

Charting CHART: Usability Testing for Brooklyn Visual Heritage

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The Task

Pratt SILS UX Team

• Dr. Craig M. MacDonald, UX/IA Professor

- 7 students
- 4 months, weekly meetings

Objective

- create and carry out testing within CHART's parameters
- provide documentation
- analyze results
- author a final report w/ recommendations
- present to CHART stakeholders

The Task

Parameters

- Evaluate usability of Brooklyn Visual Heritage (BVH) website
 - identify problem areas while browsing/searching
 - assess users' overall impressions
 - early April deadline
- Target audience
 - Brooklyn residents
 - researchers who might visit physical collections
 - armchair historians
 - cultural heritage professionals
 - companies/businesses looking for historical images
 - local educators

The Method

Recruitment team e-mailed **107** people; **75** respondents; **44** selected; **18** participants

- Questionnaire was distributed to gather:
 - contact information
 - profession
 - familiarity with basic web functionality and applications
 - level of interest in Brooklyn history
- Demographics of selected participants:
 - **4** cultural heritage professionals/students
 - 4 educators
 - **3** librarians
 - **5** creative professionals
 - 2 other (non-cultural heritage student, content manager)

The Method

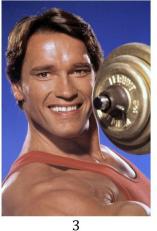
Materials team developed the following:

- pre-test questionnaire
- The Arnold Emotional Expression Test (AEET)
- post-test questionnaire
- affect grid
- three user tasks:
 - Task #1: "Look at this website and tell us about your first impressions. You can scroll around but don't click on anything yet – just take a moment to look at the site and tell us what you think.
 - **Task #2:** "Find an image that is interesting or meaningful to you in some way ... Once you find the image, learn as much as you can about it."
 - **Task #3:** "Find 2 similar images to the one you just found and save or record them in any way you want. These images can be similar in any way."

Arnold Emotional Expression Test











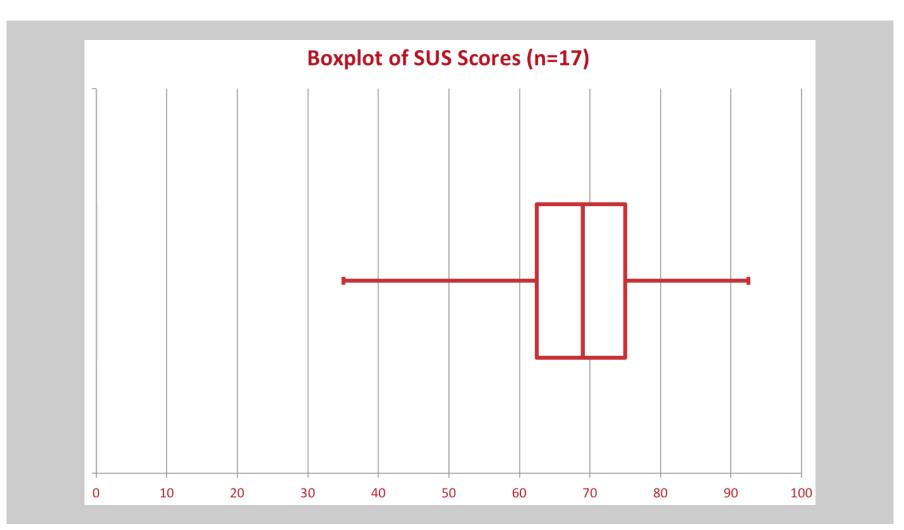




Post-test questionnaire

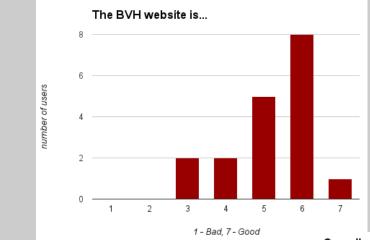
- System Usability Scale (SUS)
 - 10-item questionnaire on agree/disagree spectrum
 - combined, it measures overall usability
- Supplementary questions
 - 5 questions on a 1-7 scale (negative to positive)
 - 1 open-ended question
- Affect Grid
 - Users plot their overall experience on a chart of energy and pleasure levels

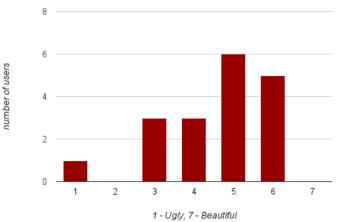
Post-test questionnaire: SUS score = 69



The BVH Website is...

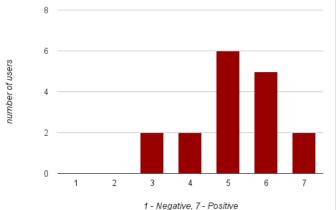
Bad/Good, Ugly/Beautiful, Overall Negative/Positive Experience





The BVH website Is...

