on Appointments and Promotions, 2005-2008
- Academic Senate Committee on Committees and Rules, 2009-2012, 2019-2022
- Academic Senate representative (for School of Arts & Sciences), 2017-2020

- Academic Senate representative (for School of Library & Information Science) 2003-2012
- Academic Senate Library Committee, Interim Chair (2007), Member, 2008-2012
- Academic Senate Committee on Computing, 1995-2003
- President's Administrative Council, 2010-2012
- Deans' Council, 2010-2012
- Academic Leadership Group, 2010-2012
- Graduate Board, 2010-2012
- School of Arts & Sciences, Committee on Appointments and Promotions, 2015-2019
- School of Arts & Sciences, Academic Council, 2015-2016.
- School of Arts & Sciences, Ordinary Professor Group, 2013-
- Doctoral Dissertation Defense Committee, Chair, Dept. of Psychology, 2016, 2017, 2018, 2019, 2020, 2021, 2022
- Doctoral Dissertation Defense Committee, Chair, Dept. of Education, 2014, 2015, 2017, 2018, 2019
- Doctoral Dissertation Defense Committee, Chair, National Catholic School of Social Services, 2019, 2020, 2021
- Doctoral Dissertation Defense Committee, Chair, School of Nursing, 2006, 2008
- CUA Scholarly Communication Project Team, Member (2007), Chair, 2008-2009
- Dean Search Committee, 1992-1994, 1998-1999, 2002-2003, 2006-2007
- Fulbright Review Panel, 2006
- CUA Service Learning Advisory Board, 2001-2002
- CUA Faculty Conversations on Enhancing Teaching and Learning through Technology, Planning Group, 1999-2001
- CUA Initiative on Technology and Teaching, 1998-2001

Dept. of Library and Information Science

- Admissions Committee, 2007-2009, Chair 2010-2012, Member 2013-2015, Member 2018-2022
- Appointments and Promotions Committee, 1991-2022
- Student advisement, 1990-2022
- 4+1 Bachelor to Master program, Program Advisor, 2014-2022
- LIS Minor, Advisor, 2017-2022
- Curriculum Committee, 2020-21 (Member), 2021-2022 (Chair)
- Scholarship & Awards Committee, 2016-2018, 2020-21
- Comprehensive examination editor, 2020-21
- Symposium, Colloquium, Lecture Series Committee, May 2018-May 2020 (Chair)
- Symposium and Colloquium Committee, fall 2016-May 2018
- Bridging the Spectrum Symposium session moderator, 2018, 2019, 2020, 2021

- Organization of Information Core Course Outcomes Assessment, 2019, 2020
- The Information Professions in Society Core Course Outcomes Assessment, 2019, 2020
- Community Services Librarianship, Course of Study Review and Revision, 2020
- Organization of Information, Course of Study Review and Revision, 2019
- Organization of Information, Competency and Course Offerings Review, 2018-2019
- Accreditation presentation, Chair, June 2015-August 2016
- Interim Co-Chair, June 2015-August 2016.
- Blended/OWL Learning Committee, spring 2016-2018
- Technology Committee, fall 2016-2017
- Comprehensive examination editor, 2016-2017, reader (every year since 1990)
- LIS Advisory Board, 2015-2016 (chair); fall 2016- May 2018 (member)
- Committee on Planning and Assessment, 2015-2016 (chair)
- Senior Faculty Committee, 2014-2016.
- Accreditation Steering Committee, 2014-2016 (Chair, 2015-2016)
- Accreditation Students Standard Committee, co-chair, 2014-2016
- Accreditation Mission, Goals, and Objectives Standard Committee, co-chair, 2014-2016
- Accreditation Curriculum Standard, member 2014-2-16
- Accreditation Administration and Finance Standard, member 2014-2016
- Cultural Heritage Information Management Project (IMLS-funded), Co-PI, 2012-2015
- Cultural Heritage Information Management Forum (scheduled for June 2015), Co-Organizer, 2013-2015
- Health Information Technology Interim Review Committee, 2015 (chair)
- Health Sciences Librarianship Advisory Group, 2015- (chair)
- Comprehensive examination editors, 2013-2014, 2016-2017
- National Digital Stewardship Alliance liaison, 2011-2014
- Advisory Board, Chair 2010-2012
- Academic Honesty Committee, Chair, 2008-2012
- Blended Learning Committee, 2010-2012
- Colloquium Committee, 2010-2012
- Comprehensive Examination Administration, 2010-2012
- Cultural Heritage Information Management Advisory Committee, 2010-2012 (chair), 2013-
- Curriculum Committee, 1991-2003, 2007-2009, Chair 2010-2012, member 2013-
- Curriculum Subcommittee on Comprehensive Examination, Chair 2009-2012
- Health Information Technology Advisory Board, Chair 2010-2012. Member 2013-
- Health Sciences Advisory Committee, 2009, Chair 2010-2012. Member 2013-
- HIT Expert Forum, Chair 2012. Member 2013-2015
- Health Information Technology Student Group Advisor, 2011-2012
- State Council for Higher Education of Virginia, SLIS Representative, 2010-2012
- Symposium Planning Committee, 2010-2012
- Website Management Team, Chair, 2010-2012
- Urban School Librarianship Project (IMLS-Funded), PI, 2007-2011 (chair, 2010-11)

- Failing Grades Committee, 1995-1997 (chair), 2000-2001 (chair), 2004-2005 (chair), 2007 (chair)-2011
- Faculty Search Committee, 1994-1998, 2002-2004, 2006 (chair), Fall 2007-2009, Chair fall 2009-2012
- Recruitment Committee, Chair 2010-2012
- Strategic Planning Committee, Chair 2010-2012
- Technology Committee, 2010-2012
- Accreditation Advisory Committee, 2007-2009
- Accreditation Coordinating Committee, 2007-2009
- Accreditation Steering Committee, 2007-2009
- SLIS Advisory Group, 2007-2009
- Accreditation Curriculum Standard Committee, Co-chair, 2007-2009
- Accreditation Faculty Standard Committee, Co-chair, 2007-2009
- LSC 551 Information Organization Review Team, Co-chair, 2008-2009, 2015-2016.
- Curriculum Subcommittee on Portfolios, 2009
- LSC 555 Information Systems in Libraries and Information Centers Review Team, contributor, 2008-2009
- Redesign of LSC 730 Use and Users of Libraries and Information. 2009-
- Development of a metadata institute that was taught as LSC 715 Organization of Internet Resources in 2008. The institute is being revised and will be offered in 2010 under a new course title.
- Development of lesson plans, assignments, and evaluation rubrics for LSC 606, Cataloging and Classification, for the School's NCATE accreditation. 2008
- Howard and Mathilde Rovelstad Scholarship Committee, Chair, 2004-2007
- Assistant Dean Search Committee, Chair, Fall 2007
- Liaison to the Association for Library Collections and Technical Services to bring its preconference program, Cataloging Education and Employer Expectations, to CUA during the 2007 American Library Association Annual Meeting in Washington, D.C.
- Organizer of the colloquium presentation and reception for Tamar Sadeh of Ex Libris on PRIMO June 2007
- Practicum review and design (work with potential supervisors, such as the American Indian Museum internship description revision) 2006-
- Comprehensive examinations (edits, proctoring, and grading), 1990-
- SLIS Web site redesign: Comments and suggestions. Fall 2007
- Conducted surveys of current students and alumni in preparation for the 2005 re-accreditation, 2004-2005
- Technology Committee, 1992-1999 (chair, 1996-1998), 2002-2003 (member)
- Colloquia Committee 1997-1999, 2002-2003.
- Advisor of the CUA Student Chapter of the American Society for Information Science and Technology, 2002-2003
- Visiting Professor Search Committee, 1999, 2000, 2001
- Leader, Participation in the CORC experiment, 1999-2000
- Advisor of the Special Libraries Association Student Chapter, 1993-1999; the group was recognized for outstanding leadership by SLA in 1999.

- COA planning Committee, Task Force on Electronic Presentation of SLIS Reports (team leader) 1997-1998
- COA Planning Committee, Subcommittee on Technology 1996-1998
- NLM practicum coordinator, 1997-1998
- Computer Literacy Workshops: Assisted with the development and evaluation of the workshops, 1996-1998
- Leader, Participation in the InterCat project, 1995-1997

APPENDIX B

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MARC 21 Reference Materials

[Part VII: A Summary of Commonly Used MARC 21 Fields](#)

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Part VII:

A Summary of Commonly Used MARC 21 Fields

This is a summary of the MARC 21 tags used most frequently by libraries in entering their own bibliographic records. For full listings of all MARC 21 tags, indicators, and subfield codes, see *MARC 21 Format for Bibliographic Data*.

In the explanations on these pages:

Tags -- The tags (3-digit numbers) are followed by the names of the fields they represent. In this summary, and in the *MARC 21 Format for Bibliographic Data*, if a tag can appear more than once in one bibliographic record, it is labeled repeatable (R). If it can only be used once, it is labeled non-repeatable (NR). For example, a catalog record can have several subjects, so the tags for subject added entries (6XX) are labeled repeatable (R).

Indicators -- The use of indicators is explained in fields where they are used. Indicators are one-digit numbers. Beginning with the 010 field, in every field -- following the tag -- are two character positions, one for Indicator 1 and one for Indicator 2. The indicators are not actually defined in all fields, however. And it is possible that a 2nd indicator will be used, while the 1st indicator remains undefined (or vice versa). When an indicator is undefined, the character position will be represented by the character # (for blank space).

Subfield codes -- All the data in each field (beginning with the 010 field) is divided into subfields, each of which is preceded by a delimiter-subfield code combination. The most common subfield codes used with each tag are shown. Each subfield code is preceded by the character \$, signifying a delimiter. The name of the subfield follows the code.

In general, every field **MUST** have a subfield 'a' (**\$a**). One exception that is often seen is in Field 020 (ISBN), when the ISBN information (subfield **\$a**) is unavailable but the price (subfield **\$c**) is known. Some subfields are repeatable. In this summary, repeatability is noted for only the more common repeatable subfields.

Examples: Examples follow the explanation for each field. For clarity, one space has been placed between the tag and the first indicator, one space has been placed between the second indicator and the first delimiter- subfield code, and one space has been inserted between the delimiter-subfield code and the subfield data.

010 Library of Congress Control Number -- (LCCN)

(NR, or Not Repeatable)

*Indicators undefined.**Subfield used most often:***\$a** -- Library of Congress control number

Example: 010 ## \$a ###86000988#

020 International Standard Book Number -- (ISBN)

(R, or Repeatable)

*Indicators undefined.**Subfields used most often:***\$a** -- International Standard Book Number**\$c** -- Terms of availability (often a price)**\$z** -- Cancelled/invalid ISBN (R)

Example: 020 ## \$a 0877547637

040 Cataloging source -- (NR)*Indicators undefined.**Subfields used most often:***\$a** -- Original cataloging agency**\$c** -- Transcribing agency**\$d** -- Modifying agency (R)

Example: 040 ## \$a DLC
 \$c DLC
 \$d gwhs

100 Main entry -- Personal name -- (primary author)

(NR; there can be only one main entry)

Indicator 1: Type of personal name entry element

0 -- Forename

1 -- Surname (this is the most common form)

3 -- Family name

Indicator 2 undefined.

Indicator 2 became obsolete in 1990. Older records may display 0 or 1

*Subfields used most often:***\$a** -- Personal name**\$b** -- Numeration

- \$c** -- Titles and other words associated with a name (R)
- \$q** -- Fuller form of name
- \$d** -- Dates associated with a name (generally, year of birth)

Example: 100 1# \$a Gregory, Ruth W.
 \$q (Ruth Wilhelme),
 \$d 1910–

130 Main entry -- Uniform title -- (NR)

Indicator 1: Nonfiling characters

0-9 -- Number of nonfiling characters present (for initial articles, including spaces)

Indicator 2 undefined.

Indicator 2 became obsolete in 1990. (See 100 above.)

Subfields used most often:

- \$a** -- Uniform title
- \$p** -- Name of part/section of a work (R)
- \$l** -- Language of a work
- \$s** -- Version
- \$f** -- Date of a work

Example: 130 0# \$a Bible.
 \$p O.T.
 \$p Psalms.

240 Uniform title (NR)

Indicator 1: Uniform title printed or displayed

0 -- Not printed or displayed
 1 -- Printed or displayed (most common)

Indicator 2: Nonfiling characters

0-9 -- Number of nonfiling characters present (for initial articles, including spaces)

Subfields used most often:

- \$a** -- Uniform title
- \$l** -- Language of a work
- \$f** -- Date of a work

Example: 240 10 \$a Ile mystérieuse.
 \$l English.
 \$f 1978

245 Title Statement (NR)*Indicator 1:* Title added entry

(Should the title be indexed as a title added entry?)

0 -- No title added entry

(indicates a title main entry; i.e. no author is given)

1 -- Title added entry

(the proper indicator when an author given in 1XX; the most common situation)

Indicator 2: Nonfiling characters

0-9 -- Number of nonfiling characters present, including spaces; usually set at zero, except when the title begins with an article; e.g., for *The robe*, the second indicator would be set to 4. The letters *T*, *h*, *e*, and the space following them are then ignored in alphabetizing titles. The record will be automatically filed under "r" -- for *Robe*.

