

kentucky learning depot kentucky learning depot kentucky learning depot kentucky learning depot

No Stopping This Train: How Web Technology Is Revolutionizing Education

Curtis J. Bonk, Professor, Indiana University
 President, SurveyShare
 cjbonk@indiana.edu
<http://php.indiana.edu/~cjbonk>

kentucky learning depot **The Ten Forces that Flattened the World** kentucky learning depot

Triple Convergence: (1) new economic players, (2) playing fields, and (3) processes.

- 11/9/89: Berlin Wall came down
- 8/9/95: Netscape went public
- Work Flow Software (e.g., PayPal and eBay)
- Open-Sourcing (Self organ collab communities; Mosaic, Apache, Wikipedia, Linux, Mozilla)
- Outsourcing (Y2K)
- Offshoring (e.g., China, Mexico, Thailand)
- Supply-Chaining (e.g., Walmart)
- Insourcing (UPS fixing Toshiba laptops)
- In-forming (e.g., Google, Yahoo!, MSN Web Search)
- The Steroids: Digital, Mobile, Personal, and Virtual (wireless, file sharing, VoIP, video camera in phone)

Oregon Scientific Smartglobe 2008

UCLA Summer Digs Program

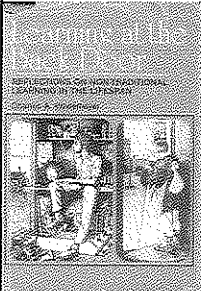



Dig in, archaeology fans! UCLA blogs to offer front-row seat at archaeology digs, Meg Sullivan, 6/25/2008

Michael Perham & Zac Sunderland, Summer 2009

(each age 17, youngest person to sail solo around the world...and blog on it, use Skype, YouTube, take videos, post pictures)


David Thomas, Archeologist, La Trobe University, Australia (Discovery News)

Charles Wedemeyer Learning at the Back Door (1981) Nontraditional Learning



WE-ALL-LEARN: Ten Forces that Opened the Learning World

- Web Searching in the World of e-Books (i.e., Darwin)
- E-Learning and Blended Learning
- Availability of Open Source and Free Software (e.g., Moodle)
- Leveraged Resources and OpenCourseWare (e.g., MIT)
- Learning Object Repositories and Portals (i.e., shared content)
- Learner Participation in Open Info Communities (YouTube)
- Electronic Collaboration and Interaction (sync and async)
- Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- Real-Time Mobility and Portability (e.g., iPhone)
- Networks of Personalized Learning (Blogs, RSS)





Audience Participation!

1. WE
2. ALL
3. LEARN!!!

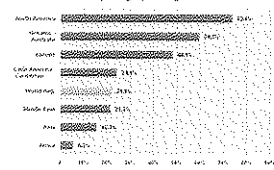



Triple Learning Technology Convergence of "WE-ALL-LEARN"

1. Pipes: The availability of tools and infrastructure for learning.
2. Pages: The availability of free educational content and resources (OER—Open Educational Resources).
3. Participatory Learning Culture: A move towards a culture of open access to information, international collaboration, and global sharing.





World Internet Penetration Rates by Geographic Regions



Region	Penetration Rate (%)
Asia	23.4%
Europe	21.8%
Latin America - Caribbean	14.9%
Middle East	11.2%
Africa	10.2%
Oceania - Australasia	10.1%






World Internet Users by World Regions



Region	Percentage
Asia	3.0%
Europe	1.2%
Latin America - Caribbean	1.1%
Africa	0.8%
Middle East	0.7%
Oceania - Australasia	0.6%


Source: Internet World Stats - www.internetworldstats.com/stats.htm
1,463,822,361 Internet users for June 30, 2009
Copyright © 2009, Research Marketing Group

Opener #1. Web Searching (e.g., Google, MSN, Yahoo!) in the World of e-Books (i.e., Darwin, Shakespeare, etc.)








Trend #1. Web Searching in the World of e-Books. What happens then?

WE




ALL



LEARN!!!

This Could Be the Year of e-Textbooks
Many titles are available, but students are wary.
 Jeffrey Young, September 7, 2009

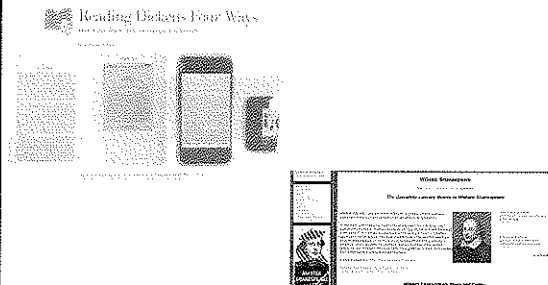
September 7, 2009
 This Could Be the Year of e-Textbooks
 Many titles are available, but students are wary.




Sign of the times: At the San Diego State U. bookstore, a poster exhorts students to "Buy This Textbook as an eTextbook."

