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Come together

A common vocabulary for University of California library homepages

Academic library Web sites are complex mixes of information gateways and links to resources and services. Hours, staff directories, research guides, room reservation systems, catalogs, databases, and donor information are just a handful of the many things users look for when they visit library sites. Keeping homepages simple, uncluttered, and easy to navigate is a challenge for library Web masters, and the costs to create and maintain Web sites are significant.

To this end, the University of California (UC) Libraries Heads of Public Services (HOPS) recently charged a taskforce to establish a set of shared best practices for library homepage nomenclature, content, and layout. Libraries in the ten-campus UC system currently share a number of resources and services: electronic collections, consortial borrowing, and 24/7 digital reference to name a few. Yet each of the ten libraries hosts and maintains its own Web page, each as unique as the campus it serves.

Exploring cooperative options for library Web sites is consistent with other UC efforts to streamline operations and eliminate redundancies across campuses. If adopted, a set of best practices would not only create a more uniform experience for users across the UC system, but also has the potential to eliminate duplication of time and effort in future Web redesigns. Digital reference librarians who assist users from all ten campuses could also provide better service if homepages were standardized.

Our taskforce conducted an analysis of top content from multiple UC library Web sites

and QuestionPoint (chat reference) transcripts to determine essential home-page elements. We then collected and reviewed current nomenclature and created graphical scans of each library's homepage. We also consulted the literature and used our own firsthand experiences with Web design to support our recommendations for layout. We referred to data from a California Digital Libraries mobile environmental scan as we considered recommendations for mobile Web site elements.

Process

We began our analysis by conducting a thorough inventory of existing homepage elements and nomenclature on all ten UC Library homepages, identifying common elements on each homepage, and recording the nomenclature used for each element. All nomenclature variations were noted and tallied when duplications existed. This process gave us an awareness of the great variation in nomenclature on UC library homepages. For example, the element "VPN," was found on all ten homepages, but named six different ways:

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Table 1: First Tier Homepage Elements

<i>Elements</i>	<i>Nomenclature Recommendations</i>
Ask a Librarian (24/7 Chat)	Ask a Librarian
Circulation information	Borrowing
Collections	Collections
Computing/printing information	Computing
Contact information	Contact Us
Course reserves	Reserves
Databases & Articles*	Articles (do not combine with databases)
	Databases (do not combine with articles)
Help	Help
Hours	Hours
Information about the library	About/About the Libraries
Journals*	Journals
Library development	Giving
Library services	Services
Local campus catalogs	Name of local catalog
Next Generation Melvyl	Next Generation Melvyl Pilot
Personalized account	My Account

*Databases, articles, and journals should be grouped in some manner on the homepage, but each element should stand independently and ultimately link to a different type of search or tool.

- connect(ing) from off-campus
- off-Campus access
- remote access
- connect from home
- connecting from off campus (VPN)
- off-campus log-in

Nearly all elements had at least four different names; the majority had six variations or more and several elements had more than seven. Seeing these variations emphasized the need for greater consistency in nomenclature across campuses.

After conducting the analysis of the homepages, we examined more than 300 chat transcripts from the UC QuestionPoint 24/7 chat reference service to determine the frequency of questions and terms employed

by users. We used this analysis to help us narrow down key elements and nomenclature that should be considered essential on every UC library homepage.

The most difficult part of our charge was determining best practices for homepage layout. Graphical overlays were generated for several key elements to help us analyze the current location of common content. These overlays illustrated the differences in current homepage layouts and designs across campuses. Further analysis and discussion of current best practices for Web design were also a part of our process for determining layout/design recommendations.

Findings and recommendations: Homepage elements and nomenclature

During the analysis phase, we discovered that in some cases, local naming conventions and branding (such as local catalog names, etc.) could make adherence to systemwide nomenclature recommendations problematic. Moreover, we realized that not all campuses need each homepage element, e.g., social networking and FAQs are not used on every campus. To accommodate for these differences while maintaining the goal of consistency throughout homepages, we concluded that it would be best to create two tiers of recommended content. We listed elements deemed essential for all campuses as First Tier elements and included recommendations for nomenclature (see Table 1). To further clarify, we agreed that essential elements would be considered available on the homepage if they existed as direct links on the page or as dropdown menu items that appear when rolled over by a mouse. We listed elements considered useful but optional as Second Tier

Table 2: Second Tier Homepage Elements

Directions
Floor Plans and Library Maps
News
Research/Subject/Course guides
Site Search

Elements and made no recommendations for nomenclature (see Table 2).

