IMS Basic Learning Tools Interoperability Free as in Freedom

Charles Severance Osakai Japan

Sakai is Seven Years Old!

http://bit.ly/gHPQWT



http://www.slideshare.net/csev/jasakai-ims-tools-interoperability-free-as-in-freedom

Three Meanings of 'Free'

Free as in 'Free Beer'

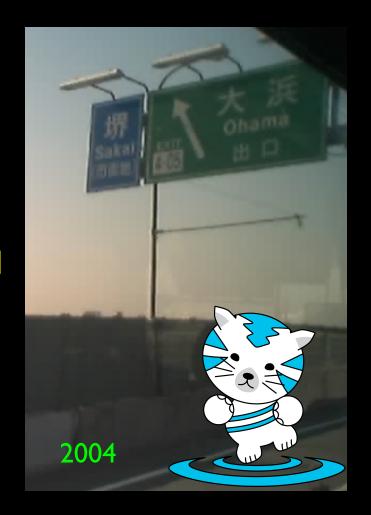
Free as in 'Free Puppies'



Free as in 'Freedom'

The City of Sakai

Sakai was an autonomous city run by merchant citizens. In those days it was said that the richest cities were Sakai and Riku. The famous Zen Buddhist priest Ikkyu chose to live in Sakai because of its free atmosphere.



http://en.wikipedia.org/wiki/Sakai, Osaka

A Person Named Hiroki Sakai





2004

Sakai Book

奮闘記

Passion

Failure

Laughter

Mistakes

Success

Friendship

Tears

Frustration

Freedom

Joy

THE BATTLE FOR SAKAI: A RETROSPECTIVE DIARY

Version 0.0.2



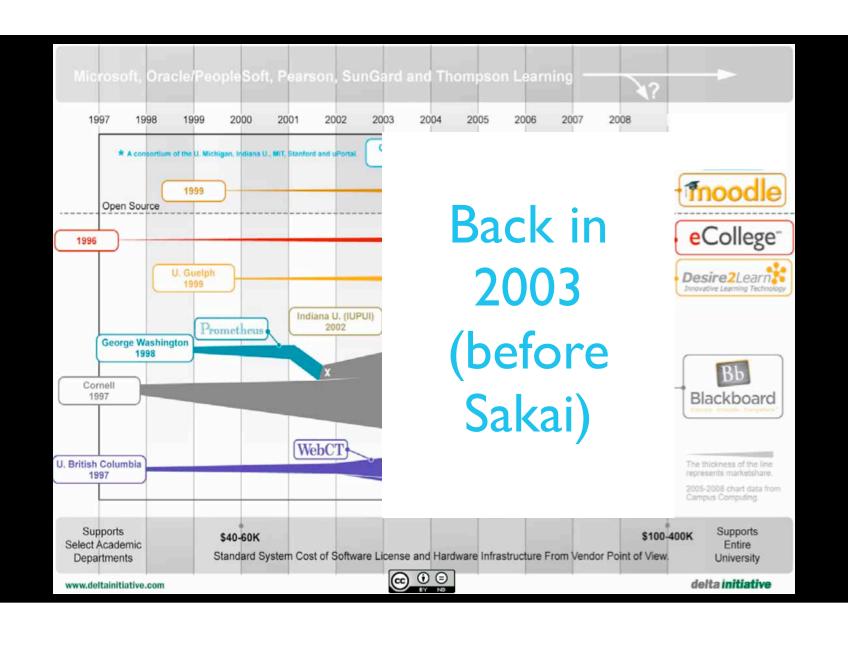
Sakai 闘争



CHARLES SEVERANCE

2003: Before Sakai

- Blackboard had a dominant market share
- Prometheus had been acquired and shutdown
- WebCT was starting to grow, Vista was begin created
- Moodle was tiny in terms of market share no top schools
- Top schools all had their own locally developed LMS code
- Not much innovation, competition or cooperation no Karaoke



The Sakaiger's Accomplishments

- Built a world-class open source CLE
- Built a world-class volunteer community
- Made the world safe for open source in higher education
- Drove standards for interoperability and portability
- Created an ecosystem across open source and commercial that is both competitive and cooperative - and Karaoke

Sakai Means 'Freedom'

- Freedom for Teachers
- Freedom for Students
- Freedom for software adopters
- Freedom for software developers
- Freedom for commercial activities



"The Sakaiger is a happy dancing creature. It is the logo of the hip, cool, karaoke singing, silly elements of the Sakai Community (that is pretty much everyone)."



www.sakaiger.com

Look into the gaze of Sakaiger, protector of our freedom



Cambridge Oxford Yale **Stanford** Johns Hopkins Berkeley Australia National University University of Virginia Nagoya University University of Michigan Duke University of Capetown Georgia Tech And Many More...

The world's greatest universities give the Sakaiger its legndary strength, courage, and endurance.

Aaron Zeckowski Adrian Fish Alan Berg Anthony Whyte Beth Kirschner Brian Richwine Bryan Holladay Chris Maurer David Horowitz David Roldan Martinez **Duffy Gillman** Gonzalo Silverio Jean-François Lévêque John Lewis

Karen Tsao Jim Eng John Bush Lance Speelmon Lydia Li Matt Jones Megan May Nicola Monat-Jacobs Noah Botimer Sam Ottenhof Savitha Prakash Seth Theriault **Steve Swinsberg** Stephen Marquard Zhen Qian

A worldwide network of volunteer leaders are the heart, mind, eyes and hands of the Sakaiger



And Many More...



