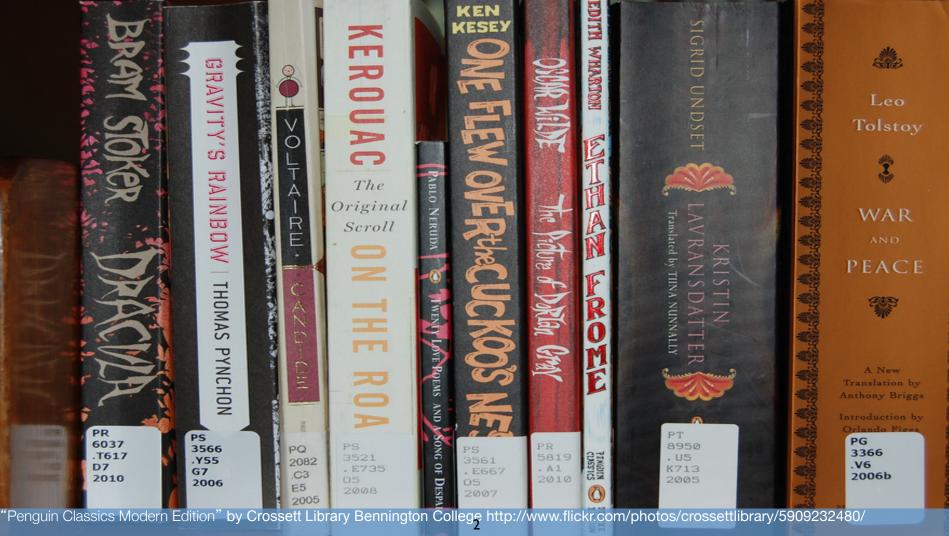


How We are Searching Cultural Heritage

A qualitative analysis of search patterns and success in The European Library

Vivien Petras, Juliane Stiller, Maria Gäde

Lida 2014, 17.06.2014



Surrogates & Metadata



LOCATION OF CONTRIBUTOR World Europe Western Asia Zoom

Onverbreekbare banden

Harvard-Style Citation

UFA (Berlin), n.d. Onverbreekbare banden. (s.l.): (s.n.)

Services

Access Online At Contributor See other versions (2)

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Similar in CORE

Add to Mendelev

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Description

Zarah Leander

Creator

UFA (Berlin)