Findings and recommendations: Layout

Our analysis of homepage layouts revealed a wide array of designs and locations for various elements. For example, the links for *hours* were displayed in many distinct areas on different sites (see Figure 1).

A number of related design challenges emerged during our discussion on layout.

- *Local limitations.* On some campuses, library Web page layout may be restricted by campus design mandates, such as header and footer information or the requirement to follow a particular style sheet.

- *Content management systems.* Different libraries currently use different content management systems (Drupal, Joomla, etc.) that limit design options.

- *Audience.* While some campuses focus on undergraduates, others may want to target their homepages to a different audience (faculty, graduate students, alumni, etc.). This could have implications in the design/layout of the page.

- *Global navigation.* In addition to the “what” and “where” of homepage elements,

the way those elements follow the user through the Web site is critical. This has implications for homepage menu systems and subpage design.

- *QuickSearch.* A recent trend on many, but not all, campuses has been to incorporate a prominent search area or federated search box on the homepage. This is desirable but

significantly changes the layout of the page, making consistency across campuses difficult.

- *Design trends.* Web design styles change so quickly that any recommendation made by a taskforce would likely be outdated before it could be implemented.

- *Web design as art.* The aesthetics of a good Web page require artistic input from programmers, designers, and developers. This is subjective input that cannot be determined by a task force and would also require usability testing.

So although we felt confident making best practices recommendations for content elements and nomenclature for UC library homepages, the complexity of Web design and the many technical and political barriers that

exist in current UC

library environments precluded us from making a recommendation for layout. A uniform layout would only be feasible in the future if all library Web pages shared a common technical infrastructure.

We concluded that resolving these technical issues was beyond our purview but recommended that continued investigation in this area by another group should be considered as the next step toward a more consistent user experience with UC library homepages.

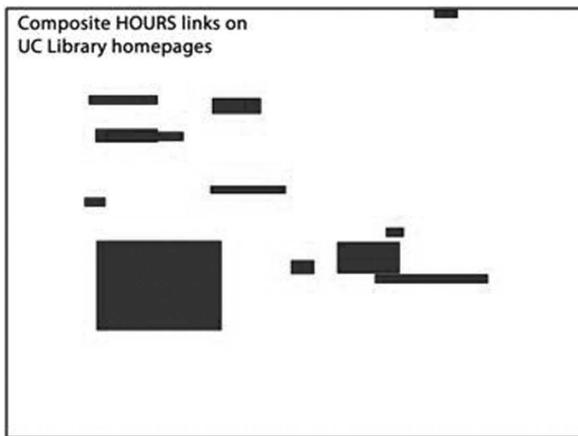


Figure 1: Composite hours links.

Findings and recommendations: Mobile Web sites

Though it was not included in the original charge, we felt it was also important and timely to include recommendations for mobile Web sites. A study conducted in summer 2010 by the California Digital Library (CDL) found that UC mobile end-users are primarily concerned with information that they need “on the go” rather than full site content or functionality.¹ Mobile users want quick snippets of information, such as finding directions, quick e-mail, fact checking, and perusal of already discovered academic resources. The more complicated tasks associated with searching, analyzing, writing, and comparing resources are not well suited to current mobile devices. Based on these findings and an environmental scan² made of current library mobile site home-page elements the task force made recommendations for mobile Web site content. These content elements were also divided into two tiers:

First tier mobile homepage elements

- Ask a Librarian
- Database search (links out to mobile vendors)
 - Directions or maps
 - Hours
 - News and events
 - OPAC search (This element was often-times categorized as a second phase mobile development effort.)
 - Staff directory
 - View full site option

Second tier mobile homepage elements

- Borrowing information
- Computer availability
- Floor plans
- RefWorks mobile
- Social media (Twitter, Facebook, Flickr, etc.)

Conclusion

In November 2010, UC HOPS enthusiastically accepted the “Best Practices for UC Library Home Pages Report”³ and endorsed our

recommendations. Specifically, HOPS called for UC libraries to implement recommended nomenclature for homepage elements within the next six months wherever it is possible to do so.

They further recommended consulting the report prior to any future large-scale Web site revision.

It will likely be several more months before we see our recommendations widely implemented on UC library homepages. Initial feedback from library administrators has been generally favorable; they acknowledge that having these standards is at least a useful first step in looking critically at their current homepages to see what could improve usability. But Web page changes are rarely fast or easy. Buy-in from Web teams takes time, and anyone who has managed a Web page knows that even seemingly small changes can be complex in the execution. But we’re optimistic that with time, each UC library will recognize the value of carrying out these first steps toward standardization.

