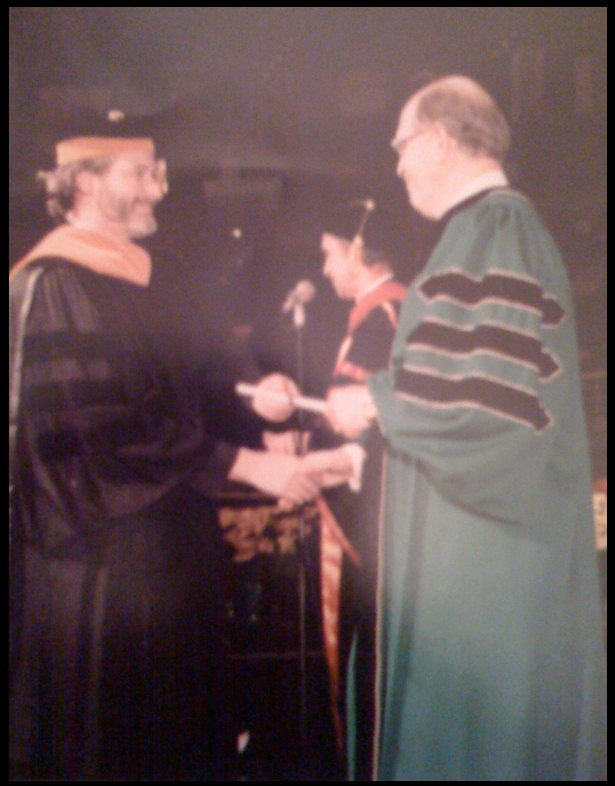
Celebrating the Magic of Teachers

Dr. Charles Severance - University of Michigan
School of Information / Informatics
www.dr-chuck.com

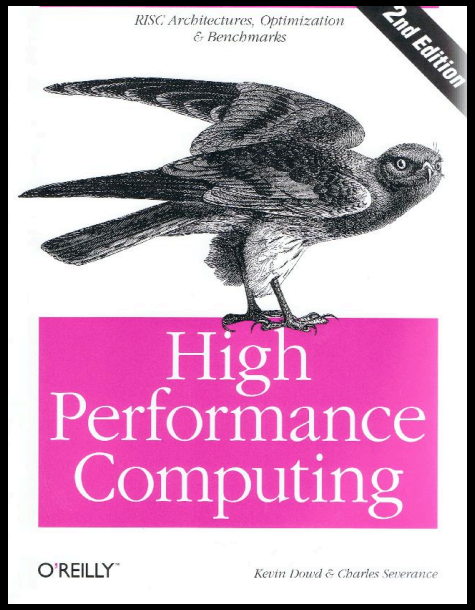

Community
Training
Product
Value
Etudes

A Wandering Tale...

One teacher's experiences wrestling with technology over 15 years or so...



1996



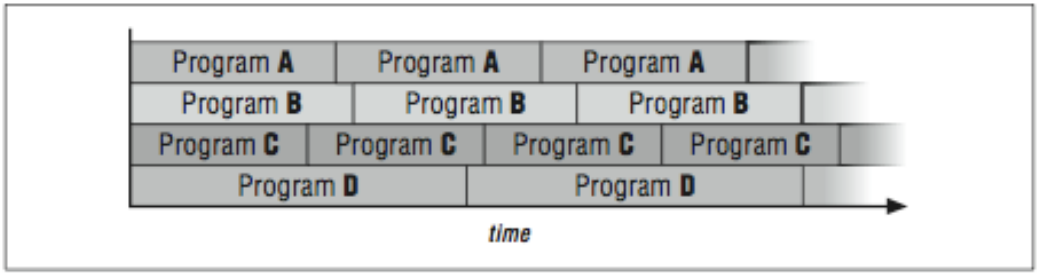


Figure 16-5: Benchmark stone wall

Standards

IEEE 754: An Interview with William Kahan

If you were a programmer using floating-point computations in the 1960s and 1970s, you had to cope with a wide variety of configurations, with each computer supporting a different range and accuracy for floating-point numbers. While most of these differences were merely annoying, some were very serious. One computer, for example, might have values that behaved as nonzero for additions but behaved as zero for division. Sometimes a programmer had to multiply all values by 1.0 or execute a statement such as $X = (X + X) - X$ to make a program work reliably. These factors made it extremely difficult to write portable and reliable numerical

I think that it is nice to have at least one example—and the floating-point standard is one—where sleaze did not triumph.

rumors that Intel was building floating point on a single chip, the i8087. And when they heard rumors of what was going to be on that chip, they were aghast.

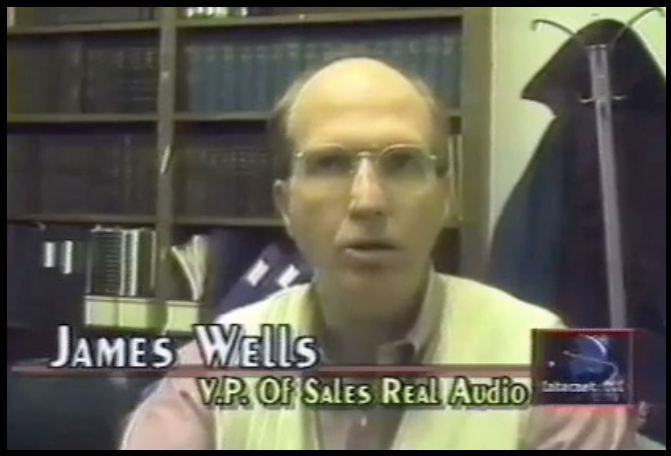
CS: Out of this thinking grew IEEE 754?

WK: People have said from time to time (as a joke) that the other Silicon Valley companies got worried and joined the IEEE 754 working group. I realized at this first meeting that the members of the committee were very serious. CDC didn't bother to attend that meeting in November 1977 because it was a microprocessor committee—they had no idea that microprocessors would mean anything at all. Cray felt the same way. IBM was only there in an observer capacity—they knew microprocessors were coming but they couldn't say much.

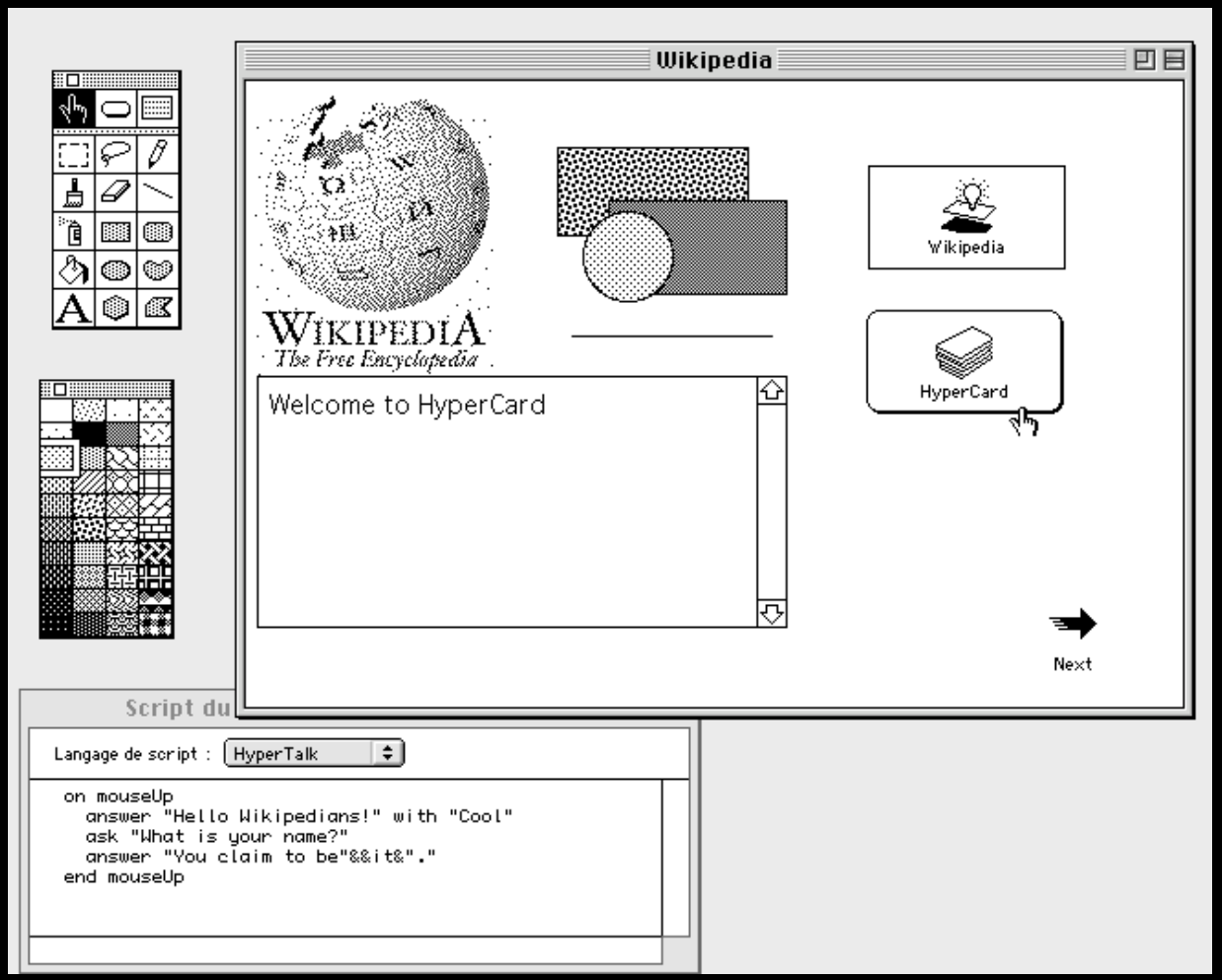
CS: What were the meetings like?

