

Experiences Teaching with Sakai

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Dec 6, 2007

Outline

- Background - What I am teaching
- Prior to the start of class
- Running the course
- Tools and Features
- Voice of my students
- Looking forward

One View

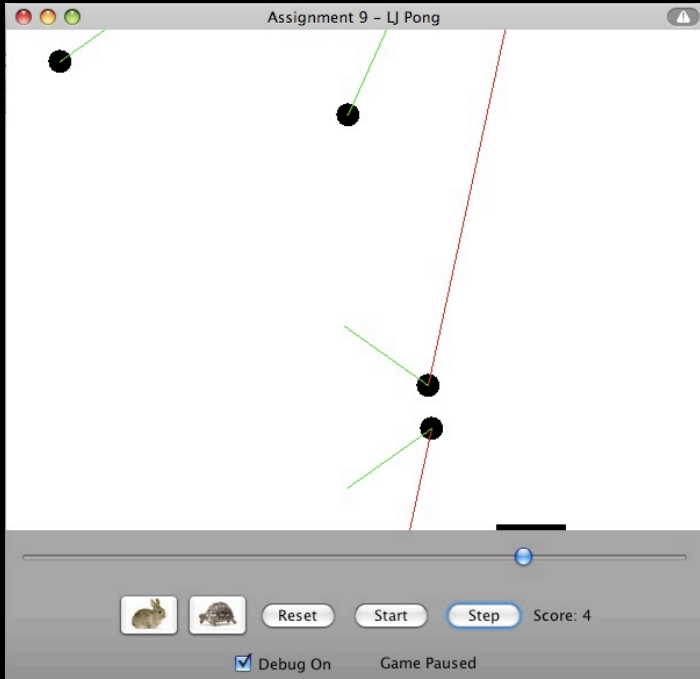
- Chief Architect / Executive Director
 - It was always about the next feature or the next adoption
 - Adoptions are driven by large lists of features - www.edutools.org

Another View

- Faculty Member
 - There is only one choice I have on my campus - it is Sakai
 - There is a lot of stuff here. What fits with my teaching approach?
 - What are the tricks to bend a feature to my purposes?
 - I have an idea - How do I extend this thing?

Beginning Java (SI543)

- Depth-first CSI course for beginners - www.si543.com
- Java, Java, Java, Object-Oriented Problem Solving, Third Edition Morelli & Walde ©2006 | Prentice Hall
- I used the book's PowerPoints for Lecture
- Recorded Lectures using MScribe robotic camera and iTunes University
- Switched to Google Android for the last three weeks of the course



I made an Open Courseware Live! site at www.si543.com so I could post stuff to the Google groups forming around Android.

New Android stuff was happening on a daily basis.



SI543: Introductory Java (Using Google Android)

<http://www.si543.com/> Google

H CT Tw Tz U-M ▾ l8k l3k dr Gm Gc src Jira Try Python 182 601

Introductory Java (SI543)

SI543 at the University of Michigan is a Masters Level Introductory Java class taught by Dr. Charles Severance (Dr. Chuck).

Fall 2008, the decision was made to dedicate the last three weeks of the course to be about the Google Android project. The rest of the course had some neat work in Java Swing including particle simulation, XML parsing, and a Pong game so we were well positioned to play with Android.

This web site provides these materials in an Open Courseware fashion so others may make use of these materials in the emergent time of Android.

Assignment 1 - Installing Android

Here is the assignment:

Download and install the Android software - see <http://code.google.com/android/download.html>

Create a trivial hello world application and change it to say your name instead of Hello world.

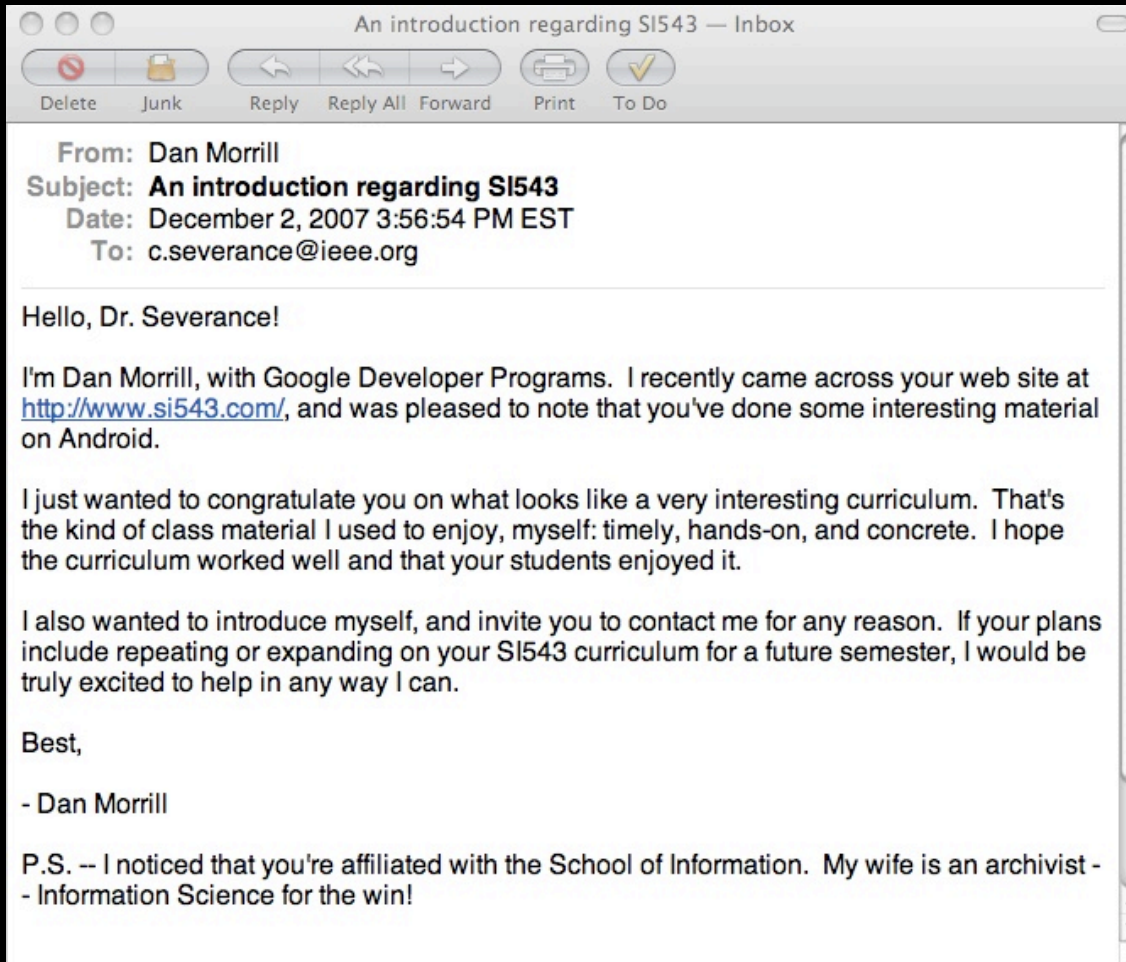
Hand in a screenshot of android running the program with your name.