Contributor

UFA (Berlin) Mettes, Frans Mes & Bronkhorst

Source

BG E17/3 (affiche), 150 jaar Nederlandse reclame, ReclameArsenaal

Publication

22-06-2004

Resource type

Still image

Extent

1000 x 650 mm

Medium

text/xml

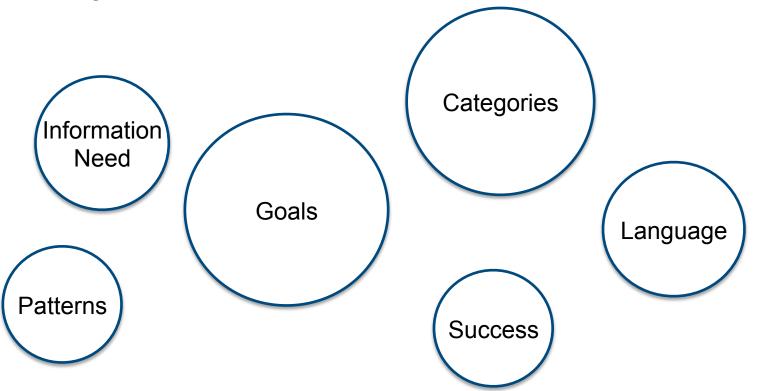
Format

affiche

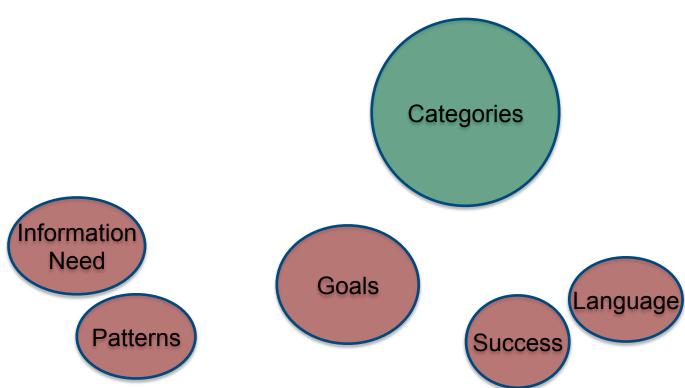
Query Statistics

s	earch Term ③	Total Unique Searches ?	+	Results Pageviews / Search ?	% Search Exits	% Search Refinements ?	Time after Search	Average Search Depth ?
		% of Total:	5,148 100.00% (186,148)	3.93 Site Avg: 3.93 (0.00%)	37.89% Site Avg: 37.89% (0.00%)	21.45% Site Avg: 21.45% (0.00%)	00:02:36 Site Avg: 00:02:36 (0.00%)	0.25 Site Avg: 0.25 (0.00%)
1.	**	3,948	(2.12%)	7.15	53.09%	6.60%	00:04:58	0.88
2.	"photo" OR "foto" OR "photographie" OR "photography" OR "fotografie" OR "fotografía"	984	(0.53%)	3.66	47.26%	34.25%	00:02:15	0.10
3.	photo" OR "foto" OR "photographie" OR "photography" OR "fotografie" OR "fotografie	604	(0.32%)	2.99	60.60%	43.21%	00:01:41	0.08
4.	what:"map"	470	(0.25%)	6.07	62.98%	6.80%	00:06:05	0.27
5.	what:"TEXT"	330	(0.18%)	1.31	27.27%	12.70%	00:00:43	0.99
6.	europeana_collectionName:90402*	326	(0.18%)	5.92	59.20%	7.04%	00:02:52	0.30
7.	what:"Image"	260	(0.14%)	1.73	28.46%	15.78%	00:01:14	0.93
8.	1	243	(0.13%)	1.01	98.77%	1.22%	00:00:01	0.01
9.	what:"text"	223	(0.12%)	1.80	23.77%	17.21%	00:01:39	1.02
10.	what:"Photo"	222	(0.12%)	1.58	28.38%	14.00%	00:01:17	1.14
11.	what:"Text"	193	(0.10%)	1.44	24.87%	25.27%	00:01:35	1.03
12.	what:"photograph"	178	(0.10%)	1.60	22.47%	14.04%	00:01:20	1.34
13.	what:"d day" OR "normandy landings"	170	(0.09%)	3.06	93.53%	1.54%	00:02:08	0.13
14.	who:(Massi-Lehre)	147	(0.08%)	1.17	77.55%	1.16%	00:00:19	0.21

Beyond Statistics: Semantics



So far...



Query Categories

Named Entities

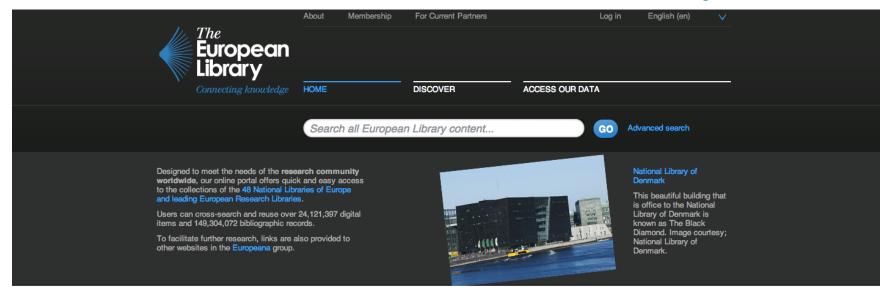
- Person
- Work title
- Geographic
- Event
- Organization

