

E- Resources in the Internet Era An Overview

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Digital Information Environment

- Digital information is growing
- Entire collection is geographically distributed
- But they are linked together with ICT
- Users are distributed and networked
- Librarian should be a facilitator
- to enhance seamless access in this scenario of digital information

Knowledge overload of our time

- 2.5 Million research articles published annually
- 24,000 research journals exist in the world
- 3 lakh books published in the world annually
- There are 8 billion documents in surface web
- 7 million pages are added every day
- 6 million have access to Internet
- Scholarship has become as much a matter of knowing what to skip & read, rather than reading them all

World Wide Web is Chaotic

- Search engines take 6 months to index a page
- Search engines can search flat pages
- Databases / on the fly pages may not get into their notice
- **Semantic Web** is evolving into a web that seeks to provide minute access to undelying data

Meta Search Engines Uses Other Search Engines

- It sends user requests to several other search engines and returns the results from each one.
- Meta search enables users to enter search criteria once, but access several search engines simultaneously
- Metacrawler /Dogpile etc are examples



Deep Web as a Source of E-Resources

- 500 times larger than Surface Web
- 550 billion documents against 8 Million documents in Surface Web
- Over two lakh Deep websites, with deeper content, now exist
- 95 percent of the content are public without subscription fee
- 60 deep web sources are ten times larger than the surface web – with 84 billion documents

Web is a Guide to Information Literacy

- You can learn about any subject
- Can improve your technology skills
- Provides lot of materials for Research
- Clarify many of your doubts
- Improve your interaction across the borders cheaply
- It is a right place to start/end any education

Deep Web Search Engines

- completeplanet.com
- allsearchengine.com
- deepwebtech.com
- lii.com Libraiains Index to Internet
- inktomi.com
- turbo.com

Types of Electronic Sources

- E-books and texts
- E- journals
- Electronic databases
- Distinct sites for Reference (Govt sites/ law sites etc)
- Digital Archives / libraries in CD-ROM and Internet
- Statistical Databases like that of CMIE
- Image/ Audio /Video access sites

Digitizing as Textual data

- Scanning and digitization are two types
- Digitize as bit map image - storing 0 for white & 1 for dark spot – 1 page will have 100 MB
- To store as editable text / ASCII code – through OCR process
- Fine Reader is a cheap and good OCR software

Why Digital Information Grows Easily

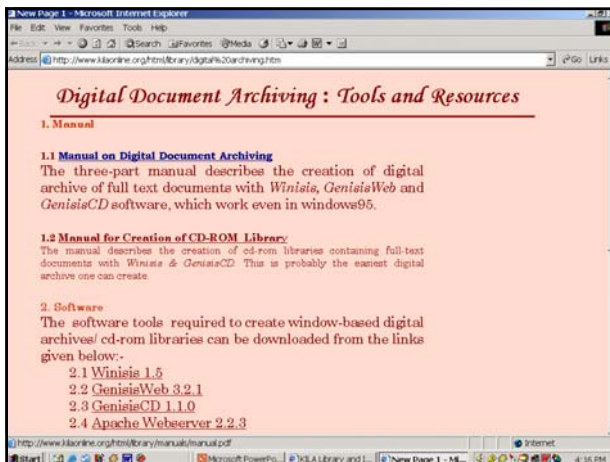
- 1 MB can hold 2000 pages
- DVD can carry 15 lakhs pages
- Network bandwidth doubles every 9 months
- Processor speed doubles in 18 months
- Wireless technology grows rapidly
- Methods of digitization has improved
- Compression & interchange of format possible

Common Formats of Digital Resources

- Text html, pdf
- Images bmp,gif(preferred),jpeg (popular)
- Graphics bmp,tiff.png.pbm etc
- Animation fli,flh,flx etc
- Audio wav , mp3, wma ,mp3pro
- Video avi, real mpeg/mpg

Hyper Text Markup Language

- Hypertext in web pages links to e- docs, images / audio files etc
- Easy to create html by placing html tags in the text
- Html editors will help create websites
- A website in your local network can serve as an information source

