



Purposeful Data Collection

An analysis of publications on digital user research

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Characteristics of digital library users



- Multi-local
- Multi-lingual
- Multi-time-zones

 digital user research must take place online (to be where the user is)

Methods used in user research – a study by Denise Troll-Covey



Method	Purpose	Quantity
survey	need assessment + perception	"most of the DLF respondents"
focus group	use + need assessment + quality + satisfaction	"more than half of the DLF respondents"
thinking-aloud	test usability	"half of the DLF respondents"
log file analysis	use	"most of the DLF respondents"

Research questions



- Which methods do we use for studying our users in digital libraries?
- What are our purposes?
- What is the relationship between purpose and result?

Content analysis on user research for digital library services



- Sampling criteria for publications:
 - publications contain applied user research in a digital library environment and examine only online services
 - publications post-date 1998
 - no unpublished conference contributions
 - no slides-only conference presentations

Content analysis on user research for digital library services



• Sources:

- DABI (German journal database)
- E-LIS (OA-Repository for LIS)
- DissOnline + ProQuest Dissertation Abstracts
 (German thesis repository + international database for US/Canadian theses)
- LISA (international database for LIS)

Content analysis on user research for digital library services III



- Types and numbers of publications
 - 44 articles
 - 13 thesis
 - 13 conference papers
- Article status
 - 52 % peer-reviewed articles
 - 34% non-peer-reviewed, source: DABI
 - 14% non-peer- reviewed, source: E-LIS

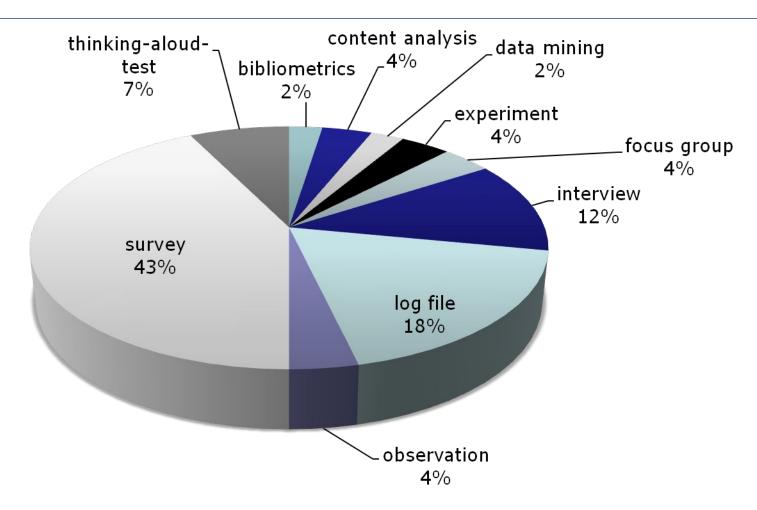
How do we study our users?



- Who does online user research: 36% students; 31% librarians; 26% LIS school faculty and staff; 7% external.
- ca. 55% of all research on digital library environments already takes place online; 45% takes place offline (in a local environment)

Methods used for online user research studies



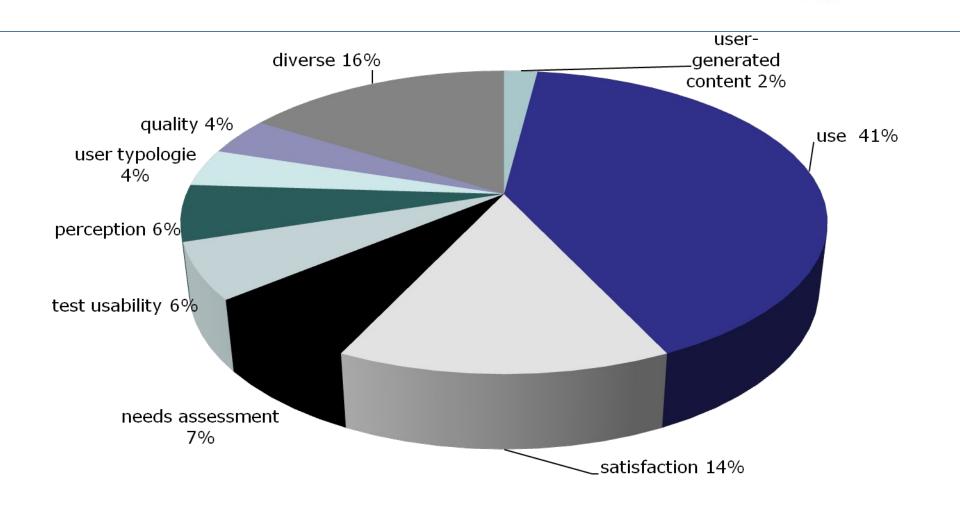


The 8 most frequently cited purposes



- 1. use: how do people use our system?
- satisfaction (degree of)
- 3. perception: immediate reaction / opinion
- needs assessment: trends; what do people need in the future
- 5. user typology: who are our users?
- 6. user-generated content
- 7. test usability / functionality
- 8. quality