*Subfields used most often:***\$a** -- Title proper**\$h** -- Medium (often used for non-book media)**\$p** -- Name of part/section of a work (R)**\$b** -- Reminder of title (subtitles, etc.)**\$c** -- Remainder of title page transcription/Statement of responsibility

Example: 245 14 \$a The DNA story :
 \$b a documentary history of gene
 cloning /
 \$c James D. Watson, John Tooze.

246 Varying form of title (R)*Indicator 1:* Note/title added entry controller

1 -- Note, title added entry

3 -- No note, title added entry

Indicator 2: Type of title

-- No information provided

0 -- Portion of title

1 -- Parallel title

4 -- Cover title

8 -- Spine title

*Subfield used most often:***\$a** -- Title proper

Example: 246 3# \$a Four corners power review

250 Edition statement (NR)

Indicators undefined.

Subfield used most often:

\$a -- Edition statement

Example: 250 ## \$a 6th ed.

260 Publication, distribution, etc. (Imprint) (R)

Indicator 1: Sequence of publishing statements

-- No information provided

Indicator 2: Undefined

Subfields used most often:

\$a -- Place of publication, distribution, etc. (R)

\$b -- Name of publisher, distributor, etc. (R)

\$c -- Date of publication, distribution, etc. (R)

Example: 260 ## \$a New York :
 \$b Chelsea House,
 \$c 1986.

300 Physical description (R)

Indicators undefined.

Subfields used most often:

\$a -- Extent (number of pages) (R)

\$b -- Other physical details (usually illustration information)

\$c -- Dimensions (cm.) (R)

\$e -- Accompanying material (for example, "teacher's guide" or "manual")

Example: 300 ## \$a 139 p. :
 \$b ill. ;
 \$c 24 cm.

440 Series statement / Added entry--Title

This field was made obsolete in 2008 to simplify the series statement. See 490 and 830.

490 Series statement (No added entry is traced from field) (R)

Indicator 1: Specifies whether series is traced (whether an 8XX tag is also present)

0 -- Series not traced

1 -- Series traced (8XX is in record)

Indicator 2 undefined.

Subfield used most often:

\$a -- Series statement (R)

\$v -- Volume number (R)

Example: 490 1# \$a Colonial American craftsmen

500 General note (R)

Indicators undefined.

Subfield used most often:

\$a -- General note (Used when no specialized note field has been defined for the information. Examples: Notes regarding the index; the source of the title; variations in title; descriptions of the nature, form, or scope of the item.)

Example: 500 ## \$a Includes index.

504 Bibliography, etc. note (R)

Indicators undefined.

Subfield used most often:

\$a -- Bibliography, etc. note

Example: 504 ## \$a Includes bibliographical references.

505 Formatted contents note (R)

Indicator 1: Type of contents note

0 -- Complete contents

1 -- Incomplete contents (used with multivolume set when some volumes are not yet published)

2 -- Partial contents

Indicator 2: Level of content designation

-- Basic

Subfield used most often:

\$a -- Formatted contents note

Example: 505 0# \$a Pride and prejudice -- Emma
-- Northanger Abbey.

520 Summary, etc. note (R)

Indicator 1: Display constant controller

-- Summary

- 1 -- Review
- 2 -- Scope and content
- 3 -- Abstract

Indicator 2 undefined

Subfields used most often

- \$a** -- Summary, abstract, or annotation
- \$b** -- Expansion of summary note

Example: 520 ## \$a This basic guide to parliamentary procedure tells how to conduct and participate in a meeting properly.

600 Subject added entry -- Personal name (R)

Indicator 1: Type of personal name entry element

- 0 -- Forename
- 1 -- Surname (this is the most common form)
- 3 -- Family name

Indicator 2: Subject heading system/thesaurus (identifies the specific list or file which was used)

- 0 -- Library of Congress Subject Headings
- 1 -- LC subject headings for children's literature
- 2 -- Medical Subject Headings
- 3 -- National Agricultural Library subject authority file
- 4 -- Source not specified
- 5 -- Canadian Subject Headings
- 6 -- Répertoire de vedettes-matière
- 7 -- Source specified in subfield \$2

(Note regarding Sears subject headings: The MARC 21 format does not provide an assigned indicator for Sears subject headings. Therefore, an indicator of 7 is used, and the MARC defined code "sears" is placed in subfield \$2.)

Subfields used most often:

- \$a** -- Personal name (surname and forename)
- \$b** -- Numeration
- \$c** -- Titles and other words associated with a name (R)
- \$q** -- Fuller form of name
- \$d** -- Dates associated with a name (generally, year of birth)
- \$t** -- Title of a work
- \$v** -- Form subdivision (R)
- \$x** -- General subdivision (R)
- \$y** -- Chronological subdivision (R)
- \$z** -- Geographic subdivision (R)
- \$2** -- Source of heading or term (used with 2nd indicator of 7)

Example: 600 10 \$a Shakespeare, William,
 \$d 1564-1616
 \$x Comedies
 \$x Stage history.

Example: 600 10 \$a Shakespeare, William,
 \$d 1564-1616
 \$x Knowledge
 \$z Rome
 \$v Congresses.

Notice that subfields \$v, \$x, and \$z in the 600 field are repeatable. Subfields \$v, \$x, \$y, and \$z do not have to be in alphabetical order. They will be in the order prescribed by the instructions given by the subject heading system.

610 Subject added entry -- Corporate name (R)

Indicator 1: Type of corporate name entry element

0 -- Inverted name (not used with AACR2)

1 -- Jurisdiction name

2 -- Name in direct order

Indicator 2: Subject heading system/thesaurus.

See indicator 2 under 600

Subfields used most often:

\$a -- Corporate name or jurisdiction name as entry element

\$b -- Subordinate unit (R)

\$v -- Form subdivision (R)

\$x -- General subdivision (R)

\$y -- Chronological subdivision (R)

\$z -- Geographic subdivision (R)

\$2 -- Source of heading or term (used with 2nd indicator of 7)

Example: 610 10 \$a United States.
 \$b Army Air Forces
 \$v Biography.

650 Subject added entry -- Topical term (Most subject headings fit here.) (R)

Indicator 1: Level of subject

-- No information provided

Indicator 2: Subject heading system/thesaurus

(identifies the specific list or file which was used)

0 -- Library of Congress Subject Headings

1 -- LC subject headings for children's literature

- 2 -- Medical Subject Headings
- 3 -- National Agricultural Library subject authority file
- 4 -- Source not specified
- 5 -- Canadian Subject Headings
- 6 -- Répertoire de vedettes-matière
- 7 -- Source specified in subfield \$2

Note regarding Sears subject headings: The MARC 21 format does not provide an assigned indicator for Sears subject headings. Therefore, an indicator of 7 is used, and the MARC defined code "sears" is placed in subfield \$2.)

Subfields used most often:

- \$a** -- Topical term
- \$v** -- Form subdivision (R)
- \$x** -- General subdivision (R)
- \$y** -- Chronological subdivision (R)
- \$z** -- Geographic subdivision (R)
- \$2** -- Source of heading or term used with 2nd indicator of 7)

Example: 650 #0 \$a Theater
 \$z United States
 \$v Biography
 \$v Dictionaries.

Notice that subfields \$v, \$x, and \$z in the 650 field are repeatable. Subfields \$v, \$x, \$y, and \$z do not have to be in alphabetical order. They will be in the order prescribed by the instructions given by the subject heading system.

651 Subject added entry -- Geographic name (R)

Indicator 1: undefined.

Indicator 2: Subject heading system/thesaurus.

See indicator 2 under 600

Subfields used most often:

- \$a** -- Geographic name
- \$v** -- Form subdivision (R)
- \$x** -- General subdivision (R)
- \$y** -- Chronological subdivision (R)
- \$z** -- Geographic subdivision (R)
- \$2** -- Source of heading or term (used with 2nd indicator of 7)

Example: 651 #0 \$a United States
 \$x History
 \$v Chronology.

Notice that subfields \$v, \$x, and \$z in the 651 field are repeatable. Subfields \$v, \$x, \$y, and \$z do not have to be in alphabetical order. They will be in the order prescribed by the instructions given by the subject heading system.

700 Added entry -- Personal name (R)

Indicator 1: Type of personal name entry element

- 0 -- Forename
- 1 -- Surname (this is the most common form)
- 3 -- Family name

Indicator 2: Type of added entry

- # -- No information provided (most common; co-authors, editors, etc.)
- 2 -- Analytical entry (The values for Indicator 2 changed in 1994 with Format Integration, and older records may display additional values. An analytical entry involves an author/title of an item contained in a work.)

Subfields used most often:

- \$a** -- Personal name
- \$b** -- Numeration
- \$c** -- Titles and other words associated with a name (R)
- \$q** -- Fuller form of name
- \$d** -- Dates associated with a name (generally, year of birth)
- \$e** -- Relator term (such as ill.) (R)
- \$4** -- Relator code (R)

Example: 700 1# \$a Baldrige, Letitia.

710 Added entry -- Corporate name (R)

Indicator 1: Type of corporate name entry element

- 0 -- Inverted name (not used with AACR2)
- 1 -- Jurisdiction name
- 2 -- Name in direct order

Indicator 2: Type of added entry.

See Indicator 2 under 700

- # -- No information provided
- 2 -- Analytical entry

Subfields used most often:

- \$a** -- Corporate name or jurisdiction name as entry element
- \$b** -- Subordinate unit (R)

Example: 710 2# \$a Sunburst Communications (Firm)

740 Added entry -- Uncontrolled related/analytical title (R)

Indicator 1: Nonfiling characters

- 0-9 -- Number of nonfiling characters present (for initial articles, including

spaces)

Indicator 2: Type of added entry. See Indicator 2 under 700

-- No information provided

2 -- Analytical entry

(This field was redefined in 1994 with Format Integration. Prior to 1994, the field was also used for variant titles, such as a different wording on a spine title. In records created since Format Integration, those variant titles appear in a 246 field.)

Subfield used most often:

\$a -- Title

Example: 740 02 \$a Uncle Vanya.

800 Series added entry -- Personal name (R)

Indicator 1: Type of personal name entry element

0 -- Forename

1 -- Surname

3 -- Family name

Indicator 2 undefined.

Subfields used most often:

\$a -- Personal name

\$b -- Numeration

\$c -- Titles and other words associated with a name (R)

\$q -- Fuller form of name

\$d -- Dates associated with a name (generally, year of birth)

\$t -- Title of a work (the series)

\$v -- Volume number

Example: 800 1# \$a Fisher, Leonard Everett.
 \$t Colonial American craftsmen.

830 Series added entry -- Uniform title (R)

Indicator 1 undefined.

Indicator 2: Nonfiling characters

0-9 -- Number of nonfiling characters present (for initial articles, including spaces)

Subfield used most often:

\$a -- Uniform title

\$v -- Volume number

Example: 830 #0 \$a Railroads of America (Macmillan)

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Part VIII:

A List of Other Fields Often Seen in MARC Records

001	Control number
003	Control number identifier
005	Date and time of latest transaction
006	Fixed-length data elements -- additional material characteristics
007	Physical description fixed field
008	Fixed length data elements (See Part X)
022	International Standard Serial Number (ISSN)
037	Source of acquisition
041	Language code
043	Geographic area code
050	Library of Congress call number
060	National Library of Medicine call number
082	Dewey Decimal classification number (the one recommended by the Library of Congress; locally-assigned call numbers may appear elsewhere)
110	Main entry -- Corporate name (less frequent under AACR2 rules)
256	Computer file characteristics
263	Projected publication date (indicates a CIP -- Cataloging in Publication -- record)
306	Playing time
508	Creation/production credits note
510	Citation/references note (review sources)
511	Participant or performer note
521	Target audience note (first indicator: 0 = reading grade level, 1 = interest age level, 2 = interest grade level, 3 = special audience characteristics, 4 = motivation interest level)
530	Additional physical form available note
538	System details note
586	Awards note
656	Index term -- Occupation
730	Added entry -- Uniform title
852	Location
856	Electronic location and access
9XX	Reserved for local use. (They are used by vendors, systems, or individual libraries to exchange additional data)

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Part IX:

The Leader

There are 24 positions in the Leader, numbered from 00 to 23. For fuller explanation, see the *MARC 21 Format for Bibliographic Data*.