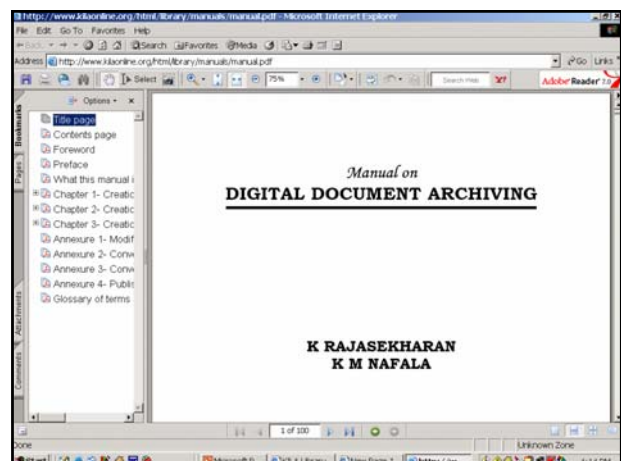


Audio / Video resources

- Web contains audio/video resources
- Streaming audio/video is the current way to avoid copyright issues. It is a complex process
- Media player/ Real player /quicktime etc play the files. Numerous new players are there

Portable document Format

- PDF appears as it is, smaller than word
- less virus threat. Readable in any platform
- It supports links to other sources
- Book marking possible, so as to go to a chapter/page
- Adobe Acrobat/ Reader 6 can convert pdf to speech



Html, Xhtml & xml

- Extended html is the a successor of html.
- Xhtml is a hybrid between html & xml
- Xml is designed to describe data, html was designed to display data
- Xhtml is a hybrid between both

Electronic Books

- Electronic equivalent of books
- Read with e-book reader
- Audio books on Cassette / CD-ROM
- Audio books for education /self-development
- Digital Braille - helps blind people



Online Journals

- Provides the content of a periodic publication
- E-zine is a periodic publication distributed by email/posted in website on a subject area
- Webzine An e-magazine hosted in Web
- Cyber-zine is a magazine available online

E Journal Archives

- Justor - Archive of Scholarly journals of journals, not a current issue database
- Project Muse - Collaboration between libraries and publishers to access e-resources by John Hopkins University
- Science Direct - Current issues of over 2000 scholarly Journals

E Archives

- NetLibrary Database of Ebooks
- Safari Online
- ACM Digital Library
- Engineering Village Databases
- Electronic Journal Library - a free library
- Many such archives are in the web

Ebrary

- Contains Scholarly/ database of professional books
- Over 220 publishers participate in it
- Convert into Ebrary's Exchange Data format
- Relevant pages are streamed on a search
- Ebrary reader a browser plug in help reading easy
- You can save and print pages

Ebsco

- Offers research database, electronic books, journals etc
- Provide access to 100 databases and thousands of e-journals
- Serving for 60 years
- Can use with customer code, user name and password

Problems of electronic subscriptions

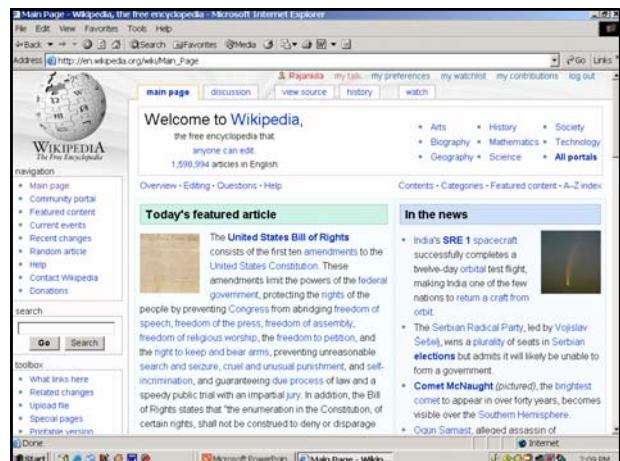
- No tangible record to prove that the journals were subscribed, for auditing purposes
- Prohibitive e-subscription costs due to absence of competition
- Cannot choose e-subscription alone
- No incentive for scholars to come out of the present journal publishing system

Youtube

- **You Tube** is a popular free video sharing website
- Lets users upload, view, and share video clips
- Founded in February 2005
- Includes movie, TV clips, music video amateur content etc.