- Brad Wheeler, Indiana Open
 Source Portfolio, Kuali Financials
- Mara Hancock, Berkeley Fluid Project, OpenCast
- Jutta Treveranius, Ontario
 College of Art and Design Fluid Project

Community Source









Educause and Sakai

EDUCAUSE

- In 2004, Educause was anti-opensource, viewing Sakai an ineresting diversion
- In 2010, the Educause board has four members from the Sakai community (Brad Wheeler, James L. Hilton, Thomas L. Maier, and David Lassner)
- Ted Dodds is from Kuali



Dodds



Wheeler



Lassner



Maier

Hilton











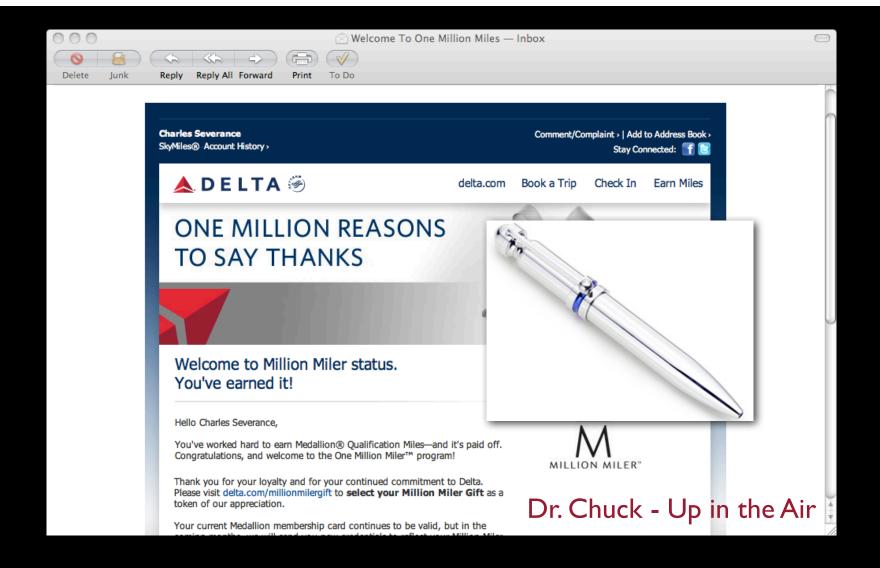
August 2006 - February 2007



Blackboard Patent Pledge

Blackboard hereby commits not to assert any of the U.S. patents listed below, as well as all counterparts of these patents issued in other countries, against the development, use or distribution of [any] Open Source Software or Home-Grown Systems to the extent that such Open Source Software and Home-Grown Systems are not Bundled with proprietary software.

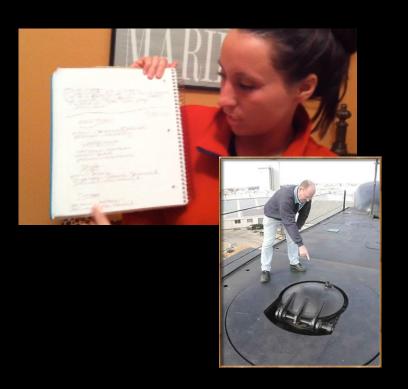




Why are we here?
What is our purpose?
Why fly a million miles?

Improving Teaching and Learning

- Students and Teachers literally do not care at all if their learning software is open source
- They are limited by the software that is installed and upgraded by their local IT staff
- IT organizations almost always fear innovation



Case Study: Amanda Severance

USTREAM

- Senior in Special Education
- Technology in the Classroom Curse voicethread
- Eleven different accounts





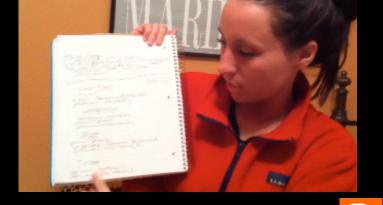


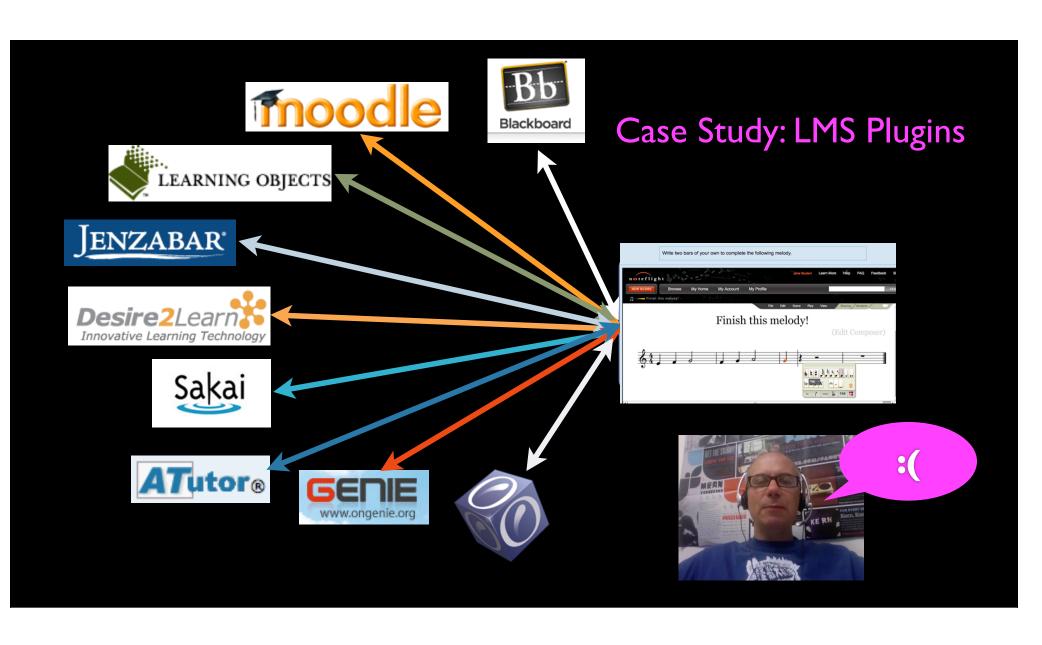












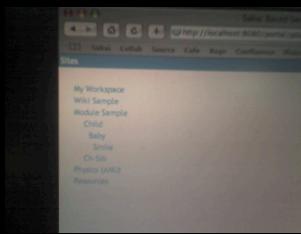






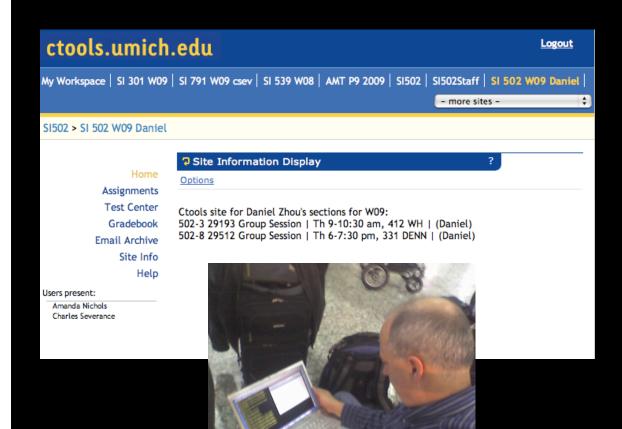






May 2007

Case Study: LMS Committer/Teacher





August 2007



Commercial

Tools Interoperability



Common Cartridge



Publishers

LMS

Open Source

Standards

2008

www.imsglobal.org

IMS Standards









IMS Learning Tools Interopability

- Started in 2004 as a way for Blackboard and Sakai to cooperate on a neutral ground
- Sakai/Samigo participated in the 2005 Alti-I-Lab demonstration in Sheffield, UK





Early Work on IMS Standards



- IMS Learning Tools Interoperability
- Lots of convincing and cajoling (and beer)
- Sakai, Blackboard, Moodle, ...





