Acquisition

Week 2

LBSC 671

Creating Information Infrastructures

Muddiest Points

• Metadata

Aspects of Metadata

- Framework
 - Functional Requirements for Bibliographic Records (FRBR)
- Schema ("Data Fields and Structure")



- Dublin Core
- Guidelines ("Data Content and Values")



- Resource Description and Access (RDA)
- Library of Congress Subject Headings (LCSH)
- Representation (abstract "Data Format")



- Resource Description Framework (RDF)
- Serialization ("Data Format")



RDF in eXtensible Markup Language (RDF/XML)

Thinking About Metadata

Human
Machine

Created By
Human Machine

Indexing

Assisted indexing

HTML 'metadata' field

Search engine

Tonight

Accessioning, appraisal and deaccessioning in archives

• Selection, acquisition and weeding in libraries

Crawling by Web search engines

Selection and Acquisition Criteria

- LAC [Libraries and Archives Canada] will develop:
 - a comprehensive collection of published Canadiana that documents the published heritage of Canada and materials published elsewhere of interest to Canada, and that supports the creation of a comprehensive national bibliography to make that heritage known and accessible,
 - records holdings sufficient to document the functions and activities of the Government of Canada, and
 - a representative collection of records of heritage value that document the historical development and diversity of Canadian society.

Some Types of "Archives"

- Government
 - Legal, cultural
- Institutional
 - Liability, institutional memory
- Manuscript repositories
 - Research, preservation

Some Sources for Collections

- Institutional components
 - Transferred from records management

- Donors
 - Typically deed of gift specifies terms

Purchase

National Archives Records Schedules

- Schedule 1. Civilian Personnel Records
- Schedule 2. Payrolling and Pay Administration Records
- Schedule 3. Procurement, Supply, and Grant Records
- Schedule 4. Property Disposal Records
- Schedule 5. Budget Preparation, Presentation, and Apportionment Records
- Schedule 6. Accountable Officers' Accounts Records
- Schedule 7. Expenditure Accounting Records
- Schedule 8. Stores, Plant, and Cost Accounting Records
- Schedule 9. Travel and Transportation Records
- Schedule 10. Motor Vehicle Maintenance and Operations Records
- Schedule 11. Space and Maintenance Records
- Schedule 12. Communications Records
- Schedule 13. Printing, Binding, Duplication, and Distribution Records
- Schedule 14. Information Services Records
- Schedule 15. Housing Records
- Schedule 16. Administrative Management Records
- Schedule 17. Cartographic, Aerial Photographic, Architectural, and Engineering Records
- Schedule 18. Security and Protective Services Records
- Schedule 20. Electronic Records
- Schedule 21. Audiovisual Records
- Schedule 23. Records Common to Most Offices Within Agencies
- Schedule 24. Information Technology Operations and Management Records
- Schedule 25. Ethics Program Records
- Schedule 26. Temporary Commissions, Boards, Councils and Committees
- Schedule 27. Records of the Chief Information Officer

Collection Development Policies

Mission

- Intended ("statement of purpose"): 92%
- Emergent ("strengths of holdings"): 53%

Scope

- Subject: 84%

- Geographic: 84%

- Time frame: 57%

Anticipated use

– Users: 59%

– Activities: 53%

Basis for Exceptions

- Donor relationship: 70%
- Implicit broadening of scope
 - Risk of destruction: 49%
 - Exceptional opportunity: 30%
- Prestige
 - Publicity value: 15%
 - Attract future resources: 12%
 - Institutional competition: 6%

Evolutionary Policy

- Envision
 - Available materials, future use, existing alternatives
- React
 - Establish decision basis for individual cases
- Evolve
 - Changing mission, resources, opportunities, pressures

Codify

Decide which parts to put in writing (and why!)

Why Codify?

