User Centered Design

David Lindahl Kelley Martin Nara Newcomer University of Missouri-Kansas City MOBIUS Annual Conference, June 3, 2014

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User-Centered Design David Lindahl Director of Strategic Initiatives and Planning UMKC University Libraries

Challenges

- Skills
- Many → One
- Ad-hoc process → Participatory design
- Change

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Strategy and Change

- Linear
- · Adaptive
- · Interpretive

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Strategy and Change

- Linear
- Adaptive
 - Understand the environment
 - Understand capabilities
 - Make connections (adapt)
- Interpretive

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Strategy and Change

- Linear
- · Adaptive
- · Interpretive
 - Authentic communications
 - Guide participants through shared symbols and concepts

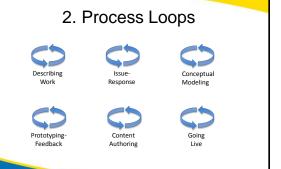
User Centered Design Initiatives

- 1. User Centered Design (department)
- 2. Process
- 3. Tools
- 4. Participatory Design (projects)

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- 1. User Centered Design (department)
- · Roles and Responsibilities
 - Design
 - Development
 - Usability Testing
 - Project Management
 - Communication
 - Process

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3. Tools

- Issue management
 - Track issues to closure
 - Manage work across the organization
- Document management
 - Web-based, collaborative, versioning, metadata, search, permissions
 - Iterative work products

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4. Participatory Design (projects)

- · Process includes:
 - Observation
 - Group analysis and brainstorming
- Purpose:

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- Uncover unmet needs
- Diverse collaboration to conceptualize new offerings

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Usability Testing

Kelley Martin

Library Specialist – University Libraries
Usability Testing Coordinator and
Sound Archivist in the Marr Sound
Archives

User Centered Design: Lindahl, Martin, and Newcomer, UMKC

What is Usability?

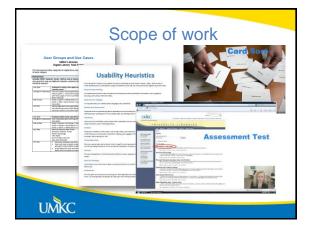
- Useful
- Efficient
- Effective
- · Learnable
- · Satisfying
- Accessible

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Why should you test?

- For your patrons
 - Satisfy needs
- · Library staff
 - Focus on other issues
- Benefactors
 - Using resources wisely

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Education

- · Demonstrate the importance of testing
 - Make work process open
 - Hosting brown bag or open houses
 - Contributing to the larger library community
- · Create a new atmosphere
 - User needs are primary

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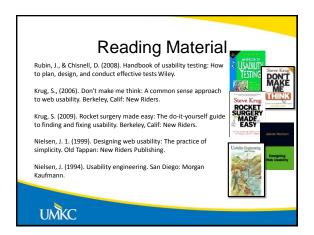
Building a team

- · Read a lot
- · Wrote a charge
- · Looked at our staff directory
- · Picked my "dream team"
 - Choose from different departments
 - Talked to managers
 - Talked to potential members

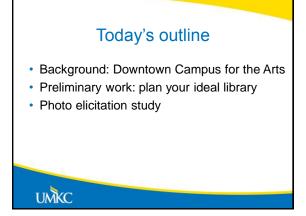
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Start the training

- · Create a training schedule
 - Use your best guess
- Pick a main text
- Don't get too attached to the schedule
 - It will change
 - It will change again

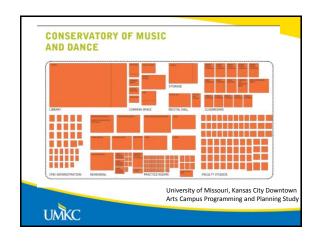












User-Centered Design

- · To plan for Downtown Campus
- · To improve current spaces

"Envision a library space that meets the needs and dreams of Conservatory students and faculty."

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PRELIMINARY WORK: Plan your ideal library

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Preliminary work (Nov. 2013)

- 10 Conservatory students (8 grad; 2 undergrad)
- · Written prompt:

You're planning the ideal library for YOU. Describe it. What is it like? What does it have?

106 ideas!

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(selected) Major Themes

- Spaces
- Collections
- · Technology

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Spaces: individual, group, and soundproof

- "A "jukebox" ...to be played where students are just hanging out"
- "Study rooms ...closed off and semi-sound proof. Some can be fitted with listening stations for AV."

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Collections...

 "Expanded Score Library: Even more important than new, nifty gadgets, our library should direct more resources towards the acquisition of new scores."

Technology...

- · Macs and PCs
- Specialized music software, MIDI keyboards
- · Lab assistants
- Large screens, printing, and scanners, for creating and studying music scores

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PHOTO ELICITATION STUDY

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Photo Elicitation Study

- · 6 subjects
- 20 specified photographs of places, items, or situations in their daily life
- Follow-up, video recorded interview
- · Interviews transcribed, coded, co-viewed

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IRB (Institutional Review Board)

- · Expedited/Full Board Application
- 37 pages + 5 attachments
- Approval delay meant study postponed to Fall 2014

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Recruiting Subjects

- Flyers
- Email
- · Social media
- · Word of mouth

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Gathering data

- · Subjects take 20 photos based on prompts
- · Follow-up interview with researcher