E-books: 4 choices (Paperback, Kindle, iPhone, or iPod listening)

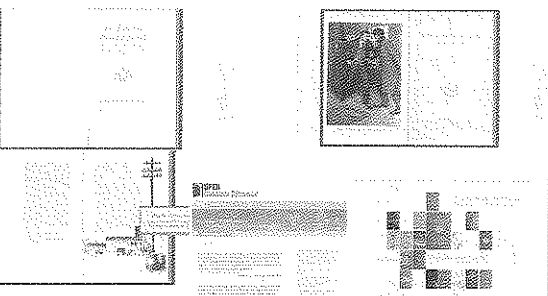
Reading Dickens Four Ways



Free Online Books
 (Terry Anderson and Fathi Elloumi, eds. *Theory and Practice of Online Learning*; Canada: Athabasca University, 2004),
http://cde.athabascau.ca/online_book/, 55,000 downloads in first year)




Read, Listen, etc. to online books (e.g., "An International Episode" by Henry James)

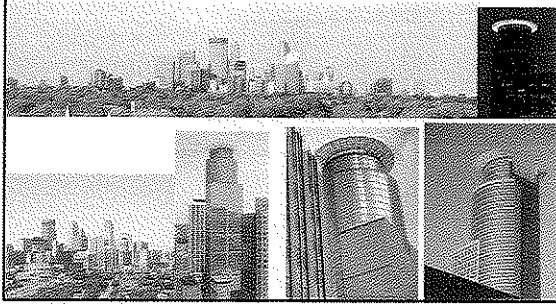


Opener #2. E-Learning and Blended Learning

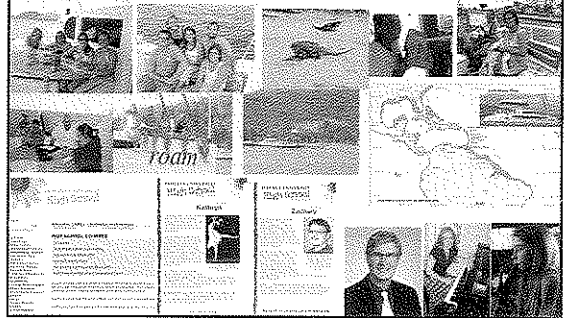
The Learning World is Open



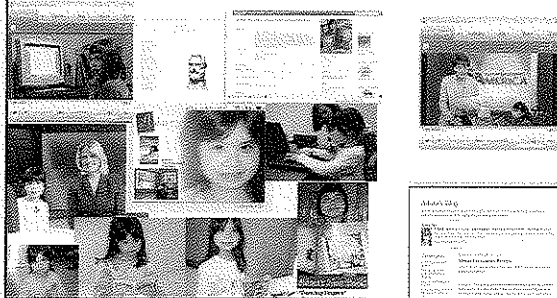
Capella Tower
225 South Sixth Street, Minneapolis
Formerly, the "Halo"



Indiana University High School
(4,000 students and 1,400 enrolled in diploma programs)



Adora Svitak, age 11, World's Youngest Teacher



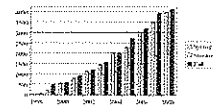
Total and Online Enrollment in Postsecondary Institutions
Fall 2002 through Fall 2006

For Degree-Seeking Undergraduates

	Total	Online	Blended	Blended + Online	Total	Online	Blended	Blended + Online
Fall 2002	15,611,710	NA	1,032,870	NA	9.7%			
Fall 2003	15,808,470	7.7%	1,371,287	25.0%	11.7%			
Fall 2004	17,272,242	6.2%	2,323,783	18.2%	13.5%			
Fall 2005	17,428,930	6.3%	3,183,050	26.5%	16.2%			
Fall 2006	17,647,720	7.2%	3,463,218	27.9%	16.6%			

NOTE: Online Blended Enrollment includes Online Blended Enrollment

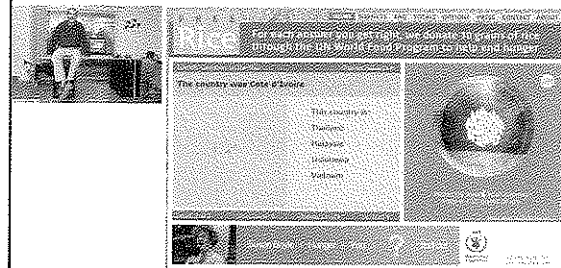
UIS Online & Blended Enrollment



Open Teaching
(Tom Reeves Evaluation Course at Georgia; David Wiley's Web 2.0 courses at BYU; Connectivism from George Siemens and Stephen Downes, 24 enrolled, 2,000+ sitting in)



A Grain of Rice: A Bloomington man's computer vocab game feeding the world



Opener #3. Availability of Open Source and Free Software (e.g., Linux, Apache, Moodle, Sakai)

The Learning World is Open

Blackboard
Kobayashi Ltd.

Moodle (620,000 registered users in 204 countries speaking 78 languages, 2/10/2009)

Opener #4. Leveraged Resources and OpenCourseWare (OCW) (e.g., free courses from MIT, Utah State, CORE, OOPS)

The Learning World is Open

Remix Open Textbook

We Remix Open Textbooks!