Non - Named Entities

- Topical
- Other

aGGER PICTI **QUERIES IN CONTEXT**

The European Library



FEATURED COLLECTIONS

Historic Newspapers

Reading Europe (1078)

Exhibition Foyer

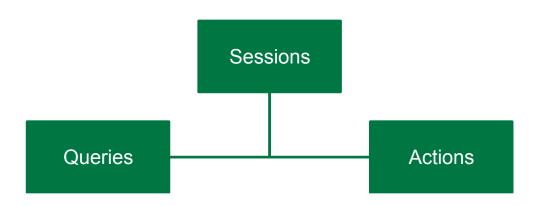
Manuscripts and Prince... (34)

DISCOVER CONTRIBUTORS



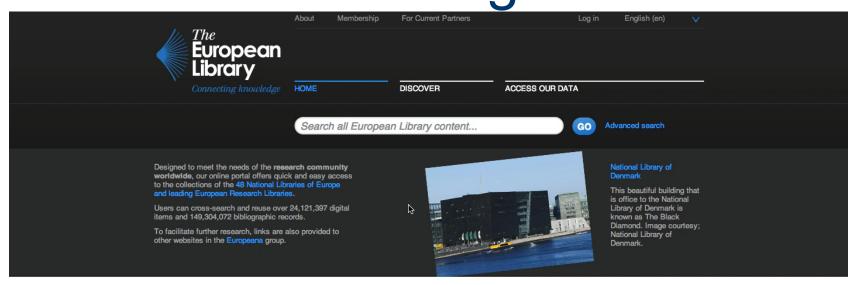






Sessions

How We Are Searching Cultural Heritage



Historic Newspapers
Reading Europe (1078)
Exhibition Foyer
Manuscripts and Prince... (34)