- 00-04 Record length (calculated by the computer for each record)
- 05 Record status
 - a = increase in encoding level
 - c = corrected or revised
 - d = deleted
 - n = new
 - p = increase in encoding from prepublication (previous CIP)
- 06 Type of record
 - a = language material
 - c = printed music
 - d = manuscript music
 - e = cartographic material
 - f = manuscript cartographic material
 - g = projected medium
 - i = nonmusical sound recording
 - j = musical sound recording
 - k = 2-dimensional nonprojectable graphic
 - m = computer file
 - o = kit
 - p = mixed materials
 - r = 3-dimensional artifact or naturally occurring object
 - t = manuscript language material
- 07 Bibliographic level
 - a = monographic component part
 - b = serial component part
 - c = collection
 - d = subunit
 - i = integrating resource
 - m = monograph/item
 - s = serial
- 08 Type of control
 - # = no specified type
 - a = archival
- 09 Character coding scheme
 - # = MARC-8
 - a = UCS/Unicode
- 10 Indicator count (always "2")
- 11 Subfield code count (always "2")
- 12-16 Base address of data (calculated by the computer for each record)
- 17 Encoding level
 - # = full level

- 1 = full level, material not examined
- 2 = less-than-full level, material not examined
- 3 = abbreviated level
- 4 = core level
- 5 = partial (preliminary) level
- 7 = minimal level
- 8 = prepublication level (CIP)
- u = unknown
- z = not applicable
- 18 **Descriptive cataloging form**
 - # = non-ISBD
 - a = AACR2
 - i = ISBD
 - u = unknown
- 19 **Multipart resource record level**
 - # = Not specified or not applicable
 - a = Set
 - b = Part with independent title
 - c = Part with dependent title
- 20 **Length of the length-of-field portion** (always "4")
- 21 **Length of the starting-character-position portion** (always "5")
- 22 **Length of the implementation-defined portion** (always "0")
- 23 **Undefined** (always "0")

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Part X:

Field 008 for Books

Field 008 is used for Fixed Length Data Elements ("Fixed Field Codes"). There are 40 character positions in field 008, numbered from 00-39. Undefined positions must contain either a blank (#) or a fill character (|). Positions 00-17 and 35-39 are defined the same way for all media.

The information shown here for positions 18-34 applies only to books. For explanation of all the positions below and for positions 18-34 for other media, see the *MARC 21 Format for Bibliographic Data*.

Note that field 008 has no indicators or subfield codes.

- 00-05 **Date entered on file (YYMMDD)**,
where Y=year, M=month, and D=day
- 06 **Type of date/publication status:**
 - b = no dates given; B.C. date involved
 - e = detailed date
 - s = single known date/probable date
 - m = multiple dates
 - r = reprint/reissue date (Date 1) and original date (Date 2)

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- n = dates unknown
- q = questionable date
- t = publication date and copyright date
- | = no attempt to code

07-10 Date 1/beginning date of publication

11-14 Date 2/ending date of publication

Date fields contain the year(s) of publication. The type of date(s) in these elements are specified in fixed field element 06: Type of date/publication status. (For further details, see the field 008 description in the *MARC 21 Format for Bibliographic Data*.)

15-17 Place of publication, production, or execution

For example:

pk# = Pakistan

cau = California (US)

(For a full list of codes used in these positions, see the *MARC Code List for Countries*.)

18-21 Illustrations (up to 4 codes):

- # = no illustrations
- a = illustrations
- b = maps
- c = portraits
- d = charts
- e = plans
- f = plates
- g = music
- h = facsimiles
- i = coats of arms
- j = genealogical tables
- k = forms
- l = samples
- m = phonodisc, phonowire, etc.
- o = photographs
- p = illuminations
- | = no attempt to code

22 Target audience:

- # = unknown or not specified
- a = preschool
- b = primary
- c = pre-adolescent
- d = adolescent
- e = adult
- f = specialized
- g = general
- j = juvenile
- | = no attempt to code

23 Form of item:

- # = none of the following
- a = microfilm

b = microfiche
c = microopaque
d = large print
f = braille
r = regular print reproduction
s = electronic
| = no attempt to code

24-27 Nature of contents (up to 4):

= no specified nature of contents
a = abstracts/summaries
b = bibliographies (is one or contains one)
c = catalogs
d = dictionaries
e = encyclopedias
f = handbooks
g = legal articles
i = indexes
j = patent document
k = discographies
l = legislation
m = theses
n = surveys of literature
o = reviews
p = programmed texts
q = filmographies
r = directories
s = statistics
t = technical reports
u = standards/specifications
v = legal cases and notes
w = law reports and digests
z = treaties
| = no attempt to code

28 Government publication:

= not a government publication
i = international intergovernmental
f = federal/national
a = autonomous or semi-autonomous component
s = state, provincial, territorial, dependent, etc.
m = multistate
c = multilocal
l = local
z = other type of government publication
o = government publication -- level undetermined
u = unknown if item is government publication
| = no attempt to code

29 Conference publication:

0 = not a conference publication
1 = conference publication

- 30 | = no attempt to code
Festschrift:
0 = not a festschrift
1 = festschrift
| = no attempt to code
- 31 Index:
0 = no index
1 = index present
| = no attempt to code
- 32 Undefined (since 1990) (Earlier records may contain the values 0 or 1)
= Undefined
| = no attempt to code
- 33 Literary form:
0 = not fiction (not further specified)
1 = fiction (not further specified)
c = comic strips
d = dramas
e = essays
f = novels
h = humor, satires, etc.
i = letters
j = short stories
m = mixed forms
p = poetry
s = speeches
u = unknown
| = no attempt to code
- 34 Biography:
= no biographical material
a = autobiography
b = individual biography
c = collective biography
d = contains biographical information
| = no attempt to code
- 35-37 Language:
A three-letter code. For example: eng fre ger spa rus ita

(For a full list of codes used in these positions, see the [MARC Code List for Languages](#).)

- 38 Modified record:
= not modified
x = missing characters (because of characters unavailable in MARC character set)
s = shortened
d = "dashed-on" information omitted
r = completely romanized/printed cards in script
o = completely romanized/printed cards romanized
| = no attempt to code
- 39 Cataloging source:

= national bibliographic agency
c = cooperative cataloging program
d = other sources
u = unknown
| = no attempt to code

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Library of Congress

[Library of Congress Help Desk](#) (10/27/2009)

APPENDIX C

Appendix C. Materials Considered

Exhibit	Description
1009	Excerpts of Zeff, R. L., & Aronson, B., Advertising on the Internet, 1999, 2nd edition, New York : Wiley (<i>"Zeff"</i>).
1009A	Bibliographic and MARC records for <i>Zeff</i> , available at https://lccn.loc.gov/99021722 from the online catalog of the Library of Congress.
1009B	Profile of Library of Congress, available at https://librarytechnology.org/library/2263 from libraries.org, a directory of libraries throughout the world.
1009C	Publisher webpage for <i>Zeff</i> , archived by Internet Archive on February 7, 2001, available at https://web.archive.org/web/20010207180311/http://www.wiley.com/compbooks/catalog/34404-4.htm .
1009D	Library of Congress profile on Internet Archive, available at https://www.loc.gov/item/2003541624/ .
1009E	Citations to <i>Zeff</i> , obtained from Google Scholar.
1014	Excerpts of Baxley, B. (2003). Making the Web work: Defining effective web applications. 1st Edition. Indianapolis, IN: New Riders (<i>"Baxley"</i>).
1014A	Bibliographic and MARC records for <i>Baxley</i> , available at https://lccn.loc.gov/2001094067 from the online catalog of the Library of Congress.
1014B	Profile of Library of Congress Profile of Library of Congress, available at https://librarytechnology.org/library/2263 from libraries.org, a directory of libraries throughout the world.
1014C	Copyright registration record for Baxley, available at https://cocatalog.loc.gov/cgi-bin/Pwebrecon.cgi?Search_Arg=Making+the+Web+work&Search_Code=TALL&PID=u8dh-x6rKr5DwT-eaChrTYyizzPvtL&SEQ=20241120094740&CNT=25&HIST=1 from the public catalog of the US Copyright Office.
1014D	Bibliographic and MARC records for <i>Baxley</i> , available at https://catalog.lib.ncsu.edu/catalog/NCSU1640408 from the online catalog of the North Carolina State University Library.
1014E	Profile of the North Carolina State University Libraries, available at https://librarytechnology.org/library/2153 from libraries.org, a directory of libraries throughout the world.
1014F	Bibliographic and MARC records for <i>Baxley</i> , available at https://catalog.library.tamu.edu/Record/in00001714962#details from the online catalog of the University of Texas A&M Libraries.

1014G	Profile of the University of Texas A&M Libraries, available at https://librarytechnology.org/library/2088 from libraries.org, a directory of libraries throughout the world.
1014H	Review of <i>Baxley</i> posted on December 9, 2002, available at https://boxesandarrows.com/making-the-web-work-designing-effective-web-applications/ and a copy of this review archived on December 21, 2002 by Internet Archive, available at https://web.archive.org/web/20021221121831/http://www.boxesandarrows.com/archives/making_the_web_work_designing_effective_web_applications.php .
1014I	Reviews of <i>Baxley</i> on Amazon webpage for this book. Available at https://www.amazon.com/Making-Web-Work-Designing-Applications/dp/0735711968 .
1016	Korsh, J. F. (1986, January). Data Structures, Algorithms and Program Style, PWS Publishing Co. (“ <i>Korsh</i> ”).
1016A	Bibliographic and MARC records for <i>Korsh</i> , available at https://lccn.loc.gov/85016873 from the online catalog of the Library of Congress.
1016B	The Library of Congress: A Timeline, available at https://www.loc.gov/about/history-of-the-library/timeline/ ; “Gaining access to the world’s largest library,” Library of Congress Information Bulletin, vol. 2, no. 16 (September 6, 1993), available at https://www.loc.gov/loc/lcib/93/9316/index.html , and a web page on how to search the Library of Congress online catalogs, archived on January 20, 1998 by Internet Archive, available at https://web.archive.org/web/19980120124127/http://lcweb.loc.gov/catalog/
1016C	Copyright registration record for <i>Korsh</i> , available at https://cocatalog.loc.gov/cgi-bin/Pwebrecon.cgi?v1=1&ti=1,1&Search%5FArg=Data%20structures%2C%20algorithms%2C%20and%20program%20style&Search%5FCode=TALL&CNT=25&PID=NdeDyPIUKUPYMxYpSwEPHQQuV77km&SEQ=20241112172332&SID=1 .
1016D	Citations to <i>Korsh</i> , obtained from Google Scholar.
App A	Hsieh-Yee CV.
App B	Parts VII to X of Understanding MARC Bibliographic. Available at https://www.loc.gov/marc/umb/um07to10.html .

EXHIBIT 1009A

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1 of 1



BOOK

Advertising on the Internet

Full Record[MARC Tags](#)

Personal name

[Zeff, Robbin Lee.](#)

Main title

Advertising on the Internet / Robbin Zeff, Brad Aronson.

Edition

2nd ed.

Published/Created

New York : Wiley, c1999.

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Contributor biographical information <http://www.loc.gov/catdir/bios/wiley045/99021722.html>Publisher description <http://www.loc.gov/catdir/description/wiley039/99021722.html>Table of Contents <http://www.loc.gov/catdir/toc/onix06/99021722.html>

More Information



LCCN Permalink	https://lccn.loc.gov/99021722
Description	xii, 434 p. : ill ; 24 cm.
ISBN	0471344044 (pbk./website : alk. paper)
LC classification	HF6146.I58 Z43 1999
Related names	Aronson, Brad.
LC Subjects	Internet advertising. Internet advertising--Directories. Internet advertising--Computer network resources. Internet advertising--Rates.
Browse by shelf order	HF6146.I58
Notes	"Wiley Computer Publishing." Includes index.
LCCN	99021722
Dewey class no.	658.8/0025/4678
Type of material	Book

Item Availability



CALL NUMBER	HF6146.I58 Z43 1999 FT MEADE Copy 2
Request in	Jefferson or Adams Building Reading Rooms - STORED OFFSITE
Status	Not Charged
CALL NUMBER	HF6146.I58 Z43 1999 CABIN BRANCH Copy 1
Request in	Jefferson or Adams Building Reading Rooms - STORED OFFSITE

Status

Not Charged

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1 of 1



BOOK

Advertising on the Internet

[Full Record](#)

MARC Tags

000	01487cam a2200361 a 4500
001	4994807
005	20040622191528.0
008	990217s1999 nyua r 001 0 eng
035	— 9 (DLC) 99021722
906	— a 7 b cbc c orignew d 1 e ocip f 19 g y-gencatlg
925	0_ a acquire b 2 shelf copies x policy default
955	— a pc19 to sa00 02-18-99; sc17 02-19-99; sc02 to DDC 02-22-99; bk rec'd to CIP ver. ps07 08-30-99; CIP ver. se45 09-14-99; se50; to BCCD 09-15-99; se03; to BCCD 11-23-99
010	— a 99021722
020	— a 0471344044 (pbk./website : alk. paper)
040	— a DLC c DLC d DLC
050	00 a HF6146.I58 b Z43 1999
082	00 a 658.8/0025/4678 2 21
100	1_ a Zeff, Robbin Lee.
245	10 a Advertising on the Internet / c Robbin Zeff, Brad Aronson.
250	— a 2nd ed.
260	— a New York : b Wiley, c c1999.
300	— a xii, 434 p. : b ill ; c 24 cm.
500	— a "Wiley Computer Publishing."
500	— a Includes index.
650	_0 a Internet advertising.