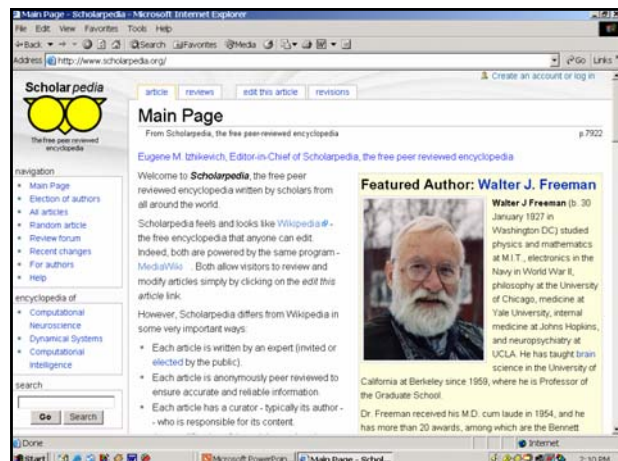
WikiMedia- collective name for Wiki

- Wikipedia : Encyclopedia that allows visitors to write, add or edit documents – community – oriented authoring It uses Wiki engine
- Wiktionary Collaborative dictionary
- Wikibooks Free text books & Manuals you can edit
- Wikiversity Free learning materials and activities
- Wikiquotes Collection of quotes



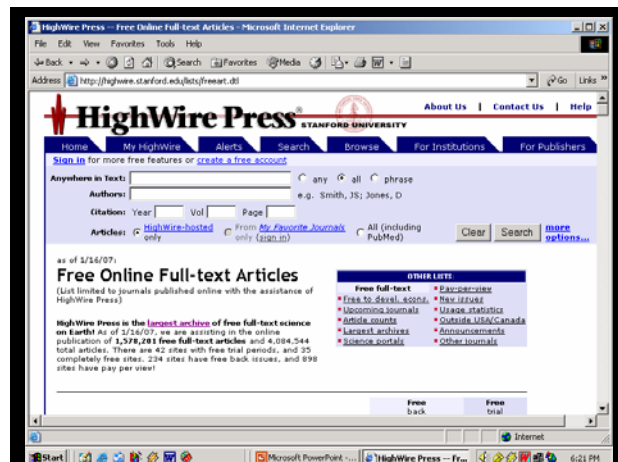
Scholarpedia

- A Wikipedia by scholars-visitors can edit
- Articles are peer reviewed by curator- normally the author
- It looks like Wikipedia
- Powered by MediaWiki –Wiki sotware



www.Wikiseek.com

- Wikiseek Search Wikipedia pages and only
- those sites which are referenced within Wikipedia,
- making it an authoritative source of information.



Google = Search

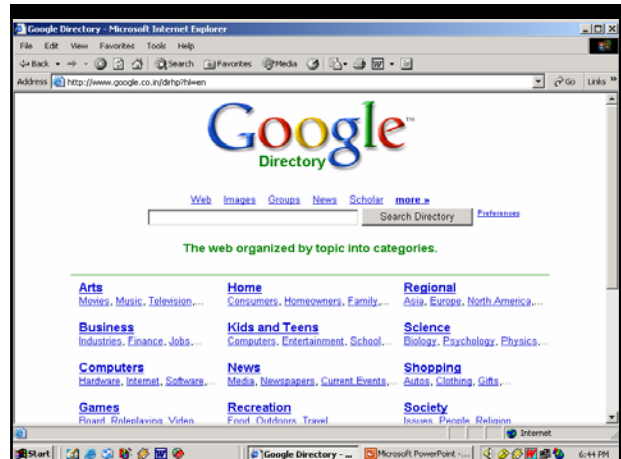
- The word is synonymous with search
- The latest edition of the Merriam-Webster Dictionary use it as a transitive verb
- It is defined as: "to use the Google search engine to obtain information (as a person) on the World"