WK: One of my friends said that attending one of these meetings was like a visit to the Grand Canyon: just awesome. In the usual standards meeting everybody wants to grandfather in his own product. I think that it is nice to have at least one example—and the floating-point standard is one—where sleaze did not triumph. Cray, CDC, and IBM

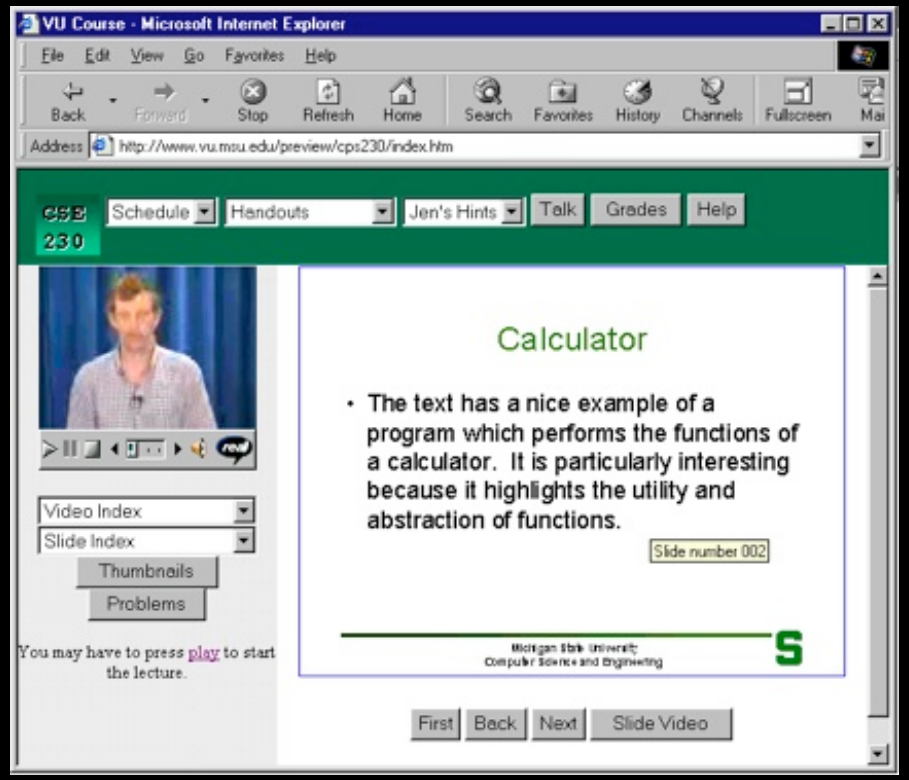
1996



1996

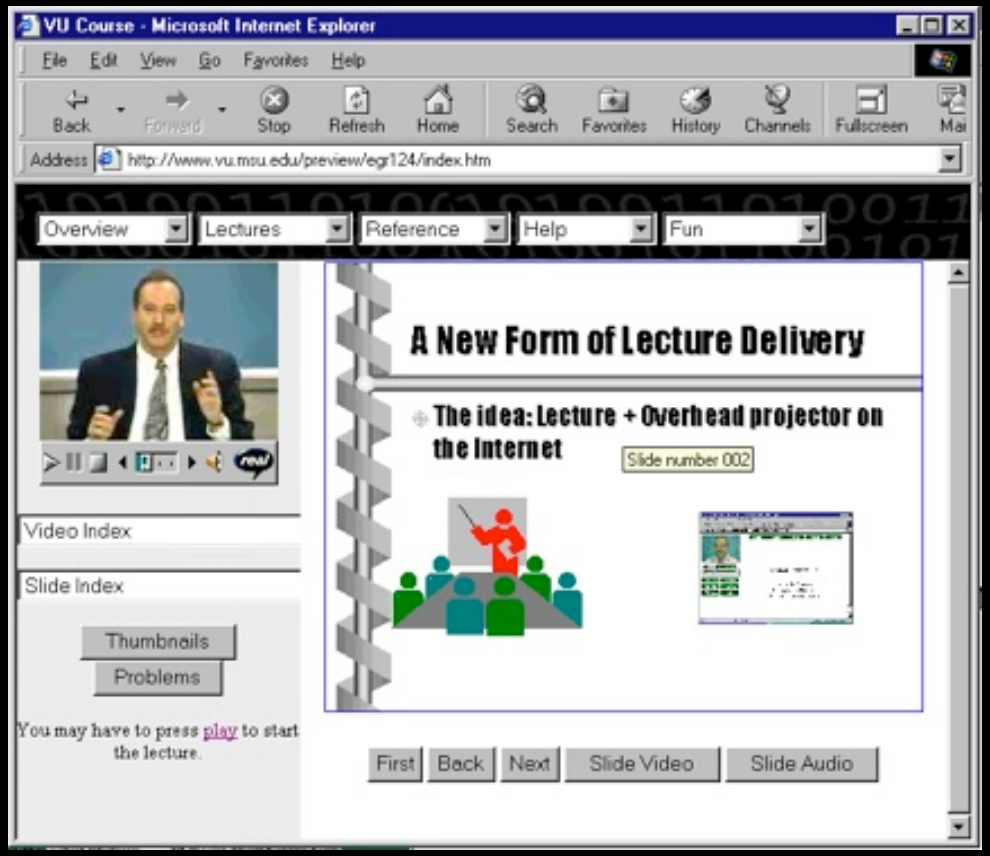

Wikipedia
WIKIPEDIA
The Free Encyclopedia
Welcome to HyperCard
Wikipedia
HyperCard
Next
Script du
Langage de script :
HyperTalk
on mouseUp
answer "Hello Wikipedians!" with "Cool"
ask "What is your name?"
answer "You claim to be"&&it&"."
end mouseUp