Percentage distribution of purpose

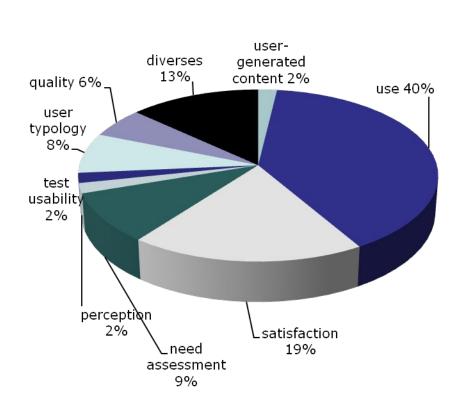


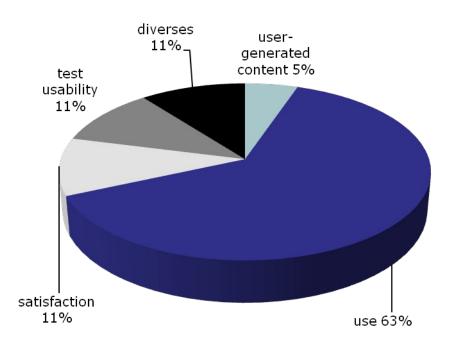
Methods used for purposes



survey

log file analysis





Relation purpose and result



- purpose # result
 - problems with sampling
 - problems with research design
 - clear mismatch between what was said to be the purpose and what the researcher actually did

Relation purpose and result



- Some approaches seem inadequate:
 - ask people what they need and offer closedanswer-set that mirrors our preferences
 - a usage indicator for digital library material was only the number of printed articles per journal in a year

Limitations of current studies



- Research on satisfaction: is it enough to ask users directly: "are you satisfied with the ebook collection?"
- Research on use: is it enough to collect static data on use or is there a need for dynamic patterns of users' behavior?
- Research gap: claimed behavior versus actual behavior

The "green standard" of online user research

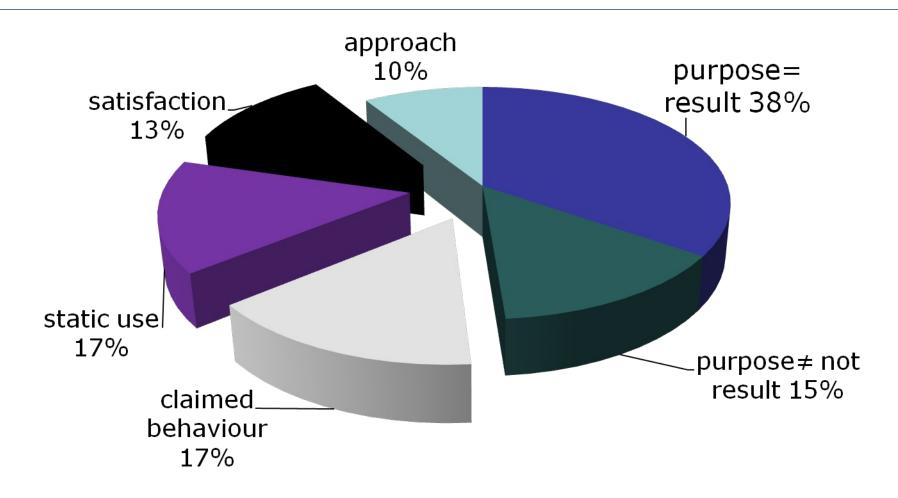


- we define satisfaction, behavior and use the way we currently analyze it and
- we agree that we get sufficiently purposeful data with the methods we are now using
- In other words, we accept that claimed behavior suffices.



Relation purpose and result





The "gold standard" of online user research



- we define use, behavior and satisfaction in a more complex way
- we see a mismatch between what we are analyzing now and what we should analyze
- we develop methods for gathering purposeful data in order to study users online



We are moving towards an ideal way of doing online user research: the "gold standard"

Literature



- Troll Covey, Denise. "Usage and Usability Assessment: Library Practices and Concerns." Washington, DC: Council on Library and Information Resources, 2002
- All analyzed publications are listed under: http://www.elke.greifeneder.de/UserResearch



THANK YOU!

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