Extra Credit: Get the Lunar Lander application working from the sample directory.

Here is a podcast that starts from scratch on a Windows system installs the Android SDK and the Eclipse Plugin and then does the assignment including the LunarLander application.

Assignment 1: High Quality Quicktime Version (Youtube version)



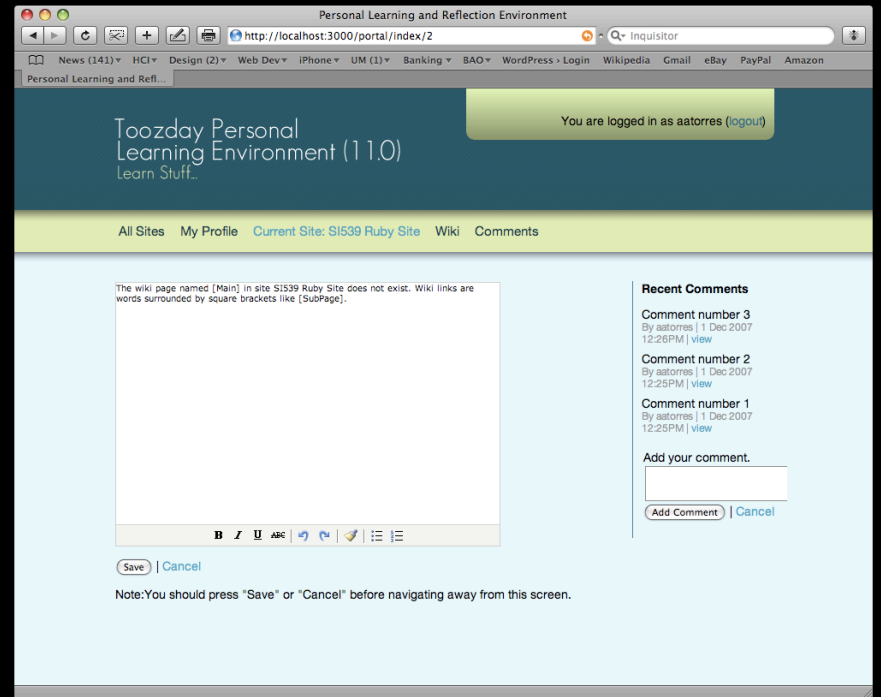
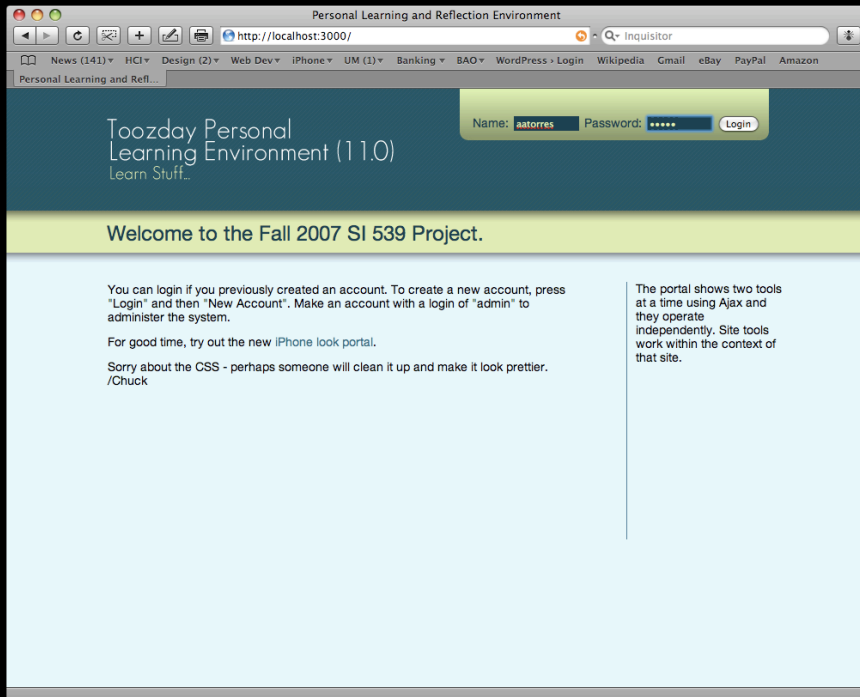


Design of Complex Web Sites

- Ruby on Rails
- Breadth-first - many topics - thin depth
 - Model-View-Controller, HTTP, HTML, Ruby Language, CSS, Data Modeling, Unit Testing, Ajax, Intellectual Property etc etc.
- Taught Ruby Language, operators, variables, hash maps, lists, strings, classes, an object oriented design in one day! It was Chapter 2.
- www.si539.com

Book Choices - Ruby (SI539)