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650	_0	a Internet advertising v Directories.
650	_0	a Internet advertising x Computer network resources.
650	_0	a Internet advertising x Rates.
700	1_	a Aronson, Brad.
856	42	3 Contributor biographical information u http://www.loc.gov/catdir/bios/wiley045/99021722.html
856	42	3 Publisher description u http://www.loc.gov/catdir/description/wiley039/99021722.html
856	4_	3 Table of Contents u http://www.loc.gov/catdir/toc/onix06/99021722.html
984	—	a gsl

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Item Availability

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CALL NUMBER	HF6146.I58 Z43 1999 FT MEADE Copy 2
Request in	Jefferson or Adams Building Reading Rooms - STORED OFFSITE
Status	Not Charged

CALL NUMBER	HF6146.I58 Z43 1999 CABIN BRANCH Copy 1
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<< prev list next >> search:

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[United States -- Library of Congress](#)

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20540
United States

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Other Info: Went live with Voyager on August 15, 1999. Currently planning to implement the Library Collections Access Platform (LCAP) on FOLIO and EBSCO discovery services in FY25.

Permalink:  <https://librarytechnology.org/library/2263>
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Administration: The director of the library is **Dr. Carla Hayden**.

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Collection size	175,000,000	volumes
Annual Circulation	250,000	transactions

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Library of Congress



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Technology Profile		
	Product Name	Year Contracted
Current Automation System	FOLIO -- EBSCO Information Services	2023
Previous Automation System	Voyager	1998
Discovery Service (w/index)	Ex Libris CDI	
Electronic Resource Management	Electronic Resource Management	
Item ID Type	Barcode	
This library is responsible for the procurement of the library automation system.		

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libraries.org ID	2263
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<http://www.wiley.com/compbooks/catalog/34404-4.htm> Go JAN FEB APR 07 2000 2001 2003 16 captures 26 Jan 2000 – 20 Apr 2005 About this capture

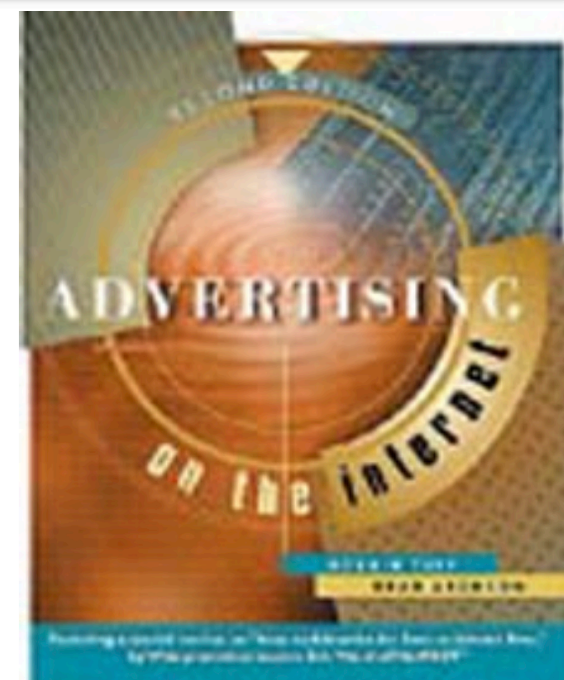
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- Buying and selling ads on your Web site.
- Advertising locally.



\$29.99
ISBN 0471344044
448 pages
Published: 08/02/1999
Paper/Online Data

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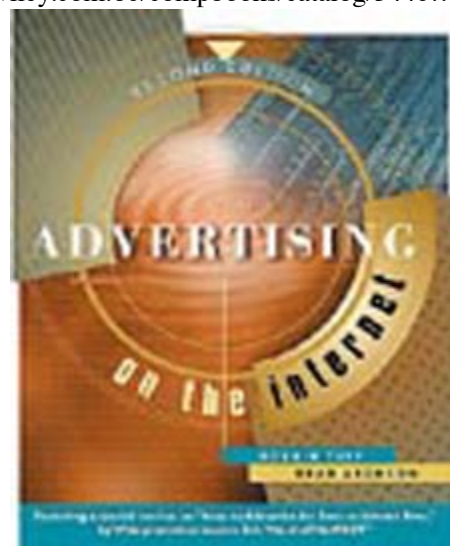
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- Successful online ad models.
- Market research online.
- Direct marketing, including opt-in e-mail, promotions, and sweepstakes.
- Targeting and personalization.
- Internet advertising management tools.
- Traffic measurement and gauging the effectiveness of your ads.
- Buying and selling ads on your Web site.
- Advertising locally.
- Advertising to an international market.
- Legal aspects of Internet advertising.
- How to advertise for free, or almost free (contributed by Eric Ward, the "father" of grassroots advertising strategies)



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ROBBIN ZEFF is President of Zeff Group, a firm specializing in strategic Internet advertising and marketing, research, training, and consulting.

BRAD ARONSON is President of i-frontier, a leading Internet advertising agency.

Table of Contents

- The Internet Advertising Landscape.
- Online Ad Models.
- Internet Direct Marketing.
- The Art and Science of Web Measurement.
- Ad Management.
- Targeting—The Online Advertising Advantage.
- Pricing Online Ads.
- Market Research—Information Is Your Competitive Advantage.
- Buying Online Ads.
- Selling Online Advertising.
- Going Local.

- International Online Advertising.
- Legal Issues Every Internet Advertiser Should Know
- The Internet Advertising Convergence.
- How to Advertise for Free or Almost Free (by Eric Ward).
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- Glossary.
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SOFTWARE, E-RESOURCE

Internet archive

About this Item

Title

Internet archive

Summary

"The Internet Archive "was founded [in 1996] to build an 'Internet library,' with the purpose of offering permanent access for researchers, historians, and scholars to historical collections that exist in digital format," such as Internet sites and other cultural digital artifacts (i.e. movies, interviews, images, etc.). Using the Internet Archive's "Wayback Machine," users can look at their own Web site and track how it has evolved. Plug-ins are made available as needed. "Special Wayback Collections" provide a sense of how events such as September 11, 2001, were recorded digitally. This site is appropriate for anyone doing research on the history of the Internet and for those who want to see how the Internet has changed over the years." "Best Free Reference Web Sites 2002." RUSA Quarterly, Fall 2002; reviewed Feb. 19, 2002.

Created / Published

San Francisco, CA : Presidio of San Francisco

Headings

- Web archives
- Internet--History--Sources

Notes

- Mode of access: World Wide Web.
- Title from home page (viewed on Feb. 13, 2003; last updated Feb. 13, 2003).
- Began in 1996.

Call Number/Physical Location

ZA4080

Library of Congress Control Number

2003541624

LCCN Permalink<https://lccn.loc.gov/2003541624>**Additional Metadata Formats**[MARCXML Record](#)[MODS Record](#)[Dublin Core Record](#)**Part of**[Library of Congress Online Catalog \(1,588,137\)](#)**Format**[Software, E-Resource](#)**Dates**[1996](#)**Language**[English](#)**Subject**[History](#)[Internet](#)[Sources](#)[Web Archives](#)**+ Rights & Access****+ Cite This Item****More items like this**



Software or
E-Resource

SOFTWARE, E-RESOURCE
White House Web sites

The first White House Web site was developed in 1994, during the Clinton Administration. The White House took "snap shots" of each version. These versions are historical materials, "frozen in time," which...



Software or
E-Resource

SOFTWARE, E-RESOURCE
Iraq selected image metadata dataset

This dataset includes a CSV containing metadata derived from the CDX line entry for each "image" file. The fields and their contents are described in the "Dataset Field Descriptions" section. It also...



Software or
E-Resource

SOFTWARE, E-RESOURCE
1000 .gov PowerPoint dataset

Dot gov PowerPoint dataset | One thousand dot gov PowerPoint dataset

"This dataset of 1,000 PowerPoint files was generated from indexes of the Web archives, which were used to derive a random list of 1,000 items identified as PowerPoint files and hosted on...



Software or
E-Resource

SOFTWARE, E-RESOURCE
1000 .gov image dataset

Dot gov image dataset | One thousand dot gov image dataset

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Software or
E-Resource

SOFTWARE, E-RESOURCE
1000 .gov audio dataset

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"This dataset of 1,000 audio files was generated from indexes of the Web archives, which were used to derive a random list of 1,000 items identified as audio files and hosted on...

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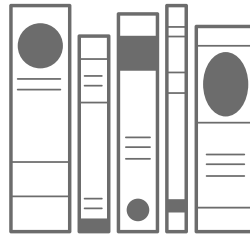


Book

BOOK/PRINTED MATERIAL
2004 Presidential term
Web harvest

2004 U.S. federal agency
 Web harvest

The National Archives and
 Records Administration
 (NARA) conducted a
 harvest of Federal Agency
 public web sites as they
 existed prior to January
 20, 2005. This harvest was
 intended to document
 Federal agencies'...

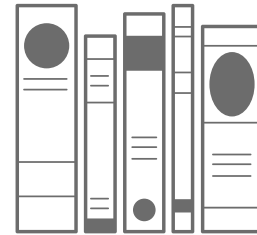


Book

BOOK/PRINTED MATERIAL
Israeli Internet sites
archive

ארכיון אתרי אינטרנט ישראליים

Collection of Israeli
 archived Internet sites
 begun as a research
 project supported by the
 Jewish National &
 University Library of
 Israel. Results form the
 basis of a larger scale pilot
 which will...



Book

BOOK/PRINTED MATERIAL
Unesco archives portal

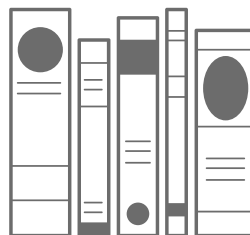
UNESCO Archives Portal
 provides a single
 interactive access point to
 information for archivists
 and users of archives
 worldwide. Users can
 browse through pre-
 established categories or
 search for specific words.
 They can add...



Book

BOOK/PRINTED MATERIAL
Hurricane Katrina & Rita
web archive

The Internet Archive has
 created a web archive
 documenting the historic
 devastation and massive
 relief effort due to
 Hurricanes Katrina and



Book

BOOK/PRINTED MATERIAL
Netarchive.dk

Netarchive.dk collects and
 preserves the Danish
 portion of the internet.
 Includes publications
 about web archiving and
 links to other sites
 concerning digital

Rita in the Gulf Coast
region of the United
States in...

preservation. The site is
also available in Danish.

EXHIBIT 1009E

Ex 1009E
Citations to Zeff

Source Document

Zeff, R. L., & Aronson, B., Advertising on the Internet, 1999, 2nd edition, New York : Wiley.

Selected Early Citations: 2000-2002 (in chronological order)

Malone, T. M. (2000, April). *Relational marketing: Value integrated systems and applications. A metatriangulation analysis of how customer value is created in transaction exchange in electronic commerce and its implications to marketing*. The Union Institute.

Ferguson, R. P. (2000, May). *Effects of location, size, and animation on the response rate to a promotional Web banner*. University of Nevada, Las Vegas.

Gretzel, U., Yuan, Y. L., & Fesenmaier, D. R. (2000, November). Preparing for the new economy: Advertising strategies and change in destination marketing organizations. *Journal of travel Research*, 39(2), 146-156.

Wong, C. Y. (2001, March). Is banner ads totally blind for us?. In *CHI'01 extended abstracts on Human factors in computing systems* (pp. 389-390).

Vijayasri, V. (2001, June). *Arriving at a systems paradigm: Measuring and managing the complexity of organizations and consumers online*. Syracuse University.

Chatterjee, P. (2001). Beyond CPMs and clickthroughs: Understanding consumer interaction with web advertising. In *Internet Marketing Research: Theory and Practice* (pp. 209-217). IGI Global.

Choi, S. M., & Rifon, N. J. (2002, September). Antecedents and consequences of web advertising credibility: A study of consumer response to banner ads. *Journal of interactive Advertising*, 3(1), 12-24.

Stewart, D. W., & Pavlou, P. A. (2002, September). From consumer response to active consumer: Measuring the effectiveness of interactive media. *Journal of the academy of marketing science*, 30(4), 376-396.

EXHIBIT 1014A

LIBRARY | CATALOG



1 of 1



BOOK

Making the Web work : defining effective Web applications

[Full Record](#)[MARC Tags](#)

Personal name

Baxley, Bob.

Main title

Making the Web work : defining effective Web applications / Bob Baxley.

Edition

1st ed.

Published/Created

[Indianapolis, IN] : New Riders, 2003.

[Request this Item](#) [LC Find It](#)

More Information



LCCN Permalink

<https://lccn.loc.gov/2001094067>

Description

xviii, 474 p. : ill. ; 23 cm.

ISBN

0735711968

LC classification	TK5105.888 .B395 2003
LC Subjects	Web site development. Web services.
Browse by shelf order	TK5105.888
LCCN	2001094067
Dewey class no.	005.2/76
Type of material	Book

Item Availability



CALL NUMBER	TK5105.888 .B395 2002 FT MEADE Copy 2
Request in	Jefferson or Adams Building Reading Rooms - STORED OFFSITE
Status	Not Charged

LIBRARY | CATALOG

← 1 of 1 →

BOOK

Making the Web work : defining effective Web applications

[Full Record](#) **MARC Tags**

000	00945cam a22002654a 4500
001	12480681
005	20170823092113.0
008	010724s2003 inua 001 0 eng
906	— a 7 b cbc c orignew d 2 e epcn f 20 g y-gencatlg
925	0_ a acquire b 1 shelf copy x policy default
925	1_ a acquire b 2 shelf copies x policy default
955	— a pc16 2001-07-24 a pv11 2003-02-04, 2 copies to ASCD c jf05 2003-05-07 to subj. d jf07 2003-06-13 to SL e jf12 2003-06-17 to Dewey a aa24 2003-07-31
010	— a 2001094067
020	— a 0735711968
040	— a DLC c DLC d DLC
042	— a pcc
050	00 a TK5105.888 b .B395 2003
082	00 a 005.2/76 2 22
100	1_ a Baxley, Bob.
245	10 a Making the Web work : b defining effective Web applications / c Bob Baxley.
250	— a 1st ed.
260	— a [Indianapolis, IN] : b New Riders, c 2003.
300	— a xviii, 474 p. : b ill. ; c 23 cm.
650	_0 a Web site development.
650	_0 a Web services.

