

# Designing the User Experience:

A Digital Object Design Story from the California Digital Library

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User Experience (UX) team drives the user-centered assessment and design process across all services at CDL.



#### Market research

- Determining your audience demographic
- Looking at larger scale quantitative patterns

#### **Contextual research**

- Understand at a fundamental level <u>what</u>
   your users are doing
- And why they do what they do

# Generative research and design methods

 Get your users to participate in generating and designing service requirements



# Calisphere



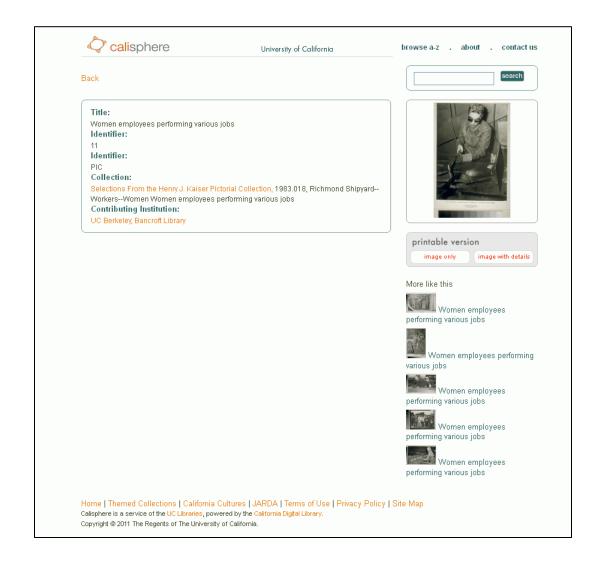


# Calisphere: Digital Object View



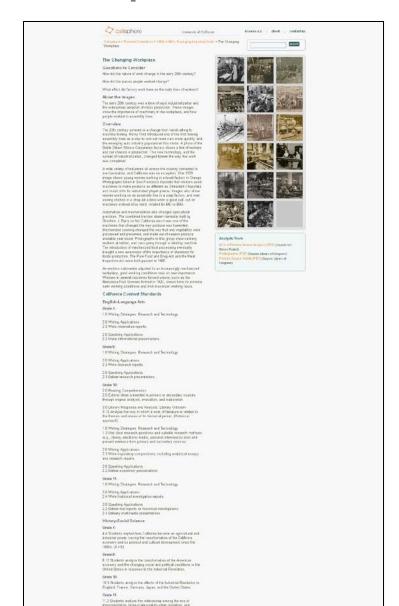


# Calisphere: Digital Object View





# Calisphere: Themed Collection







### So many questions...

- •What do users perceive as function of Calisphere?
- •Who do they think is the intended audience?
- ■Is the K-12 orientation apparent to them?
- •Are themed or curated collections relevant to user base?
- •What features do users want/expect at an object level?
- •What needs to be most visible?
- •What are users' needs for accessing and interacting with digital objects?



## And yet more questions...

- •How do users prioritize elements once they've been determined?
- What are more current display mechanisms for optimal display of these objects





For complex questions, one method is often not enough, the best methods draw on one from each major methodology category and alternates back and forth in a star pattern so you can get a core of common information.





# Requirements and Branding Methods

- Survey (interlinked with an online card sort exercise)
- Interview
- Literature Review

