1214: Usability analysis and reporting

February 21, 2013



USABILITY ANALYSIS



Quick qualitative analysis for quick tests

1) Group observations

By feature tested (ie, the editing toolbar)

By shared theme (ie, "Editing makes me feel stupid")

By underlying cause (ie, "People don't think they have anything to add)

Providing reliable information

- providing trustworthy information: are the reviews accurate?
- -- J: wants more than one review
- M: wants link to Yelp
- providing accurate locations: are the locations accurate?
- -- T: Cinematheque in ocean
- J: Exploratorium?????
- -- M doubts phone numbers and addresses

2) List for each group

Observations

Quotations

Break the group into subgroups where necessary.

3) Name the groups



Time-to-task: an example of quantitative analysis in usability

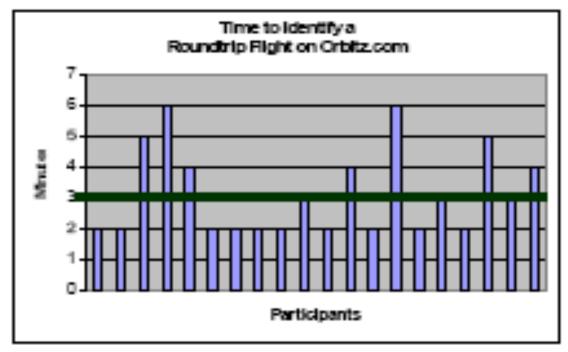


Figure 5: Orbitz.com task time: The minutes to perform the task are shown as 2-6 minutes with the average time line being 3.15.



Time-to-task: an example of quantitative analysis in usability

For N<25 use geometric mean*

-Otherwise, compare median values

Examine distribution for outliers

Take *how* the test was conducted and moderated into account

Consider comparing numbers approximately

Consider reporting relative ratings rather than absolute numbers

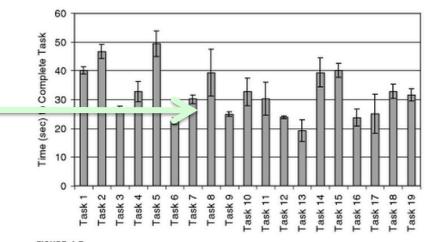


FIGURE 4.5

Mean time-on-task for 19 tasks. Error bars represent a 95 percent confidence interval. These data are from an online study of a prototype website.

*http://www.measuringusability.com/average-times.php



Tullis, T., & Albert, W. (2010). *Measuring the User Experience: Collecting, Analyzing, and Presenting Usability Metrics*. Morgan Kaufmann.

USABILITY REPORTS



The three challenges of reporting

- 1) Delivering potentially challenging news
- 2) Efficiently
- 3) But usefully
- 4) And convincingly



efficient

Common Industry Format (CIF) report

(some details modified)

Title Page

Executive Summary

Introduction

Method

Results

Appendices



Main components of a Common Industry Format (CIF) usability report

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Product (and version, if necessary) tested

Test: who led it, and when

Report: date, author, and author contact info

Customer company and contact person



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Name and brief description of the product.

Brief summary of method(s) including

number(s) and type(s) of participants

and tasks.

Reason for and nature of the test.

Summary of results



Main components of a Common Industry Format (CIF) usability report

Title Page

Executive Summary

Introduction

Background description

Test objectives

Method

victiloa

Results

Appendices



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Participants: who did we work with?

Context: what tasks were tested,

where, & when

Experimental design: how was it tested?

Metrics: how did we evaluate success?



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What did we learn?

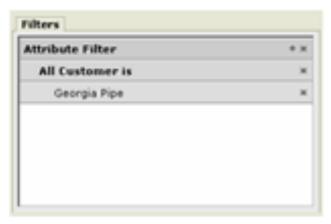
Appendices

Tables, charts, photographs, video

Recommendations (optional)



USABILITY TESTING REPORT - PRICE EXPLORER



Filter display - few noticed the filter edit button



After clicking the filter edit button, the current filters are shown in the Attribute Filter window.



But when clicking "Filter by Attribute", the current filters are not shown in the Attribute Filter window.

Editing filters

When asked to change the waterfall chart from showing Georgia Pipe to showing Liberty Plastics, only one of the participants used the filter edit button. It is the "+" icon to the left of the "x" at the top, right of the filter display area. Two tried to click directly on Georgia Pipe in the filter display area, thinking that would bring up the list of customers to choose from.