- Develop shared vision with stakeholders
 - Keep resources in line with requirements
 - Minimize unintended policy drift
- Facilitate appropriate donations
 - Solicit in-scope donations
 - Communicate limitations to donors
- Facilitate referrals
- Foster continuity in the decision process

Appraisal

- Value
 - Evidential
 - Informational
- Costs
 - Storage, arrangement, description, preservation, ...
- Stakeholder interests
 - Primary: Institutional needs
 - Primary: Accountability
 - Secondary: Other future record users

Deaccessioning

Space limits

Policy changes

Technology changes

Tonight

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> Selection, acquisition and weeding in libraries

Crawling by Web search engines

A Collection Development Policy

Customer use is the most powerful influence on the Library's collection. ... The other driving force is the Library's strategic plan.

... selections are made to provide depth and diversity of viewpoints to the existing collection and to build the world-class Western History/Genealogy and African American Research Library collections. ...

... The Library provides materials to support each individual's journey, and does not place a value on one customer's needs or preferences over another's. ...

Materials for children and teenagers are intended to broaden their vision, support recreational reading ...

Why Libraries Collect

- Access
 - Current users
 - Future users
 - Social responsibility

Prestige

Selection

- Scope
 - Demographics, research focus, ...
- Quality metrics
 - Publisher, author, impact factor, ...
- Practical factors
 - Cost, language, availability elsewhere, ...
- Use
 - Circulation, inter-library loan, requests, ...

Publishing Infrastructure

- Publishers
 - Intermediation on behalf authors
- Vendors
 - Intermediation on behalf of libraries
 - Value added services
 - Electronic Data Interchange (EDI)
 - Stock profiles (on approval)
 - Shelf-ready books

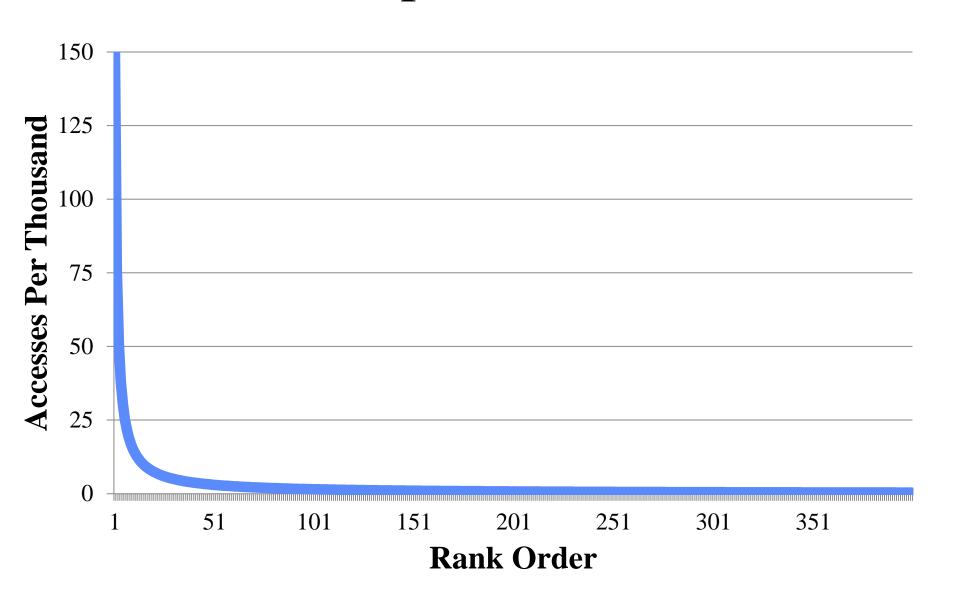
Access models

- Ownership ("just in case")
 - Unlimited use for an unlimited period
 - Right of first sale vs. license restrictions
- Subscription
 - Unlimited (or limited) use for a defined period
 - Single vs. multiple users
- Pay-per-view ("just in time")

Use-Driven Acquisition

- Online catalog includes unpurchased items
- First few access requests cause rental each time
- Next request results in unlimited-use subscription (or ownership)
- Transfers some risk to vendor
 - Lowers cost of low-use items
 - Somewhat raise cost of high use items

Zipf's Law



The "Big Deal"