# **Design Methods**

- Comparative Analysis
- Online Card Sort
- Design Exercise

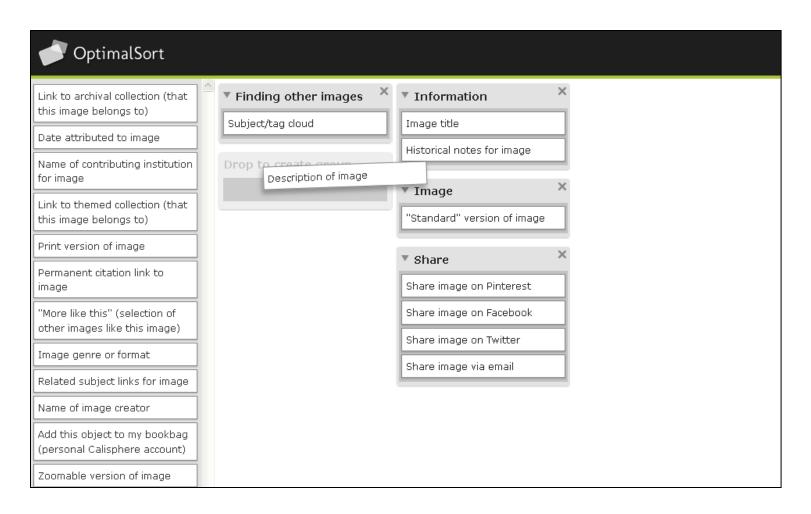


# Optimal Workshop: Survey

> Don't forget to click on <b>"continue"</b> at the end of this page for the fun sorting activity!!	
What is your occupation?	
K-12 Educator     K-12 Student     Undergraduate Student     Graduate Student     Faculty, Lecturer, or Academi     Librarian, Library Staff, or Arc	chivist
<ul><li>Genealogist or Family Resear</li><li>Other</li></ul>	rcner
If you answered "other," ple	100 opening 11010.
lf applicable, what is your fie	eld of study?
If applicable, what is your fie  Is this your first visit to the C  Yes  No	
Is this your first visit to the C  Yes  No	



# Optimal Workshop: Card Sort



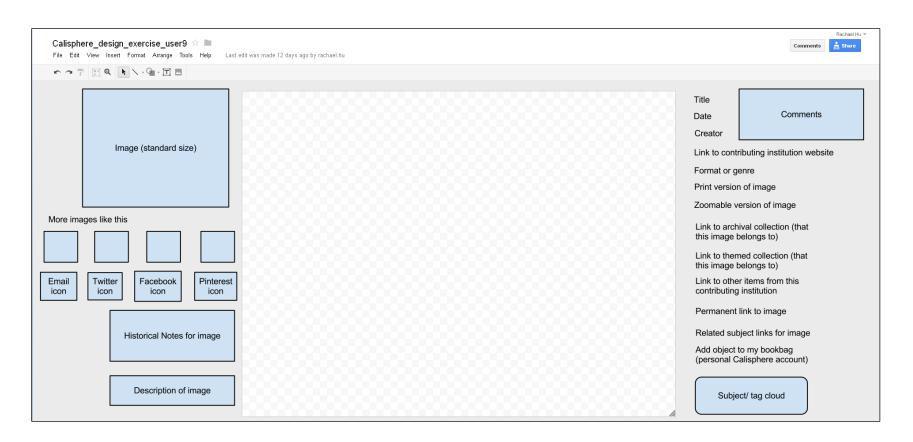


# Virtual interviews and design exercise

- Readytalk phone and web conferencing system
- Google Draw



# Google Draw: Design Exercise





## Findings for service level questions

- Themed collections were very relevant to users (especially if their entrée into site was from a Google search)
- Most participants felt that site was intended for <u>broad swath of users</u> (students, educators, and general public)
- •Many of them <u>missed K-12 content</u> all together
- While users enjoyed essays describing historical events, the image was the primary draw and so was object level description



#### Recommendations

- Since themed collections were very important to users' topic based discovery needs, <u>re-orient themed collections for</u> general users
- In navigating the site, users focused on object/image level discovery found thumbnails to be most helpful but wanted more description with the thumbnails consider design solutions to answer this need



## **Highest priority elements**

- •Image itself was most important!
- Primary metadata
  - Title
  - Description
- Secondary metadata
  - Institutional affiliation
  - Copyright and usage information
  - Author/photographer
  - Historical background
- Ability to download (primary use case)
  - Personal use
  - Use in presentation or paper



## Second level priority elements

- More accessible attribution information (how to cite)
- High resolution image (for specialist user)
- More modern zoom technology
- Related images (from similar geographic locations)
- Related links to content outside of Calisphere (journal articles, other relevant primary source or museum material)



# Less important features

- Comments (trustworthiness a concern)
- Personal account was not something users wanted (unless they could login from another existing account like Facebook or Google)
- Sharing on social media not as important
- Nobody uses print feature