Google products

- Google Scholar
- Google Images
- Google video
- Google news
- Google Maps
- Google Earth
- Google Patent Search

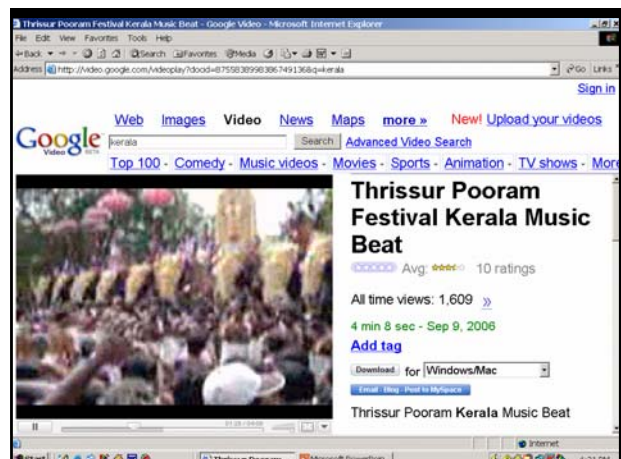
Google Scholar

- Search the full text of books of interest you and where to buy or borrow them
- you'll be able to see a few short excerpts to the entire book, depending on a few different factors.



Google Librarian

- A Guide to Google - for Librarians and information professionals.
- Librarian can master the art of online searching and harness the power of Google
- It provides with tips, tricks, strategies, lesson plans, tutorials, and explanations to make the Google experience the best.

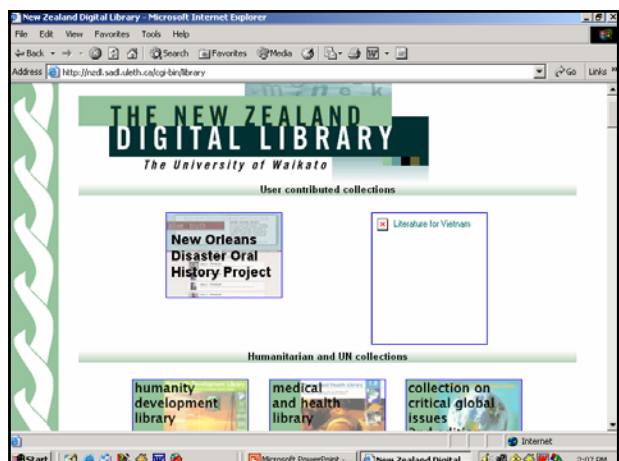
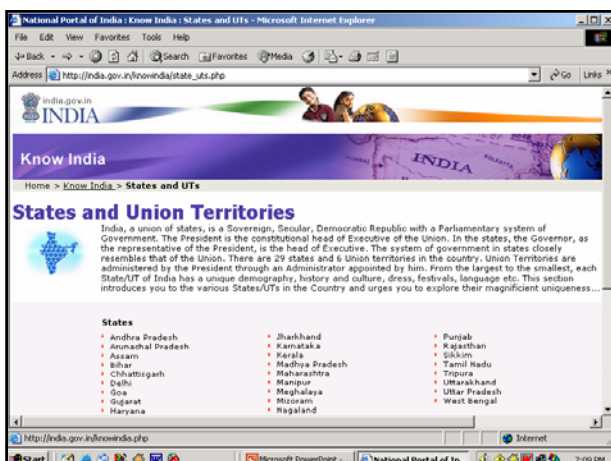
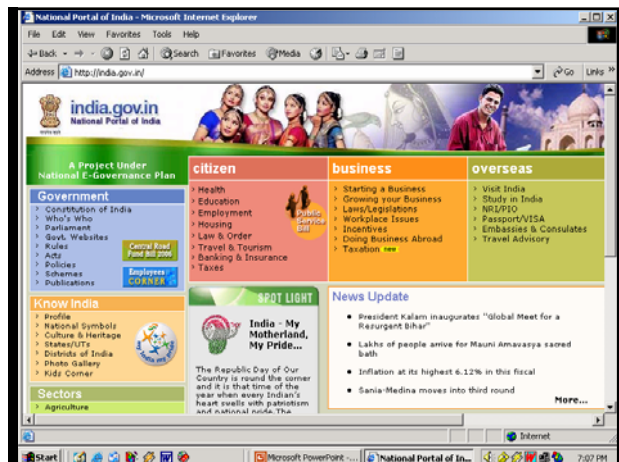
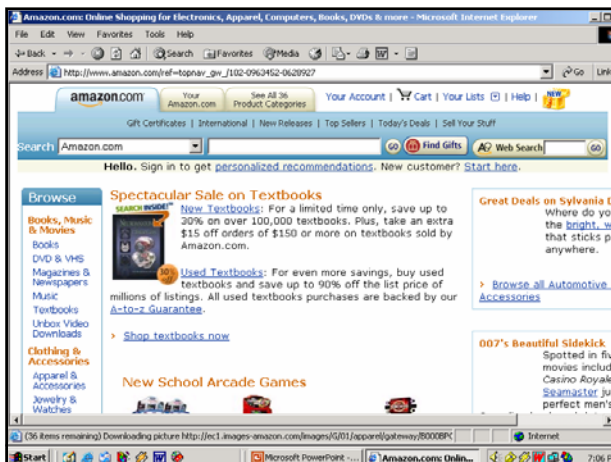