Certified - LMS



- Desire2Learn Learning Environment v8.4.2 and v9.0
- Blackboard Learn v9.1 SP4 / coursesites.com
- Jenzabar JICS v7.2 and e-Racer v1.2
- Learning Objects Campus Pack v4.2
- Sakai v2.7
- OLAT 7.0
- Moodle 1.9/2.0 Module
- GeNIE, Open-Source LMS v1.0
- PowerLink for Blackboard WebCT
- Sakai 3 v0.4
- Atutor 2.0.2









ATutor_®



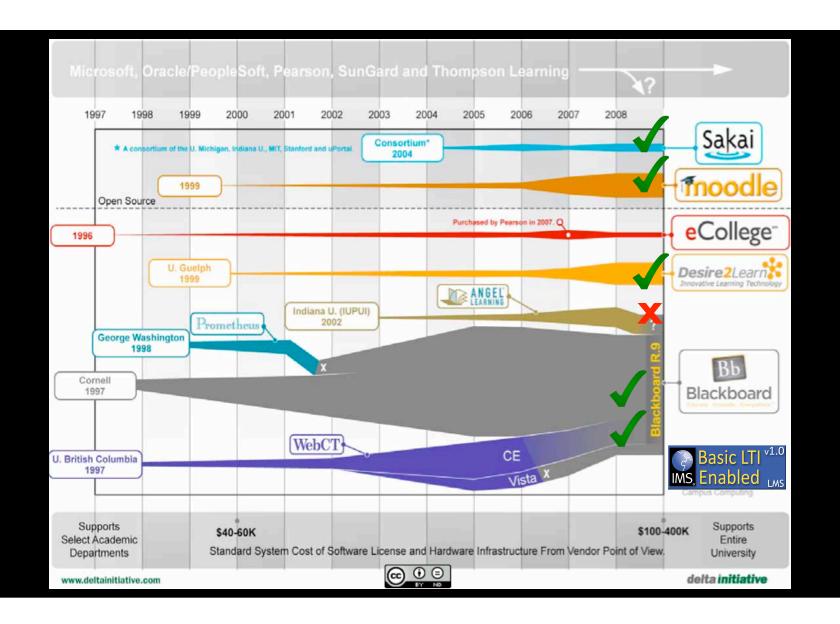


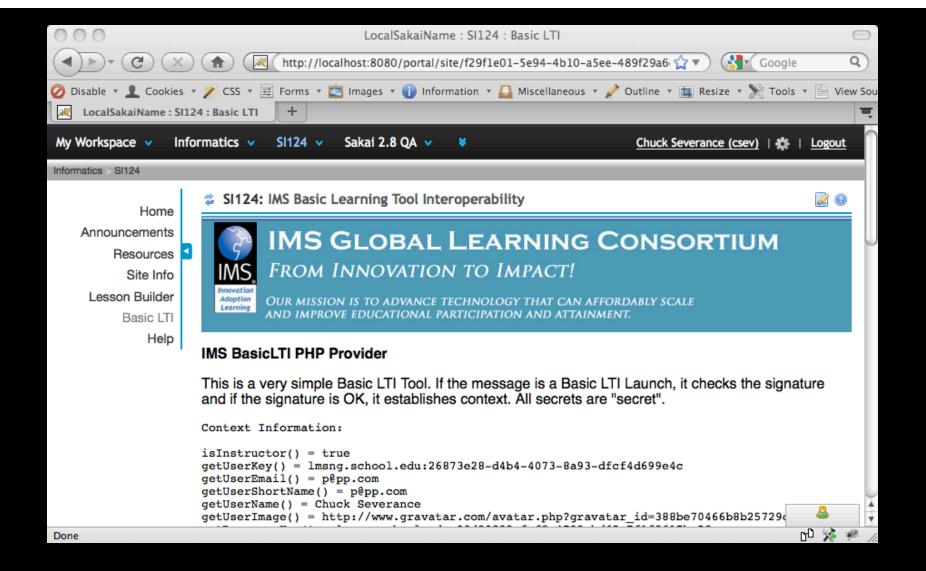


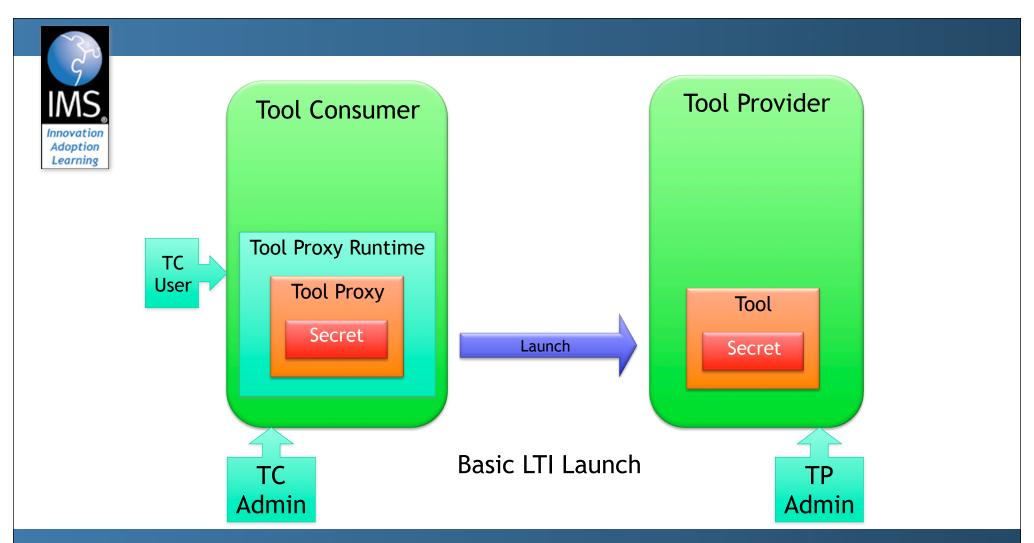


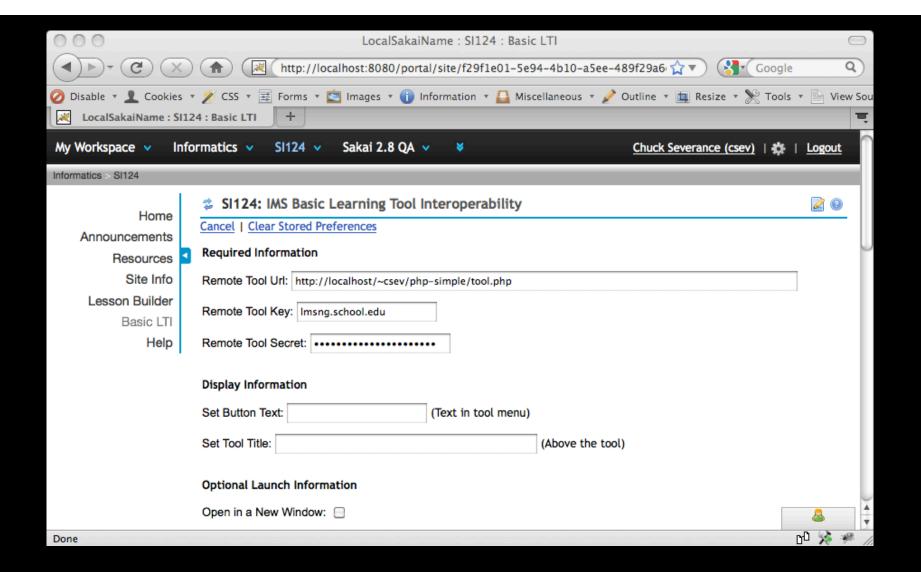


Innovative Learning Technology











Basic LTI Sample Launch Data

```
lti_version=LTI-1p0
lti_message_type=basic-lti-launch-request
oauth_consumer_key=lmsng.school.edu
resource_link_id=120988f929-274612
user_id=292832126
roles=Instructor
lis_person_name_full=Charles R. Severance
lis_person_contact_email_primary = csev@umich.edu
