http://www.fluidproject.org/



The Fluid Project

An Open Source Community for Inclusive Design

Colin Clark, Fluid Project Technical Lead, Adaptive Technology Resource Centre, University of Toronto Jess Mitchell, Fluid Project Manager





What we'll talk about

what are Fluid's products? what and who is Fluid? what is Fluid's approach? how does Fluid work? how can you use Fluid?



what problem are we solving?

- Systemic problem of poor and inconsistent user interface
 - Often left to programmers
 - Tackled at the end
 - Redundantly developed
 - Inadequately tested and refined
- UX designers not well integrated into development culture
- Poor UX an impediment to adoption
- Academic communities are very diverse
- Differ greatly in our preferences, needs, habits, concepts, comforts, convictions....



what problem are we solving?

- UX is a challenge for all open source projects and all institutions
- Cross-project collaboration:
 - Share scarce UX resources across projects
 - Solve common challenges
 - Recognize recurring user interface idioms and needs
- Fluid is looking at common problems:
 - How do non-technical people get involved in OSS?
 - How can we help designers and developers speak the same language?
 - How do you do user testing in a distributed environment?



What is Fluid?

A community source project that creates user experience tools and software capable of addressing the needs of diverse users.

- Rich, flexible, reusable user interface components
- Lightweight JavaScript development tools
- User Experience Toolkit
- Accessible Interaction Designs
- Design Pattern Community



What is a Fluid Component?

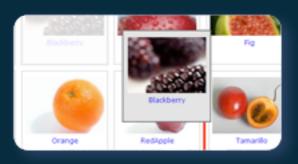
- Components are recurring interactions
- Encompass familiar activities on the Web:
 - Working with files, uploading, finding stuff
 - Navigating through content and tools
 - Rich interactions: drag and drop, etc.
- Activities and contexts, not just controls and widgets...