Request this Item

 LC Find It

Item Availability



CALL NUMBER

TK5105.888 .B395 2002 FT MEADE
Copy 2

Request in

Jefferson or Adams Building Reading Rooms - STORED OFFSITE

Status

Not Charged

EXHIBIT 1014B

libraries.org

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- [News](#)
- [Procurement](#)
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found 3 items where the item contains **Library of Congress**. Showing item 2 of 3.

<< prev list next >> search:

Library of Congress

[United States -- Library of Congress](#)

Address: 101 Independence Avenue SE
[Washington, District of Columbia](#)
20540
United States

Phone: 202-707-5000

Connect to: [Library Web Site](#) ✓ [Online Catalog](#)

Library details: **Library of Congress** is a **National** library.
This library is affiliated with [Library of Congress](#) ([view map](#)). The collection of the library contains **175,000,000** volumes. The library circulates **250,000** items per year.

Other Info: Went live with Voyager on August 15, 1999. Currently planning to implement the Library Collections Access Platform (LCAP) on FOLIO and EBSCO discovery services in FY25.

Permalink:  <https://librarytechnology.org/library/2263>
(Use this link to refer back to this listing.)

Administration: The director of the library is **Dr. Carla Hayden**.

Organizational structure: The library is part of a **publicly-funded** organization. It operates on a **Non-profit** financial model.



Affiliations: The library is a member of the [Association of Research Libraries](#)

Collection size	175,000,000	volumes
Annual Circulation	250,000	transactions

 **Wireless:** The library offers **wireless** access to the Internet. <http://www.loc.gov/r/wirelessaccess.html>

Library Hours		
Day	Open	Close
Sunday	Closed	
Monday	8:30 am	8:30 pm
Tuesday	8:30 am	8:30 pm
Wednesday	8:30 am	8:30 pm
Thursday	8:30 am	8:30 pm
Friday	8:30 am	5:00 pm
Saturday	8:30 am	5:00 pm



Library of Congress



map location ✓

Related Libraries

- All members of the [Association of Research Libraries](#) members
- [Directory of ARL Member Libraries](#)
- Libraries located in [Washington](#) (District of Columbia)
- [all National libs in District of Columbia](#)

About libraries.org

libraries.org is a free directory of libraries throughout the world.

This directory is a component of [Library Technology Guides](#)

Google's Exhibit 1017
Google v. BrodT
IPR2025-00472 - Page 00119

Technology Profile		
	Product Name	Year Contracted
Current Automation System	FOLIO -- EBSCO Information Services	2023
Previous Automation System	Voyager	1998
Discovery Service (w/index)	Ex Libris CDI	
Electronic Resource Management	Electronic Resource Management	
Item ID Type	Barcode	
This library is responsible for the procurement of the library automation system.		

Please [contact Marshall Breeding](#) to report corrections about information listed for this library.

[View Privacy and Security Report](#)

Automation Survey: We are conducting a study on the automation systems used in libraries.

This survey should be completed by a person familiar with your libraries use of **FOLIO -- EBSCO Information Services**.

[Respond to the 2024 Library Automation Perceptions Survey](#)

Identifiers	
libraries.org ID	2263
OCLC Symbol	DLC
WorldCat Registry ID	45266

Record History: This listing was created on Aug 9, 1998 and was last modified on Nov 6, 2024.

Updates: Corrections or Updates? Registered members of Library Technology Guides can submit updates to library listings in libraries.org. [Registration](#) is free and easy. Already registered? [login](#). Or, you can report corrections just by sending a message to [Marshall Breeding](#).

[libraries.org](#)

[Update this Entry](#)

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EXHIBIT 1014C

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Public Catalog

Copyright Catalog (1978 to present) at DC4

Search Request: Left Anchored Title = Making the Web work

Search Results: Displaying 1 of 1 entries



Labeled View

Making the Web work : designing effective Web applications / Bob Baxley.

Type of Work: Text

Registration Number / Date: TX0005638390 / 2002-10-24

Title: Making the Web work : designing effective Web applications / Bob Baxley.

Edition: 1st ed.

Imprint: Indianapolis : New Riders, 2002.

Description: 474 p.

Copyright Claimant: New Riders Publishing

Date of Creation: 2002

Date of Publication: 2002-10-23

Variant title: Making the Web work : designing effective Web applications

Names: [Baxley, Robert H.](#)

[New Riders Publishing](#)



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Full Record



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EXHIBIT 1014D

Making the Web work : designing effective Web applications - NC State University Libraries Catalog

NC State Home (<https://www.ncsu.edu>)

NC STATE University Libraries

(<https://www.lib.ncsu.edu/>)

Making the Web work : designing effective Web applications

[Start over](#) [Back to Search](#)

Bob Baxley.

Baxley, Bob

[Indianapolis, IN] : New Riders, 2002, cc2003. / 1st ed. / Book / Print



Where to find it

Hunt Library [i \(HTTPS://WWW.LIB.NCSU.EDU/HUNTLIBRARY\)](https://www.lib.ncsu.edu/huntlibrary) — bookBot

Call Number

TK5105.888 .B395
2003
([Browse Shelf](#))

Format

 Book

Status

Temporarily Unavailable
[Request Item](#)

Authors, etc.

- [Baxley, Bob \(https://catalog.lib.ncsu.edu/?q=%22Baxley%2C+Bob%22&search_field=author\)](https://catalog.lib.ncsu.edu/?q=%22Baxley%2C+Bob%22&search_field=author)

Summary

Making the Web Work is one of the first books to discuss in detail the unique challenges and issues involved in designing Web-based applications and services. The book tackles this subject on three levels by describing a structured method for prioritizing and categorizing individual design decisions, by offering a detailed analysis of various design options, and by documenting established Web interface conventions. Individual chapters focus on conceptual modeling, task flow, information architecture, navigation, form design, online help, and visual design for Web applications. The book concludes with an in-depth analysis of two well-known consumer applications, Amazon.com and Ofoto.

"Applications are clearly at the heart of the future of web interaction. Bob has created a clear and compelling guide for the creation of web activities that successfully and realistically address people's needs and aspirations." --John Rheinfrank, CEO, seeSpace and Clinical Professor, Kellogg School of Management

"Although a corporation's web site can have a huge impact on their brand, image, and customer satisfaction, the unfortunate reality is that web design is not a well-understood discipline within corporate America. This book makes a compelling case for the importance of web design and provides a comprehensive framework and processes for creating web applications that are both useful and usable. Bob's real-life examples and humor make the book approachable and practical for all professionals involved in the creation of web applications." --Jennifer Bailey, Former SVP,

YES [_\(HTTPS://LIBRARYH3LP.COM/CHAT, SKIN=29467&REFERER=HTTPS%3A%2F%2F](https://libraryh3lp.com/chat?skin=29467&referrer=https%3A%2F%2Fcatalog.lib.ncsu.edu%2Fcatalog%2FNCSU1640408)

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Introduction

Onward

1 Common Ground: Defining Web Applications and Establishing the Goals of Design

Design: What Do Users Want? p. 37

2 Putting the User First: Describing Target Users and Product Goals

The Concept Statement: Describing the Products Essence p. 65

3 Deconstructing the Problem: Prioritizing and Categorizing Different Aspects of an Interface

Living with a Model: What the Model Implies About Design Priorities, Resources, and Feedback

11

4 The Conceptual Model: Selecting a Fundamental Motivation

What Defines BananaRepublic.com?

Summary

5 The Structural Model: Understanding the Building Blocks of a Web Interface

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SKIN=29467&REFERER=HTTPS%3A%2F%2F

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By Topic

- [Web site development](#)
- [Web services](#)

Other details

Published: [Indianapolis, IN] : New Riders, 2002, cc2003.	ISBN: 0735711968
Language: English	OCLC Number: 50527969
Notes: Includes index.	Other Identifiers: LCCN: 2001094067
Description: xviii, 474 pages : illustrations ; 23 cm	

View MARC

YES [_ \(HTTPS://LIBRARYH3LP.COM/CHAT/](https://libraryh3lp.com/chat/?SKIN=29467&REFERER=HTTPS%3A%2F%2FNCSTU1640408)
[SKIN=29467&REFERER=HTTPS%3A%2F%2FNCSTU1640408\)](https://libraryh3lp.com/chat/?SKIN=29467&REFERER=HTTPS%3A%2F%2FNCSTU1640408)

29467&REFERER=HTTPS%3A%2F%2FNCSTU1640408)2SU-CATALOG@CHAT.LIBRARYH3LP.COM?SKIN=



MARC for NCSU1640408

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042 |apcc
049 |xsao
050 00 |aTK5105.888|b.B395 2003
082 00 |a005.2/76|222
100 1 |aBaxley, Bob.|0http://id.loc.gov/authorities/names/no2003015901
245 10 |aMaking the Web work :|bdesigning effective Web applications /|cBob Baxley.
250 |a1st ed.
264 1 |a[Indianapolis, IN] :|bNew Riders,|c2002, cc2003.
300 |axviii, 474 pages :|billustrations ;|c23 cm
336 |atext|btxt|2rdacontent
337 |aunmediated|bn|2rdamedia
338 |avolume|bnc|2rdacarrier
500 |aIncludes index.

50580 |g8.|tEditing and Manipulation: Using HTML Input Controls to Accurately Capture Users' Data -- |g9.|tUser Assistance: Communicating with Users Through Help, Status, and Alerts -- |gPt. IV.|tTier 3: Presentation -- |g10.|tLayout: Positioning Elements to Maximize Understanding and Readability -- |g11.|tStyle: Defining Visual Appearance -- |g12.|tText and Labels: Writing for the Web and Calling Things by Their Right Names -- |gPt. V.|tCase Studies -- |g13.|tAmazon.com: Browsing the Aisles of the Web's Supreme Retailer -- |g14.|tOfoto: Looking at the Leading Online Photo Processor.

50500 |gPt. I.|tFoundations -- |g1.|tCommon Ground: Defining Web Applications and Establishing the Goals of Design -- |g2.|tPutting the User First: Describing Target Users and Product Goals -- |g3.|tDeconstructing the Problem: Prioritizing and Categorizing Different Aspects of an Interface -- |gPt. II.|tTier 1: Structure -- |g4.|tThe Conceptual Model: Selecting a Fundamental Motif -- |g5.|tThe Structural Model: Understanding the Building Blocks of a Web Interface -- |g6.|tThe Organizational Model: Organizing and Structuring Content and Functionality -- |gPt. II I.|tTier 2: Behavior -- |g7.|tViewing and Navigation: Creating Consistent Sorting, Filtering, and Navigation Behaviors --

596 |a14

596 |a14

650 0 |aWeb site development. |0http://id.loc.gov/authorities/subjects/sh98004795

650 0 |aWeb services. |0http://id.loc.gov/authorities/subjects/sh2003001435

918 |a1640408

917 |au1640408

Close

EXHIBIT 1014E

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found 3 items where the item contains **North carolina state University**. Showing item 1 of 3.

search:

NC State University Libraries

[North Carolina State University](#)

Address: 2 Broughton Drive
Mail: PO Box 7111
[Raleigh, North Carolina](#)
27695-7111
United States

County: [Wake](#) 

Phone: 919-515-3364

Connect to: [Library Web Site](#) ✓ [Online Catalog](#)

Library details: NC State University Libraries is an **Academic** library.

This library is affiliated with [North Carolina State University](#) ([view map](#)) . The collection of the library contains **5,273,930** volumes. The library circulates **72,695** items per year. The library serves a population of **32,113** FTE Enrollment.

Other Info: Member of the Association of Southeastern Research Libraries (ASERL)

Permalink:  <https://librarytechnology.org/library/2153>
(Use this link to refer back to this listing.)

Administration: The director of the library is **Greg Raschke** .

Organizational structure: The library is part of a **publicly-funded** organization. It operates on a **Non-profit** financial model.

Academic Level: The library Serves an educational institution at the **University** level. The Carnegie Foundation designates this institution as: **Doctoral Universities: Very High Research Activity** (level 15).

