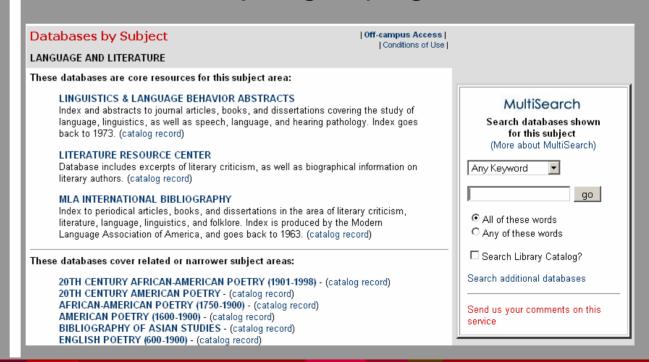
metasearching at NC State

Kristin Antelman
DLF April 20, 2004

background

MultiSearch service developed using BlueAngel MetaStar APIs and local JSP/perl scripting Released August 2002

Two interfaces offered: detailed subject groupings ...



background

and broad subject groupings w/option to select across groups

MultiSearch			
Note: Not all databases are available on this page. Access additional databases through the subject and alphabetical lists. (More about MultiSearch.)			
Any Keyword Any Keyword All of these words Any of these words SEARCH Clear (Advanced Search)			h Library Catalog?
Agriculture & Life Sciences Select All AIDS and Cancer Research Abstracts ASFA Aquaculture ASFA: Aquatic Sciences and Fisheries Abstracts Agricola Agricultural and Environmental Biotechnology Abstracts Algology Mycology and Protozoology Abstracts Animal Behavior Abstracts Bacteriology Abstracts	Humanities & Social Sciences Select All ATLA Religion Database Anthropological Literature Art Index Susiness source elite Communication & Mass Media Complete Dissertation Abstracts ERIC Econlit Findex GPO monthly catalog,	Physical Sciences & Engineering Select All Aluminium Industry Abstracts Applied Science and Technology Index Ceramic Abstracts/World Ceramics Abstracts Computer and Information Systems Abstracts Conference Papers Index Corrosion Abstracts Dissertation Abstracts ElS: Digests of Environmental Impact Statements	General Select All Academic Search Elite Expanded Academic ASAP Funk & Wagnall's New world Encyclopedia General Reference Center Gold General Science Full Text InfoTrac Onefile MasterFILE Premier Newspaper Source OmniFile Full Text Mega Readers Guide Readers' Guide Retrospective

what we like about it

the ability to customize and post-process results

- -- create OpenURLs for citations from databases that are not OpenURL sources
- -- embed results in webpages

cross-domain searching

-- support for various metadata schema

concerns

Collection:

many core databases are not crosssearchable

Technical:

implementation is expensive

- -- poor documentation
- -- inconsistent vendor implementations of Z39.50

Usability:

does the tool meet user needs?

- -- are users successful in interacting with it?
- -- does it lead users to relevant articles?

key questions

- -- what information needs are best met by metasearching?
- -- is cross-searching more databases better?
- -- which is the better place for a user to start, the smaller or larger result set?

Is it used?

log files

MultiSearch: ~7000 searches/mo.

Ebsco: ~ 25,000 searches/mo.

What type of searches do users do?

log files

any keyword

(default): 76%

subject kw: 9%

author kw: 8%

title kw: 5%

What do the searches look like?

log files

networking

european integration

coyote eating habits

appreciation for the earth

Sunday v. Stratton Corporation 390 A.2d 398 (Vt. 1978)

assisted housing discrimination

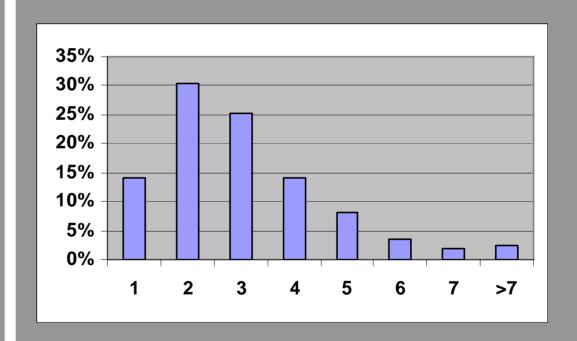
plato

television news

habituation of birds and human closeness

How many terms do users enter?

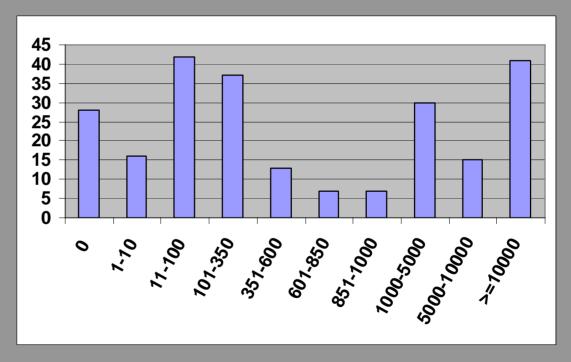
log files



mean=3.12; n=4329

How many hits are they getting?

log files



n=236; mean > 51,000; stdev > 51,000!

log files

questions:

For large result sets, does it reduce the set size if the search is resent as keyword in subject?

It can.

```
sets > 10,000 62% fewer (0% nulls)
sets > 350 91% fewer (21% nulls)
sets < 350 81% fewer (49% nulls)
```

n=39, 72, 95

usability testing

Tasks:

- think of a topic and do a search using MultiSearch
- look at some results and tell us if they "look good to you"

Ask them:

- was it easy or difficult to select the databases you wanted?
- which subject interface do you prefer?
- what did you think was happening?

Do they think the results are useful?

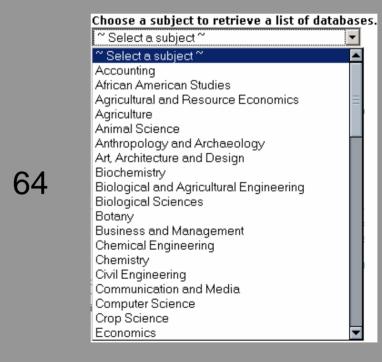
usability testing

Mostly yes.

- almost anything "works"
- general level of confusion does not affect satisfaction with results (also it's sometimes hard to tell "good" from "bad" in quickly scanning brief records)

Which is the better subject grouping?

usability testing



OR

Which is the better subject grouping?

usability testing

```
2. Select Databases

Show All | Subject Area (#databases)

Agriculture & Life Sciences (19)

Design (6)

Education (3)

Engineering (11)

Humanities & Social Sciences (25)

Management (4)

Multidisciplinary/General (11)

Physical & Mathematical Sciences (8)

Textiles (4)

Veterinary Medicine (6)
```

usability testing

questions:

Can users navigate the interface?

Do they understand what it is doing (or at least sort of)?

Many don't. They think...

- the databases are subjects
- the databases search all types of materials
- they are searching the full text

Complex interfaces are intimidating

→ serial failure

next steps for NCSU

- 1. search for a new metasearch tool
- 2. improve the current interface and experiment with ways to lead searchers to the next step
- explore other approaches to getting users to appropriate databases
 - e.g., send searches to local data source, such as Ingenta tables of contents