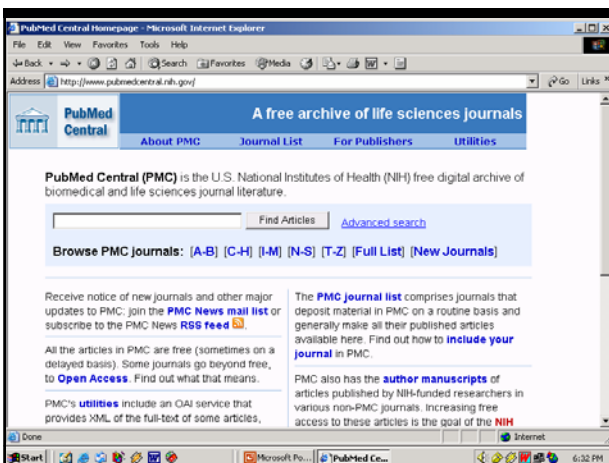
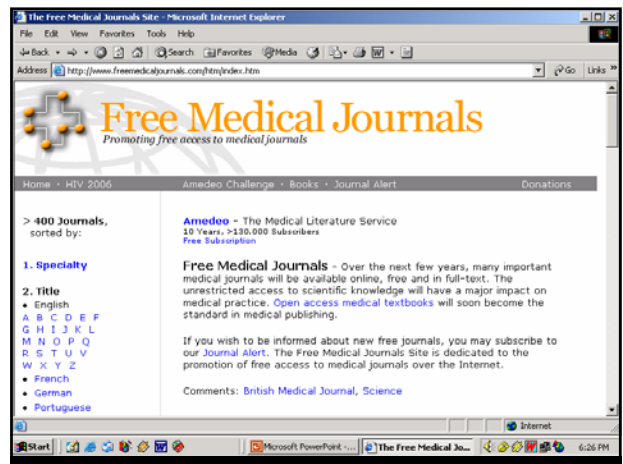
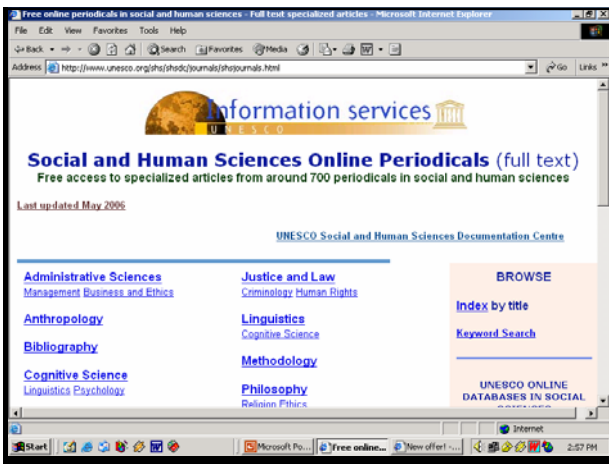
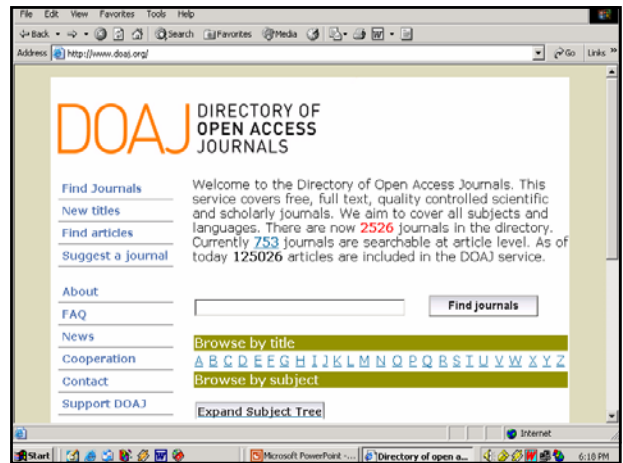
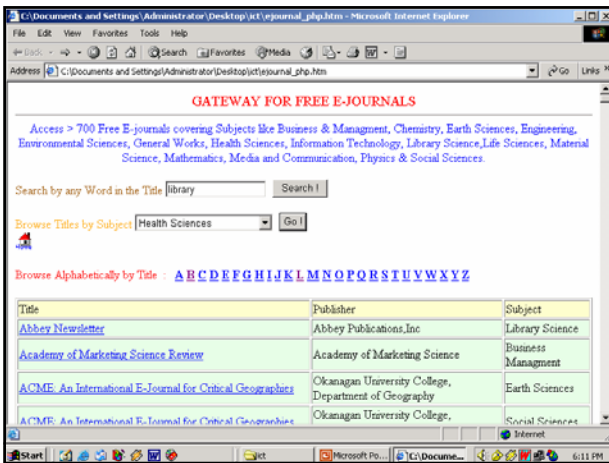
Google Custom Search Engine

