Hacking User Experience in a Repository Service:

ScholarSphere as a Case Study

Open Repositories 2014
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Outline for the Talk

Context

- UX defined, state of UX work in IRs

Making the case

- UX support in IRs

Unpacking our hacking

- What we did, what you can do

Future plans

- Final takeaways

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What is ScholarSphere?

ScholarSphere is a secure repository service enabling the Penn State community to share its research and scholarly work with a worldwide audience. Faculty, staff, and students can use ScholarSphere to collect their work in one location and create a durable and citeable record of their papers, presentations, publications, data sets, or other scholarly creations. Through this service, Penn State researchers can also comply with grant-funding-agency requirements for sharing and managing research data.

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CONTEXT AND SOME CONTESTING

UX defined

"User experience" encompasses all aspects of the end-user's interaction with the company, its services, and its products.

How to do high quality UX, per Nielsen and Norman

- Seamless merging
- Engineering
- Marketing
- Graphical and industrial design
- Interface design

General state of UX work in IRs

- Major focus
 - -Content recruitment
 - Engagement of faculty
- Minor focus
 - -Usability
 - Personae development
 - User expectations

Why is attention to UX in a repository service important?

MAKING THE CASE

UX is about people



People want simplicity and elegance.

Takeaway: Build simplicity and elegance into your repository.

People produce content. Repositories want content.

Takeaway: Repositories need people. Build what people want into your repository.

UX is also about service, and a repository is a service







People want, need, expect good UX.

People have a stake in UX.

Repositories have a stake in people.

Takeaway: Participation = Buy in.

Build UX into your repository.

Users are integral to the repository ecosystem

But what if you have these constraints:

- No one who officially does UX
- Tight timeline of 9 months to production
- You need a lot of people, and FAST, to inform features and functionalities

You hack UX!



Part 1: ScholarSphere 1.0 UNPACKING OUR HACKING

Calling all liaison librarians!



"Organizers at the bullhorn" CC BY 2.0 - JacobRuff via Flickr

Stakeholder engagement – "high touch" vs. high tech

- Stakeholder group- 24 librarians
- Bi-weekly meetings: usecase driven, LOTS of listening
- Developers at most meetings – CRUCIAL



"Listen" CC BY 2.0 - Ky via Flickr

Usability testing

- Liaisons helped communicate out about the testing
- Conducted like a focus group
- Developers were present at most sessions

Engineering + interface design = UX hack (half-way "seamless merging")



<u>"test"</u> CC BY 2.0 –
David Bleasdale via Flickr

What was the hacked UX in ScholarSphere 1.0?

Gave as much control to users as possible:

- No account set-up required
- Self-deposit system by design
- Open to the ENTIRE Penn State community



"DeArmond Tremolo Control Front 2"
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Part 2: Beyond ScholarSphere 1.0 UNPACKING OUR HACKING

Versions

Version 1.10 (April 10, 2014)

https://scholarsphere.psu.edu/versions/

- · Adding pagination on collection show and edit pages
- · Displaying file permissions on the generic file show page
- Changed resource type "Master's Thesis" to "Thesis" on the Descriptions (metadata) template.

Version 1.9 (February 13, 2014)

- · Fixed bugs with Facets not displaying in Safari
- · Added validation to Collections to require a Title
- · Included query links on GenericFile Show page
- Fixed user profile page to display the correct number of deposited files
- · Made highlighted files easier to remove and thus manage
- · Added relative date to notifications page

Version 1.8 (November 26, 2013)

· Enhancements to the deployment process.

Version 1.7 (July 9, 2013)

- Users can upload files on behalf of other users for approval.
- Users can designate others to be authorized to upload files for them to by pass a case-by-case authorization process.
- · Files that have been uploaded to ScholarSphere can be logically arranged into collections.
- Users can authenticate to their Dropbox account from the ScholarSphere upload screen and import files into ScholarSphere.

Version 1.6 (May 29, 2013)

Since the beta launch in 2012, there have been ten versions of ScholarSphere. Frequent releases speak to the responsiveness of our user eperience deisgn.