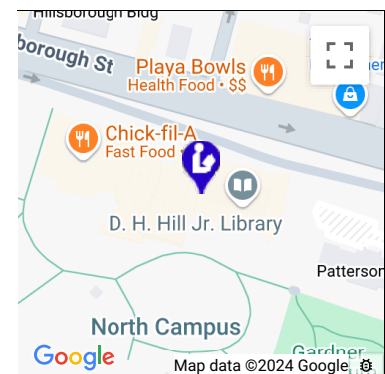


Affiliations: The library is a member of the [Association of Research Libraries](#)

Statistics Academic		
Enrollment	32,113	FTE Students
Collection size	5,273,930	volumes
Annual Circulation	72,695	transactions



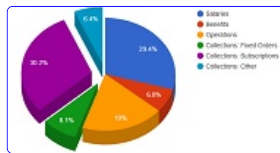
D.H. Hill Library



map location ✓

Related Libraries

- Other libraries with Carnegie class: **Doctoral Universities: Very High Research Activity**
- Other members of [University of North Carolina System](#)
- All members of the [Association of Research Libraries](#) members
- [Directory of ARL Member Libraries](#)
- Libraries located in [Raleigh](#) (North Carolina)
- Libraries located in [Wake](#) county (North Carolina)
- [View map of libraries in Wake County](#)

[View Detailed Statistics](#)

- [all Academic libs in North Carolina](#)

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This directory is a component of [Library Technology Guides](#).

Please [contact Marshall Breeding](#) to report corrections about information listed for this library.

Technology Profile

	Product Name	Year Contracted
Current Automation System	Alma	2023
Previous Automation System	Symphony	2002
Previous Automation System	DRA	1985
Discovery Service (w/index)	Ex Libris CDI	2011
Discovery Interface	Primo	2023
RFID Provider	Biblioteca	
RFID Tag Vendor	Biblioteca	

The library participates in the shared automation system provided by the [University of North Carolina System](#) ([view map](#))

The library's automation system is hosted by the vendor through an **Software-as-a-Service (SaaS)** arrangement.

[View Privacy and Security Report](#)

Automation Survey: We are conducting a study on the automation systems used in libraries. This survey should be completed by a person familiar with your libraries use of **Alma**.

[Respond to the 2024 Library Automation Perceptions Survey](#)

Identifiers

libraries.org ID	2153
OCLC Symbol	NRC
WorldCat Registry ID	5063
NCES LIBID	199193
Ringgold ID	6798

Record History: This listing was created on Dec 10, 1997 and was last modified on Nov 8, 2024.

Updates: Corrections or Updates? Registered members of Library Technology Guides can submit updates to library listings in libraries.org. [Registration](#) is free and easy. Already registered? [login](#). Or, you can report corrections just by sending a message to [Marshall Breeding](#).

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EXHIBIT 1014F



MAKING *the*
WEB WORK

DESIGNING EFFECTIVE WEB APPLICATIONS



Making the Web work : designing effective Web applications /

[Show other versions \(1\)](#)

Main Author:	Baxley, Bob
Format:	Book
Language:	English
Published:	Indianapolis, Ind. : New Riders , 2002.
Edition:	1st ed.
Subjects:	Web site development.

[Holdings](#)[Description](#)[Other Versions \(1\)](#)[Similar Items](#)[Staff View](#)

MARC

LEADER	00000cam a22000008a 4500
001	in00001714962
005	20151024191250.0
008	020629s2002 inua 001 0 eng
015	 a GBA2-V2993
020	 a 0735711968
035	 a (OCoLC)ocm50527969
040	 a UKM c UKM d IXA d TXA d UtOrBLW
049	 a TXAM
082	0 4 a 005.72 2 21

Google's Exhibit 1017

Google v. BrodT

IPR2025-00472 - Page 00134

090			a TK5105.888 b .B39 2002
100	1		a Baxley, Bob.
245	1	0	a Making the Web work : b designing effective Web applications / c Bob Baxley.
250			a 1st ed.
264		1	a Indianapolis, Ind. : b New Riders, c 2002.
300			a xviii, 474 pages : b illustrations ; c 24 cm.
336			a text b txt 2 rdacontent
337			a unmediated b n 2 rdamedia
338			a volume b nc 2 rdacarrier
500			a Includes index.
650		0	a Web site development.
948			a cataloged b h c 2003/1/10 d c e mphilip f 11:54:51 am
994			a E0 b TXA
999			a MARS

999	f	f	 s 7769a121-2482-39a 5- adbd-222a92b55827 i 9fca89e8-3103-3fc3- b131-5eb502a557a0 t 0
952	f	f	p normal a Texas A&M University b College Station c Sterling C. Evans Library d Evans: Library Stacks t 0 e TK5105.888 .B39 2002 h Library of Congress classification i unmediated -- volume m A14829449202
998	f	f	a TK5105.888 .B39 2002 t 0 Evans: Library Stacks

Holdings

Description

Other Versions (1)

Similar Items

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Call Number

Status

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TK5105.888 .B39 2002

Available

Get It: 2 days

EXHIBIT 1014G

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found **21** items where the item contains **TEXAS A&M**. Showing item **6** of **21**.

<< prev list next >> search:

Texas A&M University Libraries

[Texas A&M University](#)

Address: 5000 TAMU
[College Station, Texas](#)
77843-5000
United States

County: [Brazos](#)



Phone: 979-845-3731

Connect to: [Library Web Site](#) ✓ [Online Catalog](#)

Library details: **Texas A&M University Libraries** is an **Academic** library.

This library is affiliated with [Texas A&M University](#) ([view map](#)) . The collection of the library contains **5,618,101** volumes. The library circulates **224,573** items per year. The library serves a population of **69,962** FTE Enrollment.

Permalink: <https://librarytechnology.org/library/2088>
(Use this link to refer back to this listing.)

Administration: The director of the library is **Julie Mosbo Ballestro** .

Organizational structure: The library is part of a **publicly-funded** organization. It operates on a **Non-profit** financial model.

Academic Level: The library Serves an educational institution at the **University** level. The Carnegie Foundation designates this institution as: **Doctoral Universities: Very High Research Activity** (level 15).

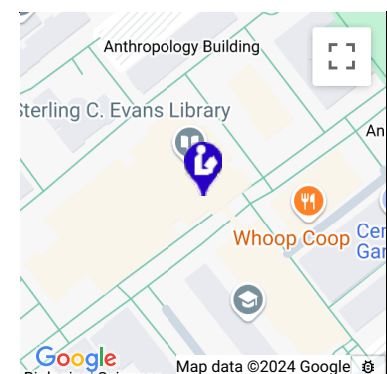


Affiliations: The library is a member of the [Association of Research Libraries](#)

Statistics Academic		
Enrollment	69,962	FTE Students
Collection size	5,618,101	volumes
Annual Circulation	224,573	transactions



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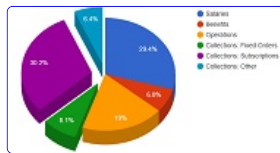
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Previous Automation System	DataPhase	1982
Discovery Service (w/index)	EBSCO Discovery Service	2015
Previous Discovery Index	Primo	2011
Authentication Service	EZproxy	
Digital Collection Management	amalgamation of different tools	
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The design behind the design



December 9, 2002 • Interactivity / Reviews

Making the Web Work: Designing Effective Web Applications

Posted by [Jeff Lash](#)

“ ‘Making the Web Work’ is an excellent read for someone making the transition from print design to web design and has the time to read and reflect on the content.” “[Making the Web Work: Designing Effective Web Applications](#)” is a well-written, meaty book on the entire process of designing interactive websites from a user interface perspective. It should be commended for succinctly describing the entire user-centered design process, but at the same time chided for not focusing more specifically on web applications. A more concerned focus on guidance specific to web applications and a more specific focus on full-fledged web applications would have made this a more

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disappointed.

There are plenty of other books that provide this same basic overview of the user-centered design process, and there is not a significant emphasis on how this information relates to web applications versus traditional websites. Baxley defines a web application as “a specific type of web site that implicitly and explicitly stores and manipulates data unique to each of its users. Put more succinctly, a Web application is software on the Web.” As examples of web applications, he mentions online stores, financial services, travel services, information portals, and online services.

The problem with Baxley’s definition is that it is exceedingly broad. True, a good percentage of sites incorporate these sorts of features, but simply having one interactive feature does not a web application make. If a web application is truly as Baxley defines it —any website that does not give the exact same data to user A that it gives to user B—then nearly all websites would be classified as web applications, and the terms “web application” and “website” would be synonymous.

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Part four—Presentation—discusses Layout, Style, and Text. Baxley manages to fit a large amount of useful tips and examples into a mere 64 pages, but one would think that a larger part of the book would have been devoted to this tier, since it is here that web applications are most easily distinguished from web non-applications from a visual and interactive standpoint.

The final section includes case studies on Amazon.com and Ofoto. Baxley analyzes these sites according to his three tiers and nine layers, providing useful descriptions and screenshots where necessary. The index, often thrown in to books at the end as a metaphorical afterthought, in this case is extremely well designed and readable. Kudos to indexer Cheryl Lemmens for closing the book on such a positive note.

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From cover to cover, "Making the Web Work" weighs in at just over a hefty 470 pages. Though about half of each page is devoted to text, with the extra space used for notes and labels, it is still a lengthy read. It is an excellent resource for someone making the transition from print design to web design and who has the time to read and reflect on the content. Those looking for a shorter way to absorb the information would be well-served by only reading the concise and helpful summaries at the end of each chapter.

Those new to the field of user-centered design will find "Making the Web Work: Designing Effective Web Applications" most useful; intermediate or advanced

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About Jeff Lash [View all posts](#)

Jeff is a recognized thought leader in product management, with over a decade of experience in the development of Web-based products and services. He currently works for SiriusDecisions, a research and advisory service which helps business-to-business companies improve their product management, marketing, and sales effectiveness. Prior to joining SiriusDecisions, Jeff was vice president, product portfolio management for a division of Reed Elsevier, a leading global provider of professional information solutions. He also served in senior-level product management positions across a portfolio of information products serving physicians and medical professionals, and helped design and roll out standardized product development processes across the organization. Jeff joined Reed Elsevier as a member of the user centered design team, working to understand user needs and design easy-to-use products and services, a role he also previously filled at such organizations as MasterCard and XPLANE. Jeff was a co-founder of the Information Architecture Institute (IAI), served three terms on the Advisory Board, and founded IAI's Mentoring Program. He currently blogs about Product Management at [How To Be A Good Product Manager](#) in addition to delivering [bite-sized daily nuggets of product management on Twitter \(@jefflash\)](#).

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For more information:

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BOB BAXLEY



MAKING *the* WEB WORK
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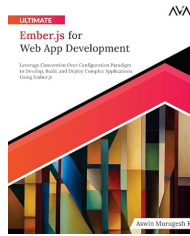
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"Applications are clearly at the heart of the future of web interaction. Bob has created a clear and compelling guide for the creation of web activities that successfully and realistically address people's needs and aspirations." --John Rheinfrank, CEO, seeSpace and Clinical Professor, Kellogg School of Management

"Although a corporation's web site can have a huge impact on their brand, image, and customer satisfaction, the unfortunate reality is that web design is not a well-understood discipline within corporate America. This book makes a compelling case for the importance of web design and provides a comprehensive framework and processes for creating web applications that are both useful and usable. Bob's real-life examples and humor make the book approachable and practical for all professionals involved in the creation of web applications." --Jennifer Bailey, Former SVP, Netscape Communications

About the Author

Bob Baxley is a practicing designer who lives and works in Silicon Valley. Specializing in interaction design for both Web applications and services as well as desktop products, Bob has worked in a variety of corporate and startup environments. He began his career in 1990 as the designer for ClarisWorks, and later worked on a variety of projects for Adobe Systems, Apple Computer, Epiphany, NetObjects, Ameritrade, and others. Currently, Bob runs the Design and Usability teams at myCFO, a leading wealth management firm. In 1985, he received a B.A. in History and a B.S. in Radio/Television/Film from the University of Texas at Austin. He also received a Masters of Liberal Arts from Stanford University in 2000.

Product details

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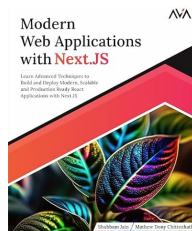
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Does Your Web Design Take Advantage of The Latest Graphic Apps?

Reviewed in the United States on June 7, 2019

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I was somehow intrigued by this subject but when I looked at the copyright date, the date of 2003 turned me off. Design and artistic work is not necessarily influenced by date, but in the world of web applications, I can't help but feel cheated that I didn't notice for the date of publication. These products are trendy and greatly influenced by the latest in graphic design influences. For instance "Flash" design software has just been dropped.

Helpful

Report



Nathan Shedroff

A great book about an important field

Reviewed in the United States on December 17, 2002

Web applications are getting more and more sophisticated--and important and Bob's book is a great start toward understanding how to build Web apps well. Pay special attention to his process as this will work long after the technology itself evolves past it's current state.

3 people found this helpful

Helpful

Report



Jack Dawson

An impeccably-organized encyclopedia of web design

Reviewed in the United States on November 14, 2003

An impeccably-organized encyclopedia of web design.

If I had to base an entire web design class on a single book this would be the one. Bob Baxley's "Making the Web Work" is easily the most comprehensive manual for applying good design to create a great user experience on the web. This book has both breadth and depth--just look at the table of contents. Regardless of your level of web design proficiency you will find more than your money's worth of useful insight here (even if you have already read just about every other web design book!).