- Bundled access (usually to serials)
 - Vendor goal: cross-sell lower-demand items
 - Incentive: Access to much more content
 - Sometimes with some delay (e.g., 1 year)
- Risks:
 - Future access to subscription content
 - Future price increases

Open Access

- Self-archiving
 - Personal Web sites
 - Institutional repositories

- Publishing
 - Author pays
 - Volunteer labor

Weeding ("Library Hygiene")

- Presumes some limited asset
 - e.g., shelf space, browsing time, ...
- Anticipated future use
 - Reshelving and circulation statistics
 - Historical value
 - Sufficiency of single copies
 - Last copy doctrine
- Condition
 - Preservation costs

Tonight

Accessioning, appraisal and deaccessioning in archives

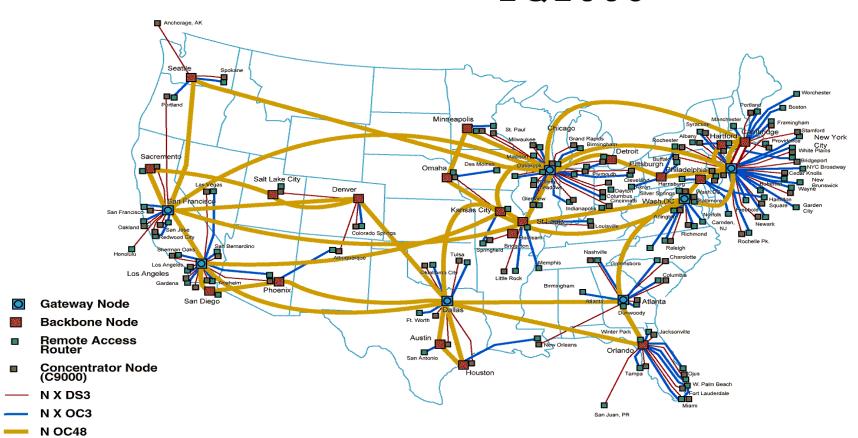
• Selection, acquisition and weeding in libraries

Crawling by Web search engines

The Internet



AT&T IP BACKBONE NETWORK 2Q2000



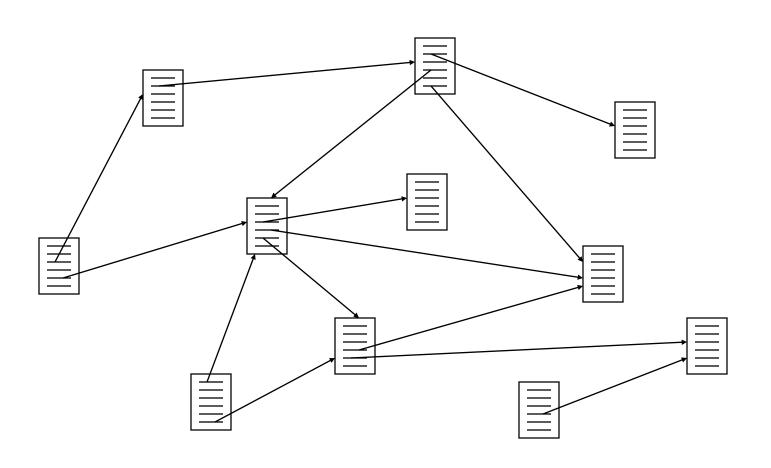
Note: map is not to scale.

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The Web

- The Protocols
 - Uniform Resource Locator (URL)
 - Hypertext Markup Language (HTML)
 - Hypertext Transport Protocol (HTTP)
- Content types
 - Static, dynamic, streaming, transactional
- Access
 - Public, protected, or intranet?