 "I don't want to clear filters and start over. I want to just go back to the customer list. [Tries clicking on Georgia Pipe] And there's no back button.... It would have been easier to have a more obvious way to back up one step."

Two participants clicked the "Filter by Attribute" link and thought that selecting Liberty Plastics would replace Georgia Pipe. After adding Liberty Plastics, they did not notice at first that Georgia Pipe was still in the filter list. That was because clicking the "Filter by Attribute" link brings up a version of the Attribute Filter window that does not show the current filters selected on the right. Clicking the filter edit link brings up the Attribute Filter window with the current filters displayed on the right side. This inconsistency can cause these types of errors.

Recommendations:

- Open the Attribute Filter window when users double click on the items in the filter display area (e.g., Georgia Pipe).
- When filters are selected, clicking the "Filter by Attribute" link should open the Attribute Filter window with the current filters displayed in the "Filter Lists" box on the right side of the window (the same as it appears when the filter edit button

Jim Ross, Communicating User Research Findings http://www.uxmatters.com/mt/archives/2012/02/communicating-user-research-findings.php

HISTORY

Checkboxes

- When asked to view only the business events in the history, 50% of the participants incorrectly unchecked all of the other checkboxes, including Accurate, Cellular, and No GPS.
- They did not understand the relationship between the top row of checkboxes and the second row.



Your goal: tell the story

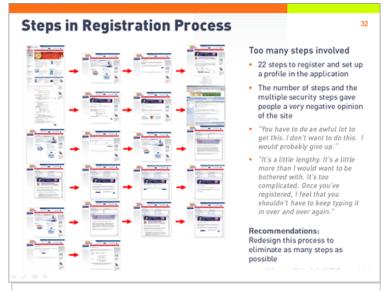
By The Numbers

Users Rate the Site Much Lower than UCSF's Reputation

As in the moderated testing done last March, participants have a high opinion of UCSF but their experience using the site does not reflect the hospital's reputation.

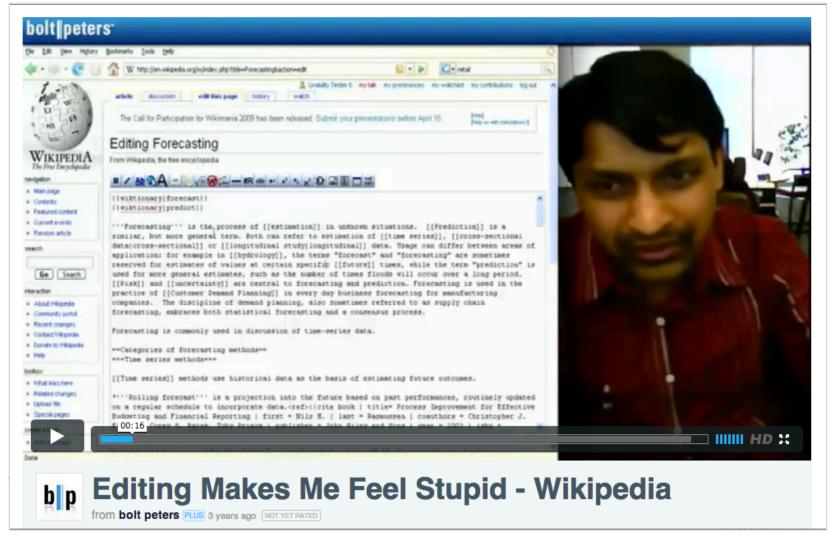


Bolt|Peters Usability Recommendations | UCSF website



Jim Ross, Communicating User Research Findings

Video highlights clips





Severity ratings: pros and cons

Pro

Severity ratings help readers prioritize

Already made implicitly in organization of report

Con

May be based on incomplete information
Likely evaluator effect

A compromise: Use a simple, user-centered scale

	Few users	Many users
Small affect	Low severity	Medium severity
Large affect	Medium severity	High severity



Specific recommendations: pros and cons

Pros

Facilitates constructive criticism

Moves discussion towards

future, not regrets or blame

Cons

Do you have the credibility?
Can you make *good*recommendations under your time/expertise constraints?



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Full text of questionnaires

Interview protocols

Extra detail on research context, if necessary



Common challenges to usability reports

'This is not statistically significant!'

Conflicting internal agendas

'This user is stupid.'

'User X is not our market.'

'User X did Y; therefore, everyone must do Y'

'They all hated the green, so we need to make it all white, like Google.'

Explaining stealth problems