1996

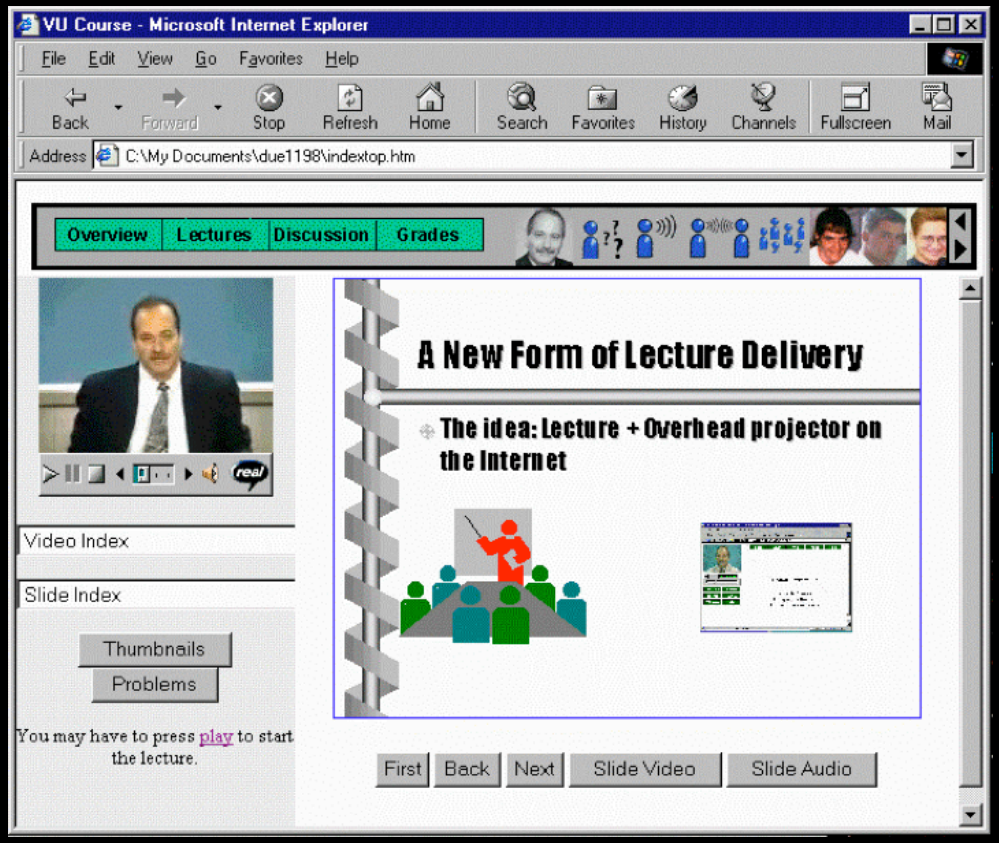


1997

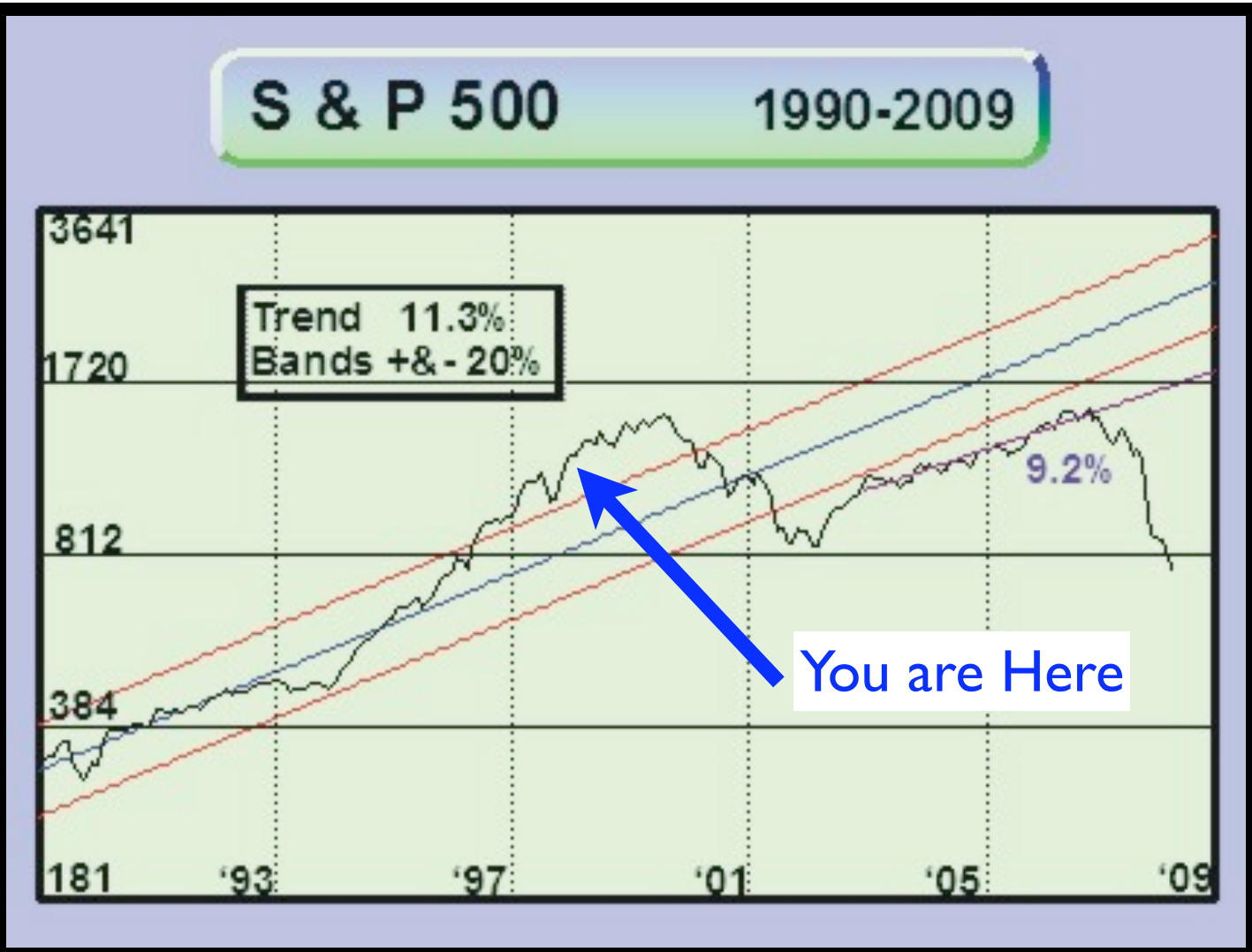
Sync-O-Matic
www.syncomat.com



Title: Using Asynchronous, Web-based, Video to Humanize Distance Education

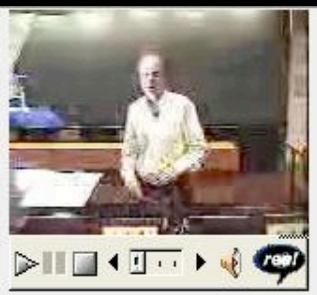


1998


S & P 500 1990-2009
3641
1720
812
384
181
'93
'97
'01
'05
'09
Trend 11.3%
Bands +& - 20%
9.2%
You are Here

1998

1999



Video Index

Slide Index

Thumbnails

Problems

Please allow up to five minutes for buffering.

Get RealPlayer G2 for free.

Presentation Description

Bringing the World Wide Web to America

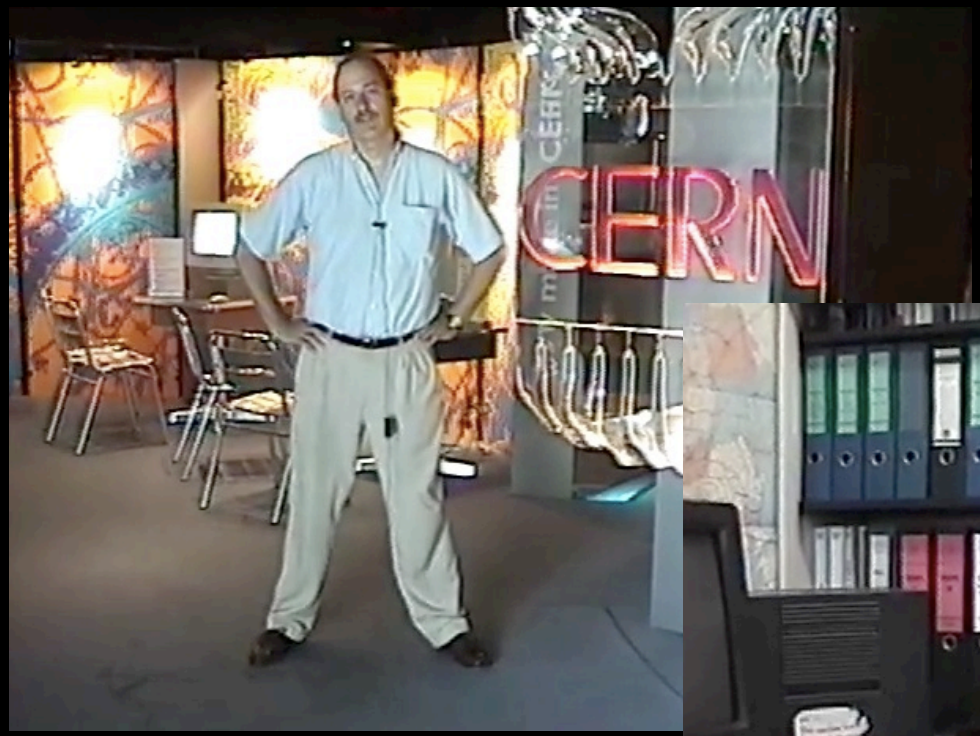
Paul F. Kunz
<Paul_Kunz@SLAC.Stanford.edu>
Stanford Linear Accelerator Center