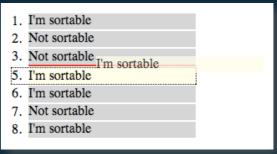
The Reorderer Family







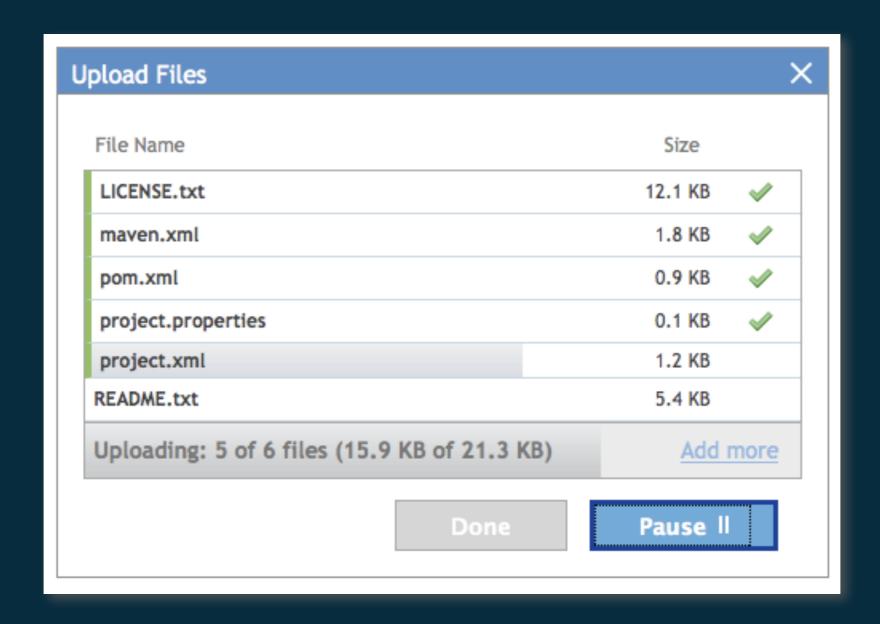
grids



lists

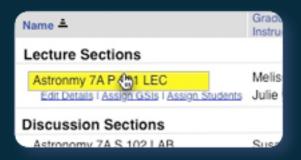


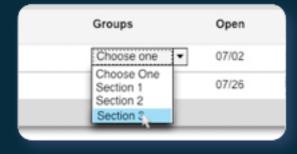
Uploader

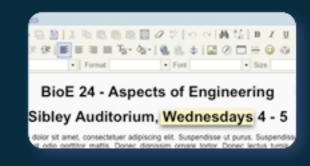




Inline Edit Family





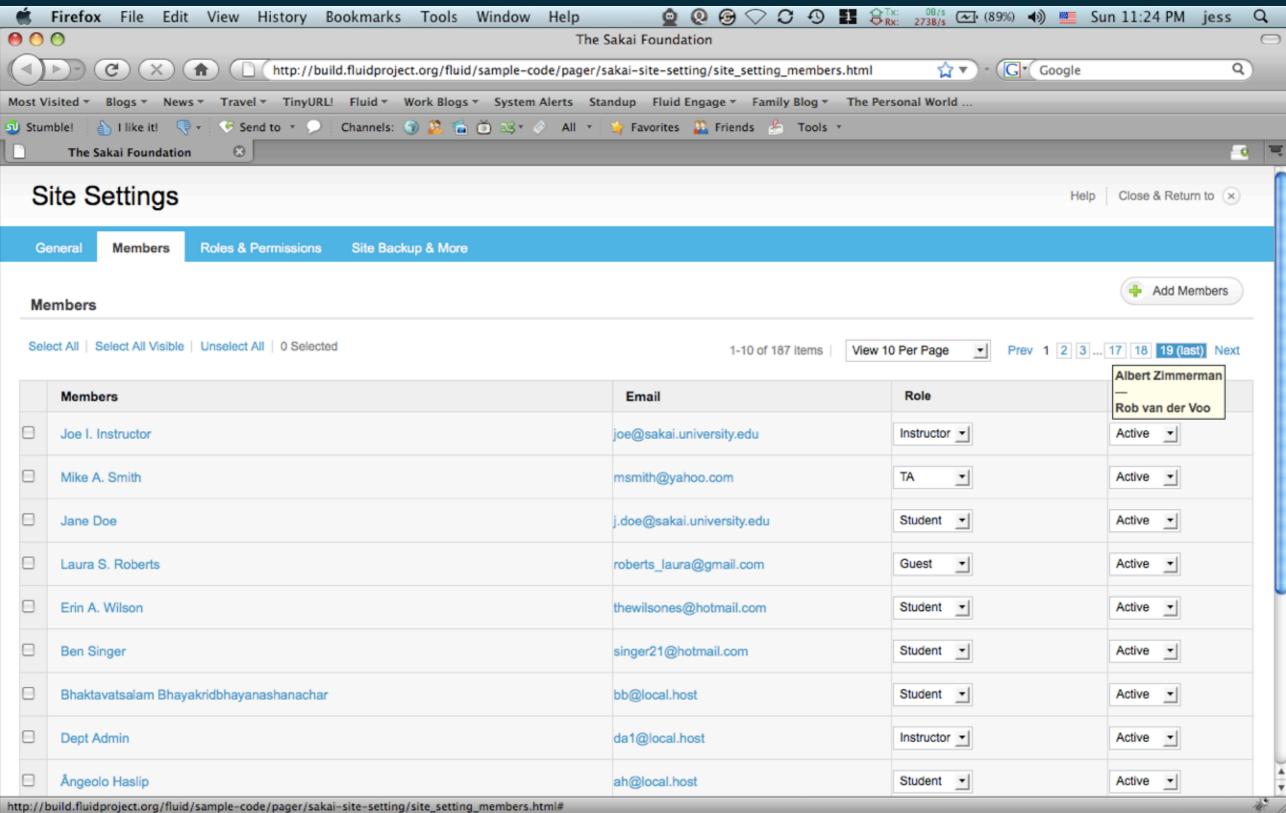


simple text

dropdown

rich text



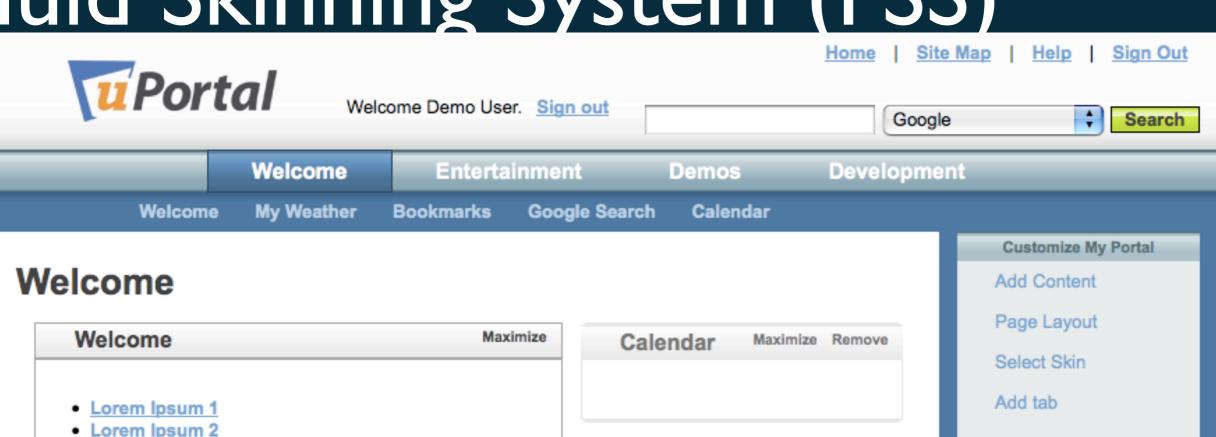


User Interface Options

User Interface Options Help 🔞 Make it work for you. Easier to see Font, Contrast, Images, Layout Preview Window (updates automatically) Font Style: Sans serif 💌 Standard Lorem ipsum dolor sit amet, Minimum Text Size: 12 pt consectetuer adipiscing elit. Curabitur interdum, mi sed Text Spacing: 100 % ultricies vehicula, nibh tortor hendrerit tellus, ut feugiat pede nunc in eros. Nullam convallis Contrast: Medium 🕶 arcu quis ante. Background Images: Yes No Sed nisi. Fusce at nulla ut nulla euismod posuere. Curabitur id nulla id neque faucibus. Layout: Columns V Quisque consectetuer Enim ac magna. Sed auis ipsum eu lorem cursus scelerisaue Nam a mi id eros pharetra suscipit ► Easier to find Contents, Links, Inputs, Actions Easier to control Fusce at nulla ut nulla Buttons, Shortcuts, Controls Lorem ipsum dolor sit amet, consectetuer adipiscing In my language elit. Curabitur interdum, mi sed ultricies vehicula, nibh Languages, Text Alternatives tortor hendrerit tellus, ut feugiat pede nunc in eros. Nullam convallis arcu quis ante. More efficient Menus, Toolbars, Functions Save and Apply Cancel Reset



Fluid Skinning System (FSS)



Lorem lpsum 3

components

Lorem Ipsum 1

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Sed eget neque consequat sapien commodo ultricies. Mauris commodo lobortis elit. Mauris euismod. Fusce ac dui. Nullam in arcu. Morbi pulvinar. Vivamus lacinia ligula et dolor. Phasellus hendrerit nulla. Aliquam

feugiat eleifend tellus. Nullam tristique nisi et est. Sed luctus magna ut dui. Nam aliquet metus laoreet tortor.

Duis erat mi, placerat vel, vulputate ac, commodo vel, mauris. Duis molestie. Sed urna erat, viverra sit amet, aliquam ut, facilisis a, magna. Nullam suscipit posuere justo.