- Build Your Own Ruby on Rails Web Applications by Patrick Lenz
<http://www.sitepoint.com/books/rails1/>
- Learn HTML and CSS: An Absolute Beginner's Guide by Ian Lloyd
<http://www.sitepoint.com/article/html-css-beginners-guide>
- Agile Web Development with Rails: Second Edition, 2nd Edition, by Dave Thomas and David Heinemeier Hansson
<http://www.pragprog.com/titles/rails2>





SI539 Class Song: Ruby, Ruby,
Ruby by the Kaiser Chiefs



Rails Commercials

My Approach / Ideas

- Lectures - Recorded / Not Recorded
- Podcasts - Scaffolding - try to move students forward more quickly
- Lecture / Lab - Having me teach both allowed me to see areas I missed and needed to revisit
- Email is key - the course list is a dev-list - cooperative learning
- No office hours - soetimes I would send out an E-Mail and hang out in the student lounge for a few hours if students were broadly stuck

My Approach / Ideas

- It takes a community - not just one teacher - former students, teachers, pals etc.
- Riffing and remixing as a teaching pattern - starting with something gets students into more complex learning moments more quickly
- Have students do focused work in larger applications - also provides sample code - typical assignment - I did X - you do Y
- In class practical midterm and final - allows collaborative learning the rest of the time

My Approach / Ideas

- Like group work and collective learning - do not like group grades
- SI543 - Allowed project option after the midterm
- Make programming assignments - required + optional challenges
 - Helps with students of different background - allows me to teach to the beginning without boring the advanced students
- Don't use synchronous time to do asynchronous things - but what if the students don't listen to the podcasts. Sheesh

Way Before the Start of Class

- Contacted the prior teacher - Hans Masing / Trek Glowaki
 - He gave me access to his CTools /Sakai site and iTunes University site
 - Pulled down all materials using web dav and iTunes
 - I partially learned Ruby and Rails using his Podcasts

CTools : SI 539 001 W07 : Resources

https://ctools.umich.edu/portal/site/147127e6-5e93-4a39-0037-0a09ee39edb

ctools.umich.edu [Logout](#)

My Workspace | SI 539 | **SI 539 001 W07** | SI 539 002 F07 | SI 539 002 W08 | [- more sites -](#)

Resources ?

Site Resources | [Upload-Download Multiple Resources](#)

Location: SI 539 001 W07 Resources

Copy

<input type="checkbox"/>	Title	Access	Created By	Modified	Size	
	SI 539 001 W07 Resources					
	Course Syllabus and Supporting Material	Actions	Entire site	Hans Masing	Sep 3, 2005 11:18 am	3 items
<input type="checkbox"/>	Demonstration Code	Actions	Entire site	Trek Glowacki	Sep 22, 2006 7:40 pm	7 items
<input type="checkbox"/>	Homework Solutions	Actions	Entire site	Trek Glowacki	Sep 22, 2006 12:20 pm	6 items
<input type="checkbox"/>	Lecture Slides and Notes	Actions	Entire site	Hans Masing	Sep 3, 2005 11:18 am	17 items
<input type="checkbox"/>	Other Stuff	Actions	Entire site	Hans Masing	Sep 13, 2005 5:12 pm	8 items
<input type="checkbox"/>	Rails Cheatsheets	Actions	Entire site	Trek Glowacki	Sep 1, 2006 12:05 pm	2 items
<input type="checkbox"/>	Readings	Actions	Entire site	Trek Glowacki	Aug 23, 2006 4:55 pm	4 items

[Show other sites](#)

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Charles Severance

iTunes

View Search Michigan

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- Audiobooks
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- Ringtones

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- Purchased

Nothing Selected

Sign In

SI 539 001 W07

Hans Masing & Trek Glowacki

Last Modified: Mon Jul 23, 2007
Tracks in Lectures: 14

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GET TRACKS

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RAILS

DESCRIPTION

This course covers the application of database technology to the service of Web sites. Students discuss the underlying technologies of Web site design, implementation, and evaluation. More importantly, students focus on the use of data gathering, storage, retrieval, processing, and formatting, in the context of a Web site. Course covers gathering data from users through online forms and

Lectures | Screencasts | **actively storing that data in a database; Web-based**

	Name	Time	Artist	Album	Price	
1	1. Introduction to The Internet & ...	25:17	Hans Masing & Tre...	Design of Complex...	Free	GET
2	2. Introduction to HTML	42:24	Hans Masing & Tre...	Design of Complex...	Free	GET
3	3. Introduction to CSS	1:24:35	Hans Masing & Tre...	Design of Complex...	Free	GET
4	4. Introduction to Ruby Program...	1:01:52	Hans Masing & Tre...	Design of Complex...	Free	GET
5	5. Data Modelling	1:08:06	Hans Masing & Tre...	Design of Complex...	Free	GET
6	6. Model, View, Controller	32:19	Hans Masing & Tre...	Design of Complex...	Free	GET

14 songs

Prior to the Start of Class

- Monitoring roster changes
- E-Mail Archive Tool - Involved students in the book selection
- QA for the first assignment
- I really missed the Page Order Tool - to prepare materials and then unhide them

- Home
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- Membership
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- Resources
- News
- Web Content
- Preferences
- Help

Charles Severance

Worksite Setup ?

Creating a New Course Site

Course/Section(s) Selection - WINTER 2008

Please select the course/section(s) for which you would like to create a site.

Course information

The following roster(s) have access to your site:

2008,3,A,SI,182 : 2008,3,A,SI,182

- 2008,3,A,SI,182,001 : SI 182 001 W08, Lecture

2008,3,A,SI,539 : 2008,3,A,SI,539

Select Group of Sections

- 2008,3,A,SI,539,002 : SI 539 002 W08, Laboratory (Site already exists, [select anyway?](#))
- 2008,3,A,SI,539,001 : SI 539 001 W08, Lecture (Site already exists, [select anyway?](#))

[Add course\(s\) and/or section\(s\) not listed above...](#)

CTools : SI 539 002 F07 : Polls

https://ctools.umich.edu/portal/site/b3042682-35d9-43dc-8020-a4ec6 Google

H CT Tw Tz U-M▼ I8k I3k dr Gm Gc src Jira Try Python 182 601

ctools.umich.edu [Logout](#)

My Workspace | **SI 539 002 F07** | SI 543 001 F07 | SI 182 | SI 539 | [- more sites -](#)

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Radaphat Chongthammakun
Megan Cooney
Anindita De
Charles Severance

🔍 Polls ?