On Dec. 12, 1991 the first Web server in America was installed, by me, on SLAC's IBM mainframe.

Today, if you don't have access to the Web, you are probably considered disadvantaged

- How did it happen that research in High Energy Physics invented the Web?
- What role did academic research, and HEP in particular, play in developing the ingredients needed for this?

1999



Robert Cailliau
co-Inventor of the
World-Wide Web

1999

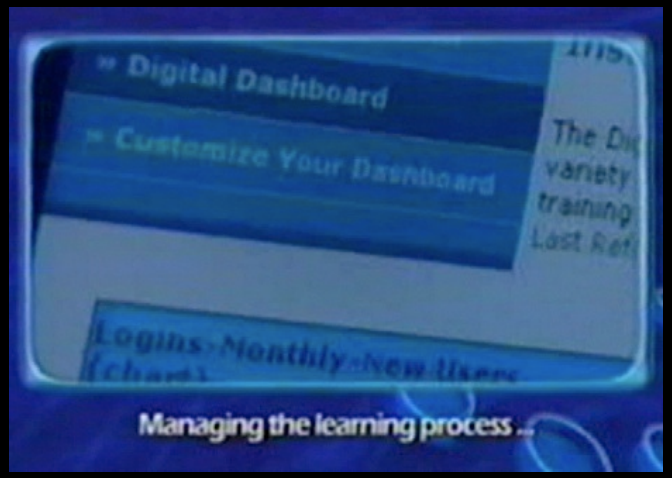
2000

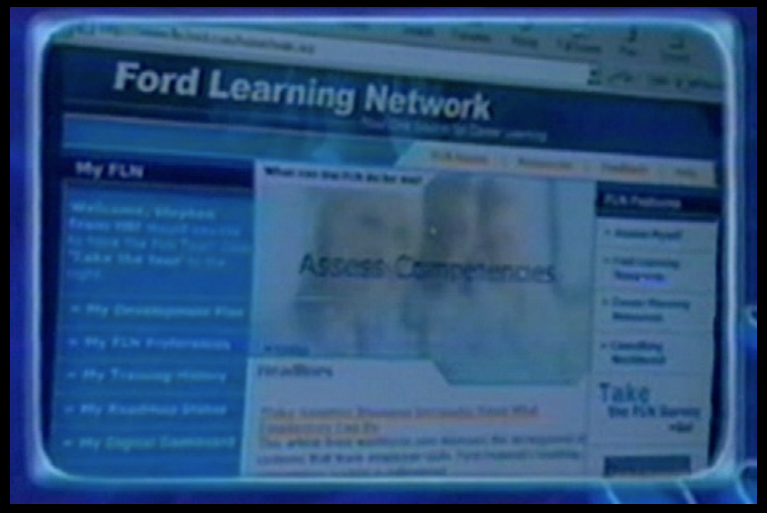
http://www-personal.umich.edu/~csev/csev/projects/cb2k/index.htm

Microsoft Exchange + Learning Modules =

Microsoft Learning Network (MLN)

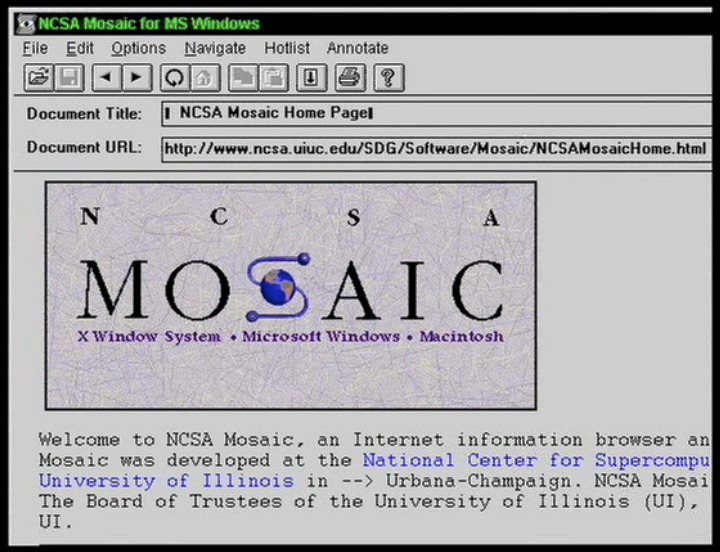
2001


Digital Dashboard
Customize Your Dashboard
Managing the learning process ...


