Browse and Search in academic information seeking

Heuristic (Expert) Evaluation of a Microsoft Academic Search Web Tool

Why add browse to academic search?

- Researchers and students often find it difficult to search for academic publications or evaluate the credibility of the academic content they find using search tools ¹
- There are many "Fuzzy search publications" that a user is looking for but does not know what search terms to use to find them. They hide behind a wall of vagueness: the users don't know how to ask for them.



Added value to the design process by bringing in external experts Identified key design flaws and provided timely feedback to validate and inform design decisions

Key Insights



Browse helps with finding "Fuzzy search publications"

Hui Zhang

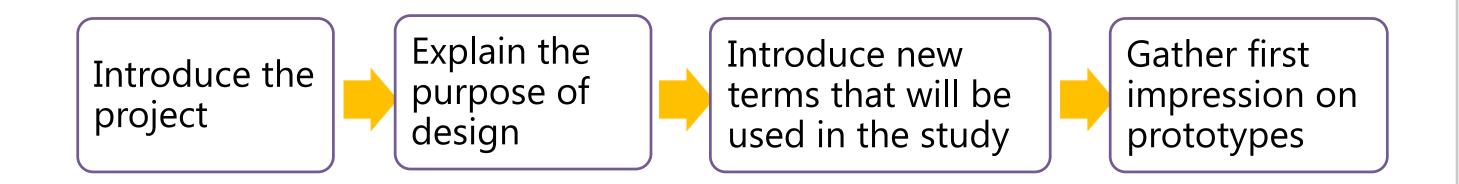
huizhang@uw.edu

1. Studies by Head, A. J. & Eisenberg, M. B., retrieved from http://projectinfolit.org. Previous studies done on this project confirmed these results.

Method and Instruments

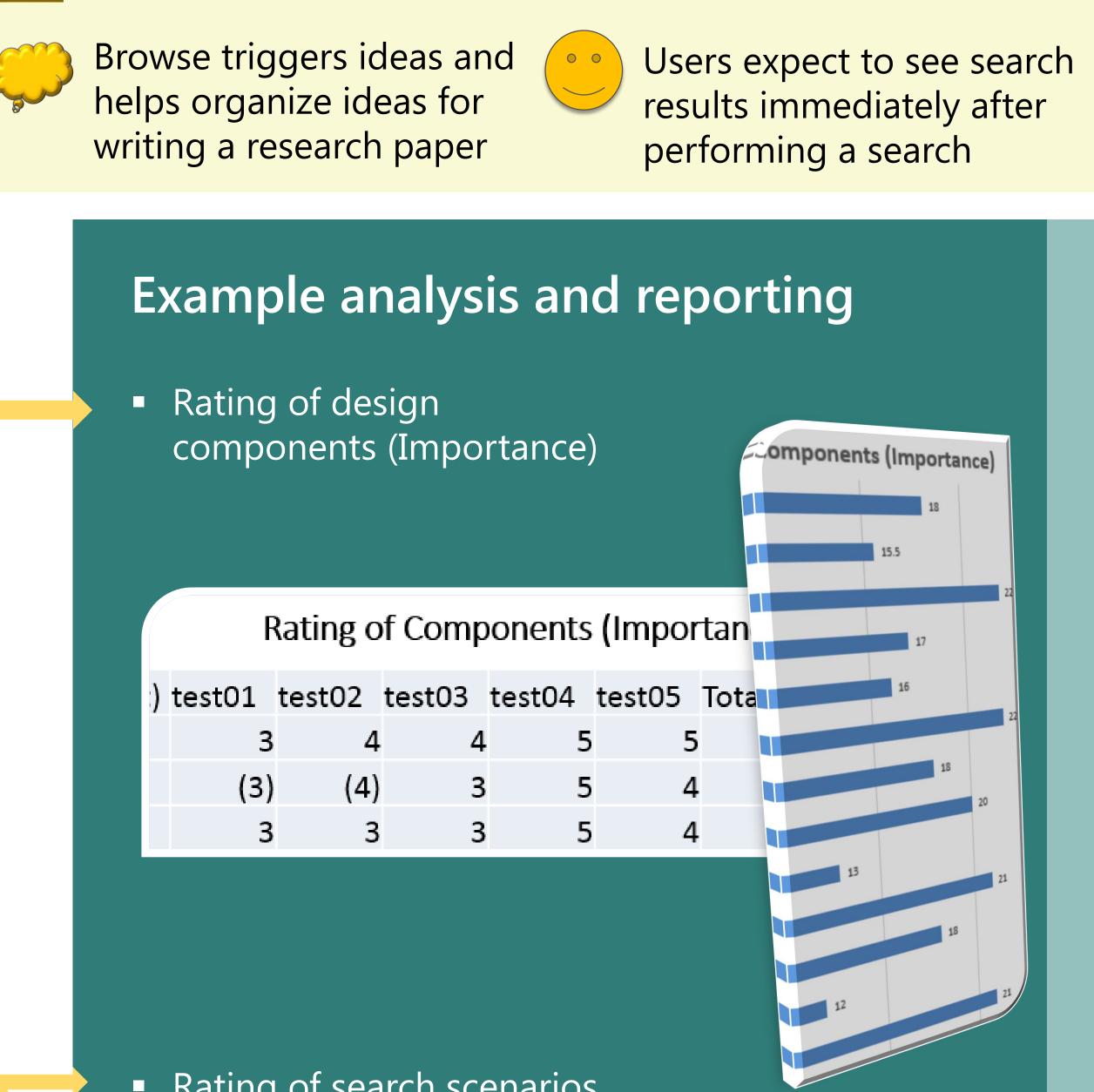
The balance... When testing with external experts, "informed evaluation" is as important as "fresh eyes".

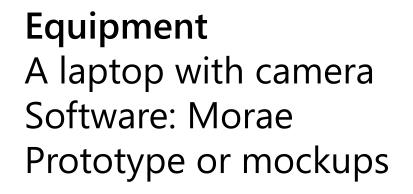
We created the following model to meet this goal:



Three Elements:







Document Well prepared test questions, tasks, and rating sheets

Evaluation Framework

Effectiveness: Does this tool behave in the way the users expect it to?

Efficiency: How quickly can the user's goal be accomplished? **Usefulness**: Does this tool enable users to achieve their goals? **Learnability**: Does it require training to use this tool? **Satisfaction**: User's feelings and opinions of this product **Design suggestions**: How might you design it differently?

* Usability attributes from *Handbook of Usability Testing*

- Rate importance of components on a rating sheet Rate 3 design scenarios and
- alternatives

External experts

We organized a panel

of five student experts

Experience research and

specialized in User

design, information

architecture, or HCI

Gather feedback on design components

Rating of search scenarios

| | 3>2>1 | 1>3>2 | 3=2>1 | 3>2>1 | 3>2>1 | |
|---|--------|--------|--------|--------|--------|--|
| | test01 | test02 | test03 | test04 | test05 | |
| / | | | | | | |

Design suggestions on prototype

| 1: Navigation | Desigi |
|---|-----------------|
| a)Topic Map , b)Bread Crumb, c)Back Arrow | Test 05: |
| <u>Test05 & 01</u> : did not notice or realize the back arrow | Look at |
| was an arrow. | on each |
| <u>Test03:</u> perhaps make breadcrumb in the green bar? | is neces |
| | process. |
| Feedback | Conside |
| Search academic publications | import <i>a</i> |
| | danie |

Highlight video clips featuring the most important findings