context_id=456434513
context_title=SI301 - PHP
tool_consumer_instance_description=University of School
```

About Advisories Documentation Code Blog Community

An **open protocol** to allow **secure API authorization** in a **simple** and **standard** method from desktop and web applications.

Read on »

For Consumer developers...

If you're building...

- · desktop applications
- · dashboard widgets or gadgets
- Javascript or browser-based apps
- webpage widgets

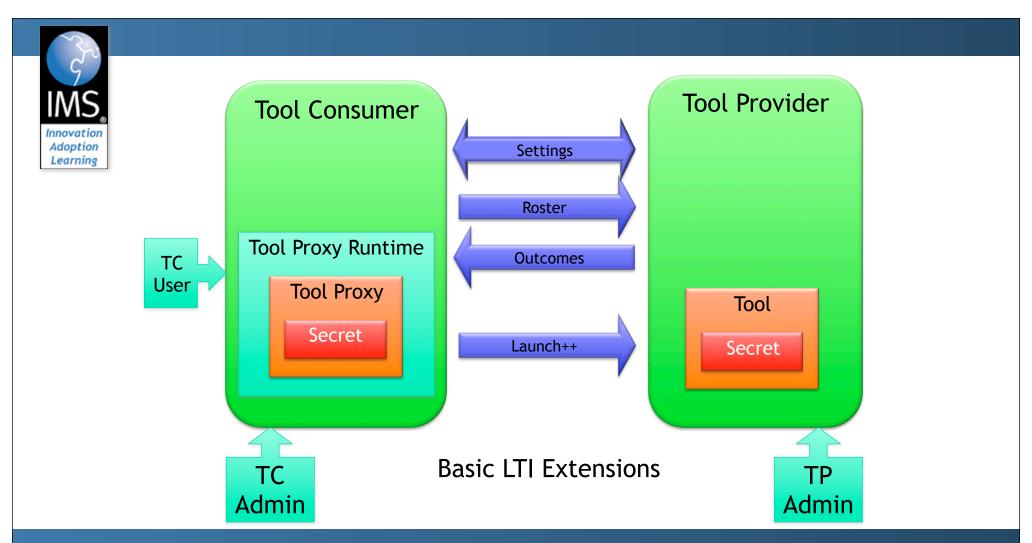
OAuth is a simple way to publish and interact with protected data. It's also a safer and more secure way for people to give you access. We've kept it simple to save you time.

For Service Provider developers...

If you're supporting...

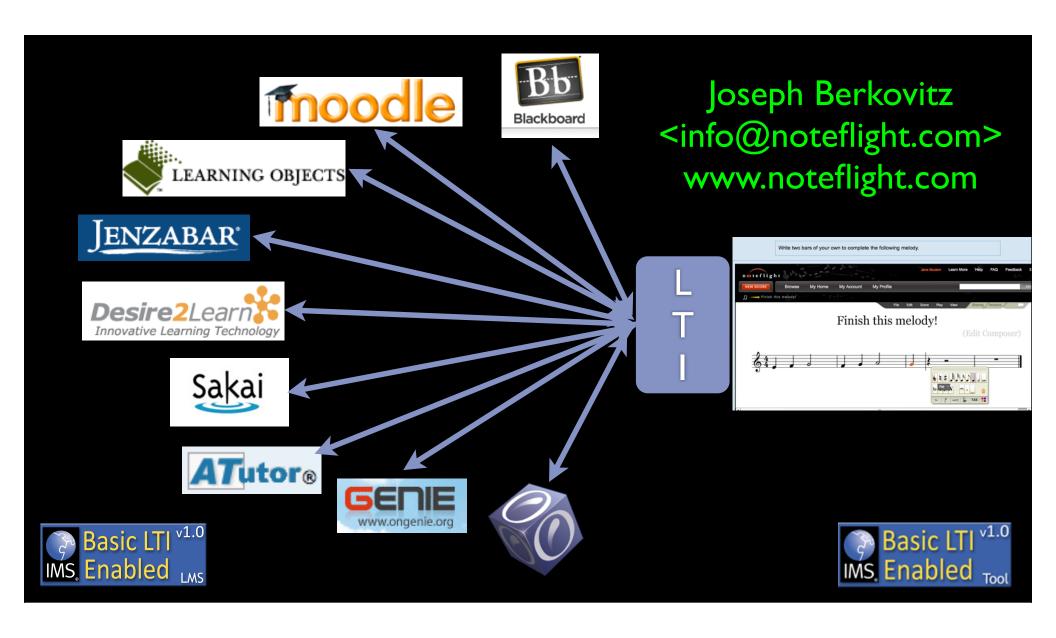
- · web applications
- server-side APIs
- mashups