Ford Learning Network
My FLN
Assess Competences

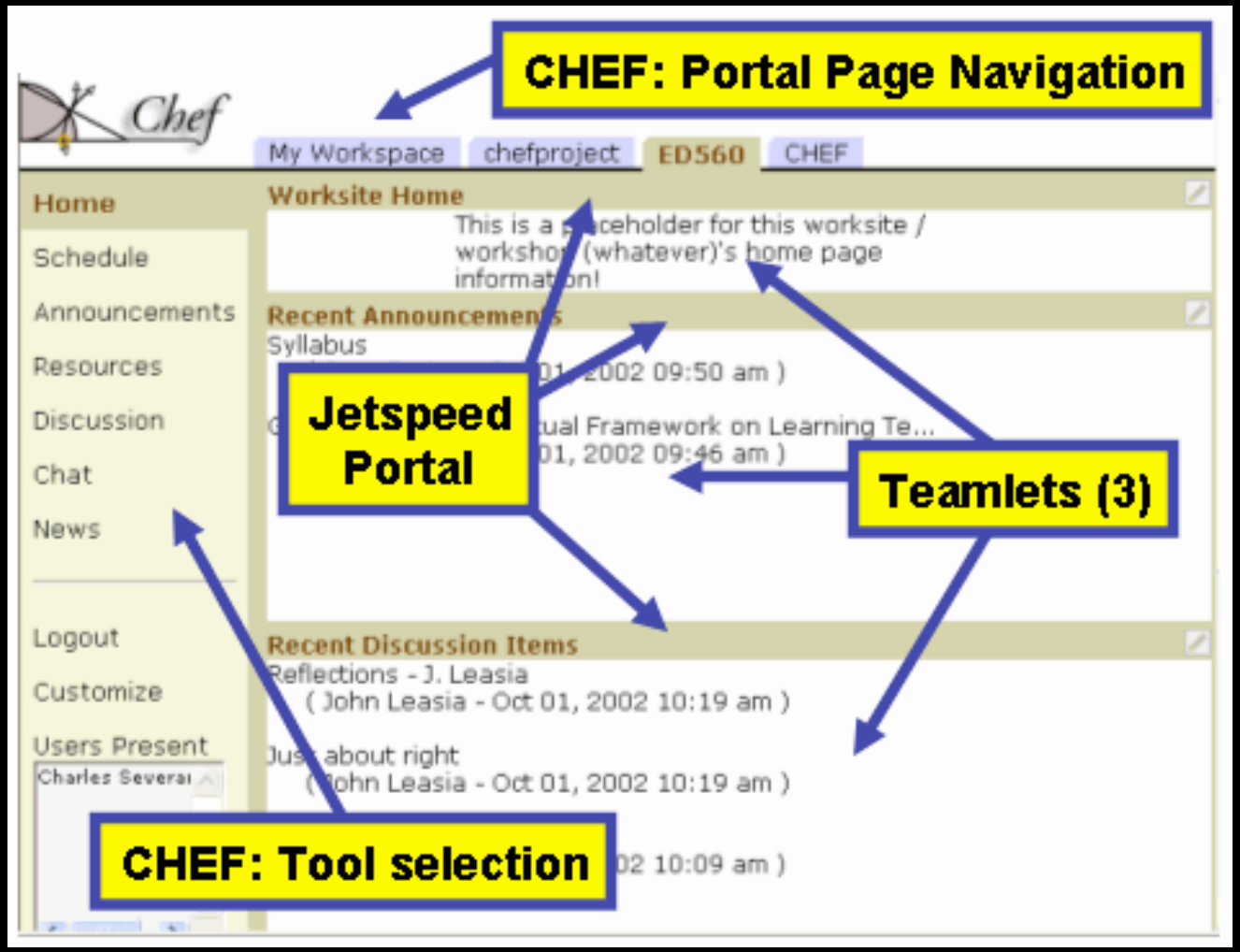
2002

MITOPENCOURSEWARE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

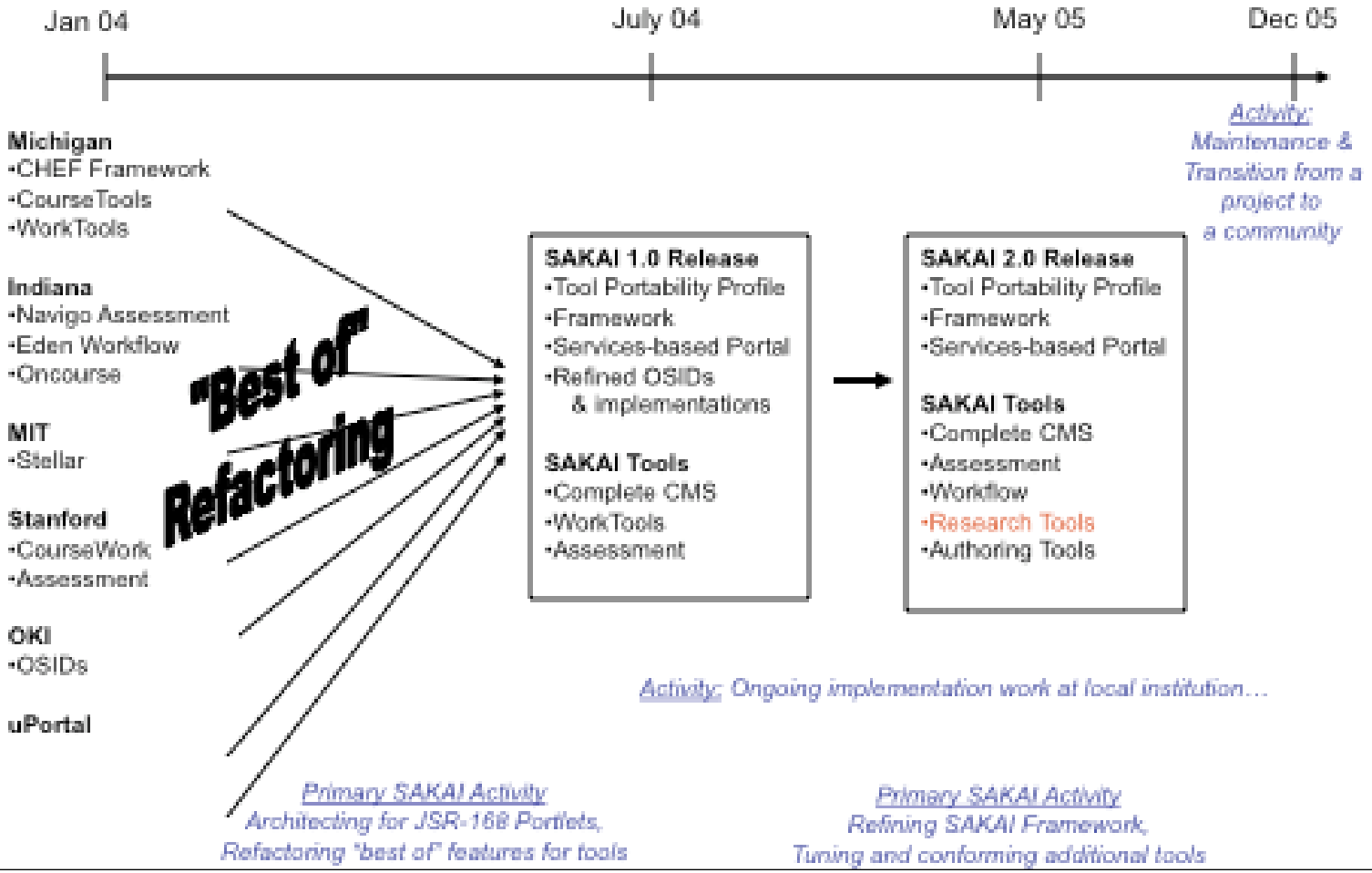


2003

2003


CHEF: Portal Page Navigation
Chef
My Workspace
chefproject
ED560
CHEF
Home
Schedule
Announcements
Resources
Discussion
Chat
News
Logout
Customize
Users Present
Worksite Home
This is a placeholder for this worksite / workshop (whatever)'s home page information!
Recent Announcements
Syllabus
Recent Discussion Items
Reflections - J. Leasia
(John Leasia - Oct 01, 2002 10:19 am)
(John Leasia - Oct 01, 2002 10:19 am)
Jetspeed Portal
Teamlets (3)
CHEF: Tool selection