The recommendations of our taskforce have potential value beyond the ten-campus UC system. Librarians have long accepted the idea of controlled vocabulary for subject headings as a way to streamline information retrieval. Standardizing terminology for at least the main elements on library homepages will improve the user experience and save Web teams countless hours debating nomenclature. Perhaps the time is right for ACRL develop with Web page best practices and standards for North American college and university libraries.

Until then, other library systems may find the UC report a useful reference for recommended nomenclature and/or a guide for the process of coming up with nomenclature standards of their own. Though our recommendations were based on UC data and developed specifically for our libraries, we suspect that parallel analyses by other institutions will replicate much of what we discovered and ultimately result in similar conclusions and recommendations. We look forward to

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President Ronald Reagan opened the National Center for Missing and Exploited Children, with its national 24-hour toll-free hotline for missing children. NCMC serves as the nation's resource for missing children. Information and resources are available to law enforcement, parents, children and child victims, and others. Three sections, Help Now, Resources For, and Topics of Focus assist the user in locating needed information. Help Now provides information on Reporting a Sighting, CyberTipline, AMBER Alert, and Staying Informed. Resources For has items for Parents and Guardians, Law Enforcement, Childcare Providers, Attorneys, and the Media. Topics of Focus offer resources on If Your Child is Missing, Child Safety, Success Stories, and Natural Disasters. *Access:* <http://www.missingkids.com>.

• **United States Department of Justice: The Crime of Family Abduction.** Family abduction is one of the most common reasons for a child being abducted. Several issues are covered in this publication: what happens to a child who is abducted, what the parents are feeling while the child is missing, and how to deal with the aftershocks when a child is returned to his or her family. An extensive list of resources is available for the user. Former abducted children and former searching parents provide personal information on their experiences. *Access:* <http://www.ncjrs.gov/pdffiles1/ojjdp/229933.pdf>.

• **United States Department of Justice: What About Me? Coping with the Abduction of a Brother or Sister.** A resource for anyone who knows someone who was abducted. From siblings to friends, this resource provides suggestions on how to cope, from keeping a diary to asking question of your parents to feeling guilty because you because you fought with a sibling before they were abducted. *Access:* <http://www.ncjrs.gov/pdffiles1/ojjdp/217714.pdf>.

• **United States Department of Justice: When Your Child is Missing: A Family Survival Guide.** Parents of missing and murdered children assisted in creating this volume for families. The 114 pages cover various topics, including The Search, Law Enforce-

ment, The Media, Volunteers, Rewards, and Family Considerations. It provides "firsthand knowledge and sound advice" about the steps to take when a child is missing. *Access:* <http://www.ncjrs.gov/pdffiles1/ojjdp/228735.pdf>.

• **United States Department of Justice: You're Not Alone: The Journey from Abduction to Empowerment.** Young adults, who were abducted and have returned home, assisted in creating this volume. Five sections including Your Journey, Getting in the Driver's Seat, and Navigating the Roadblocks can provide help for those struggling with a return to their life after an abduction. Personal stories from those abducted provide an intimate view of recovery. Most of all, this resource provides hope to those working to recover from an abduction. *Access:* <http://www.ncjrs.gov/pdffiles1/ojjdp/221965.pdf>.

• **USA.gov: Missing Children.** Provides AMBER Alerts by state, including contact information and a link to state AMBER plans, information on Code Adam and the Code Adam Alerts in government buildings, and the National Sex Offender Registry: National Search. *Access:* http://www.usa.gov/Citizen/Topics/Missing_Children.shtml.

Note

1. FBI's NCIC Web site, www.fbi.gov/about-us/cjis/ncic/ncic-missing-person-and-unidentified-person-statistics-for-2010. ❧

("Come together," cont. from page 329)

these additional studies and eventually to a set of standards we can all agree on.

Notes

1. Rachael Hu and Alison Meier, CDL Mobile Strategy Report, www.cdlib.org/services/uxdesign/docs/CDL_Mobile_Device_User_Research_final.pdf.

2. Dan Suchy (UC San Diego) and Alison Meier (CDL), Environmental Scan of Libraries' Mobile Sites Offerings, July 1, 2010.

3. "Best Practices for UC Library Home Pages Report" can be found at www.cdlib.org/services/info_services/instruct/UCLibraryHomePagesTF_Report.doc. ❧