If you're storing protected data on your users' behalf, they shouldn't be spreading their passwords around the web to get access to it. Use OAuth to give your users access to their data while protecting their account credentials.





http://videos.noteflight.com/MoodleBasicLTI.mov





IMS Common Cartridge



- Meeting at Stanford April 27, 2005 between Sakai and 6 Publishers
- They wanted to stop paying Blackboard royalties to sell cartridges to schools, teachers, and students
- They wanted a Sakai-developed import format
- Instead: IMS Common Cartridge started July 2005



IMS Common Cartridge



- Angel Learning (2008)
- Desire2Learn v8.4.2 (2009)
- Moodle I.9 (2010)
- Jenzabar eRacer (2010)
- Blackboard 9.1SP4 Import and Export (2011)



IMS Learning Information Service

 Sakai has the first open source reference implementation of IMS Learning Information Services (Sakora from Unicon)

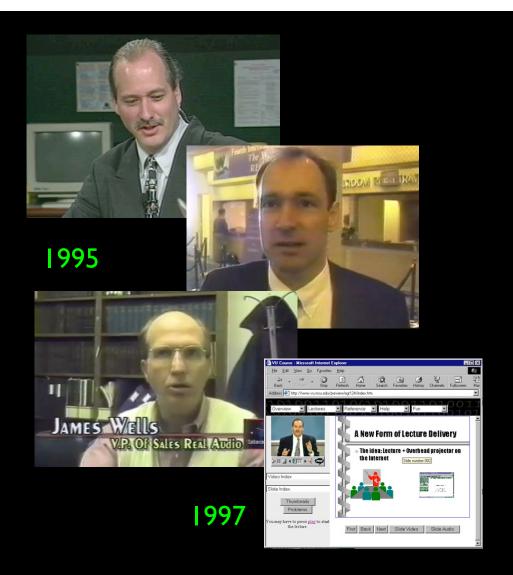






Teacher and Student freedom through 'escape hatches'













Hello: Charles Severance (Instructor) from si-os-sak

Thank you for your guess

Enter Guess:

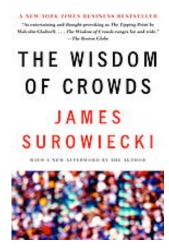
Enter Name (opt):

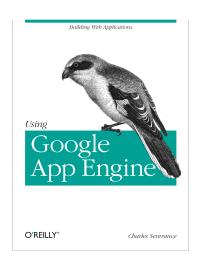
Guess Reset

Average: 124 Count: 2

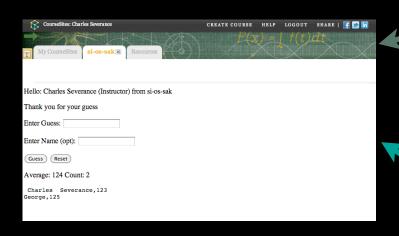
Charles Severance, 123

George, 125



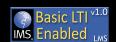






www.coursesites.com
Backboard 9.1SP4/Cloud
Free to any teacher
IMS Common Cartridge
Import and Export
IMS Basic Learning Tools
Interoperability







appengine.google.com
Python / Django
Free to anyone
IMS Basic Learning Tools
Interoperability











Sakai 2.9 Portal Roadmap

Charles Severance

www.dr-chuck.com

csev@umich.edu

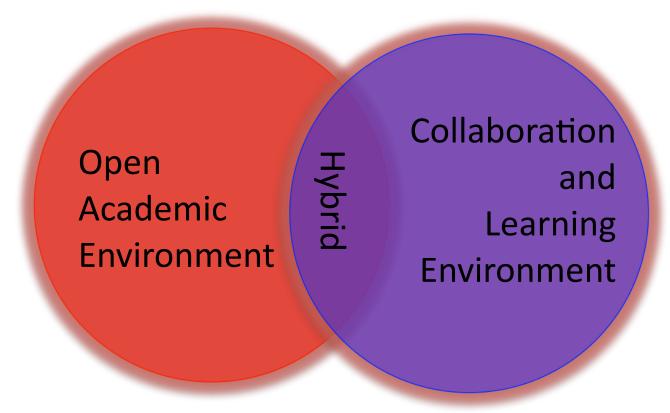
Sakai Portal 2.9 Goals

- Default CLE Nav to look *like* OAE Nav not a clone homage
- Course Navigation Prefereces will be in Portal
- Integrate parts of Profile2 into the portal
- Integrate Lesson Builder into the Portal Breadcrumbs
- New presence/chat (IM/Facebook/OAE style)

Why Now?

- Sakai 2.9 development cycle is the longest we have ever had (Jan-Sep 2011)
- Build a look-and-feel bridge to the well-thought-out OAE User Interface (and pretty)
- Sakai 2.5 2.8 were all pretty much bug fixes that is nearly 4 years of non-progress on UI
- The rest of the market has made major UI revisions

OAE/CLE Long-Term Future



I expect we will likely see all three permutations in production at scale for years.