[Add](#) [Permissions](#)

Poll list

Question	Opening	Closing	Results	Remove
Week 3 - How are we doing so far? Edit	Sep 17, 2007 2:00 PM	Sep 22, 2007 6:00 AM	Results	<input type="checkbox"/>
How will you do the programming assignments for this course? Edit	Aug 18, 2007 1:00 PM	Sep 15, 2007 5:00 AM	Results	<input type="checkbox"/>
Please indicate your level of Software Development Experience Edit	Aug 1, 2007 8:00 AM	Sep 10, 2007 1:00 AM	Results	<input type="checkbox"/>

| [CTools Gateway](#) | [Contact Us](#) | [Duderstadt Center](#) | [University of Michigan](#) | [The Sakai Project](#) |

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CTools - [r38073] - Sakai Sakai_2-4-xP - Server kungpao

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Anindita De
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Email Archive

[Options](#) [Permissions](#)

You are authorized to send email from: csev@umich.edu
Email sent to the following addresses will be archived and sent to participants:

si539f07@ctools.umich.edu
b3042682-35d9-43dc-8020-a4ec6a9dfbdd@ctools.umich.edu

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[|<](#) [<](#) [>](#) [>|](#)

From	Subject	Date Received
Charles Severance <csev@umich.edu>	Hello and welcome to SI 539 ✉	Aug 8, 2007 9:28 AM EDT
Melissa Perez <melperez@umich.edu>	Re: Hello and welcome to SI 539 ✉	Aug 8, 2007 9:39 AM EDT
Charles Severance <csev@umich.edu>	One more thing --- about the poll ✉	Aug 8, 2007 9:41 AM EDT
Charles Severance <csev@umich.edu>	Re: Hello and welcome to SI 539 ✉	Aug 8, 2007 9:43 AM EDT
Charles Severance <CSEV@umich.edu>	Proposed Book for SI 539 ✉	Aug 13, 2007 12:04 PM EDT
sergiomb@umich.edu	Re: Proposed Book for SI 539	Aug 13, 2007 1:10 PM EDT
Charles Severance <CSEV@umich.edu>	Re: Proposed Book for SI 539 ✉	Aug 13, 2007 4:01 PM EDT
Charles Severance <csev@umich.edu>	Another Poll - Computing Environment ✉	Aug 19, 2007 1:14 PM EDT
Charles Severance <csev@umich.edu>	Optional SI539 Activity: Help Debugging A Windows Install of Ruby ✉	Aug 21, 2007 12:34 AM EDT
Charles Severance <csev@umich.edu>	First day of class	Aug 27, 2007 4:00 PM EDT
Charles Severance <csev@umich.edu>	Chuck will be traavelling this week	Aug 27, 2007 3:55 PM EDT

Running the Course

- Announcements
- Assignments - Homework - Exams, everything
- Grade Off line
- Schedule
- Notification in Resources -
- Sakai 2.4 Resources Tool
- Wiki - Project Reports
- iTunesU - SI543
- Podcasts - did not store data in Sakai - used UM AFS

Lecture Recording Geek

- Sync-O-Matic - 1996 - Real Audio plus images - www.syncomat.com
- ClipBoard-2000 - 1999 - Quicktime Capture on Macintosh
- Web Lecture Archive Project (www.wlap.org) - Atlas HE Physics
- Sakai - iTunesU
- University of Michigan - 2003 - MScribe Robotic Camera
- Screen Capture using iShowU and Omni Dazzle - 2007
- Apple Podcast Producer - 2007

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SI 543 001 F07

Introduction to Programming In Java
Dr. Charles Severance
www.si543.com

Last Modified: Sun Dec 2, 2007
 Tracks In Tab 1: 23

GET TRACKS
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DESCRIPTION

Description

Name	Time	Artist	Album
1 SI 543 AppleTV teaser	2:00	Charles Severance	School of I
2 si543-01-20070904	1:04:39	Charles Severance	School of I
3 si543-02-20070906	1:19:06	Charles Severance	School of I
4 si543-03-20070911	1:14:05	Charles Severance	School of I
5 si543-04-20070913	59:58	Charles Severance	School of I
6 si543-05-20070918	1:14:51	Charles Severance	School of I
7 si543-06-20070920	1:18:59	Charles Severance	School of I
8 si543-07-20070925	1:15:14	Charles Severance	School of I
9 si543-08-20070927	1:17:53	Charles Severance	School of I
10 si543-09-20071002	1:17:08	Jim Eng	School of I
11 si543-10-20071004	1:18:51	Jim Eng	School of I
12 si543-11-20071009	1:13:57	Charles Severance	School of I

Nothing Selected

23 items

MScrite Web Lecture: "Lecture #22" - Charles Severance

<http://esmane.physics.lsa.umich.edu/wl/umich/courses/2007-D/si543/20071129-um>

H CT Tw Tz U-M I8k I3k dr Gm Gc src Jira Try Python 182 601

GO BACK 1 | GO AHEAD 1

00:11:34 slide 021

Debug - Hello/src/org/chuck/Hello.java - Eclipse Platform - /Users/csev/workspace