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The two case studies of Amazon and Ofoto included at the end of the book are the most

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Leslie Carter

Deconstructing User Interfaces

Reviewed in the United States on September 11, 2007

Mr. Baxley has an insightful perspective illustrated in his "Universal Model of a User Interface." He simplifies the process of moving from conceptual to concrete interface design by deconstructing applications into two separate layers. The top layer contains the structure, behavior & presentation & the bottom layer contains more granular aspects of the top three. By explaining the key factors in designing each of these layers he makes it easier to understand & integrate all the aspects critical to interface design. If you don't have time to read Rosenfeld & Morville's Information Architecture, be sure to read this book as he covers a lot of key IA issues too, though he prefers to call it the "organizational model" behind an application.

One person found this helpful

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Report



Tess A. Lispi

Solid information

Google's Exhibit 1017

Google v. BrodT

IPR2025-00472 - Page 00161

Reviewed in the United States on August 9, 2005

This book is tattered from referencing it and has many passages underlined. Unlike some usability books it is organized in a manner that moves you through the design problem space. It begins with setting definitions and examining the possible forces behind these projects. Then Baxley dives into the meat of the design process through a 3 layered approach. He covers all the bases - from the user point of view to navigation, Help systems, forms, layout and shows how it all fits into the models within the layers. It is well written, making points clear without repetitive passages. I would recommend this book for beginners and old hands. It is a great book, written following the usability rules he is propounding.

4 people found this helpful

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Report



Tom Perkins

Comprehensive and understandable.

Reviewed in the United States on February 26, 2003

Have you noticed how some web sites are warm, inviting, and easy to use, but using other sites can be a difficult and even frustrating experience? The difference lies in their design, the topic of Bob Baxley's seminal, well-researched book Making the Web Work: Designing Effective Web Applications.

Good design is not a hit-or-miss issue. Mr. Baxley provides a comprehensive, in-depth framework for exploring the nine dimensions of web application design space: the Conceptual Model, the Structural Model, the Organizational Model, Viewing and Navigation, Editing and Manipulation, User Assistance, Layout, Style, and Text. Each layer is presented in an easy-to-understand manner, always from the point of view of what "works" for the user. Mr. Baxley uses examples taken directly from the web to illustrate his points: I found myself returning to some of my favorite sites to see how the designers handled issues ranging from their choice of conceptual model (magazine-style catalogs versus reference-style catalogs) to navigation choices to layout alignment.

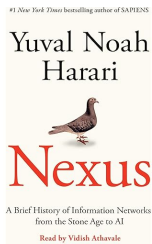
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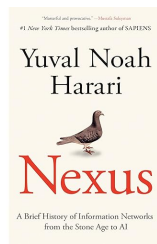
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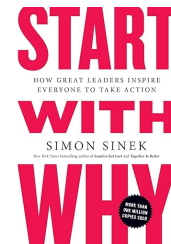
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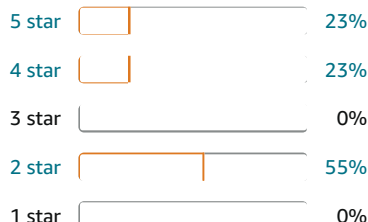
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Customer reviews

3.1 out of 5

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Making the Web Work: Designing Effective Web Applications

by Bob Baxley

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Nathan Shedroff

A great book about an important field

Reviewed in the United States on December 17, 2002

Web applications are getting more and more sophisticated--and important and Bob's book is a great start toward understanding how to build Web apps well. Pay special attention to his process as this will work long after the

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Actxiom

Does Your Web Design Take Advantage of The Latest Graphic Apps?

Reviewed in the United States on June 7, 2019

I was somehow intrigued by this subject but when I looked at the copyright date, the date of 2003 turned me off. Design and artistic work is not necessarily influenced by date, but in the world of web applications, I can't help but feel cheated that I didn't notice for the

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From the United States



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Verified Purchase

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Helpful

Report



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3 people found this helpful

Helpful

Report



Jack Dawson

An impeccably-organized encyclopedia of web design

Reviewed in the United States on November 14, 2003

An impeccably-organized encyclopedia of web design.

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The two case studies of Amazon and Ofoto included at the end of the book are the most comprehensive I have seen: they're about 30 pages each!

About the only gripe I have is that Bob takes the liberty of using lesser known versions of some terms without providing their more known synonyms. For example, while Lou Rosenfeld and Peter Morville have all but established the terms "ambiguous" and "exact" for the two types of classification schemes, Bob prefers to call them "subjective" and "objective," respectively, without providing the alternative terms. Similarly, "organization scheme" is replaced by "classification scheme", and "organization structure" with "model of association." My IA students have enough difficulty keeping one set of terms straight!

Overall, however, this one serious web design book. Highly recommended. Other books I liked:

"Interface Design for Ecommerce Applications" by Paul Gokin (search for this one on the web),

"Designing Web Site Interface Elements" by Eric Eaton, and "Submit Now: Designing Persuasive

Websites" by Andrew Chak.

13 people found this helpful

Helpful

Report



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One person found this helpful

Helpful

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4 people found this helpful

Helpful

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This book is much more than just a book on usability, layout, graphics or web page controls. It is rather a comprehensive approach to web application design, thoughtfully and humorously argued, and interspersed throughout with tips and techniques for the would-be designer. Although it would be a great text for a course on advanced web design, it will become a well-thumbed and indispensable addition to every web developer's library.

5 people found this helpful

Helpful

Report



Danusia

An excellent resource for user researchers!

Reviewed in the United States on April 4, 2003

The back cover of the book states: "Most people involved in the design and specifications of Web applications, whether they're visual designers, engineers, or product marketers do not have a method for understanding or prioritizing design issues." I agree - however, I would add that those of us who are involved in usability testing / user research should also be added to the list. As a consultant working in the field of user research, I give my clients this book - the main reason being that it gives us a common vocabulary and way to think about how to conduct usability testing or user research at any stage of the Web development process. While not written to do so, the book actually provides a "template" for what needs to be tested / researched at each stage. This type of organized thinking can only help those of us in the trenches provide meaningful feedback. One request of the author - a sequel entitled "Applying the Principals of Making the Web Work to User Research" - (while not necessarily the best title - you get the idea!)

6 people found this helpful

Helpful

Report



Maureen Kelly

Great design resource

Reviewed in the United States on February 10, 2003

Bob Baxley's book is the best resource I've found about designing web-based applications. He packs in a lot of information, but the book is so well written and organized that it's easy to digest. And, unlike a lot of design books that sound like they were written from a soapbox, there's no preaching or sleight of hand here. Baxley explains things clearly, and then provides real-world examples that crystallize his thinking and seal the deal.

If you're looking for detailed advice, you'll definitely find it here -- from where to place controls on a table to how to write clear labels and explanatory text for the web. But I found the book's core strength to be the higher-level stuff -- it presents a way to think about UI design of complex, large-scale projects, and weaves in a range of topics including product vision, conceptual models, information architecture,

and navigation. It's a great blend of high-level process and detailed strategies.

The advice in Baxley's book is on target for anyone charged with designing or creating web applications, but could also apply to complex websites that aren't applications, and to applications that aren't on the web.

One person found this helpful

Helpful

Report



Cordell R. Ratzlaff

A great resource!

Reviewed in the United States on January 6, 2003

This is an excellent survey of the considerations involved in designing interactive Web applications.

"Making the Web Work" outlines a sound methodology and process for designing great interactive Web sites, as well as offering specific practical design suggestions and guidelines.

Baxley draws upon proven user interface practices and principles, real-world examples, and case studies to present elegant solutions to common Web application issues. In particular, the chapters on conceptual, structural, and organizational models will benefit anyone who is embarking on designing a Web application.

If you're new to Web application design, "Making the Web Work" is a great introduction to the field; if you're already an experienced designer, you'll find yourself referring to this book again and again for practical suggestions and reminders of what it takes to provide your users with a satisfying and effective Web experience.

2 people found this helpful

Helpful

Report



Jisoo Kim

good resource for web application designers

Reviewed in the United States on January 7, 2003

I want to thank Bob for writing this book.

Although there are tons books written about "web site" design, there are virtually no books written specifically for designing user interface for web applications.

As a practicing UI engineer/designer for over 5 years, focusing on web applications, I still learned lot of useful approaches to dealing with common "road blocks" from this book.

But, what I liked best about this book was the fact that

Bob validated lot of web application UI best practices that some of us knew for some time. But due to various reasons, it wasn't widely publicized for the masses.

For those new to designing UI for softwares or web applications,

read this book to get familiar with recommended approaches.

Then talk with your stake holders and clients to decide best approaches for your own project.

One person found this helpful

Helpful

Report

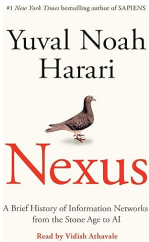
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◀ [See all details for Making the Web Work: Designing Effective Web Applications](#)

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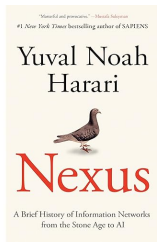
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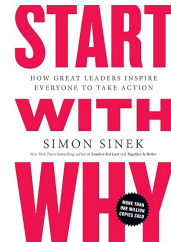
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The Library of Congress: A Timeline

A chronology of key events in the [history of the Library of Congress](#).

For the Congress, 1800-1897

Timeline

April 24, 1800

President John Adams approves an act of Congress that moves the government from Philadelphia to the new capital city of Washington. Five thousand dollars is appropriated for the purchase of books to be housed in the Capitol.

January 26, 1802

President Thomas Jefferson approves a compromise act of Congress which states that the President of the United States will appoint the Librarian of Congress.

1812

The first classified Library catalog is published. It lists 3,076 volumes, and 53 maps, charts, and plans. An adjustment in the Library's rules exempts members of Congress from overdue fines.

August 24, 1814

In retaliation for the capture of York and the burning of its parliamentary building by American
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forces, the British capture Washington and burn the Capitol, destroying the Library of Congress.

January 26, 1815

The House of Representatives approves the purchase of [Jefferson's 6,487-volume personal library](#) for \$23,950 to replace the collection lost in the fire.

December 24, 1851

An accidental fire in the Library on Christmas Eve destroys approximately 35,000 volumes, including nearly two-thirds of Jefferson's library.

August 23, 1853

Designed by Architect of the Capitol Thomas U. Walter, a newly remodeled fireproof iron room for the Library opens in the Capitol's west front. It is widely admired and becomes a tourist attraction.

July 8, 1870

President Ulysses S. Grant approves an act of Congress that centralizes all [U.S. copyright registration and deposit](#) activities at the Library of Congress.

December 1, 1871

Librarian Ainsworth Rand Spofford informs Congress that the rapid flow of copyright deposits into the Library's rooms in the Capitol will soon necessitate a separate Library building.

November 1, 1897

After years of overcrowding in the Capitol, the [monumental new Library building](#) officially opens to the public.

For the Nation, 1898-1960

Timeline

October 28, 1901

The Library announces that its printed catalog cards are now available for sale to libraries around the world.

March 9, 1903

President Theodore Roosevelt issues an executive order directing the transfer of the records of the Continental Congress and the personal papers of George Washington, Thomas Jefferson, Alexander Hamilton, James Madison, James Monroe, and Benjamin Franklin from the State Department to the Library.

September 29, 1921

President Warren G. Harding issues an executive order that transfers the original copies of the Declaration of Independence and U.S. Constitution to the Library for their safekeeping and display. The two documents are sent to their permanent home in the National Archives in 1952.

July 3, 1930

\$1.5 million is appropriated for the purchase of the [Vollbehr collection of incunabula](#), which includes the first Gutenberg Bible in the Western Hemisphere.

March 3, 1931

The Pratt-Smoot Act enables the Library to [provide books for the use of adult blind readers](#) of the United States and its territories.

January 3, 1939

A new [Library of Congress Annex Building](#) opens to the general public.

October 30, 1944

The ballet "[Appalachian Spring](#)," commissioned by the Library, premieres in the Coolidge Auditorium, with a performance by the Martha Graham Dance Company to the music of Aaron Copland.

August 2, 1946

The Legislative Reorganization Act of 1946 is approved, giving the Library's Legislative Reference Service (LRS) permanent status as a separate Library department and providing for the hiring of nationally eminent specialists in 19 broad subject fields.

April 24, 1950

The Library celebrates its [sesquicentennial](#).

September 13, 1954

The Library receives the [Brady-Handy photographic collection](#), containing more than 3,000 negatives made by Civil War photographer Mathew B. Brady and several thousand by his nephew Levin C. Handy.

January 1958

Librarian of Congress L. Quincy Mumford establishes an interdepartmental Committee on Mechanized Information Retrieval to study the "problem of applying machine methods to the control of the Library's collections."

September 6, 1958

President Dwight D. Eisenhower approves an amendment to the Agricultural Trade Development and Assistance Act of 1954 (popularly known as Public Law 480), which greatly strengthens the overseas acquisition program of the Library of Congress.