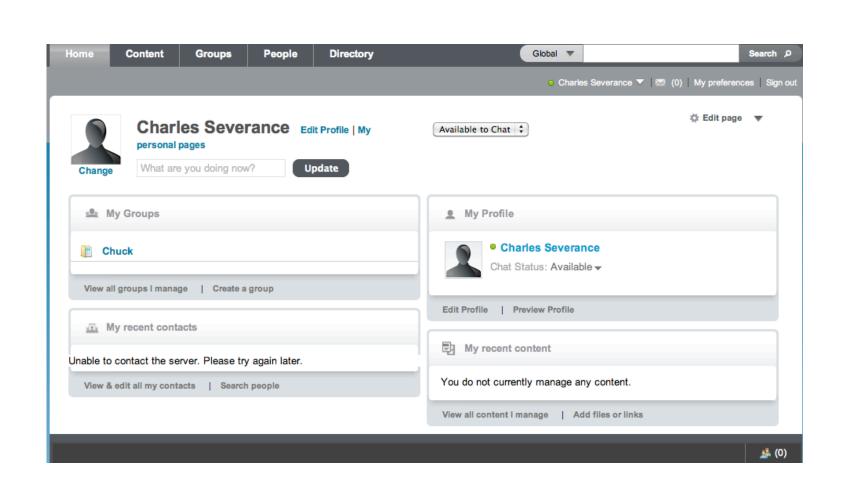


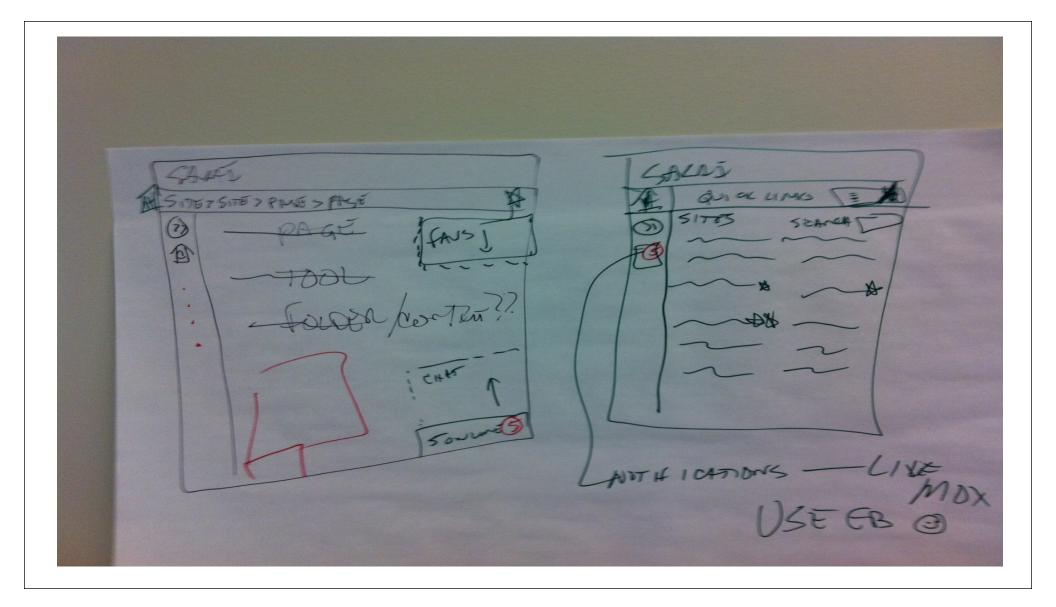
http://www.dr-chuck.com/si791-sak/

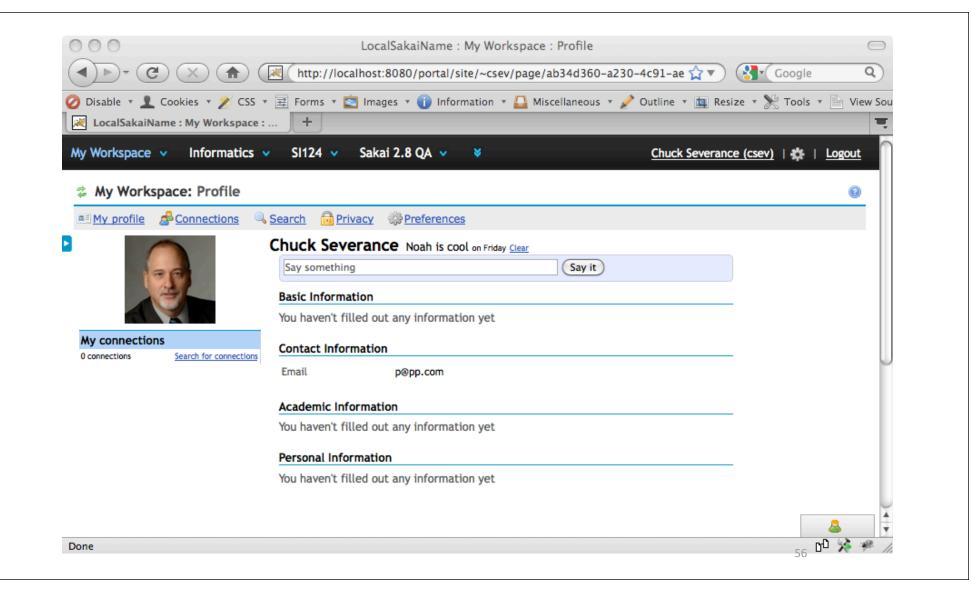
CTools site. If you are using a UM-friend account have Dr. Chuck add you to the site.