Android Emulator

Off Landing Pad
 Game Over
 Press Up To Play

Android

```
[2007-11-29 17:58:19 - Lunar] -----
[2007-11-29 17:58:19 - Lunar] Android Launch!
[2007-11-29 17:58:19 - Lunar] Launching: com
[2007-11-29 17:58:19 - Lunar] Launching the e
[2007-11-29 17:58:27 - Lunar] Emulator is up!
[2007-11-29 17:58:29 - Lunar] HOME is up!
[2007-11-29 17:58:29 - Lunar] Pushing Lunar.c
[2007-11-29 17:58:29 - Lunar] Starting activi
[2007-11-29 17:58:32 - Lunar] ActivityManager
[2007-11-29 17:58:34 - Lunar] Attempting to c
```

PREVIEW SLIDES
 ? HELP
 DONE

Web Lecture Archive Project

JUMP DIRECTLY TO SLIDE

[report problems](#) [synchronize video with current slide](#)

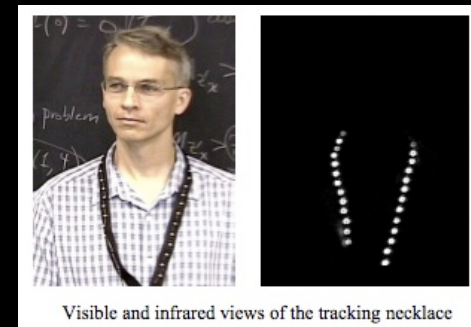
History: www.syncomat.com

M_Scribe - SI543

<http://www.umich.edu/~mscribe/>

The screenshot shows the M_Scribe software interface. On the left, a video of the speaker is visible. The main area displays a slide titled "Tip of the iceberg...." with a picture of an iceberg and text: $\rho_{\text{ice}} = 914 \text{ kg/m}^3$, $\rho_{\text{water}} = 1000 \text{ kg/m}^3$, and "91% of iceberg is below the surface!". Below the slide are navigation buttons: "GO BACK", "GO AHEAD", "PREVIEW SLIDES", "HELP", and "DONE". At the bottom, a row of slide thumbnails is shown. To the right, a "CHALKBOARD" window displays handwritten mathematical notes. Callout boxes point to these features:

- Video of speaker instead of disembodied voice
- Optional chalkboard images available
- Preview slide thumbnails take you to any point of the lecture
- High-resolution slides preserve details

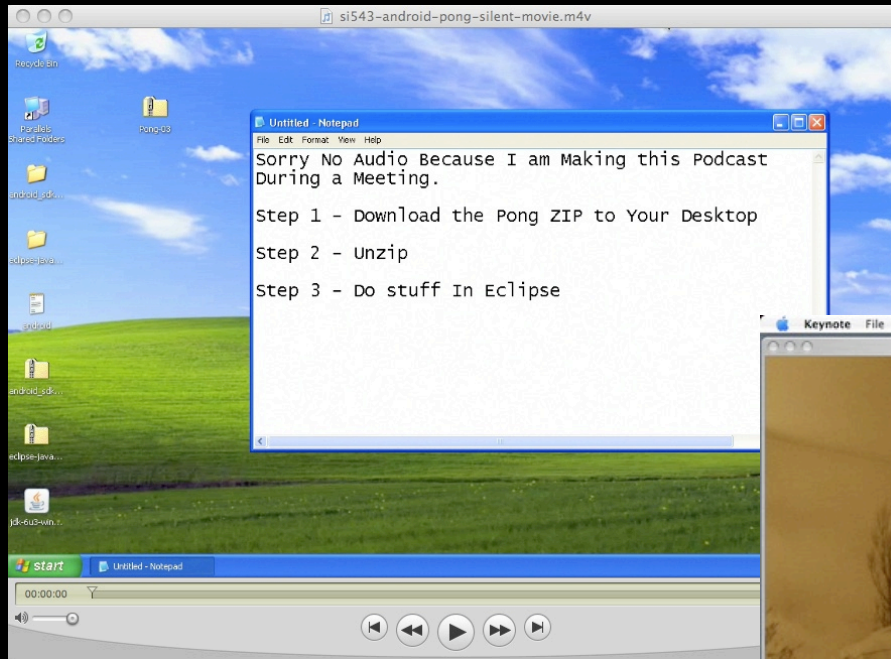


Podcasts - SI539

- No Lecture Recording - I was not prepared enough - I needed student feedback and needed to be very agile with the material
- Lab Podcasts for Scaffolding - 15-30 minutes per week
- Effectively my “opening statements” for the lab
- iShowU and Omni Dazzle and PhotoBooth - Perfect - Like this talk
- I also use Parallels on my mac to record Windows sessions
- Emergency Lectures - Barcelona and Newport beach

<http://www-personal.umich.edu/~csev/>

www.si543.com



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Assignments

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Assignment List

View [Assignment List](#)

Viewing 1 - 13 of 13 items

|< < Show 200 items... > >|

Assignment title	Status	Open	Due	In / New	Scale	Remove?
Assignment 1 - Up and Running Edit Duplicate Grade	Closed	Sep 5, 2007 8:00 am	Sep 10, 2007 6:05 pm	36/1	0-50.0	<input type="checkbox"/>
Assignment 2 - User Object Edit Duplicate Grade	Closed	Sep 11, 2007 10:00 am	Sep 18, 2007 11:55 pm	39/1	0-50.0	<input type="checkbox"/>
Assignment 3 - Building a Model Edit Duplicate Grade	Closed	Sep 18, 2007 10:00 am	Sep 25, 2007 11:55 pm	39/1	0-50.0	<input type="checkbox"/>
Assignment 4 - On to the View Edit Duplicate Grade	Closed	Sep 25, 2007 8:00 am	Oct 2, 2007 11:55 pm	39/2	0-50.0	<input type="checkbox"/>
Assignment 5 - A CRUD Treasure Hunt Edit Duplicate Grade	Closed	Oct 2, 2007 6:00 am	Oct 9, 2007 11:55 pm	39/0	0-50.0	<input type="checkbox"/>
Assignment 6 - Building a Login Dialog P... Edit Duplicate Grade	Closed	Oct 9, 2007 10:00 am	Oct 18, 2007 11:55 pm	38/0	0-50.0	<input type="checkbox"/>
Written Midterm Edit Duplicate Grade	Closed	Oct 24, 2007 9:00 am	Oct 24, 2007 11:55 am	49/11	0-100.0	<input type="checkbox"/>
Practical Midterm Edit Duplicate Grade	Closed	Oct 23, 2007 11:00 am	Oct 24, 2007 11:00 pm	37/0	0-100.0	<input type="checkbox"/>
Assignment 7 - Building a Login Dialog P...	Closed	Oct 17, 2007 8:00 am	Oct 25, 2007 11:55 pm	38/0	0-50.0	<input type="checkbox"/>

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Assignments ?