SAKAI Picture



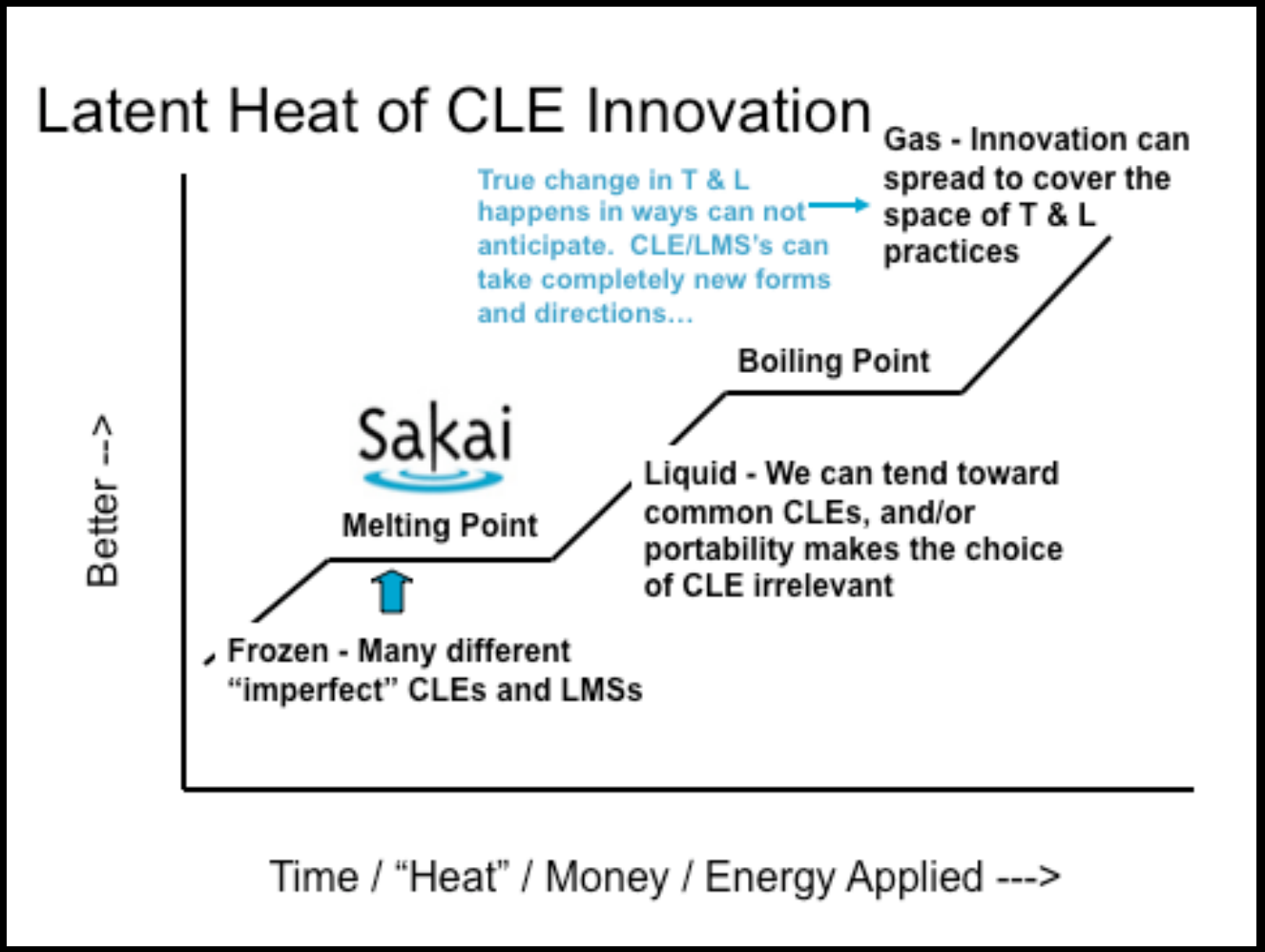
2003

Sakai

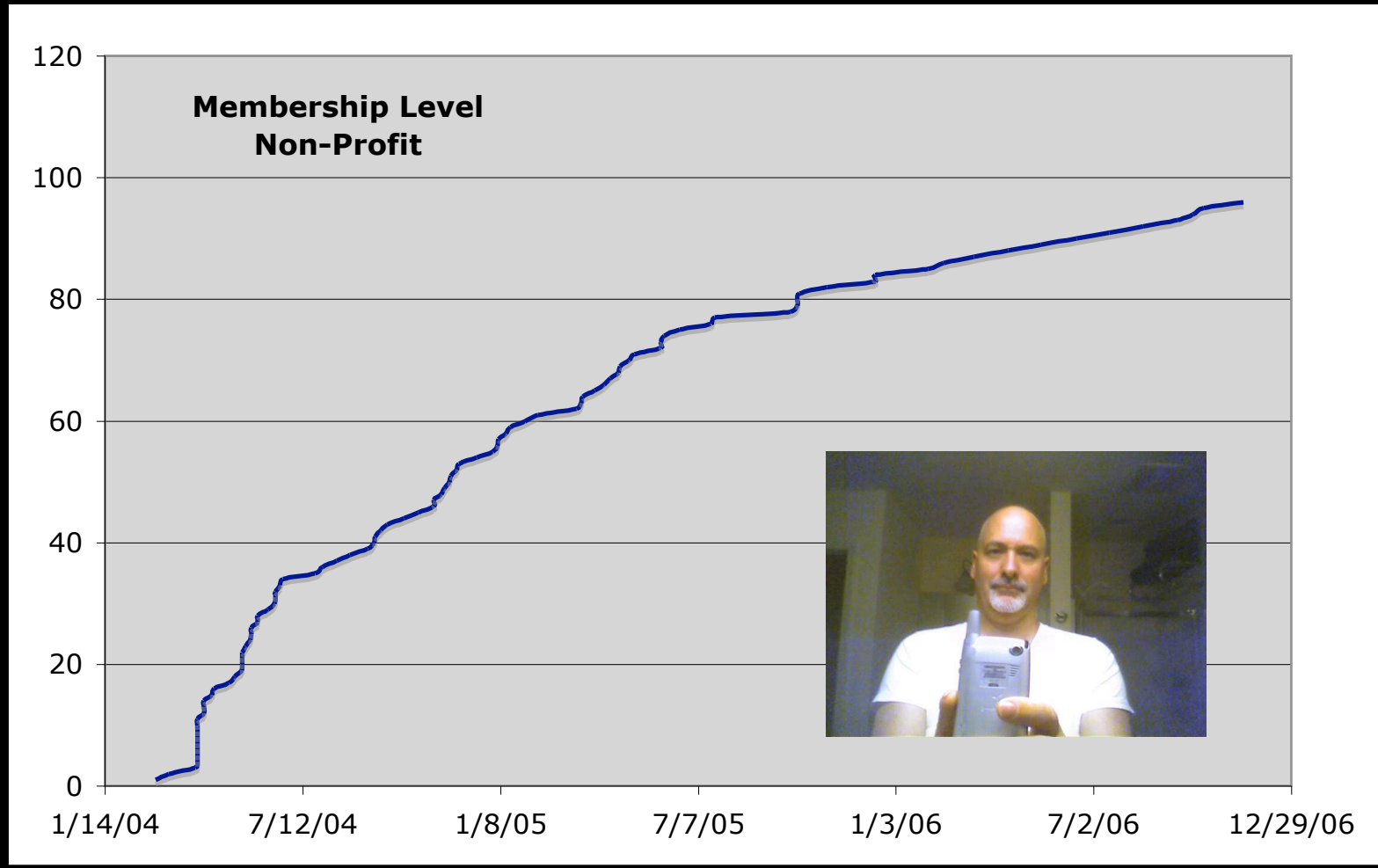
2004

Learning Tools Interoperability

2004


Latent Heat of CLE Innovation
Gas - Innovation can spread to cover the space of T & L practices
True change in T & L happens in ways can not anticipate. CLE/LMS's can take completely new forms and directions…
Boiling Point
Sakai
Melting Point
Liquid - We can tend toward common CLEs, and/or portability makes the choice of CLE irrelevant
Frozen - Many different "imperfect" CLEs and LMSs
Better -->
Time / "Heat" / Money / Energy Applied --->

2004


Membership Level
Non-Profit
120
100
80
60
40
20
0
1/14/04
7/12/04
1/8/05
7/7/05
1/3/06
7/2/06
12/29/06

THOMPSON

Mc Graw Hill Education

Sakai

WILEY KNOWLEDGE FOR GENERATIONS

?????

Bb Blackboard

PEARSON Education

O'REILLY

HOUGHTON MIFFLIN

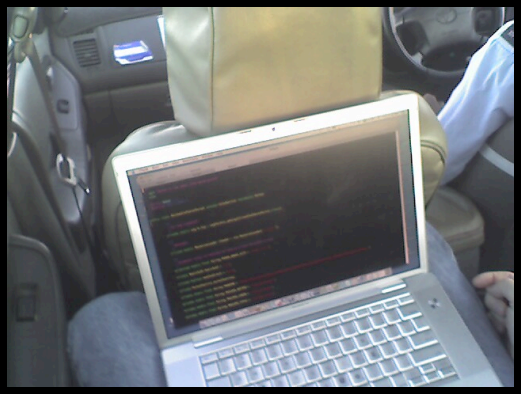
IMS

2005

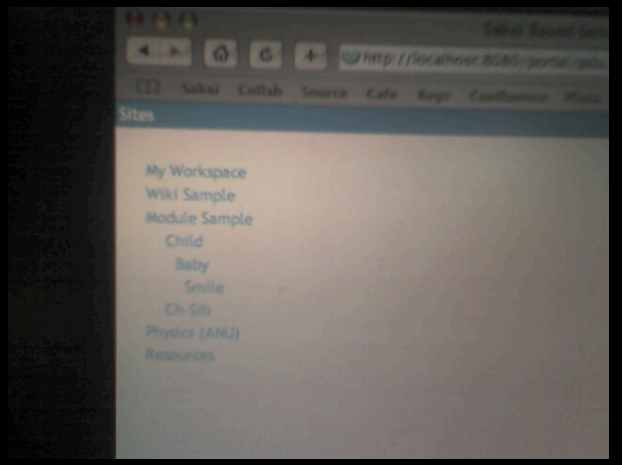
Common Cartridge

IMS Tools Interoperability Demonstrator Sheffield, UK

2005




UNITED


Sakai
Collab
Source
Cafe
Sites
My Workspace
Wiki Sample
Module Sample
Child
Baby
Smile
Ch-Sib
Physics (ANU)
Resources

