

FLUID Project Launch Meeting

April 19-20, 2007

Agenda

- Introductions
- Roles, Partners, Participants
- Communication Plan
- Collaboration Supports
- Governance
- Risk Management

Agenda

- Review of Deliverables
- Review of Technical Architecture
- Overview of Proposed Process
- Getting Started Plan

Overview of the FLUID Project

The Context for FLUID

- Poor usability and accessibility is a significant barrier for community source
- Now is a critical time to address the usability concerns of our communities
- Our goal is to incrementally improve overall user experience

FLUID in Community Source

- Our goal is to incrementally improve the user experience of Sakai, uPortal and Quali Student
- Holistic approach: integration of UI technology and user experience design
 - **Social:** creating community supports/process
 - **Technical:** UI dev tools

Design Deliverables

- Start with heuristic analysis and usability reviews
- Establish a baseline of usability and accessibility: know where we need to improve
- Shared library of design models: personas, scenarios, etc.
- UI Design Patterns
- U-Camps
- Iterative design and testing of FLUID components

Design and Development

- The last thing community source needs is yet another presentation technology
- To be different, the technology needs to be fundamentally driven by user needs
- Agile development model: close interaction and accountability among designers and developers

What are we going to build?

- A living library of flexible UI components that can be used across applications
- A new component framework built specifically to improve usability
- Easy to wire up new components or customize properties of existing ones
- Components are more than widgets

Core Architecture

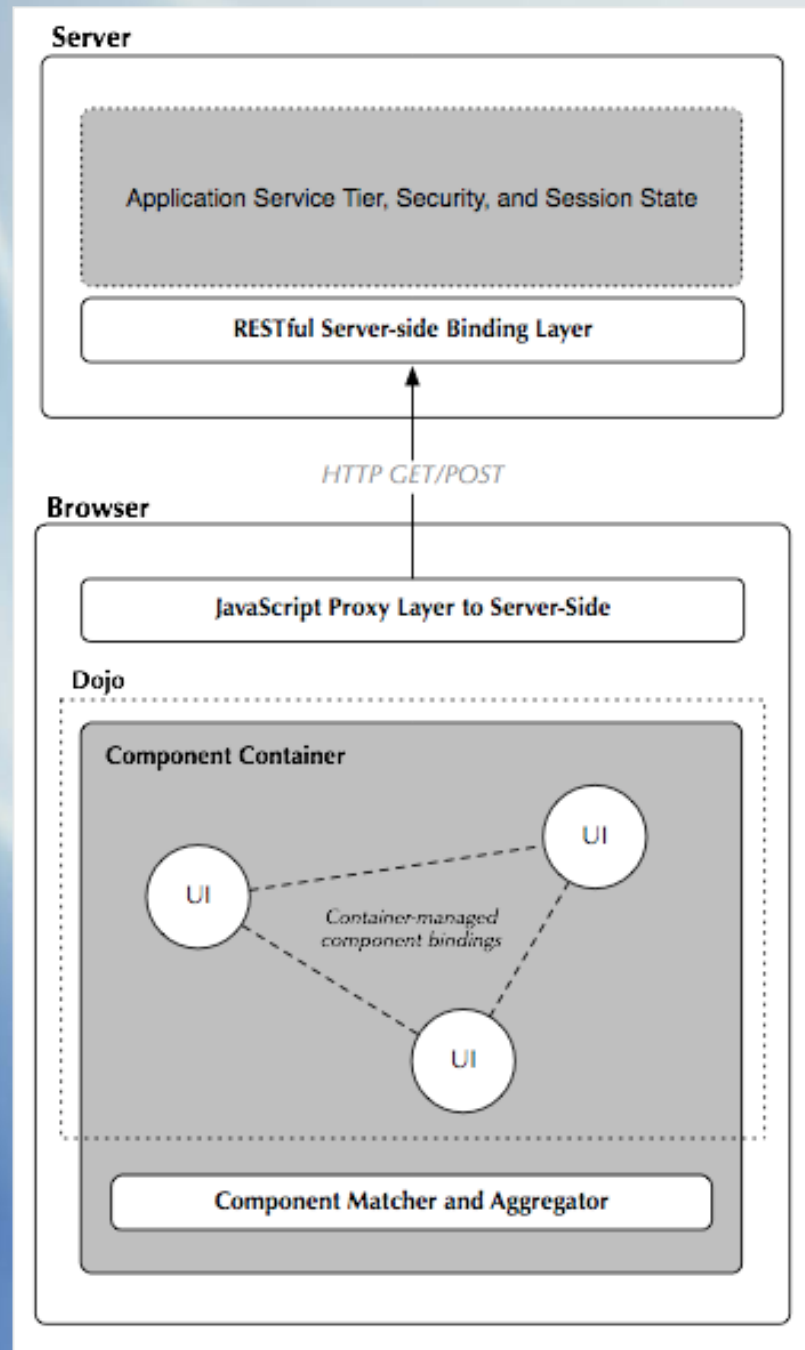
- Component framework
- Repository of shared components
- Semantics and specifications
- Integration