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Submissions for "Assignment 9 - Adding Ajax"

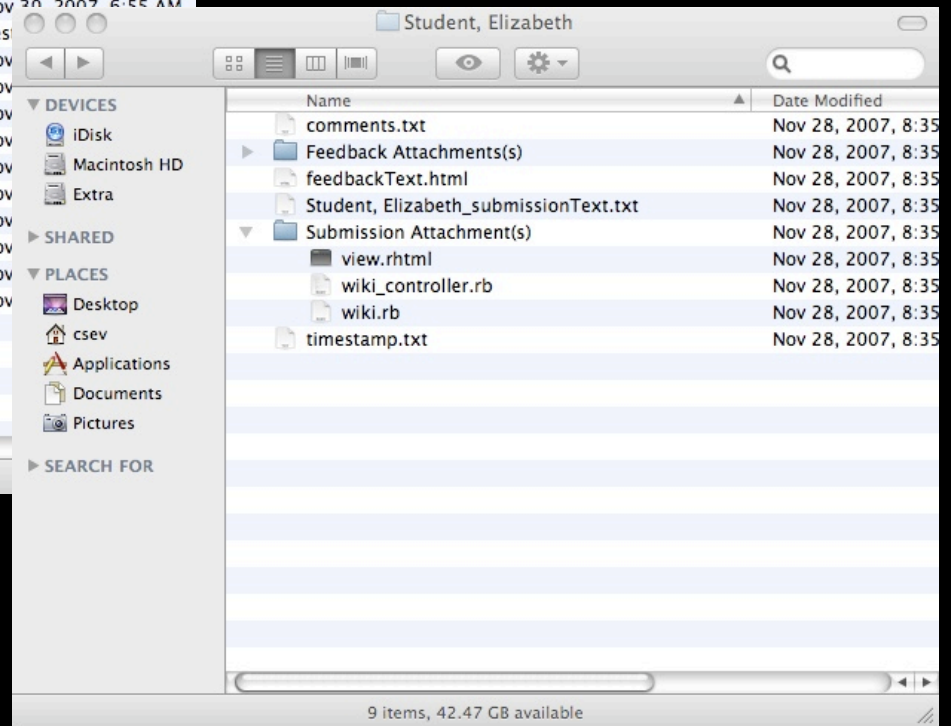
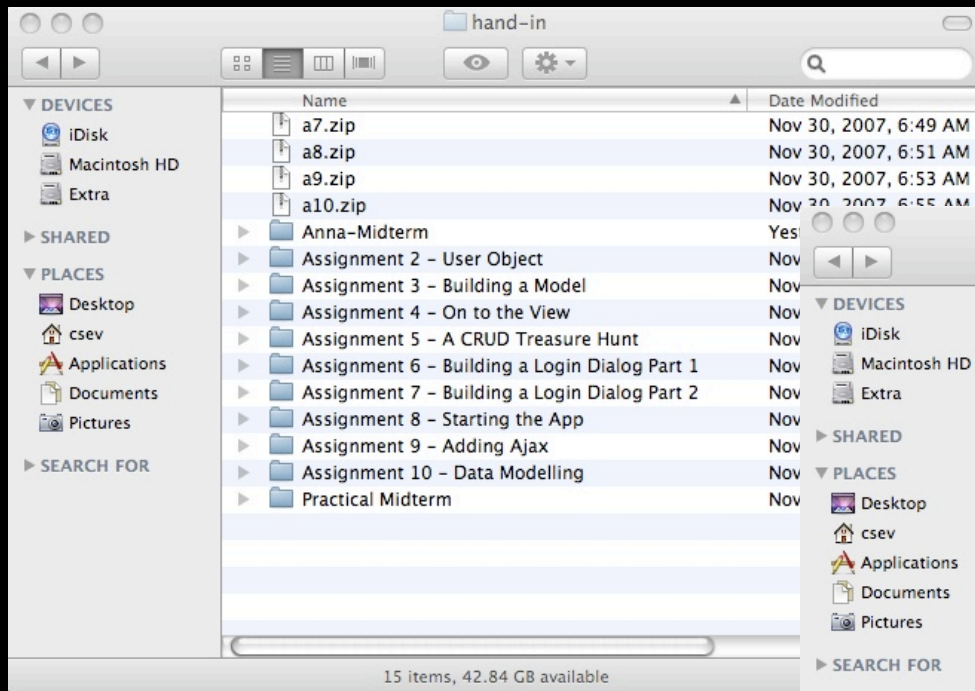
[Download All](#) | [Release Grades](#) | [Upload All](#)

Assign this grade to all participants without a grade:

Viewing 1 - 49 of 49 items

|< < Show 200 items... > >>

Student	Submitted	Status	Grade	Release
antranig@caret.cam.ac.uk Grade		No Submission		
Bartmess, Elizabeth Grade	Nov 12, 2007 9:31 pm	Returned	50.0	✓
Bauer, Jared Grade	Nov 13, 2007 10:23 pm	Ungraded		
Bornhorst, Dustin Grade		Returned	50.0	✓
Bourassa, Jaime Grade	Nov 11, 2007 10:44 pm	Returned	50.0	✓
Chongthammakun, Radaphat Grade	Nov 12, 2007 3:29 pm	Returned	50.0	✓
Cohen, Jonathan Grade		No Submission		
Conway, Martha Grade	Nov 13, 2007 1:36 pm	Returned	50.0	✓



```
# Actually grade
find . -name '*.rb' | grep -v '^./public' | grep -v '^./config' | grep -v '^./test' |
grep -v route.rb | grep -v schema.rb | grep -v helpers | grep -v application.rb |
grep -v MACOSX > /tmp/abc
find . -name '*.rhtml' >> /tmp/abc
find . -name '*.java' >> /tmp/abc
cat /tmp/abc
echo 'Grade (y/n) ?'
set ans=$<
if ( "$ans" == "y" ) then
  foreach ii ( `cat /tmp/abc | sed 's/ /@@@@/g'` )
    set i=`echo $ii | sed 's/@@@@/ /g'`
    more "$i"
  end
  pwd
  echo =====
  echo
endif
```

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Radaphat Chongthammakun
Megan Cooney
Anindita De
Charles Severance
David Zande

Assignments ?