2006

nwa WorldPerks

Lifetime and Year-to-Date Balances

Total Banked Miles	248,109
Current Locked Miles	0
Current Available Miles	248,109
Total Mileage Since Enrollment	2,006,309

Dr. Chuck Travel 2004-2006

Sakai

PATENT BUSTING
PROJECT

Bb
Blackboard

2006

2007

Self-Service Exit Interview

- ✓ Bring enterprise-level open source LMS into the Market
- ✓ Collect bright worldwide developer community and achieve sufficient adoption for sustainability
- ? Focus on ease of adding new tools
- ?? Create market to enable the free exchange between teachers
- X Get teachers writing tools

ctools.umich.edu

Logout

My Workspace | SI 301 W09 | SI 791 W09 csev | SI 539 W08 | AMT P9 2009 | SI502 | SI502Staff | SI 502 W09 Daniel |

– more sites –

SI502 > SI 502 W09 Daniel

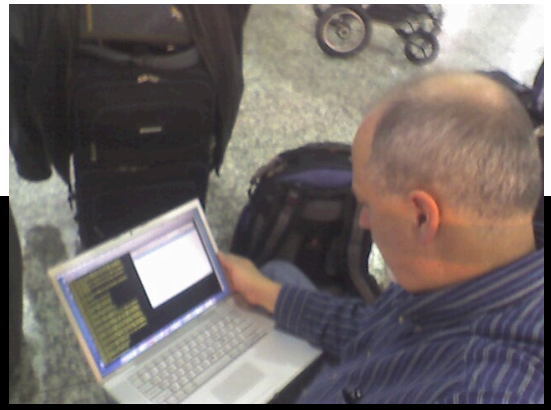
Site Information Display ?

Options

Home
Assignments
Test Center
Gradebook
Email Archive
Site Info
Help

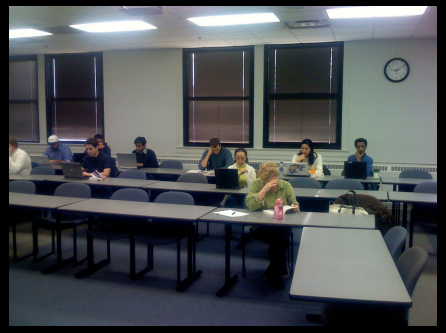
Users present:
Amanda Nichols
Charles Severance

Ctools site for Daniel Zhou's sections for W09:
502-3 29193 Group Session | Th 9-10:30 am, 412 WH | (Daniel)
502-8 29512 Group Session | Th 6-7:30 pm, 331 DENN | (Daniel)



2007

2007



Teach
Relax
Reflect
Recharge

2007-2008


Canettes Blues Band
Got My Mojo Working
Canettes Blues Band
with Dr. Chuck
Mr. Pickwick Pub

2008

Etudes

Etudes

2008

Commercial

Tools
Interoperability

Common
Cartridge

IMS

Publishers

LMS

Open Source

Standards

2008

www.imsglobal.org

Standards

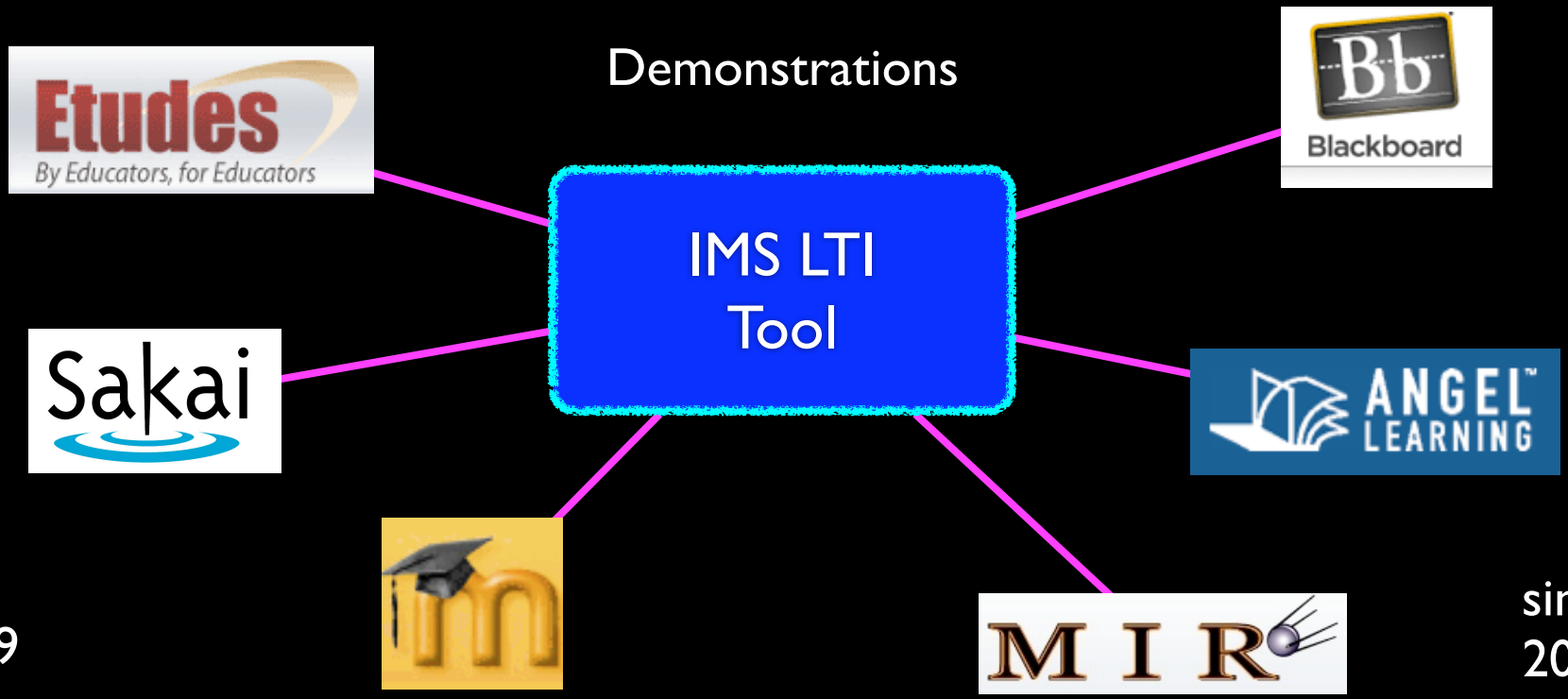
- IMS Tools Interoperability - Allows tools and content from multiple servers to be mashed up across the web
- IMS Common Cartridge - Allows an interoperable cross-Learning System Import and Export of an entire class

IMS Common Cartridge

- Angel Learning is shipping with IMS CC
- D2L has announced support for IMS CC
- Development of IMS CC support for Etudes is underway
- McGraw Hill is producing *Etudes-specific* cartridges until IMS CC Support is available

2009

IMS Tools Interoperability



2009

since
2004

ctools.umich.edu

Logout

My Workspace | SI 301 W09 | SI 791 W09 csev | SI 539 W08 | AMT P9 2009 | SI502 | SI502Staff | SI 502 W09 Paul | – more sites –

Home
Resources
Assignments
Email Archive
Calendar
Software
PythonLearn
Experiment
Wisdom
Site Info
Help

Users present:
Charles Severance

Simple Learning Tool Interoperability

Hello: csev@umich.edu (Instructor) from SI 301 W09

Thank you for your guess

Enter Guess:

Enter Name (opt):

Submit

Average: 105 Count: 1

csev@umich.edu,105

The important thing is not to stop questioning.
-- Einstein

Logout

My Workspace | DEMO - PLAYGROUND | DEMO CSEV 101 DEV | Users Group |

MODULES

- Home
- Schedule
- Announcements
- Modules
- Assignments
- Tests & Quizzes
- Discussion and Private Messages
- Chat Room
- Site Info

users present:

Chuck Severance

View Author Manage Preferences

Viewing student side...