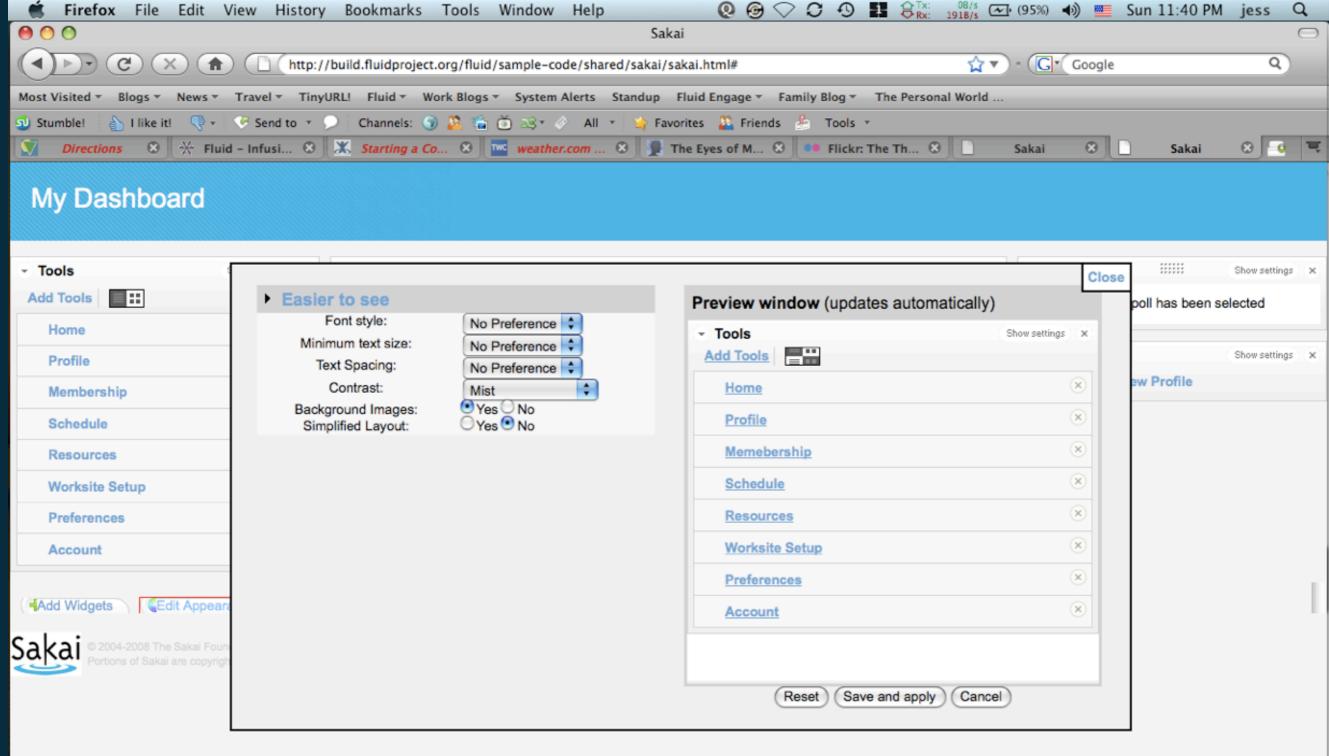
javascript

Quicklinks

Bookmarks Portlet

UX toolkit DPL

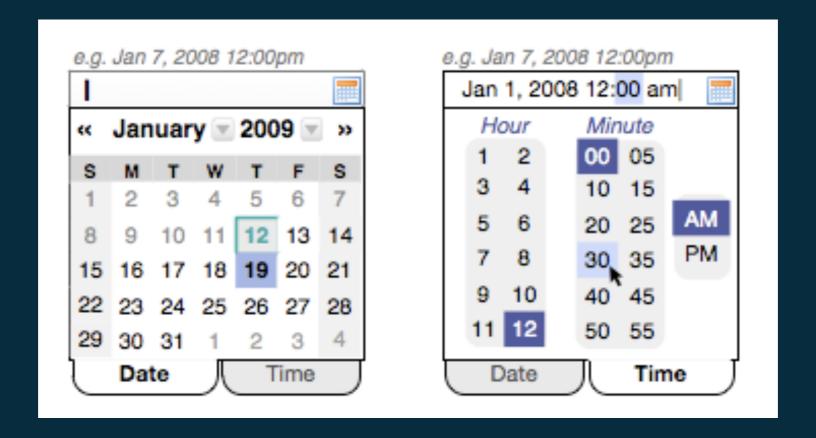
Fluid Skinning System (FSS)



Fluid

Done

Date Picker





Technology

- Fluid components are:
 - Accessible and customizable
 - Compatible with lots of technologies
 - Easy to write and adapt



components

Fluid Framework

- Built with jQuery
- Lightweight MVC
- Client-side template rendering
- Plugins to make accessibility easier
- Highly declarative: reconfigure, rewire, extend