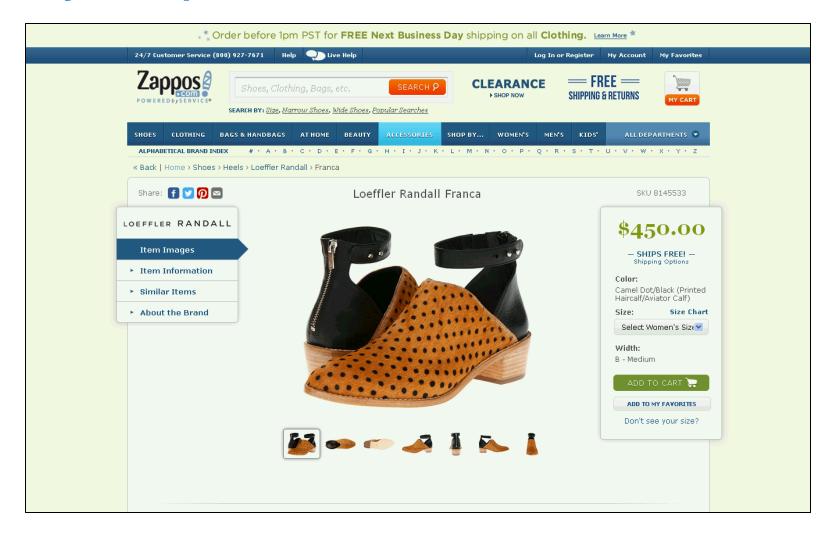


## **Comparative Analysis**

- Cultural heritage sites, video sites, stock photograph sites, retail sites (anything with an item level product page)
- Overall, item layouts followed a few common patterns



## **Layout Option 1: The Menu**







# **Layout Option 1: The Menu**

Title: Black Panthers press conference

**Caption:** Panthers speak out--Shermont Banks, center, deputy chairman, Black Panthers of Southern California, answers question at press conference. Michael Pennewell, seated left, is keeper of the law; Raymond Hewitt, right, is area captain. Man at left is unidentified

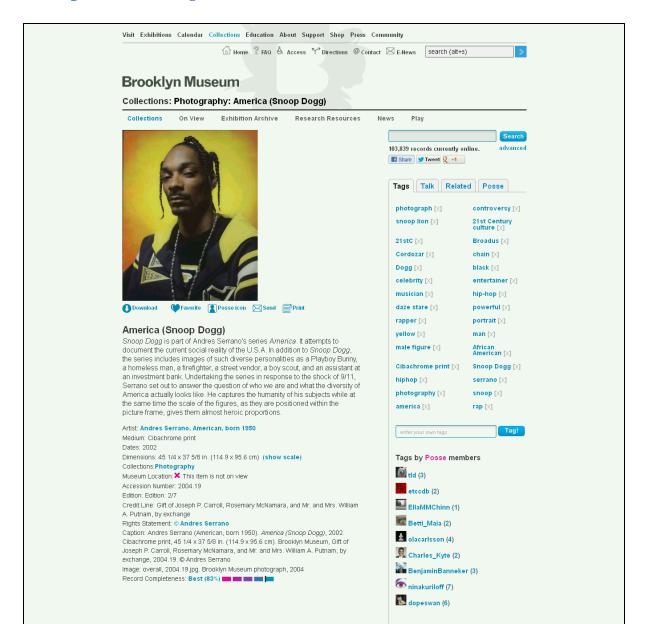
Contributing Institution: UCLA, Special Collections, Young (Charles E.) Research Library