Crawling the Web

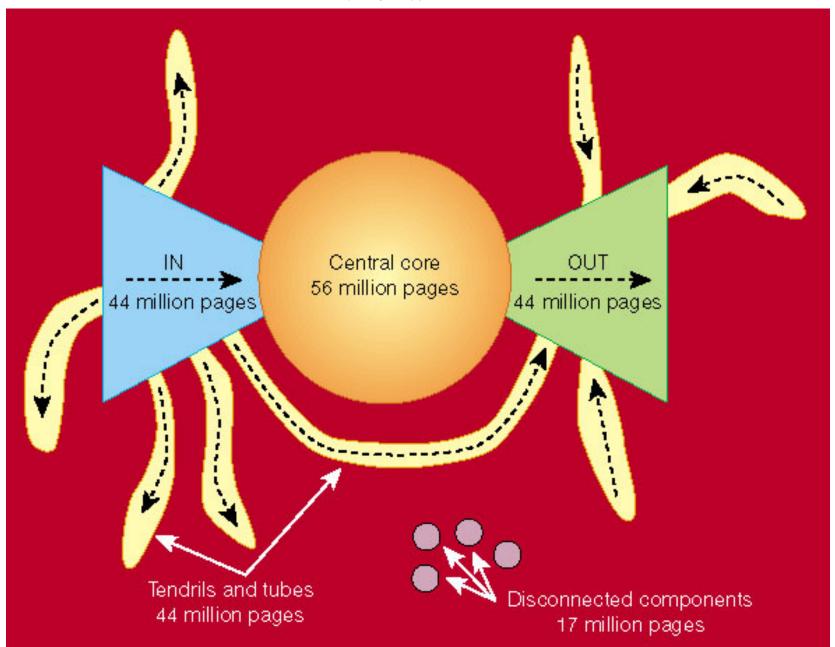


Robots Exclusion Protocol

- Requires voluntary compliance by crawlers
- Exclusion by site
 - Create a robots.txt file at the <u>server's</u> top level
 - Indicate which directories not to crawl
- Exclusion by document (in HTML head)
 - Not implemented by all crawlers
 - <meta name="robots" content="noindex,nofollow">