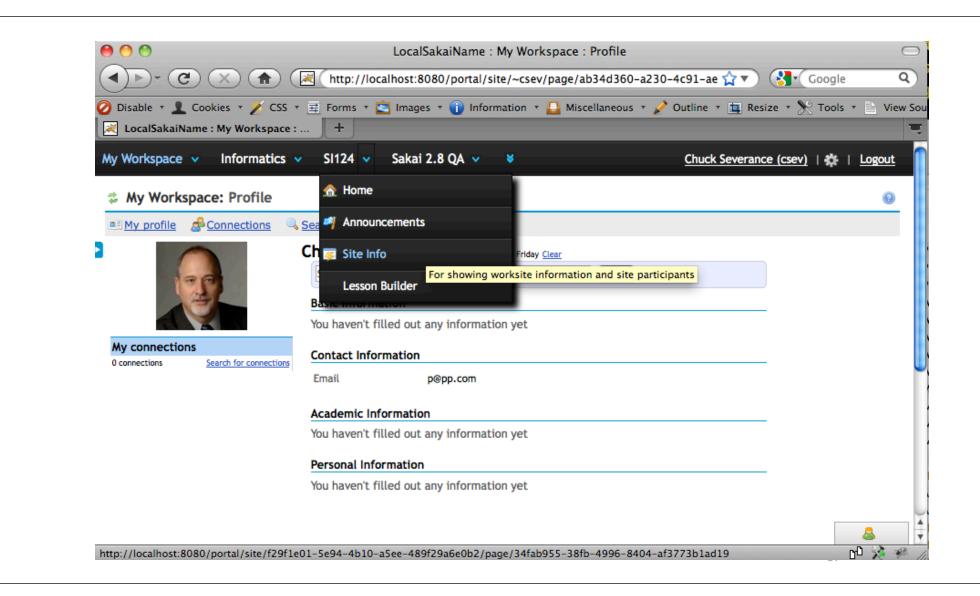
SI791 Plan

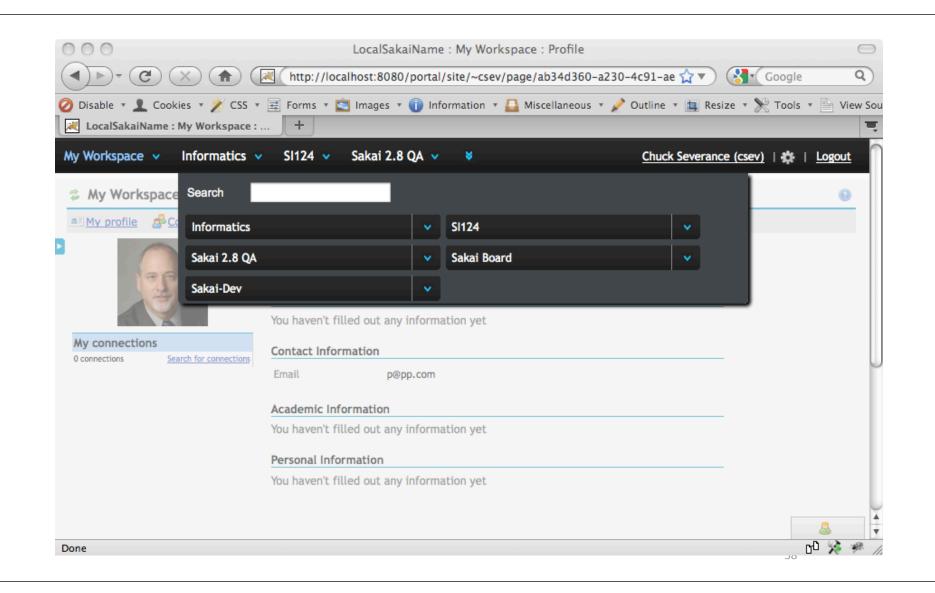
- All students will sign Sakai contribution agreements
- Design will be done in the open in the Sakai community
- Students will make regular reports to the community
- Hopefully have majority of design work done and code prototyped in trunk by mid-April