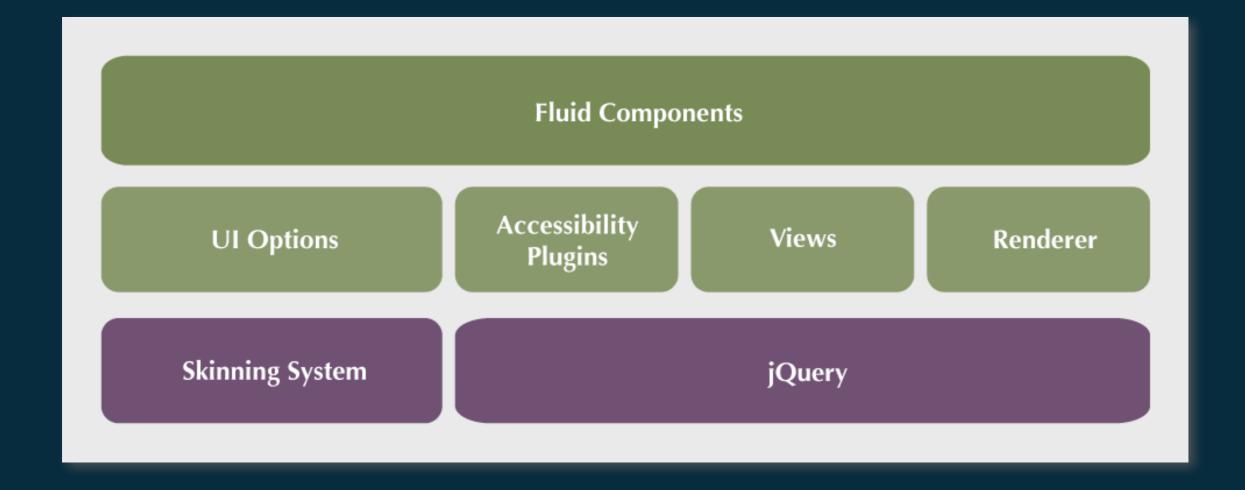


Accessible

- Flexible layouts and skins
- Inject navigational enhancements
- Customizable keyboard support
- UI Options: user preferences
- jQuery UI a11y effort



Fluid Framework





UX Toolkit

The Fluid User Experience Toolkit provides resources, tools, and documentation to help make user interface design and implementation easier. The toolkit includes personas and scenarios for common use cases within higher education, user interface design patterns, testing protocols, and accessibility guidelines intended to simplify the design process.

<u>User Research</u>

Contextual Inquiry

Personas

Accessibility

Accessibility Resources

Evaluation and Assessment

UX Walkthroughs

User Testing

Visual Design Fluid Brand

Interaction Design

Design Patterns

Components

Comparative & Competitive

Analysis

Design Process & Management

Agile Planning - Goals, benefits and

details

UX Resources



UX Toolkit

- UI Design Patterns
- UX Walkthroughs
- Testing techniques
- User profiles
- All the stuff you need to design great interfaces!



Design Pattern Library



Open Source Design Pattern Library

Open Source UI Design Patterns

Home >

Register

Quick and easy! Create patterns and join discussions on draft patterns! Go here to Register

Login

Already a member? Go here to Login now.

Browse Patterns

Content Management Information Organization Input Forms Navigation All Patterns

Top Rated Patterns

Drag and Drop - List
Ordering

★★★★
Comprehensive File Upload

★★★★
Drag and Drop - Layout
Preview

★★★☆
List Builder

components



Contribute a Design Pattern View / Edit My Patterns



Join a Discussion



About the OSDPL
What is a Design Pattern?
How to Write a Pattern FAQ
General Design Pattern FAQ
Open Examples Guide
Glossary

Recently Modified Patterns

Drag and Drop - List Ordering

★★★★ Comments: 2



Time updated: 2 weeks 2 days ago

Comprehensive File Upload

Comments: 0



Latest News

- OSDPL downtime for testing of workflow (Updated)
 02/21/2009 - 05:16
- Front page modifications, improvements to discussion display
 - 02/12/2009 05:56
- What is a Design Pattern?
 02/12/2009 02:35
- About the OSDPL 02/11/2009 - 05:36

Under Development

Submit feedback

Recent Comments

Good question
1 week 4 days ago

Should our patter focus on websites as well as web applications? 2 weeks 1 day ago

Changes to comment

system 2 weeks 2 days ago

Re: Activating keyboard selection 2 weeks 2 days ago

more

Who's online

There are currently *0 users* and *1 guest* online.