A bit about the technology

- Leverage existing presentation frameworks
- Based on AJAX and DHTML; gives us degree of presentation technology independence
- Advanced customization based on user preferences
- Decouples UI from application logic
- Enables easy switching of components to meet diverse user needs

FLUID in an SOA Context

- Reusable component library provides a source of consistency for developers of new services and portlets
- Recurring patterns throughout toolset
- Build FLUID into cross-cutting areas such as portal navigation
- High degree of customizability for institutions and individuals



FLUID Accessibility

- Leverage ARIA and ongoing toolkit accessibility work for Dojo, YUI, etc.
 - Ajax will be accessible, just a matter of time
- Transformation enables equivalent, accessible components designed for specific users and uses
- Accessibility from the ground up

Integration

- Early and often
- Heuristics to measure improvements
- Testing harness at first, project integration as soon as possible
- Requires regular collaboration with partner projects
- Litmus test of project usefulness

Design, Development & Testing Process

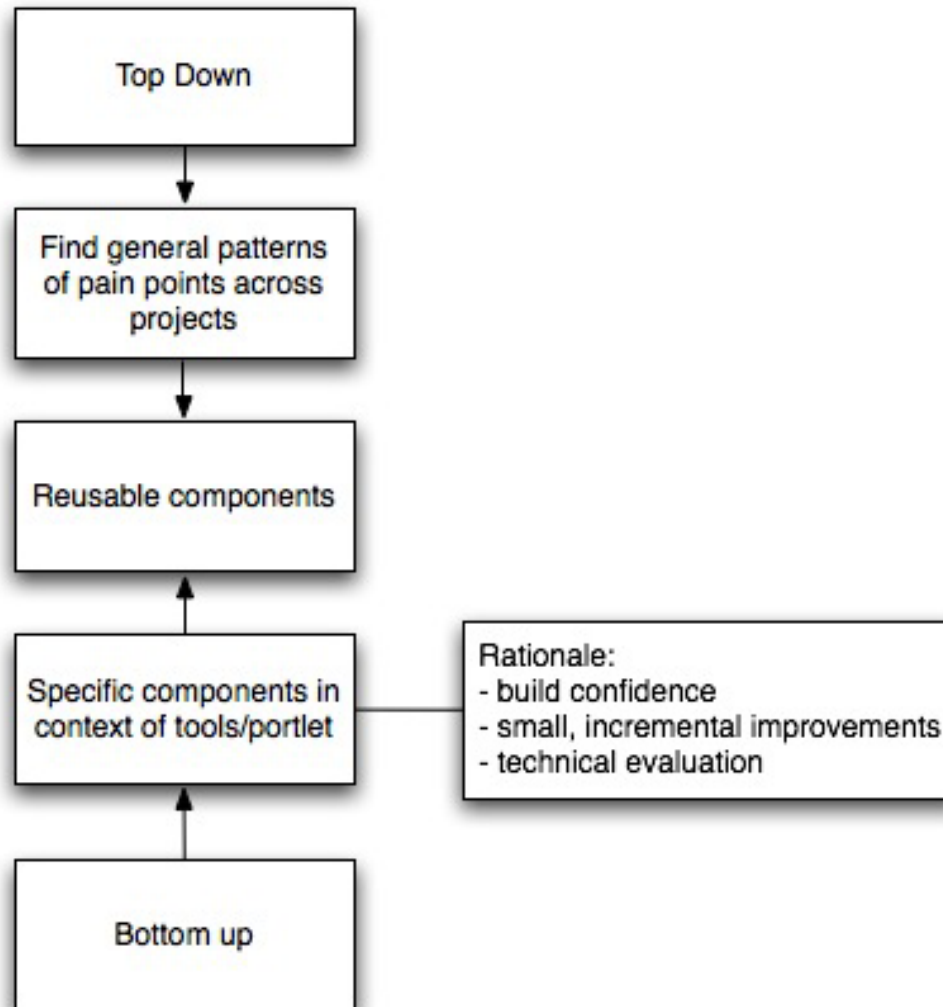
FLUID Deliverables

- Designer's Toolkit
- Components
- Framework

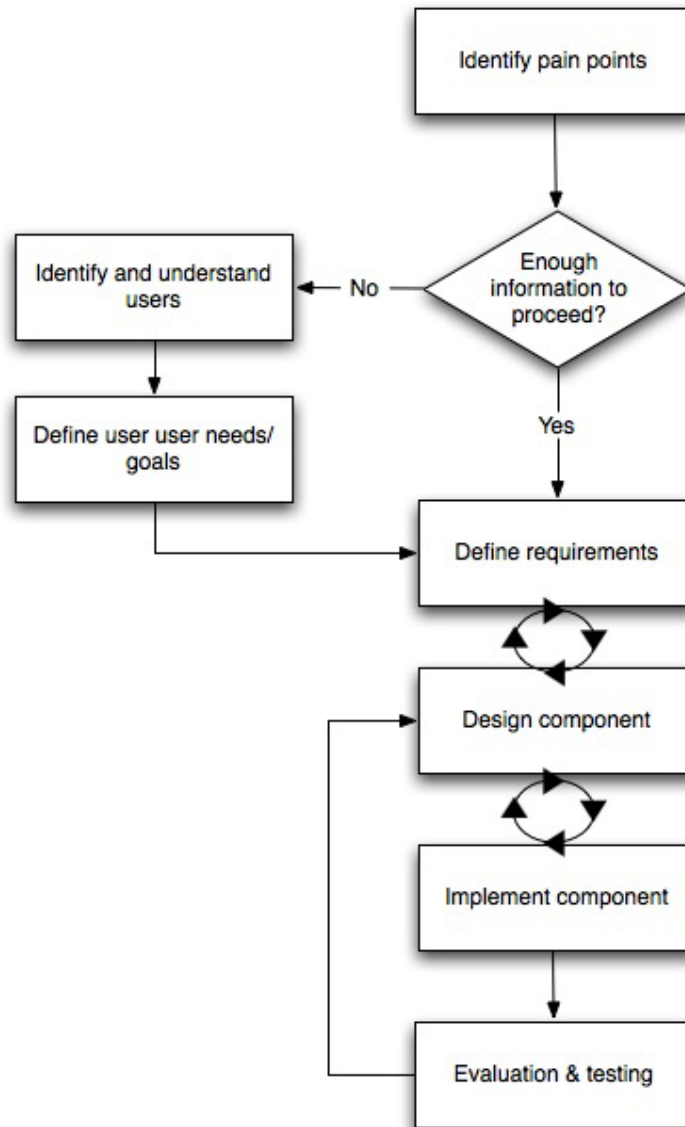
UX Drives Development

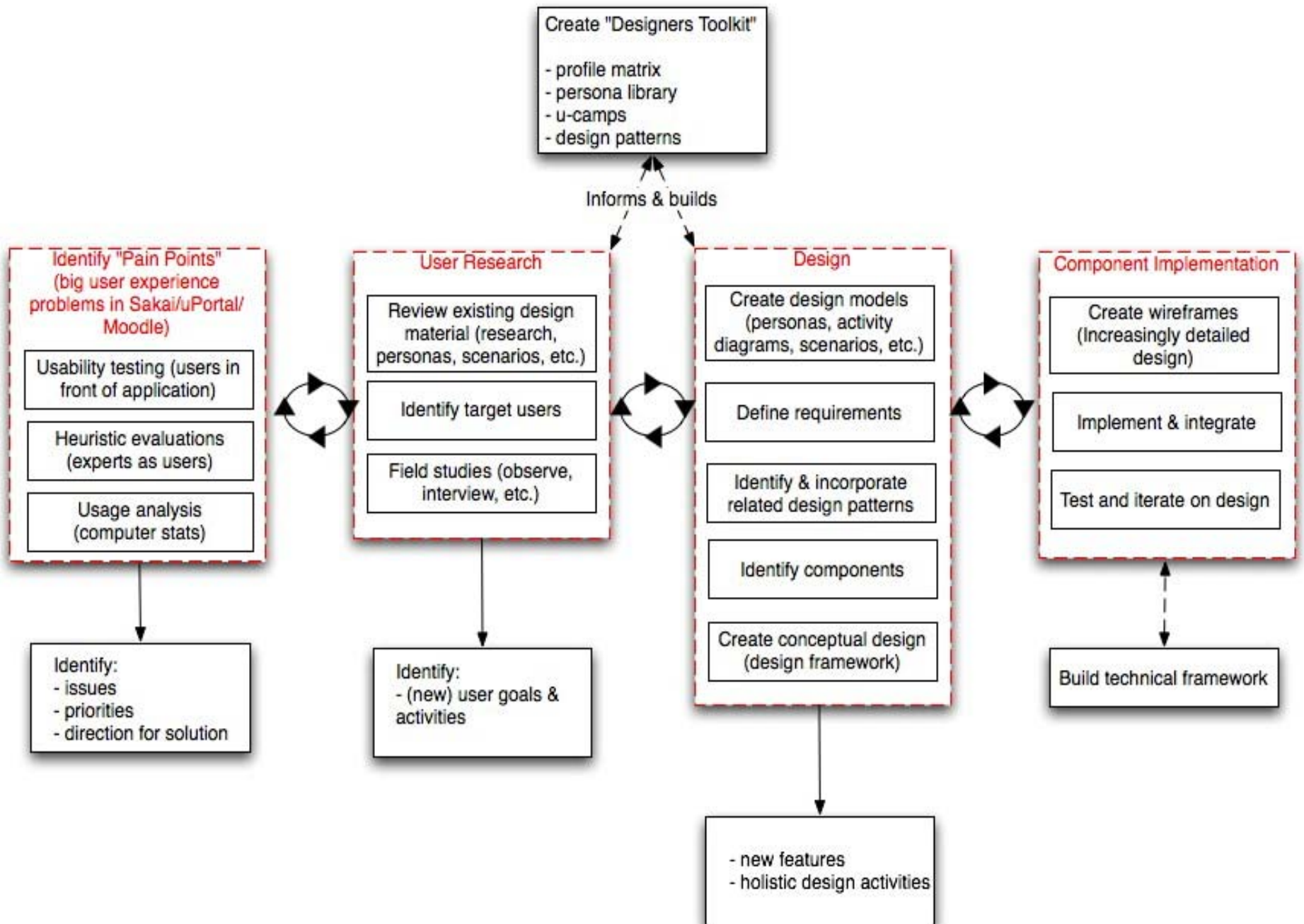
- Heuristic analysis
 - Expert analysis of usability problems
 - Low cost and fairly quick
- Usability synthesis
 - Identify and communicate what we already know
- Usability testing

Component Identification



Component Lifecycle





Milestones & Short Term Goals

- Choose technology frameworks: May
- Evaluate technology in practice
 - Develop real components with candidate technology
- Create prototype image gallery components
 - Design, develop, integrate, test, iterate
 - Create accessible alternatives or equivalents
- Aim for a demo at the June conferences
 - Sakai
 - JA-SIG

Criteria for Choosing Initial Components

- Align with local needs/priorities
- Simple “known” design
- Complex technically
- Test AJAX accessibility
- Generalizable
- Addresses “pain point”
- Accessible alternatives
- Learn early!!!!!!!

Starting Point: Image Gallery

- Create new components for organizing image resources
- Support drag-and-drop and other familiar idioms
- Create exemplary accessible version
- Support JSR-168 for Sakai/uPortal
- Leverage existing design material



Eileen Otrovsky

Resourceful Adaptor



Description

- 19th Century Russian Avant Garde Art Movement Professor
- Jumped on digital band wagon a few years back.
- Overwhelmed by creating first course gallery on-line & didn't feel directly rewarded for 25 hours of work.
- Reuses class images from semester to semester
- Department providing access to online image resources
- Has 1000 images in personal collection
- Starting to use ppt in interesting ways to present images in lecture