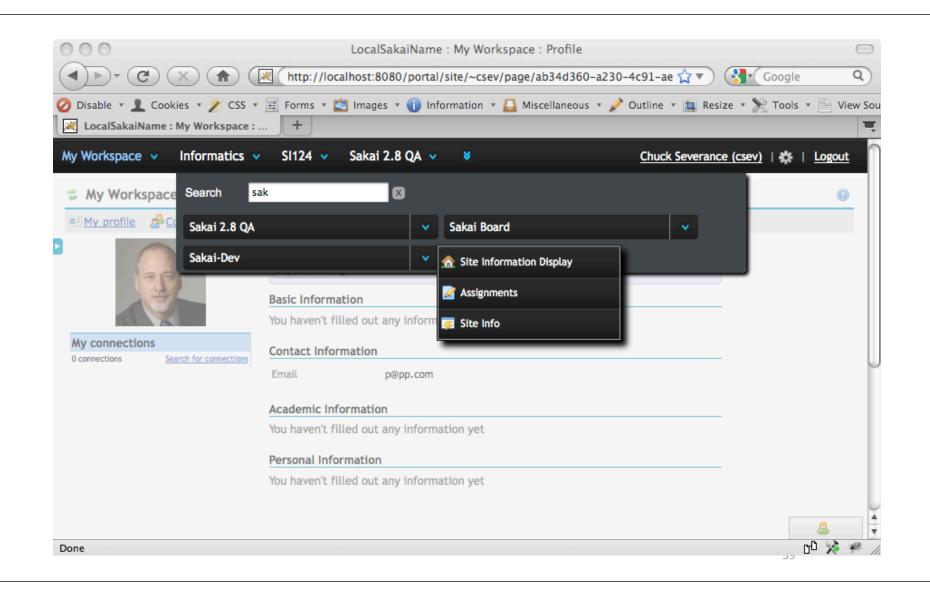


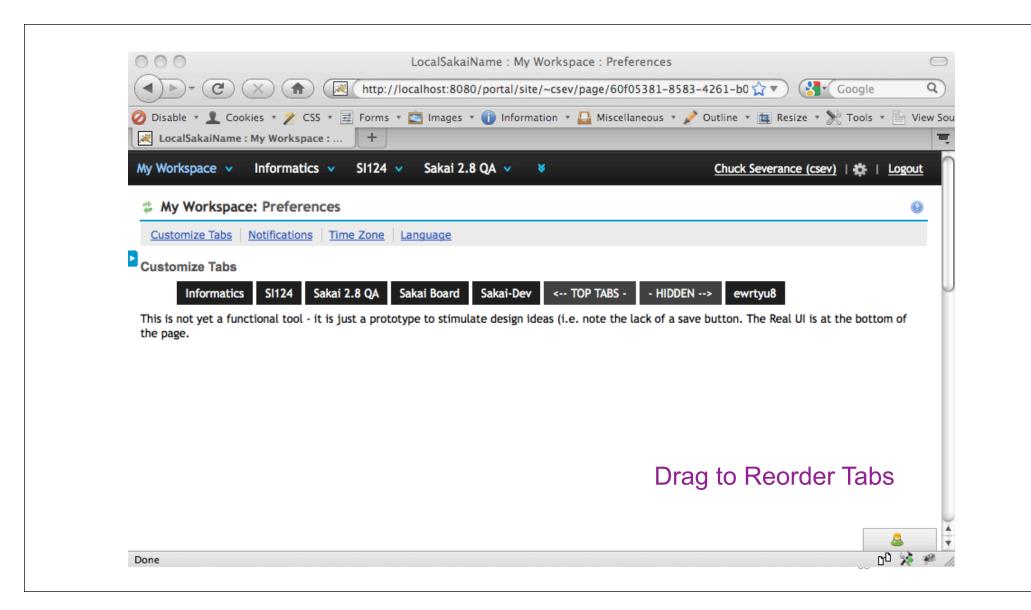


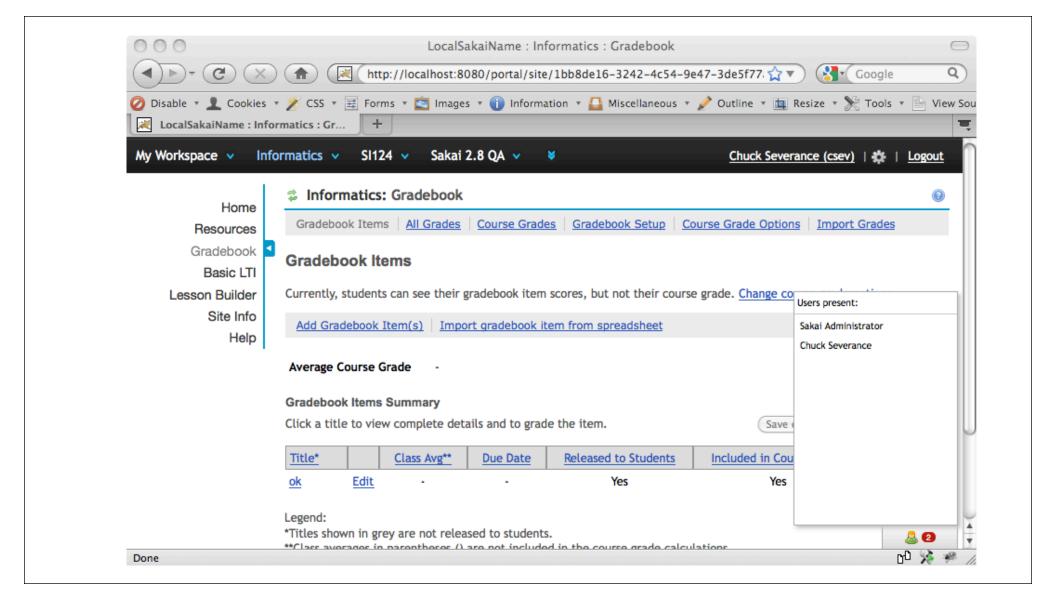


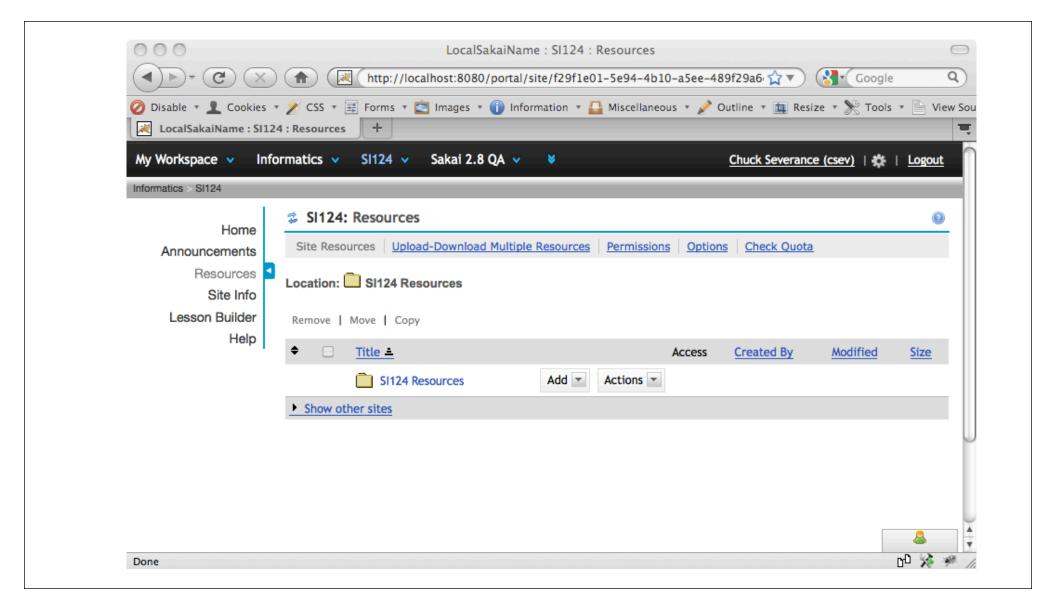


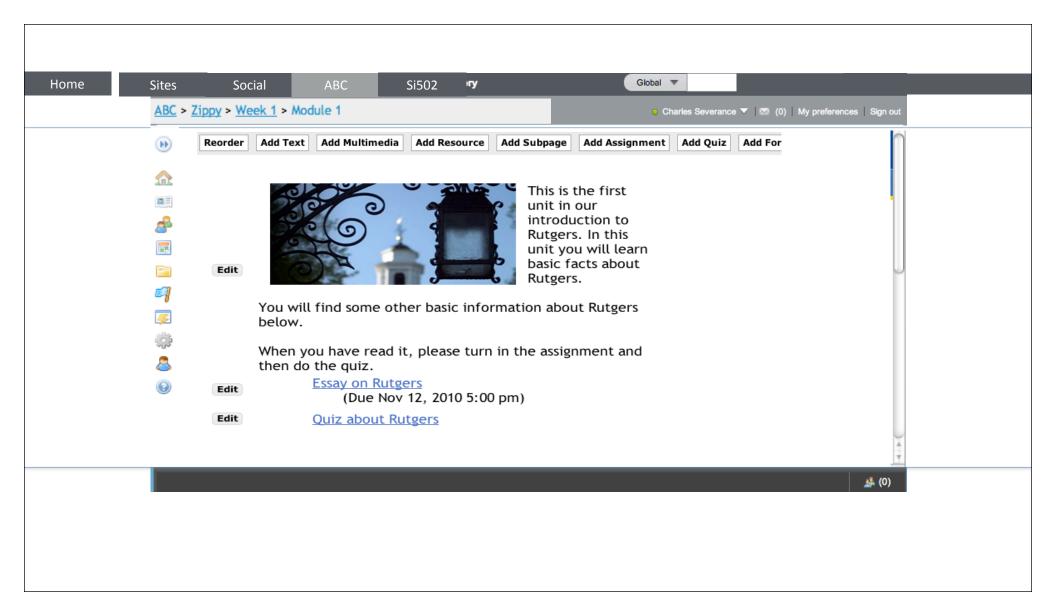












Lesson Builder Tasks

- Evaluate usability
- Rutgers production experience will be valuable
- Improve the UX (evolutionary suggestions)
- Make it a NEO-portlet so it can use breadcrumbs
- Add Common Cartridge Import and Export

Anticipated Schedule

- Design and Development feature complete June 2011
- Present at the Sakai Conference and get broader community input
- Tweaks / performance testing / code review Summer 2011
- Code freeze 2.9 September 2011

I consider it an honor and privilege to speak with you at JA-Sakai and that you have taken this time to listen to what I have to say.

Thank you.





Sakai奮闘記