DISCOVER CONTRIBUTORS

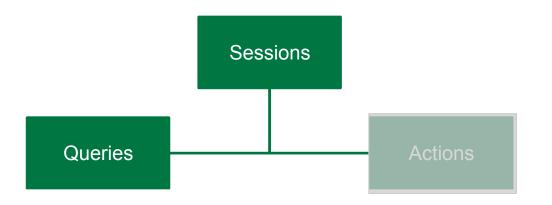






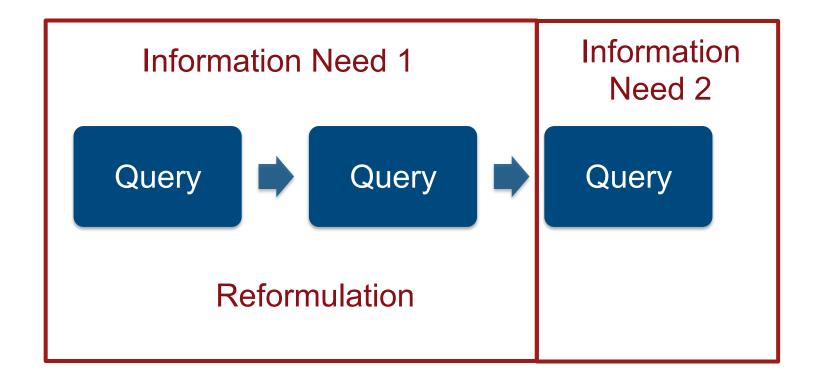
Case Study





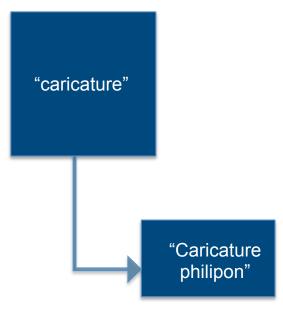
Query Goals

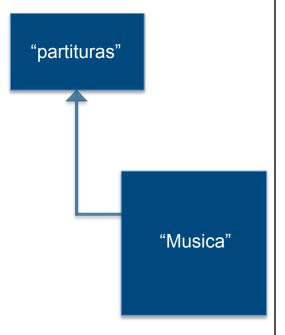
Information Needs & Reformulations



Query Reformulation Patterns

Specialization Generalization Reformulation

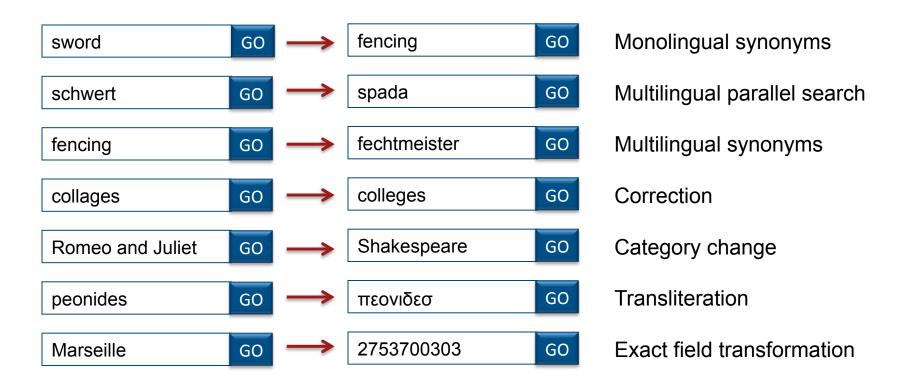


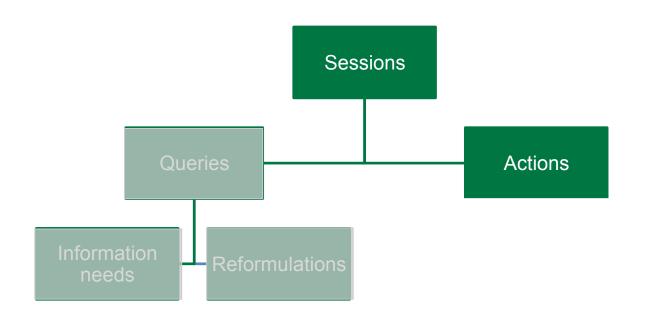






Reformulations in Digital Libraries





Session Success

Successful Sessions

- Simple Search
- Advanced Search
- Browsing

Search Entry

Soft indicators

- Record is viewed
- Use of outlink to content provider

- Record is saved
- Search terms saved
- Record is printed

Hard indicators

Success Rate

45%

of sessions are successful

Sessions with multiple queries are more successful than the ones with only one query

Success and Reformulations

Multilingual Parallel Search

Monolingual synonyms

Broader queries

Category Change

Narrower query

Spelling variants / corrections

Simple to fielded search

Transliteration

Query reduction

1. Likely to increase the amount of retrieved objects

2. Likely to show more of the content of the DL

3. Likely to show content from different angles

Implications for Design

- Support user with query translation & query suggestion
- Match queries to vocabulary terms in query suggestion



Dominant and prevailing search paradigm

Diving into Cultural Heritage

Extent of collections is often elusive

User needs are hardly researched

Majority of content stays hidden

Ein perfekter Kopfsprung by klaus.ottes | CC BY-NC-SA 2.0

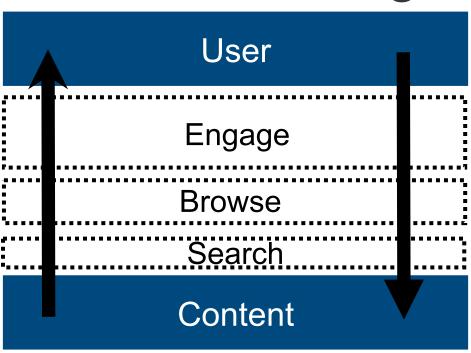
How to Surface Information

Let the user explore and discover

Guide them through collections

Support new users — information tourist

How We Are **Sepecieinging** Cultural Heritage!



Thank you

vivien.petras juliane.stiller maria.gaede



ibi.hu-berlin.de