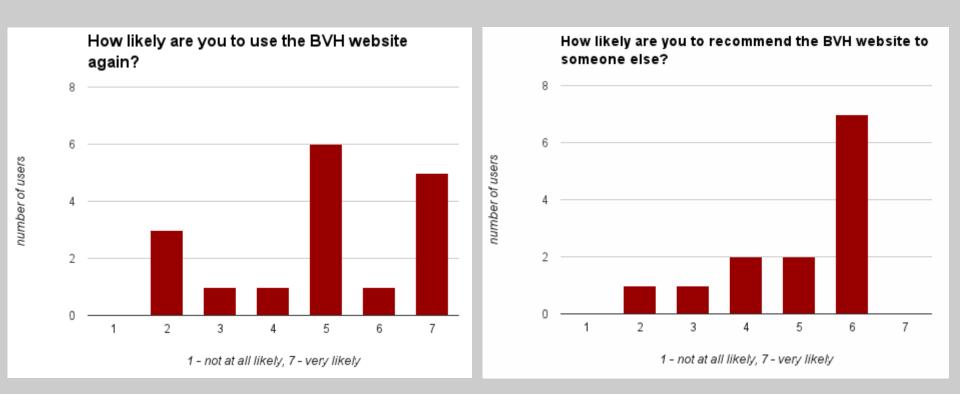
Overall, my experience using the BVH website was...



Affect grid

Frustration		High Energy								Excitement	
								38			
							21	2, 9			
Unpleasant Feelings						4					
			15		5	6	69, 56	41		Pleasant Feelings	
						70, 43	42				
					43, 75						
				16, 151							
Boredom	Boredom Low Energy									Relaxation	

Would you use BVH again? Recommend it?

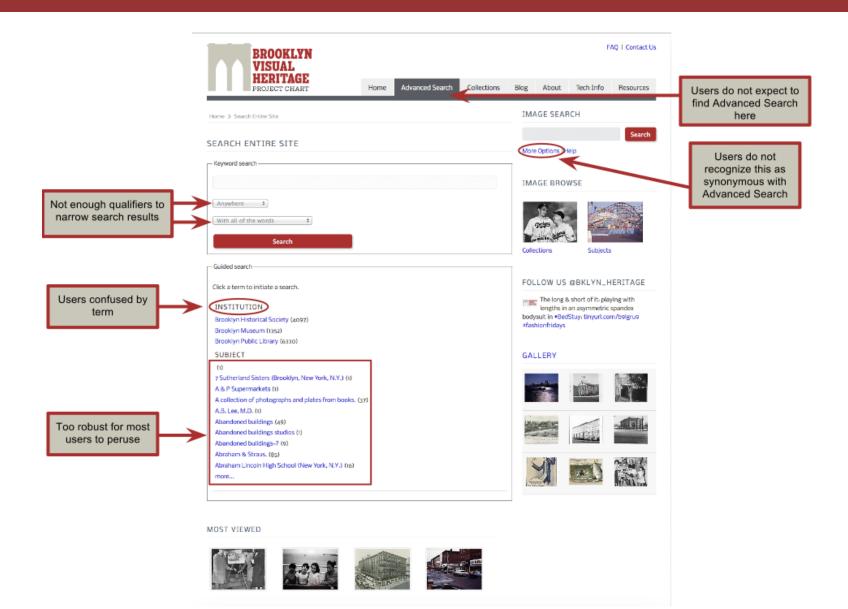


BVH may not be for everyone, but almost everyone can think of someone who *would* like it...

Our user studies revealed several areas for improvement. By sorting our findings with an affinity diagram, we identified 7 major areas where usability problems occurred:

- Navigation
- Browsing
- Searching
- Advanced Search
- Image Descriptions
- Help, Documentation & Instructions
- Sharing

Sample Analysis: Advanced Search



Recommendations

Issue Description	Recommendation(s)					
The top navigation bar doesn't offer relevant options for BVH's target users.	Reorganize the top navigation bar as follows: Home, Explore Images (By Subject, By Collection, By Location), Blog, About.					
Users were confused and overwhelmed by the A-Z subject guide.	Eliminate the numbers on the A-Z subject guide and create more manageable intervals.					
Users were overwhelmed and frustrated with the excessive scrolling and clicking required to navigate the subject headings list.	Arrange subject terms in columns above the fold so that users ca scan more subject terms before they need to click to the next pag					
Search results don't always match search terms, and users are unclear as to how to find specific images.	Emphasize search options to help users narrow search results more easily.					
Users were confused by the placement, organization and functionality of the Advanced Search feature.	Revise the position and functionality of the Advanced Search feature.					
The image title is not easily apparent on image description pages.	Make image title stand out more					
Metadata fields on image description pages are arranged inefficiently.	Re-order the metadata according to importance.					
The existing <i>About</i> and <i>FAQ</i> sections do not provide sufficient documentation.	Revise the structure of the About section to contain the following sections: About Brooklyn Visual Heritage and Project CHART, Research Guide, Using the Images, Tech Info, In the Press.					

Conclusions

- 17 specific areas for improvement
- focus on realistically actionable items:
 - reorganize the navigation bar
 - refocus sidebar content
 - implement browsing & searching recommendations
 - reorganize image description pages
 - improve sharing & saving with Drupal's bookmark feature
 - improve the relevance of advanced search results
- Top "pie in the sky" recommendations:
 - faceted search function,
 - highlight geographic facet of image metadata