Created new features based on user feedback after beta release

"My files are bigger than the maximum allowed size."

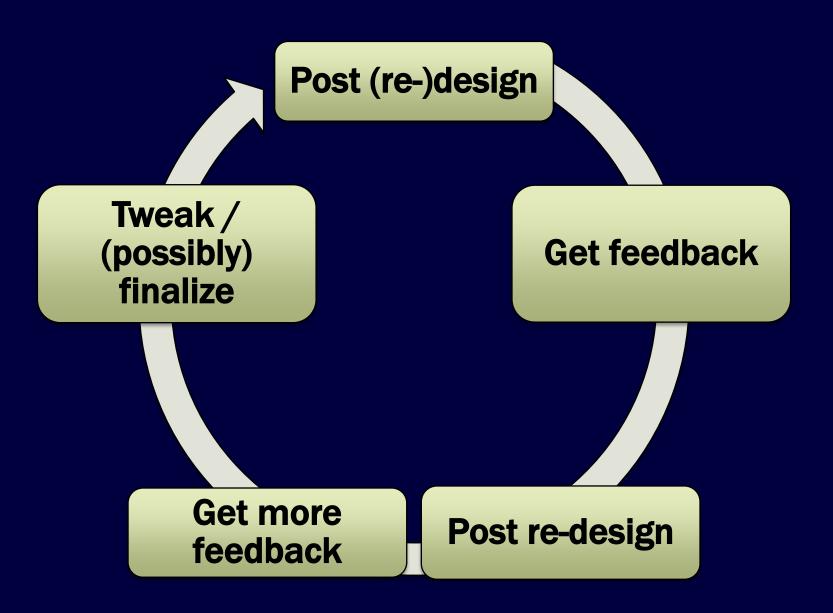
"I don't have time to deposit all my files."

"I would like to be able to group my files."

Established the ScholarSphere Users' Group (SUG)

- Core set of diverse users
- Participatory design
- Direct access to service development
- Insight into user behavior, expectations, goals
- Shared coordination of SUG activities

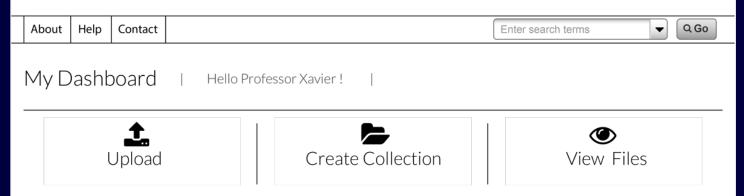
SUG and Redesign Process

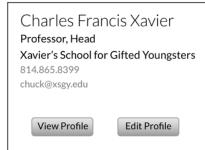


Web developer with UX experience

- Interaction with Project managers
- Work with development team
- ScholarSphere Users' Group
- Mockups and wireframes









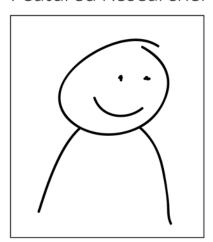
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User Charles Francis Xavier has edited 3rd_quarter_bills.xls	1 mo. ago
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blarg, blarg, balargie, blarg	Batch Complete	6 mo. ago 🗓

Proxy Activity	
Message	Date
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Jennifer Young

keywords: Penn State Hershey Nursing, Compassion, Traumatic Stress



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Dedicated Marketing

- Autumn 2013 –
 Phase 1: mainly faculty
- Spring 2014 –
 Phase 2: students

Opportunity for promotional campaign & we jumped at it

=> UX hack



It's good to share.

ScholarSphere can help.

What you can do to hack UX FINAL TAKEAWAYS

You can ...

- Build relationships with champion users
- Form a users' group
- Do user interviews
- Share responsibilities for UX
- Partner with PR/marketing office, etc.
- Prioritize communication with users
- Dedicate time to user services programming
- Work in concert with developer team

Future Plans

- ScholarSphere 2.0 set for release this fall: communication, programming
- Next up: Prototyping Hydra head for ETDs; mediated deposit, Zotero plugin
 - all will require UX requirements gathering & participatory design

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THANK YOU!