Who's new

glennswest



Design Pattern Library

- a collection of user experience designs -- a collection of reusable design knowledge put together by people who have thought about a particular interaction in depth.
- Open Source Design Patterns Library:
 - The first truly open, collaborative pattern repository

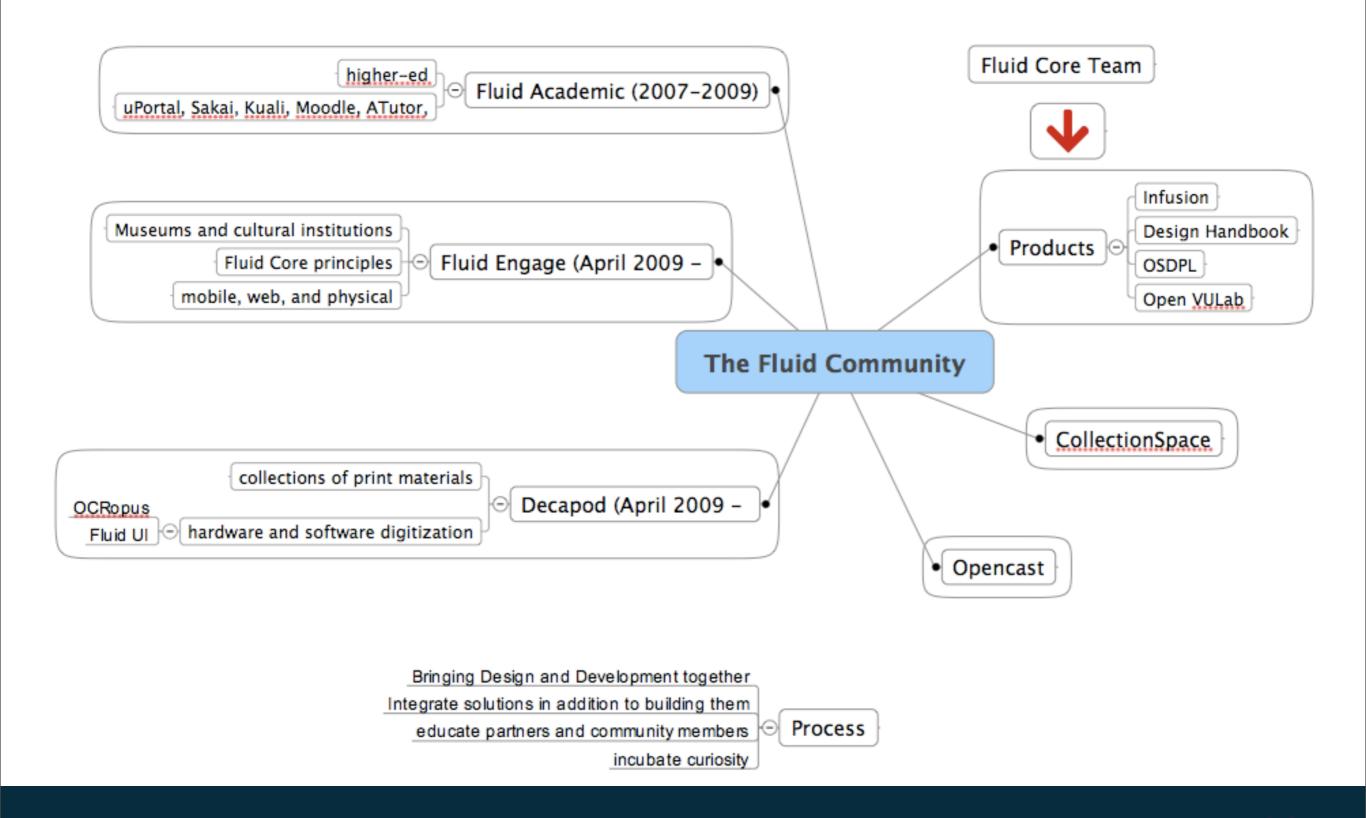


What is Fluid?

A community source project that creates user experience tools and software capable of addressing the needs of diverse users -- from a holistic perspective.

- Rich, flexible, reusable user interface components
- Lightweight JavaScript development tools
- User Experience Toolkit
- Accessible Interaction Designs
- Design Pattern Community







Where is Fluid?

Fluid Academic

Fluid Engage

Decapod

CollectionSpace

Opencast

Institutions



University of British

Columbia









University of Toronto University of Cambridge University of California, Berkeley

York University











University of Colorado, University of Michigan Boulder

Michigan State University

Canadian Heritage

Ontario Ministry of Research and Innovation

Corporations











IBM

Sun Microsystems

Yahoo!