Upload All

Select an archive file to upload, choose options, and then click 'Upload' at the bottom. Required items marked with *

The archive file should contain a folder for each student. (Download Template) Each folder can contain a comments.txt file, the student's submission with instructor comments you have added, and other files you want to return with the student's submission

File: Choose File no file selected

Choose which elements in the archive file to upload

- Student submission text (original student submitted text, possibly containing instructor added comments)
- Student submission attachment(s)
- Grade file (grades.csv file at top level of archive)
- Feedback text (the incline comments with student submission)
- Feedback comments (comments.txt file if available in student's folder. Comments are put into the Instructor Comments field for each student's submission)
- Feedback attachment(s)

Select release option

- Release uploaded information to students
- Do not release uploaded information - I'll release it later

Upload Cancel

It Takes a Community to Teach

Howdy,

Got a couple questions about the midterm which I'm having trouble with. What is Pass-by-value (primitives) and Pass-by-reference (objects)? And what is Formal parameters versus actual parameters?

Any help is greatly appreciated,

Mark

With "pass by value", alterations made to the local argument inside the function body will not be reflected in the version held in the caller. In essence the function has a separate copy of the argument made at the point of the function call.

With "pass by reference", the caller and the function share the same object, and so modifications made within the function will be seen in the copy held outside after it returns.

In Java, the situation is a bit obscured since in true fact, it **always** uses pass-by-value, it's just that for non-primitive types, the type itself just consists of a reference, which is dereferenced automatically. That is, the reference is passed **by value** into the function, what is shared between the function and its caller is the object at the end of it.

If this last paragraph seems confusing, just ignore it :)

For the last question, "formal parameters" is the term used on the function's side to represent its local versions of the

For the last question, "formal parameters" is the term used on the function's side, to represent its local versions of the arguments. "actual parameters", or less ambiguously, "actual arguments" are the actual instances used at a particular time by a caller of the function to invoke it.

```
So, public void f(int x, int y) {  
... stuff  
here, x and y are formal parameters.
```

Whereas in the call `f(2, 3)`, the actual arguments are 2 and 3, for this particular function call.

Hope this helps,
Cheers,
Antranig.

I think I need to dynamically generate divs for the ajax script `visual_effect :highlight` to work in a project site.

Background:

Each "story" has many "candidates". People cast "ballots", which belong to candidates. A collection of candidates are rendered with a partial. The partial links to remote javascript, which references the highlighted element. When people cast a ballot, the specific score should automatically reload and highlight.

-Jon

Hey Jon,

You probably want to identify each div uniquely, if I am interpreting your problem correctly. IDs in HTML *must* be unique (so having ballot_score as the ID many times is an HTML syntax error).

Javascript, when looking for IDs assume they are unique and stops search when it finds the first hit.

Try:

```
<div id="ballot_score_#{candidate.id}"> Score:
```

```
<%= candidate.ballots_count %> </div>
```

and

```
page["ballot_score_#{candidate.id}"].visual_effect :highlight
```

to give each ballot score div a unique identifier and later find it.

- Trek

Comments from the Students

September 16

Help, what does this mean?

app/controllers/assn2_controller.rb:42: syntax error,
unexpected \$end, expecting kEND

November 12

Well, you'll never hear this from me ever again but -- that
assignment was too easy!

November 19

For those interested:

A draft syllabus for the database design class is at [http://
www.citi.umich.edu/u/cja/SI572.pdf](http://www.citi.umich.edu/u/cja/SI572.pdf)

-- Martha

For Sakai, I took Lada Adamic's data analysis class earlier this semester. She had us post each of our assignments - including code, graphics, and analysis - to the Ctools Forum. We were each responsible for responding to others assignments. The Forum worked well for this and I found myself - even after the class was over - going back to classmate's assignment for references. We all did different things for our assignments so we ended up with a broad range of knowledge that's easy to access and a great resource.

Improvements would be if the Forums used AJAX editing features to speed up scrolling and commenting. At times, it was hard to browse through things because of load time. The 'mark as read' or read/unread feature didn't seem to work automatically like web email - e.g. open the message and it automatically is marked as read.

--- Theodore

-My department conducted chats in Sakai over the summer for incoming students. It was really great to chat with the administration and current students before I came. The chat tool is simple, but overall effective.

-Really like turning in my assignments electronically. Relieves me of the burden of printing out the assignment and turning it in person which as we've all know can be problematic (printer problems, illness, etc.) In Sakai it is easy to attach documents and I like receiving an email confirmation so I know that my assignment was accepted. It's also nice to be able to see the date and time when an assignment is due.

-Only one of my professors conducted polls with the system. I wish more would do so--it was a great way to give feedback to the instructor.

-- Maureen

It would be extremely helpful to redesign the information architecture so that tasks can be done with fewer clicks, particularly repetitive tasks - it took me two hours to manually upload all my students' papers, after which my co-GSI wrote a program to email papers back to students so that we could return them in seconds.