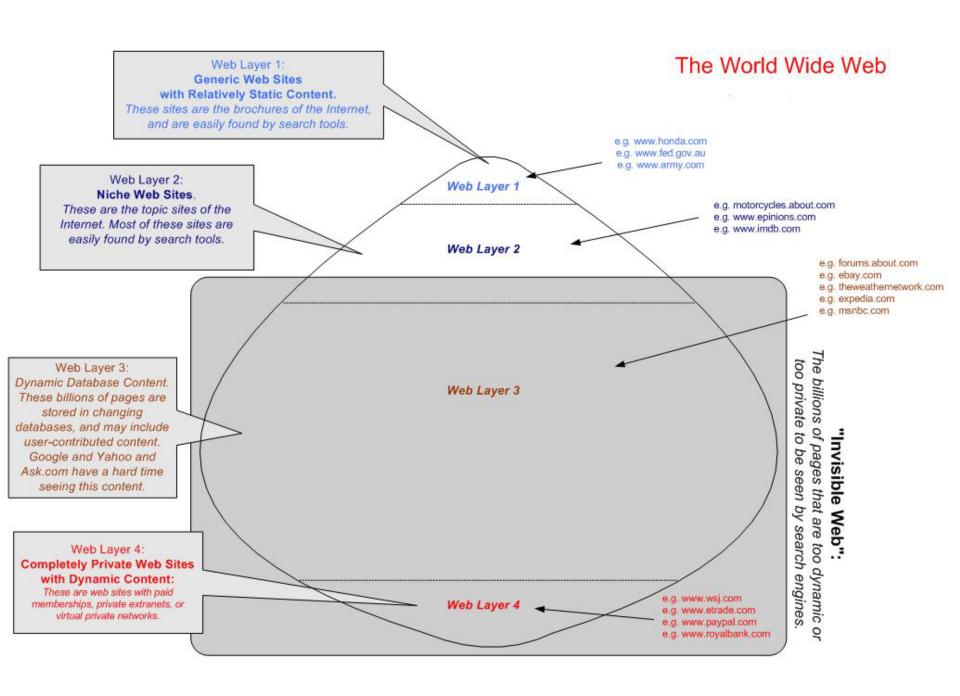
Link Structure of the Web

Nature 405, 113 (11 May 2000) | doi:10.1038/35012155

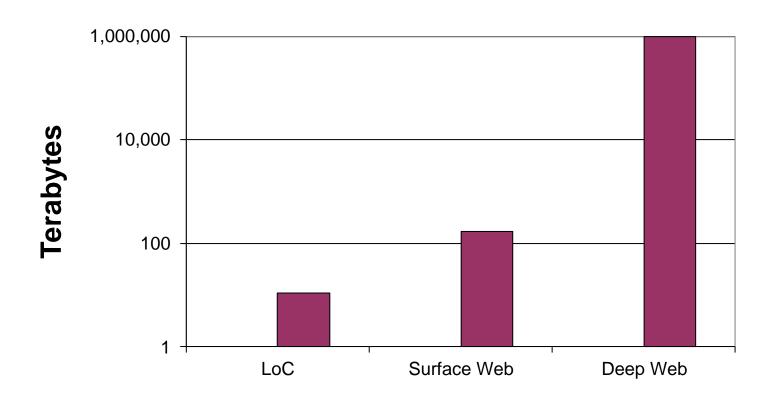


Web Crawl Challenges

- Discovering "islands" and "peninsulas"
- Duplicate and near-duplicate content
 - 30-40% of total content
- Link rot
 - Changes at ~1% per week
- Network instability
 - Temporary server interruptions
 - Server and network loads
- Dynamic content generation



The "Deep Web"

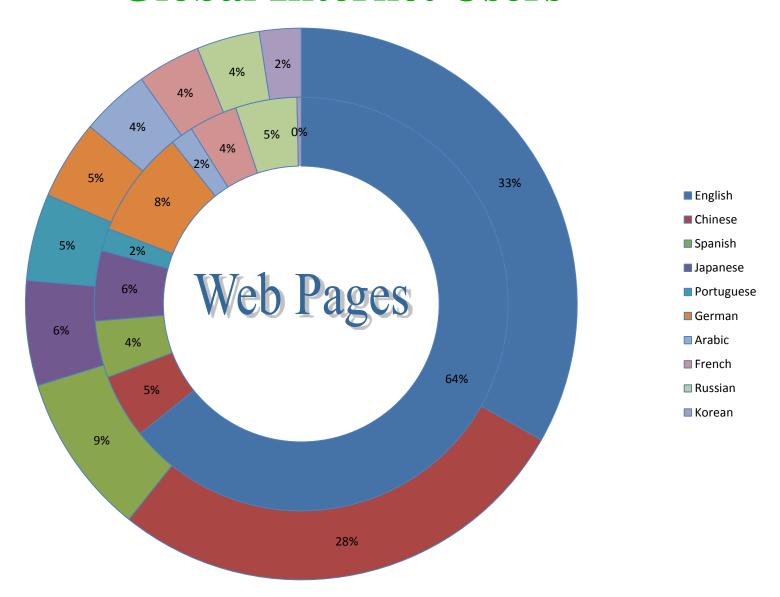


Hands on: The Internet Archive

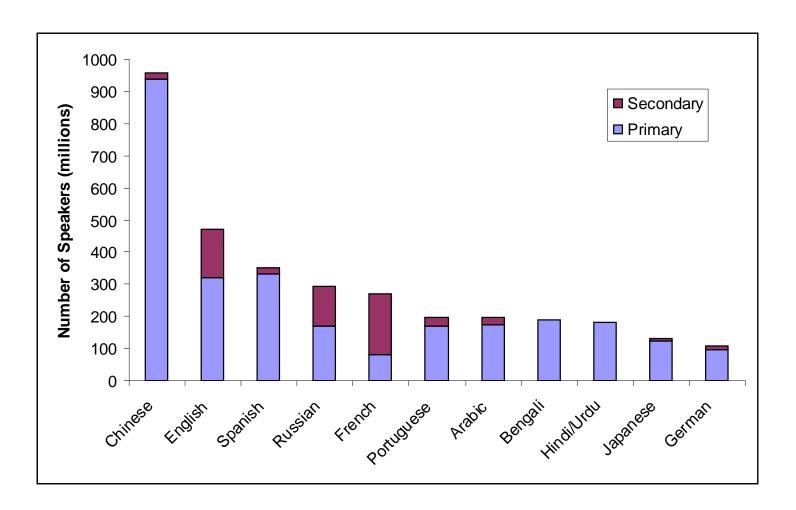
- alexa.com Web crawls since 1997
 - http://archive.org