Mozilla

Unicon

Projects











uPortal

Sakai

Moodle

ATutor

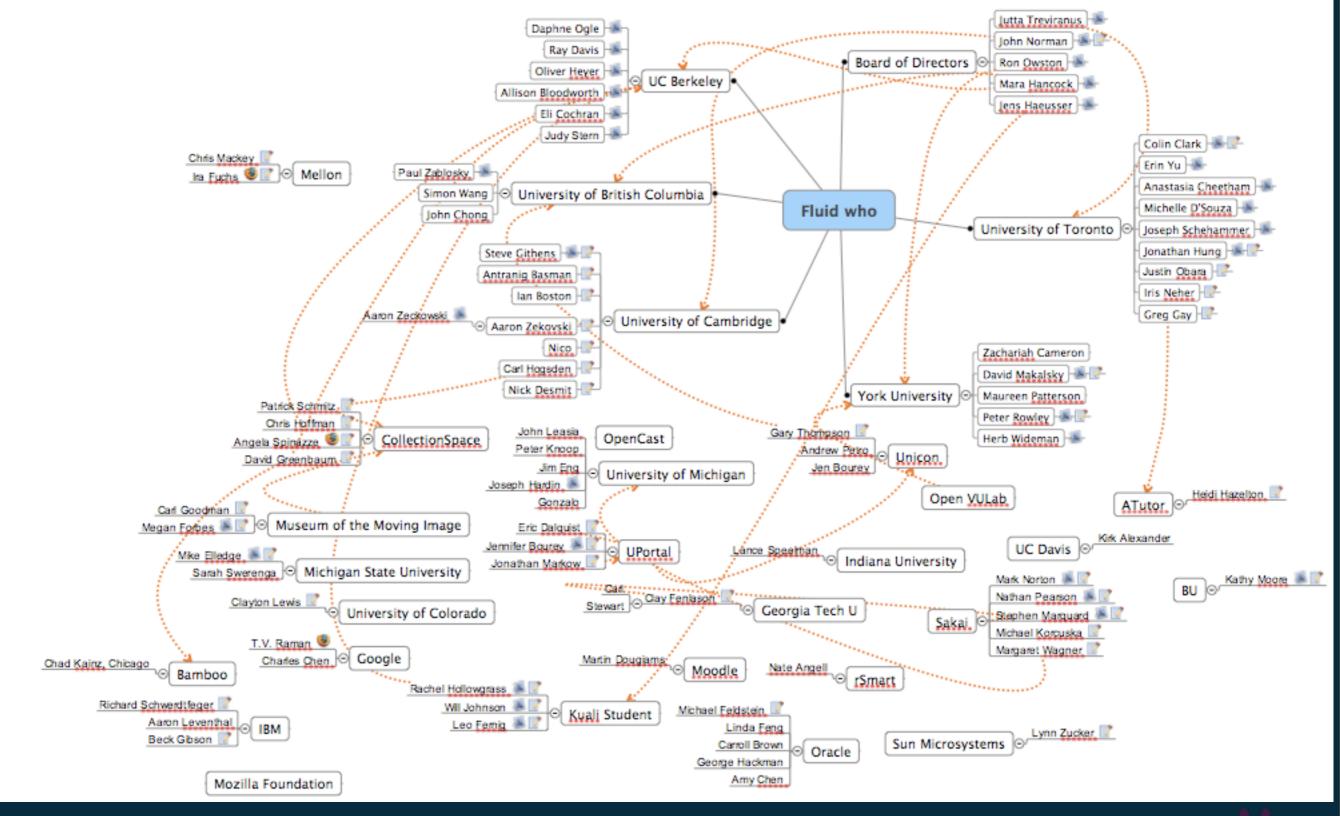
Kuali Student

+collectionspace

CollectionSpace



Who?





Our Approach

hint: be flexible

tools

teamwork

leadership



how are we organized?

- Tools
 - IRC, Skype, Mailing lists
 - daily stand-up video meetings
 - wiki, blog, website
 - SVN, JIRA
 - Google calendar
 - commit processes and clear licensing (ECL 2.0/BSD)



how are we organized?

- bridging the Design + Development gap
- highly distributed
- collaborative
- common vision



how are we organized?