Goals

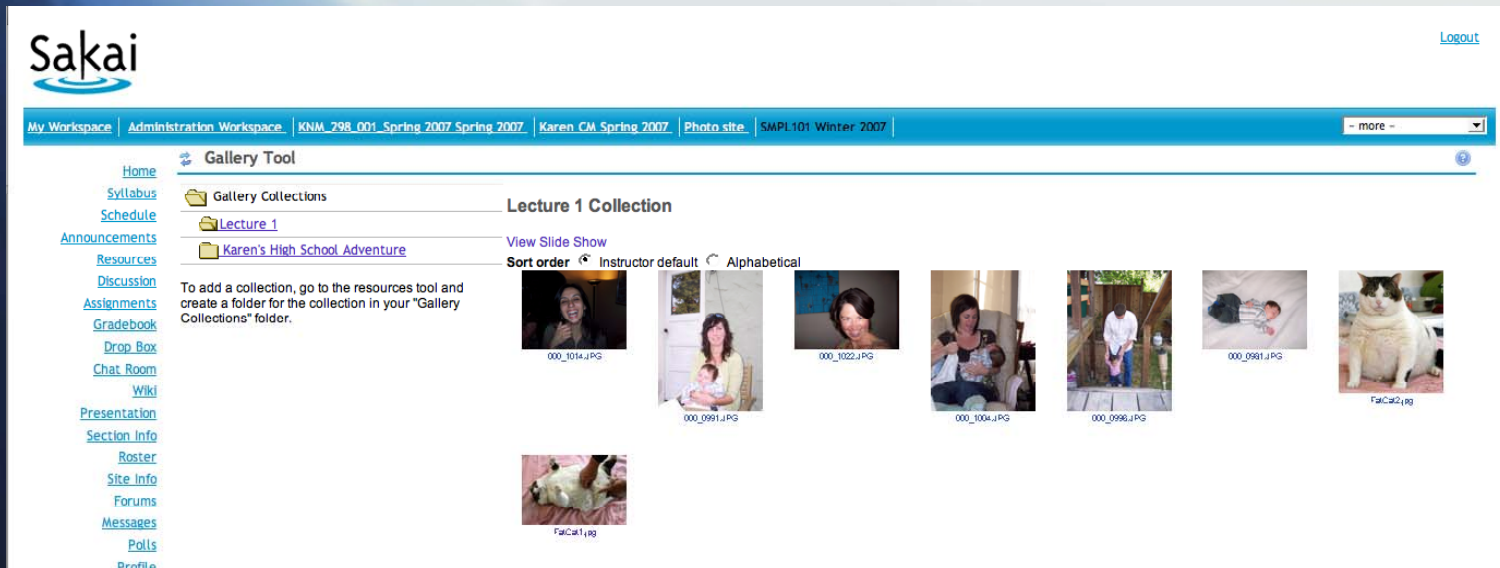
- Spend time on activities that support her research and writing.
- Decrease barriers between her students and the content
- Allow her students and TAs to leverage her collection
- Inspire students to consider Art History as an intellectual pursuit
- Easy access to relevant images.
- Stay Organized
- Get Published

The First Component

- Pain point: Users cannot organize their images in meaningful ways
- Pattern: Reorganize images within a collection/album
 - not between collections/albums
- Components:
 - Drag & Drop
 - Accessible alternative

The First Component - Con't

- Potential Scenarios:
 - Reorder images within an existing album
 - Reorder the list of albums
 - Several albums of images from lectures throughout the semester. Now I want to create a new collection for student's to use for studying for an exam



The screenshot shows the Sakai Gallery Tool interface. At the top left is the Sakai logo. A navigation bar contains links for 'My Workspace', 'Administration Workspace', and several course-specific workspace links. A 'Logout' link is in the top right. Below the navigation bar is a sidebar with a list of site navigation links including Home, Syllabus, Schedule, Announcements, Resources, Discussion, Assignments, Gradebook, Drop Box, Chat Room, Wiki, Presentation, Section Info, Roster, Site Info, Forums, Messages, Polls, and Profile. The main content area is titled 'Gallery Tool' and shows a 'Lecture 1 Collection'. It includes a 'View Slide Show' link and a 'Sort order' dropdown menu currently set to 'Instructor default'. Below the menu is a grid of image thumbnails with captions: '000_1014.JPG', '000_0991.JPG', '000_1022.JPG', '000_1004.JPG', '000_0998.JPG', '000_0981.JPG', and 'FatCat2.jpg'. A text instruction reads: 'To add a collection, go to the resources tool and create a folder for the collection in your "Gallery Collections" folder.' A 'FatCat1.jpg' thumbnail is also visible at the bottom of the grid.

The First Component - Con't

- Image Organization Accessibility
 - What does accessibility mean in this context?
 - Keyboard control
 - Low vision / screen reader
 - Screen magnification
 - High contrast
 - Etc.
 - Create scenarios for accessibility
 - User research

U-Camps

- Design workshops & talks
- Hands-on activities related to UX
 - heuristic reviews
 - design advice/reviews of in-progress software
 - prioritization and synthesis of pain points
- Opportunity to bring developers and UX people together
- Brainstorm: what is the perfect U-Camp?
 - triage and prevention
 - live demos and accessibility reviews
 - usability testing clips

Summary

- The FLUID Project is a reality:

www.fluidproject.org

- Design and development work is ramping up
- Goal: incremental, achievable improvements
- Join our community, we need your input!