Item Information
Similar items





## **Layout Option 2: The Tab Look**





# **Layout Option 2: The Tab Look**



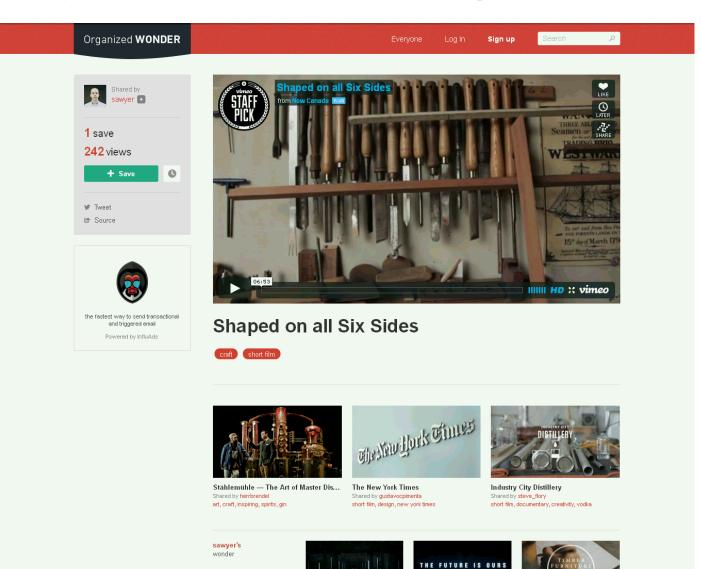
Title: Black Panthers press conference

**Caption:** Panthers speak out--Shermont Banks, center, deputy chairman, Black Panthers of Southern California, answers question at press conference. Michael Pennewell, seated left, is keeper of the law; Raymond Hewitt, right, is area captain.

Contributing Institution: <u>UCLA</u>, <u>Special Collections</u>, <u>Young (Charles E.)</u> Research Library



# **Layout Option 3: The Long View**



Araabmuzik

The Future Is Ours

Shared by rsantaferraro

Timber Furniture



# **Layout Option 3: The Long View**

Title:

Interview with Malcolm X, Oct 11, 1963,

**Dwinelle Studio** 

Creator/Contributor:

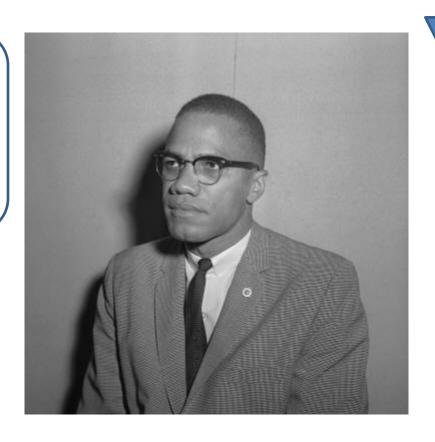
Malcolm X, 1925-1965 Blake, Herman

Date:

1963-10-11

**Contributing Institution:** 

**UC Berkeley, Media Resources Center** 



- More information...
- Visit other collections:



Similar items:

# Have we reached the end of the story yet?





## The story isn't over yet...

- Calisphere design improvements have been put on hold
- Inception of the UC Libraries Digital
   Collections Initiative
- Methods can be extended for any design process
- •Findings, recommendations, and requirements can be used to create the digital object for this project or for your own digital object display projects



# **Photo Credits**

- "Free Government Money!" by Ian, retrieved from http://www.flickr.com/photos/44068323@N00/
- "188/365 You make me feel taller, like I can be with the stars" by Janine retrieved from http://www.flickr.com/photos/32561659@N08/
- Zappos item level screenshot, retrieved from <a href="http://couture.zappos.com/loeffler-randall-franca-camel-dot-black-printed-haircalf-aviator-calf">http://couture.zappos.com/loeffler-randall-franca-camel-dot-black-printed-haircalf-aviator-calf</a>
- Black Panthers Press Conference, retrieved from <u>http://content.cdlib.org/ark:/13030/hb35800504/?query=black%20panthers&brand=calisphere</u>
- Black Muslim Leader Malcolm X, retrieved from <a href="http://content.cdlib.org/ark:/13030/hb6h4nb49h/?order=4&brand=calisphere">http://content.cdlib.org/ark:/13030/hb6h4nb49h/?order=4&brand=calisphere</a>
- Brooklyn Museum object level screenshot, retrieved from <a href="http://www.brooklynmuseum.org/opencollection/objects/166835/America\_Snoop
- Organized Wonder video level screenshot, retrieved from http://www.organizedwonder.com/videos/1892
- All other images courtesy of the University of California Office of the President Photo Archive

