Applying information architecture to university web sites

CASE V Conference

December 13, 2005 Keith Instone keith@instone.org

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Blog item for this presentation: http://instone.org/casev

Hi, I am Keith

- IBM > ibm.com > User experience > Information Architect
- Computer science > Humancomputer interaction > Hypertext > Web usability > Information architecture
- · Argus associates
- Telecommute to work from Toledo, Ohio
- BGSU Computer science researcher, ca. 1988-1998 (including working on bgsu.edu in the very early days of the web)



Overview

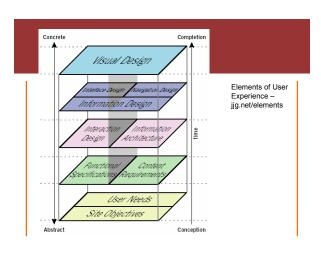
- About information architecture
 - Examples from ibm.com
 - Applied to university web sites
- Theme: Site organization → User experience → Perception of the university
- Practical: Navigation
- Warning: a lot of geeky IA stuff

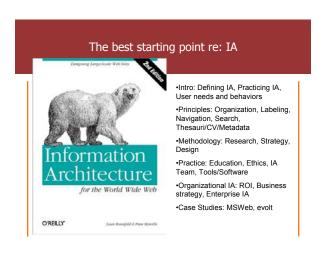
Familiar voices at CASE V

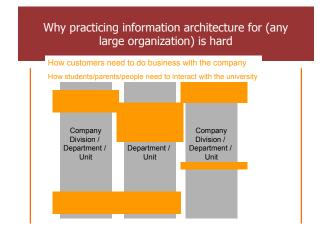
- Chaos to Harmony Enterprise content management (Mon 9:15)
 - ...Coordinated its brand presence on the web...
- Designing an effective fundraising web presence (Mon 11:00)
 ...Site strategy, audience definition, content inventory...
- From recruitment to orientation: Leveraging the web to offer services and build community (Mon 2:00)
 - Disparate sites... into... a... rewarding... experience...
 - Disparate sites... Into... a... rewarding... experience...
 Web site + process/people + information = good experience
- Measuring site success (Mon 3:45)
 - ... Complete user experience involves ... what users really think of your site ... usability studies...
 - 78% of prospective students use the web to evaluate colleges
- Usability factor (Tue 9:15)
 - Methods and processes for developing a site's information architecture.

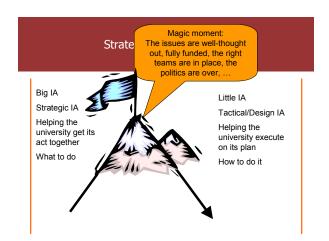
What is information architecture? (from IA Institute)

- The structural design of shared information environments.
- The art and science of organizing and labeling web sites, intranets, online communities and software to support usability and findability.
- An emerging community of practice focused on bringing principles of design and architecture to the digital landscape.







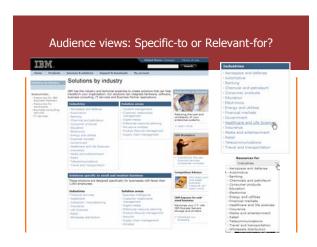


IBM stories → University examples (examples to explain concepts & foster discussion, not be critiques)

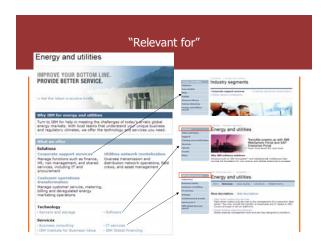
- Audience views
 - IBM story, university samples, discussion/Q&A
- Org chart-it is
 - IBM story, university samples, discussion/Q&A
- Faceted finding
 - IBM story, university samples, discussion/Q&A
- Navigation concepts
 - IBM story, university samples, discussion/Q&A

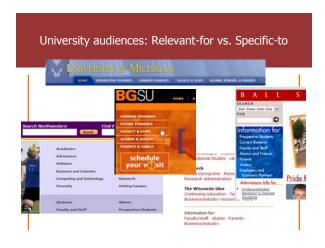






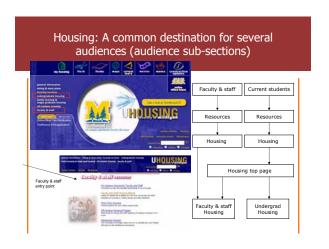


















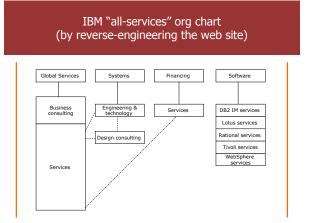
Audience views: Discussion points

- Specific-to vs. Relevant-for
 - What proportion do you have?
- Audience as page of links vs. pervasive view of the university
 - Do you have an Alumni gateway page?
 - How much does your Alumni ass'n site represent "all things for alumni" (vs. org chart)
- Impact on the user experience?
 - And thus on the perception of the university

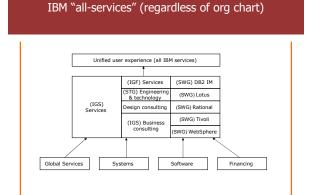
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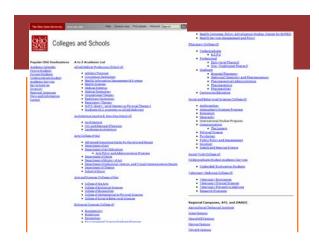
2 Does anybody care about your org chart? (Or, how does it feel to air your dirty bundy in public on the web?) | Continued to be provided to be provided



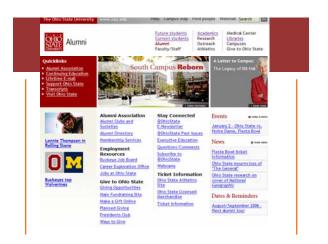
















Org chart: Discussion points

- What techniques do you use to fight org-chartit is within universities?
 - What is the impact on the user experience / perception of the university? Maybe "herding cats" is the "brand" you want to convey? (^:
- Any examples where the org chart was overcome for a quality user experience?
- Any tips for at least getting each group to *appear* to be part of the same university?
- ..