- transparent
- thorough
- self-motivated

- Team-building
 - communicative
 - open
 - mentor
 - patient
 - visionary



Community Culture

- How do we...
 - make decisions?
 - grant commit access?
 - ensure code quality?
 - cut releases?
 - handle licensing and contributions?

Learn from the best (Apache, Mozilla, etc.) and adapt to our needs.



Do the stuff that gets done last, first

- Test early
- Get it in front of users
- Use QA as a hub for communication
- Establish a rhythm for your releases
- It's okay to get it wrong the first time



who leads?

leadership, not ownership



Fluid Infusion -- shipping goodness (monthly)

Infusion is an application framework designed to provide unprecedented flexibility while preserving interoperability.

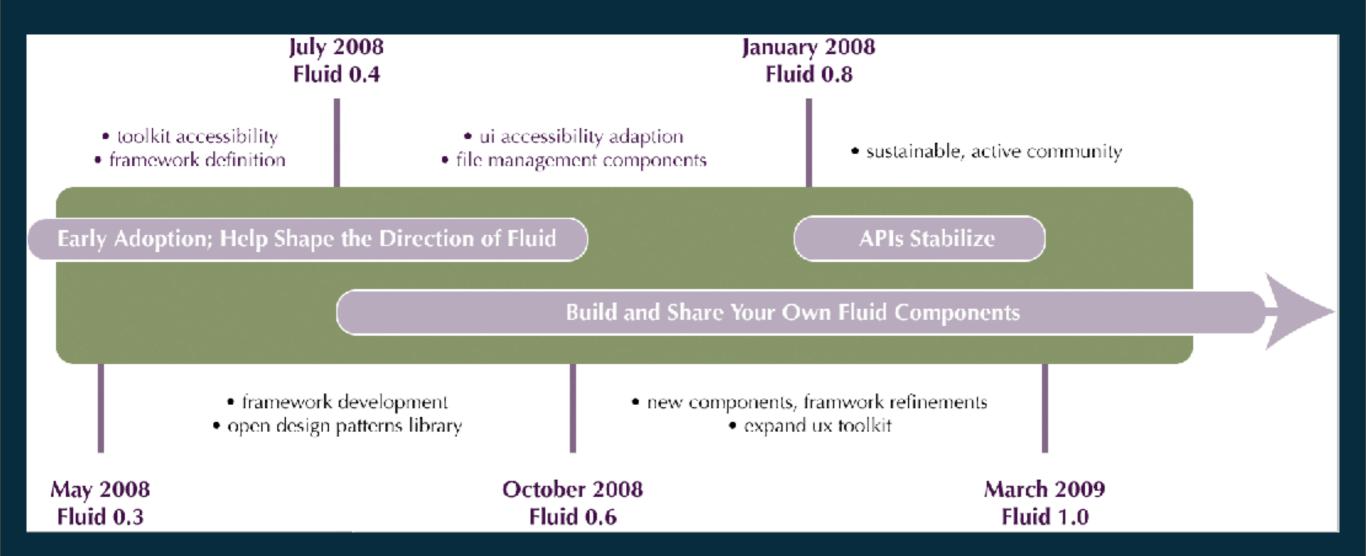


Infusion: a complete package

- Components for common interactions
- Framework: everyone can build components
- UI design patterns: everyone can share
- User research you can use and do yourself
- Documentation and lots of sample code



Release Plan





processes & coming together

- changing processes so they work for us
 - process for its own sake isn't very useful
 - design/developer reviews
 - retrospectives



How Fluid Can Help You

- Use Fluid components in your applications
 - Accessibility & great design for free
- Build new UIs using Fluid's techniques and plugins
 - Robust strategies for UI development
- UX Walkthroughs
 - Assess and improve your user experience
- Open Source Design Patterns
 - Advice on common UI design considerations
- Higher Education User Profiles
 - Understand your audience



How You Can Help

- Join our mailing lists
- Share code
- Help with design effort
 - UX Walkthroughs are fun and easy
 - Contextual inquiry
 - Component design teams
- Use and extend Fluid components in your tools
- Write your own Fluid components
- User testing
- Share design patterns



Links

- http://fluidproject.org/
- http://wiki.fluidproject.org
- http://build.fluidproject.org
- http://uidesignpatterns.org/



contact us!

- jess@jessmitchell.com
- colin.clark@utoronto.ca