For the World, 1960-2016

Timeline

November 8, 1965

President Lyndon B. Johnson approves the Higher Education Act of 1965, which allows the Library to acquire and provide cataloging information for research materials "currently published throughout the world that are of value to scholarship." The next year the Library opens its [first shared cataloging office](#) (pp. 8-9 "The Legacy of Shared Cataloging") in London, followed by the first regional office in Rio de Janeiro.

March 27, 1969

With the mailing of the first computer tapes containing cataloging data, the Machine-Readable Cataloging (MARC) Distribution Service is inaugurated.

October 26, 1970

The Legislative Reorganization Act of 1970 transforms and renames LRS. The newly structured Congressional Research Service (CRS) becomes the U.S. Congress's own think tank for objective, nonpartisan policy analysis.

May 28, 1980

The third major Library building on Capitol Hill, the [James Madison Memorial Building](#), opens to the public.

June 10, 1980

The Library announces that the original 1897 Library building has been renamed the Thomas Jefferson Building and its second building, opened in 1939, is now the John Adams Building.

January 1, 1981

The filing of cards into the Library's main card catalog stops, and the online cataloging of the Library's collections officially begins.

June 22, 1994

The Library [debuts its website](#) at the American Library Association annual conference in Miami, Florida.

October 13, 1994

The Library launches its [National Digital Library](#) program aimed at digitizing primary sources related to the study of American history.

October 5, 1999

Metromedia president John W. Kluge donates \$60 million to establish the [John W. Kluge Center](#) for

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Scholars and Prize in the Human Sciences. It is the largest private monetary gift in the Library's history.

April 24, 2000

The Library celebrates its [Bicentennial](#).

September 8, 2001

The first [National Book Festival](#), developed in cooperation with First Lady Laura Bush, takes place.

July 26, 2007

The new [Packard Campus for Audio-Visual Conservation](#) located on a 45-acre site in Culpeper, Virginia, is transferred to the Library by the Packard Humanities Institute. The Institute provided \$155 million for the design and construction of the four-building facility, the largest private gift ever made to the Library.

April 21, 2009

In Paris, Librarian James H. Billington announces the launch of the [World Digital Library](#), an international collaborative project developed with UNESCO and other organizations.

September 14, 2016

Carla D. Hayden is sworn in as the 14th Librarian of Congress. At the time of her swearing in, the Library's collection of more than 162 million items includes more than 38 million cataloged books and other print materials in more than 470 languages; more than 70 million manuscripts; the largest rare book collection in North America; and the world's largest collections of legal materials, films, maps, sheet music, and sound recordings. In fiscal year 2016, the Library employed 3,149 staff members and operated with a total 2016 appropriation of \$642.04 million, including the

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authorization to spend \$43.13 million in receipts.

Gaining Electronic Access to the World's Largest Library

(The Library of Congress is making many of its online files, such as its card catalog and other information sources, available online. Various files are available through the Internet, the LC News Service and America Online, a commercial service. The information in this and related articles provides an introduction to these services.)

LC Online Search is a service of LC that permits anyone outside the Library to search LOCIS (Library of Congress Information Service) over the Internet, a global collection of computer networks that communicate using the same communications methods. In the United States, Internet is managed, in part, by the National Science Foundation.

Anyone, anywhere, with a connection to Internet that permits logging on to remote computers (telnet) may search LOCIS.

Searching hours are Monday - Friday 6:30 a.m. - 9:30 p.m., Saturday 8 a.m. - 5 p.m. and Sunday 1 p.m. - 5 p.m. Eastern time, except national holidays.

The Internet address for telnet (connecting) to LOCIS is locis.loc.gov; the numeric address is 140.147.254.3. LOCIS accepts both 3270 and line mode (such as VT 100).

One can connect to Internet through a variety of sources that are not in any way related to the Library. Sources include computer centers in business, government and academic organizations; cooperative networks; commercial vendors and gateways; private entrepreneurs; electronic bulletin boards; and National Science Foundation-related midlevel networks. Contact your local library or office computer center for information or call the Information Services Referral Desk at InterNIC at (800) 444-4345 for a list of Internet providers.

The Library does not charge for access to LOCIS; however, many Internet providers do charge some fees to connect to Internet. Up to 60 users will be able to access LOCIS at a time.

A LOCIS Quick Search Guide and a LOCIS Reference Manual will be available for file transfer (FTP) over Internet and for sale in printed form. Use Internet's anonymous FTP function to connect to ftp.loc.gov and get documents from the directory /pub/LC.Online. Print copies are available from LC's Cataloging Distribution Service at (202) 707-6100; fax: (202) 707-1334. LC offers hands-on search assistance only to on-site researchers. HELP screens exist for most files and commands.

Access is provided to a portion of LOCIS, with more than 26 million records:

LC Catalog

Several files contain records for materials cataloged and held by the Library; in addition, there are some records for materials cataloged and held by other research institutions and agencies. Together, the materials include a variety of formats. The print and text formats (such as books and serials) may be in any of more than 400 languages. The materials are:

- books
- microforms
- serials (journals, periodicals, etc.)
- music (sheet music, recordings)
- visual materials (microcomputer software and data, including CD-ROMs)
- manuscripts
- thesauri of names and subject terms used on catalog records
- items in the process of being cataloged
- catalog records reported from some other research libraries
- catalogs of some of LC's reading rooms
- records/citations from some bibliographies; e.g., the Handbook of Latin American Studies

Federal Legislation

Several files contain summaries, abstracts, chronologies and status information for legislation (bills and resolutions) introduced in Congress since 1973. Information for the current Congress is up-to-date within 48 hours.

Copyright

Two files contain records for all materials registered for copyright since January 1978. These materials include books, films,

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music, maps, sound recordings, software, multimedia kits, drawings, posters, sculpture, serials, etc. A third file has references to documents that describe copyright legal transactions, such as name changes and transfers.

Braille and Audio

Two files contain records for materials designed for persons unable to read print. The materials include braille, recordings (cassette and flexible disc) and some large-print items. LC's National Library Service for the Blind and Physically Handicapped coordinates the programs for creating these files, designing the materials and distributing them to eligible readers through regional and state centers.

Organizations

The file contains records that abstract and cite foreign laws and regulations as well as journal articles on legal topics. Currently, most countries represented are Hispanic-speaking, though a few are French and English. More languages and countries will be included in the future.

Note: Printing, downloading and screen capture depend on the user's local hardware and software. Access to LC's electronic mail, input/update and internal information screen systems is not available. When connecting to LOCIS each time, numbered choices must be selected from the opening LOCIS MENU.

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The LIBRARY of CONGRESS

Catalogs



The Library provides **four different methods** for searching its catalogs. Each method is briefly described below; choose the *About* pages for more detail.

[[Spanish Translation of this Page](#)]

Information About:

[Word Search](#) | [Browse Search](#) | [Command Search](#) | [Experimental Search System](#)

List of: [Other Research Tools](#) | [Other Library Services](#)

WORD SEARCH

Use **fill-in forms** through the World Wide Web to search for specific **words** or **numbers** in the Library's catalogs. This Z39.50 Gateway provides a simple search form for author and title queries and an advanced search form allowing the use of Boolean operators (and, or, and not), with searches for subjects, names, titles, series, notes, and various numbers. Some of these records have direct links to digitized materials.

The Wayback Machine - <https://web.archive.org/web/19980120124127/http://lcweb.loc.gov:80/catalog/>

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[Simple Name/Title Word Search](#) | [Advanced Word Search](#)
[About Word Searching With Z39.50](#)

HOURS: Monday-Friday (4:40 a.m.-9:30 p.m.), Saturday (8:00 a.m.-5:00 p.m.), Sunday (8:00 a.m.-4:30 p.m.) *All times USA Eastern*

FILES: books, serials, music and sound recordings, cartographic materials, visual materials, computer files, manuscripts, thesauri of names and subjects, in-process books, NUC 1982-1993, PreMARC

BROWSE SEARCH

Use **fill-in forms** through the World Wide Web to browse and then select from alphabetical indexes for the Library's catalogs, including subject cross references. Browse by subject, author (personal, corporate), conference, title, series, Library of Congress Classification (partial call number), Dewey Decimal Number. Also, search for exact standard numbers like International Standard Book Number (ISBN), International Standard Serial Number (ISSN), and Library of Congress Control Number.

[Browse Search Selection Screen](#) | [About Browse Searching](#)

HOURS: Monday-Friday (24 hours), Saturday (until 5:00 p.m.), Sunday (after 11:00 a.m.) *All times USA Eastern*

FILES: books, serials, cartographic materials, subject cross references; does **not** at this time include the other catalog files for music and sound recordings, visual materials, computer files, manuscripts, thesauri of names, in-process books, and NUC 1982-1993

COMMAND SEARCH

Use **commands** that you type to search for **words** and to **browse** indexes for the Library's catalogs, and for additional non-catalog files. This method provides access to LOCIS (Library of Congress Information System, the original mainframe-based retrieval system), with browsable indexes, word searches, Boolean combinations, various display options, set creation, and advanced features for limiting and refining search results. This method **requires** the Internet TELNET function (either telnet or tn3270) in order to connect to LOCIS. The TELNET capability comes with most WWW browsers, but must be configured.

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[TELNET to LOCIS](#) | [TN3270 to LOCIS](#) | [About LOCIS](#)

HOURS: Monday-Friday (24 hours) **not all files are available after 9:30 p.m., Saturday (until 5:00 p.m.), Sunday (after 11:00 a.m.) *possible maintenance 5-8 p.m. All times USA Eastern*

FILES: books, serials, music and sound recordings, cartographic materials, visual materials, computer files, manuscripts, thesauri of names and subjects, in-process books, NUC 1982-1993, PreMARC, catalog records from some other research libraries, and records for some bibliographies; non-catalog files include records for federal legislation, copyright information, braille and audio, and foreign law

EXPERIMENTAL SEARCH SYSTEM

The Experimental Search System (ESS), currently located in the LC WEB research and development area, supports relevancy-ranked searching of catalog records, as well as sorting and emailing search results. Special search features include analyzing results by subject heading and "browsing" the shelf for items with similar LC call numbers. Some of these records have direct links to digitized materials, including selected fulltext, image, video and audio files, at the Library of Congress and elsewhere. This is a test system and results may not be all inclusive.

[Use ESS](#) | [Special Features](#) | [ESS Developments](#)

HOURS: 7 days a week, 24 hours a day

FILES: books, serials, music and sound recordings, cartographic materials, visual materials, computer files, manuscripts, digital objects (multimedia)

Other Research Tools:

[Access to Catalogs at Other Libraries](#)
[Country Studies: Area Handbook Program](#)
[Handbook of Latin American Studies](#)
[Vietnam War Era POW/MIA Database](#)
[THOMAS: US Legislative Information](#)
[GLIN: Global Legal Information Network](#)
[US Copyright Office](#)
[Search Tools for Blind and Physically Handicapped Persons](#)
[American Memory Historical Collections](#)
[Library of Congress Gopher Resources \(LC MARVEL\)](#)
[Library of Congress FTP Resources](#)
[Explore the Internet](#)

Other Library Services:

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Library of Congress

Comments: lcweb@loc.gov (07/30/97)

EXHIBIT 1016C

Copyright

United States Copyright Office

Try the [Copyright Public Records System \(CPRS\)](#) pilot with enhanced search features and filters.

[Help](#)[Search](#)[History](#)[Titles](#)[Start Over](#)

Public Catalog

Copyright Catalog (1978 to present) at DC4

Search Request: Left Anchored Title = Data structures, algorithms, and program style

Search Results: Displaying 1 of 3 entries

[Labeled View](#)

Data structures, algorithms, and program style.

Type of Work: Text

Registration Number / Date: TX0001739787 / 1986-01-14

Title: Data structures, algorithms, and program style.

Notes: Cataloged from appl. only.

Copyright Claimant: P W S Publishers

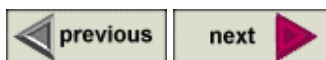
Date of Creation: 1985

Date of Publication: 1986-01-06

Authorship on Application: author of entire text: James F. Korsh.

Names: [Korsh, James F.](#)

[PWS Publishers](#)



Save, Print and Email ([Help Page](#))

Select Download Format

Full Record



Format for Print/Save

Enter your email address:

Email

[Help](#) [Search](#) [History](#) [Titles](#) [Start Over](#)

[Contact Us](#) | [Request Copies](#) | [Get a Search Estimate](#) | [Frequently Asked Questions \(FAQs\) about Copyright](#) | [Copyright Office Home Page](#) | [Library of Congress Home Page](#)

EXHIBIT 1016D

Ex. 1016D
Citations to Korsh

Source Document

Korsh, J. F. (1986, January). *Data Structures, Algorithms and Program Style*. PWS Publishing Co., **Ex. 1016**.

Citations: 1990 – 1998

Azmoodeh, M. (1990). *Abstract Data Types and Algorithms*. Second Edition. Macmillan Education Ltd.

Astrachan, O. (1992, March). On finding a stable roommate, job, or spouse: A case study crossing the boundaries of computer science courses. *ACM SIGCSE Bulletin*, 24(1), 107-112.

Choi, D. W. (1994). *Contingency based inductive classification approach to problem solving support*. Temple University.

Dougherty, J. P. (1998, January). *Structured performability analysis of fault-tolerant parallel and distributed applications*. Temple University.