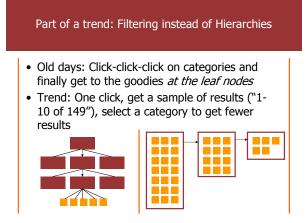
#3 When does it pay to centralize and provide many access points? (Faceted finding)



Faceted browsing

- Interaction style where users filter a set of items by progressively selecting from only valid values of a faceted classification system
- Facet values selected in any order the user wishes
- Null results are never achieved
- Leverages faceted classification schemes
- "Slow and steady wins the race" interaction (click-page-click-page)
- · Model: drill-down choices "naturally" reflect depth so far
- Faceted finding = faceted search + faceted browse + faceted query

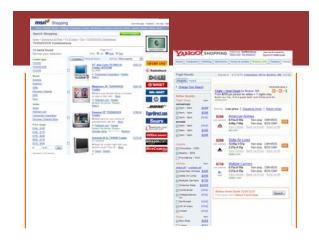


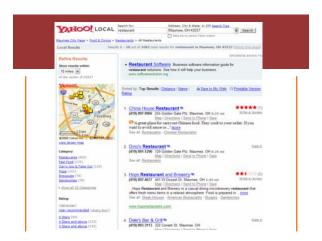






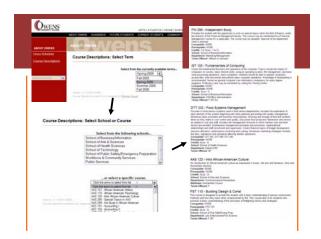




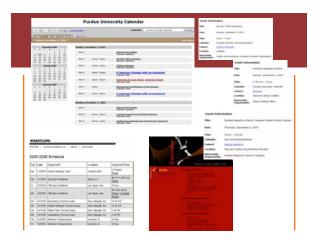


Faceted browsing possibilities for university web

- Course description database
- Calendar of events







Faceted finding: Discussion points

- Any examples of existing university applications?
- What user goals does this appear to be promising for universities?
- Any other favorite examples (non-university)?

• ...

#4 Kinda interesting so far, Keith, but we really need help with our *navigation*!

- Designing all pages as an entry point
- Navigation framework: global, local, contextual, personalized

"Stress test" questions (ca. 1997, more popular now with SEO)

- What is this page about?
- · What site is this?
- What are the major sections of this site? Which one is this page under?
- What is "up" 1 level from here?
- How do I get to the home page of this site?
- How might you get to this page from the site home page?

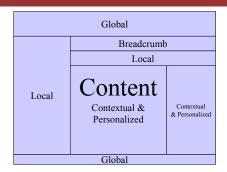
What does each group of links represent?

- More details, sub-pages of this one
- Nearby pages, within same section as this page
- Pages on same site, but not as near (in other sections)
- · Off-site pages





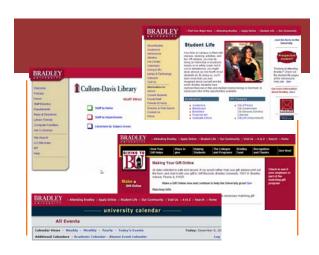
Navigation Framework



Global & Local Navigation

- Site identification, branding
- Major sections
- Utilities
- Almost every page
- Can (should?) change for sub-sites
- Where-am-I indicators

- Specific to this section of the site
- Varies from section to section, but consistent (hopefully)
- Parental, sibling, child relationships
- Where-am-I indicators



Contextual & Personalized Navigation

- Specific to this page
- Cuts across hierarchy (local navigation covers the stuff in the same bucket)
- Hand-crafted and/or automated
- Embedded in the content and/or given its own space on the screen
- Like contextual but based on WHO you are
- "Recommendations"
- Who do you think I am?
- Why is this here?
- What am I missing?



About the 3 Types of Breadcrumbs

The term "breadcrumb" is used for several different concepts – causing confusion during design discussions

- Location Breadcrumb "You are here", static
- Path Breadcrumb how you got here, dynamic
- Attribute Breadcrumb meta-information

Yahoo Directory: Everyone's first exposure to breadcrumbs?



Yahoo Directory: @ means Transport







Navigation concepts: Discussion points

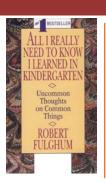
- What template do you use to encourage people to design each page as an entry point?
- How have you balanced global and local navigation?
- Do you have any personalized navigation?
- Are breadcrumbs effective for your sites?
- ...

Final thoughts?

- Which IBM stories were most relevant to you?
- What are the *other* important IA issues at your university? (I may have an IBM story that is similar)
- What are your take-aways from this talk? (if any!)
- ...

All I really need to know I learned in IA class...

- Share
- Put things back where you found them
- Flush
- Take a nap
- Hold hands, watch out for traffic, stick together



Thanks for your attention!

Other stuff about navigation, breadcrumbs, faceted browsing:

http://user-experience.org/

This presentation: http://instone.org/casev