- Google Co-op is a free Custom Search Engine that reflects your search interests.
- Specify the websites that you want to search by the google co-op
- Remote users can also add web sites

Book Store - abebooks.co.uk

- Abebooks is a large online marketplace for books
- New, secondhand, rare, or out-of-print books, you can find there, through
- 13,500 independent booksellers selling 80 million books from around the globe.







Copyright

- Protection from copying an original creation
- Not permitted to change the form of material
- **Berne convention** agreed to have copyright 50 years after death of the author. Database has protection for 70 years
- Materials in internet are not public domain materials, if restricted don't violate copyright
- Scanning a copyright work is violation of copyright

Advantages of E-Publishing

- Easy publication and wide dissemination to many quickly. Simultaneous reference possible
- No wear and tear for documents
- Updation/correction of text is easy
- Collaborative /interactive publication possible
- Further processing of data very easy
- Middleman cost can be avoided

Future of E-Publishing

- Print magazines will remain but decline gradually due to cost
- Scientific journal will shift more on to net
- Electronic documents will remain along with print documents
- So create E- Library with available free but useful documents

What Librarians should do

- Build up library as a knowledge house
- Become knowledge managers rather than book keepers
- Learn the subjects the library handle like a professor
- Keep awareness of the information technologies no less than a computer man
- Keep thinking of newer ways of information dissemination
- Improve leadership skills constantly