- Check out the iSchool's Web site from 1998!
 - http://www.clis.umd.edu

Global Internet Users

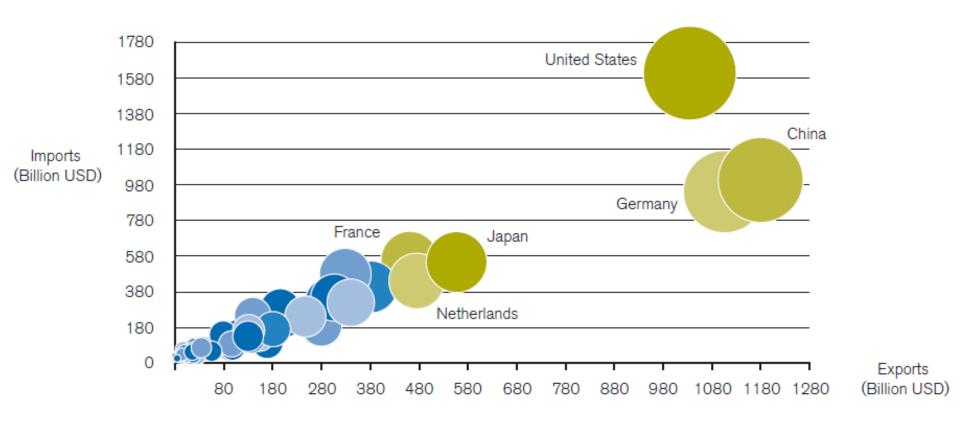


Most Widely-Spoken Languages



Global Trade

Leading economies of merchandise trade, 2009



Thinking About the Issues

• Print

- Physicality closely couples collection and access
- Cost structure shapes production and use
- Management of scarcity

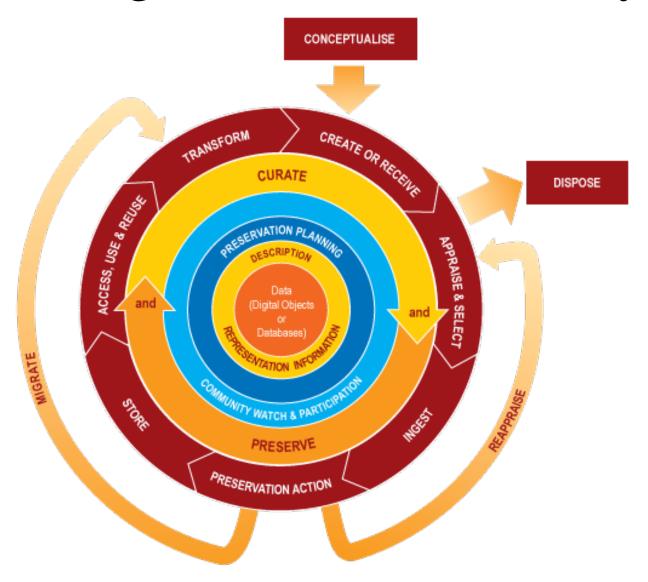
Digital

- Collection and access are more easily separated
- Cost structure shapes production and use
- Management of abundance

Homework G3

- Life Cycle Analysis of your collection
 - Choose no more than 5 content types
- Creation
- Use
- Evolution
- Disposition

DCC Digital Curation Life Cycle



Before You Go

On a sheet of paper, answer the following (ungraded) question (no names, please):

What was the muddiest point in today's class?