Prev | Table Of Contents |
Testing Tools Interoperability » Wisdom of Crowds

Testing Tools Interoperability
Wisdom of Crowds

Hello: csev (Instructor) from DEMO CSEV 101 DEV

Enter Guess:

Enter Name (opt):

Submit

My Workspace | DEMO - PLAYGROUND | DEMO CSEV 101 DEV | Users Group |

MODULES

- Home
- Schedule
- Announcements
- Modules
- Assignments
- Tests & Quizzes
- Discussion and Private Messages
- Chat Room
- Site Info

users present:

Chuck Severance

View Author Manage Preferences

Viewing student side...

Testing Tools Interoperability
McGraw-Hill Content

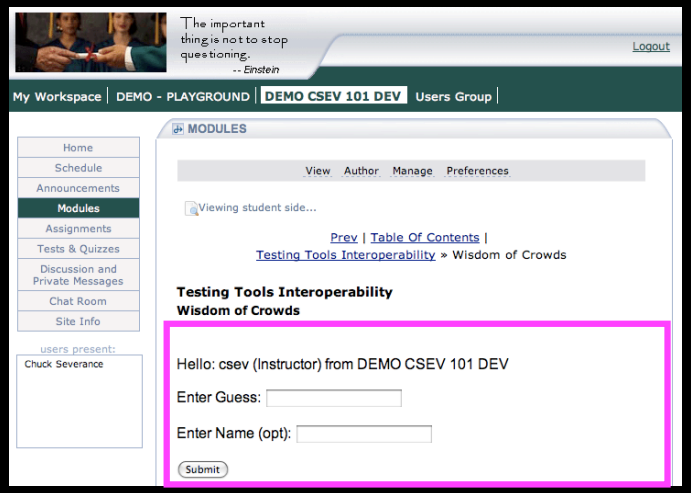
Nervous System: Introduction

The human nervous system is the body's "command central." It is like a computer and communications network all rolled into one. It carries messages back and forth between brain and body; controls and regulates the body's vital functions; and gives rise to both voluntary and involuntary movements.

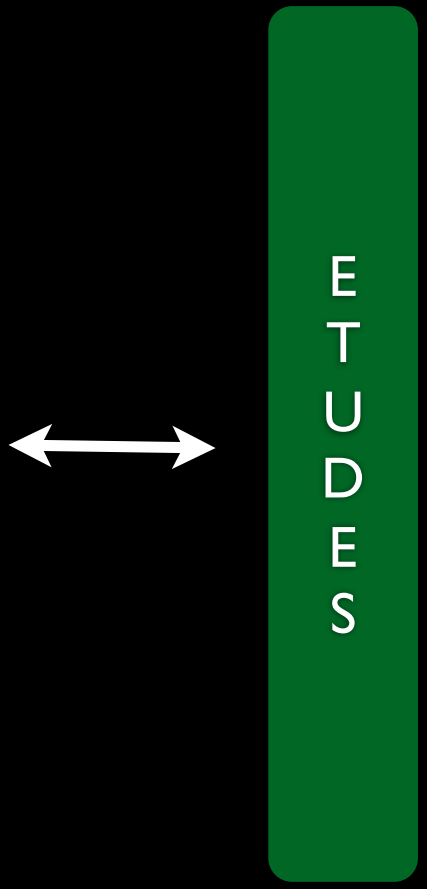
Because the nervous system is complex, s
go on to examine its subsystems one at a t

Mc Graw Hill Education





IMS Learning Tools Interoperability Technical Detail



Markup

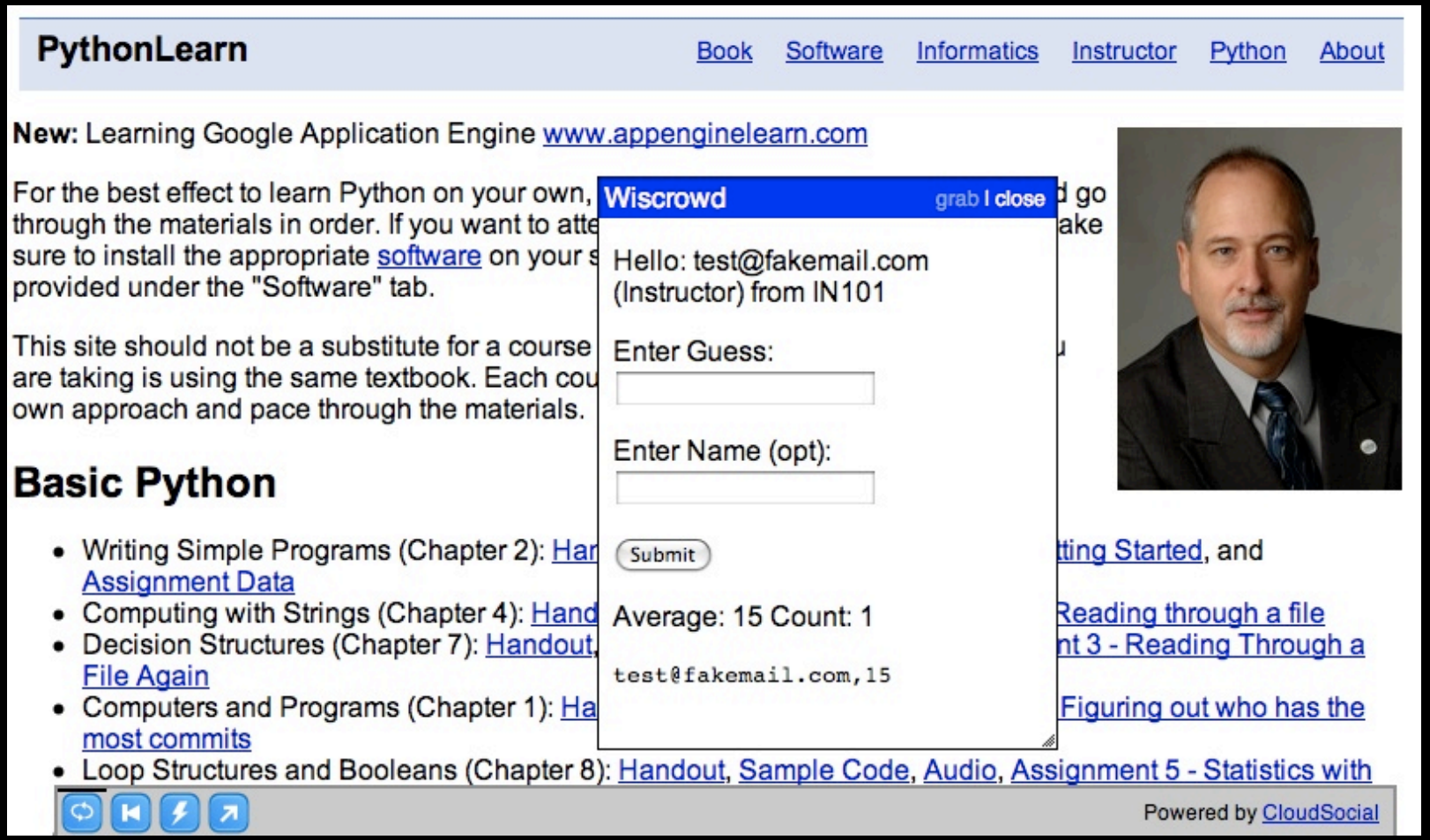
TsugiProject Goals

- Easy to Use Tool Building Environment (ETUBE?)
- Supports IMS Learning Tools Interoperability
- Written in Python, Free, Open Source
- Hostable on Google for Free
- Teachers writing tools - students writing tools (Thousands)

www.tsugiproject.org

High School
College
Freshman
Level

Programming
HTML
CSS
Database
JavaScript



www.cloudsocial.org

After over a decade of effort, 2 million airplane miles, and four job changes, my goal is still to

find ways to put educational teachnology directly in the hands of teachers - so they can use it to teach.

My technical objective is to make it so that teachers can easily trade software and content between each other (like virtual baseball cards).

Regardless of what learning management system (or systems) their institution has adopted.

Thank you