- Elizabeth

Tools and Features

- Access under *my* control - who what when why and how!
- Site Info Usability - I use this 2% of the time
- Resources 2.4 - Awesome - the right features and no more
- Assignments - wonderful - a bit clunky - hard to think about how to change it - it is so big that if you fix one thing - you might break something else - I would like a quick entry mode for grades

Tools and Features

- iCal feed - I want to see my course events in my Desktop calendar - and I want it right now!!! - readonly is fine
- Want to not see Observers in my Assignments - function for gradable in Assignments - Next semester I will have multiple sites per class
- Web Dav - Mostly for when another teacher gives me access to their course - there is a conflict between the logical hiding needs of something like a test engine or Melete and the need to exchange whole courses between instructors. It is better than nothing.

Tools and Features

- 100% offline grading - sweet Thursdays at 5AM...

My Next Courses...

- SI182- New Course - Undergraduate? Will the same techniques work as well?
- Public / Friends / Roster - Pull in my prior students
- Peer grading - Forum Hmmm.
- Methodology
- Tools I need to write - podcasts - tracking - annotation

Next Semester

- SI182 - Design of Information Environments
 - Innovative data-centric approach to a CSI course - using Python
 - Gateway course for new Informatics Major - data / visualization
- SI539 - Design of Complex Web Sites (again)
 - Focus on polishing my materials and Sakai site structure
 - Will change the order of the materials - HTML/CSS first

SI 182 - Approach

- Asynchronous materials
 - Book + Pre-Recorded Basic lectures - always available
 - Lab Assignments and supporting podcasts - always available
- I want: Students to be able to have a great experience without ever coming to class - *and* I want 100% attendance at the face-to-face meetings and heavy use of the mail list for all questions.

SI182: Building Applications for Information Environments

http://www.si182.com/ Google

H CT Tw Tz U-M▼ I8k I3k dr Gm Gc src Jira Try Python 182 601

SI182: Building Applications for Information Environments

Welcome to SI 182 - a new course being taught Winter 2008 semester at the University of Michigan. SI 182 is an introductory programming course designed to be useful to a wide range of students in all concentrations. Specifically, we designed the course keeping in mind the technology skills students will need throughout their careers. The one thing that you will likely encounter over and over during your undergraduate degree, when you pursue advanced degrees, and once you are working is complex data that needs to be analyzed, understood, and visualized.

While you can do a lot with a spreadsheet, most of the interesting data is never quite in the right format. Sometimes, before you can work with data, you have to "clean it up", transform it, or even check it for errors. Often, this manipulation of data requires a series of tedious manual steps - and sometimes you have to repeat the steps over and over again for each new data set with which you are working.

This is where programming comes in - programming is a simple way for you to describe a series of steps to the computer and then sit back and watch as the computer happily does your task over and over without making a mistake. As a result, you can turn your focus to exploring and interpreting the data instead of laboring over manual editing.

Automation of these mundane tasks requires some programming skills. It isn't necessary to be a "super programmer" - just to have an ability to learn and apply the basics. These basics are useful for writing a macro in a spreadsheet, data visualization script, interactive web page, or game to run on your cell phone.

If you want to take more advanced software development course: prepare you for the more advanced courses in EECS. And, if this pretty handy with data and vizualization for the rest of your career



www.si182.com

For More Information or to Ask Questions

Loading "http://www.si182.com/", completed 41 of 42 items

Design of Complex Web Sites - SI539

- Build in Open Course Ware from the beginning - three sites
 - Course Site - SI539 - Winter 2008
 - Project Site - SI539@UM
 - Open Course Site - www.si539.com - www.rubylearn.com


CTools : SI 539 : RubyLearn.com

https://ctools.umich.edu/portal/site/0ae836b9-7 Google

H CT Tw Tz U-M I8k I3k dr Gm Gc src Jira Try Python 182 601

ctools.umich.edu [Logout](#)


My Workspace | **SI 539** | SI 539 002 W08 | SI 539 002 F07 | SI 182 | - more sites -

 Home
Announcements
Resources
Email Archive
RubyLearn.com
Site Info
Help

Charles Severance

RubyLearn.com ?

[Options](#)

 **Welcome to Teaching Programming with Ruby and Rails**

This is a very much under construction web site being initially built by [Dr. Charles Severance](#) to collect resources to help in teaching Ruby and Rails to beginning programming students.

The first course I am developing is **SI539 - Design of Complex Web Sites** being taught Fall 2007 at the University of Michigan. I am using this site to make my materials publically available under the Creative Commons Attribution 2.5.

Textbook

www.rubylearn.com
Personal Learning
Environment

SI539@UM
Community

SI539
Winter
2008

SI539
Fall 2007

My Personal Research Topics

- Deeply exploring the concept of Open Courseware - Live!
 - IMS Tools Interoperability - Functionality Mashup
 - IMS Common Cartridge - Easy and constant flow of content and artifacts
- Personal Learning Environments - Goal aware - Learning Objective Aware Software....

Looking forward for Sakai

- As a faculty member, Sakai is perfectly fine for me
- Weaknesses I still see in Sakai 2.4
 - Large courses
 - Distance Education
 - Content Repository - I need 10GB per course with permanent URLs and *extremely fast upload and download speed

Technical vision for Sakai

- Powerful and scalable content management is Sakai's top priority
- Sakai has grown to be far too big (my fault) - that it is now unweildly as a single released application - we need to be like Moodle
 - A small, carefully designed and tested set of basic core capabilities
 - Modules are easy to add and versioned to the core release
- IMS Tool Interoperability - Functionality Mashup

Summary

- I really like Sakai as a teacher - I am really glad my campus chose Sakai
- Because of Sakai - the CTools tech support team has so many tricks up their sleeve if I want to try something
- I am glad that someone took the time over the past few years to build an enterprise scale open source learning management system and got it adopted at my institution
- Teaching is a lot more fun in 2007 that it was in 2001 or 1997.

Web Sites

- www.dr-chuck.com
- www.si543.com (java)
- www.si539.com (Ruby / Rails)
- www.si182.com (Python)
- <http://www.umich.edu/~mscribe/>