Open Educational Resources (OER) Post Courses in YouTube and iTunes (e.g., Berkeley)

OpenCourseWare (OCW) Cute Kitten or Transformation?

MIT OPEN COURSEWARE

Open Yale

Opensource Opencourseware Prototype System (OOPS) funded by, the Foundation of Fantasy, Lucifer Chu, Chairman and Janitor of OOPS, Taipei)

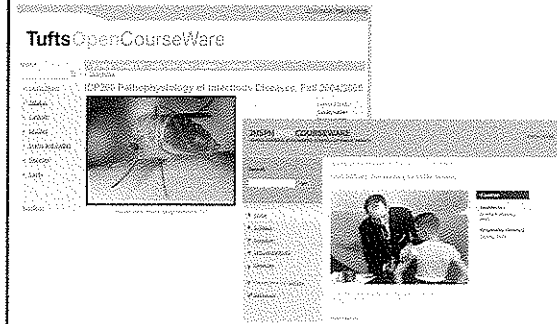
The Biggest OCW Localization Volunteer Group in the World

OOPS

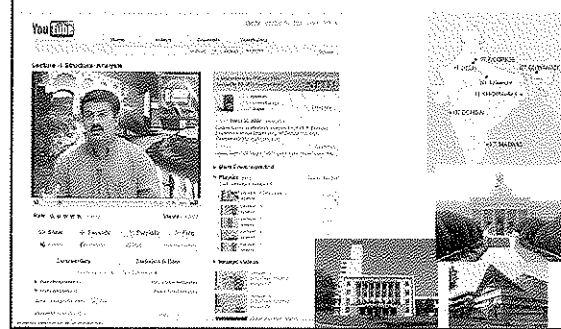
OpenSource Opencourseware Prototype System

開放式課程計劃

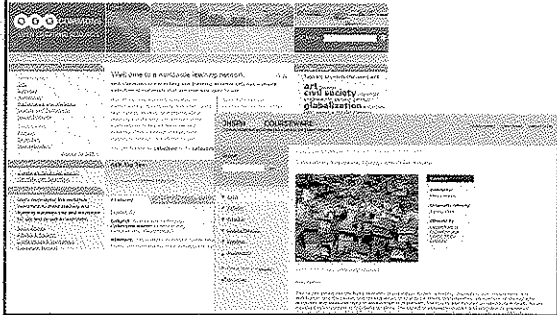
Sample OpenCourseWare Projects (Tufts, Johns Hopkins)



Indian Institutes of Technology (IIT)

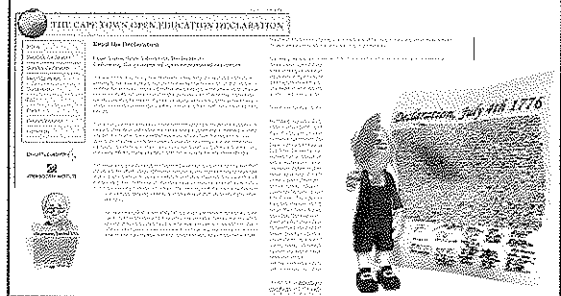


National Repository for Online Courses (NROC) Commons



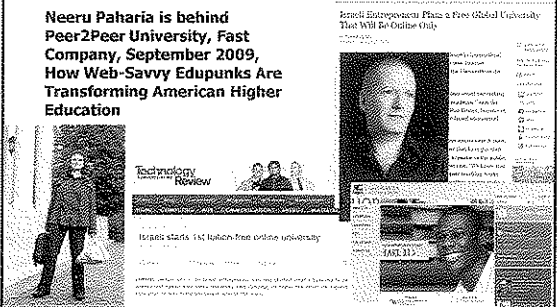
Cape Town Open Education Declaration, Dec 2007

<http://www.capetowndeclaration.org/>

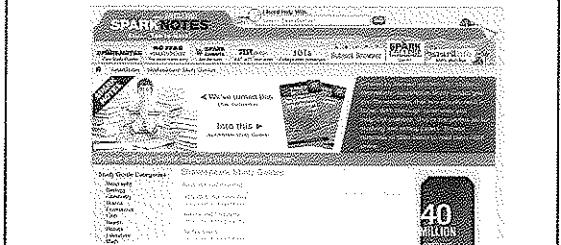


Peer2Peer University and University of the People (free!)

Neeru Paharia is behind Peer2Peer University, Fast Company, September 2009, How Web-Savvy Edupunks Are Transforming American Higher Education



Opener #5. Online Learning Object Repositories and Portals (shared content)



Tracking Live Internet Thawing: A Colossal of an Idea

Ida (a transitional species) 47-Million-Year-Old *Darwinius Masillae* Fossil the Missing Link? (wowOwow, May 20, 2009)

The Complete Works of Charles Darwin

The Complete Works of Charles Darwin Online

Contributors

The Carlyle Letters Exploring Victorian World Through Letters and The Diary of Samuel Pepys

(Great Plague, Great Fire, Charles Dickens, Erasmus Darwin, Mary Wollstonecraft Shelley, Robert Browning, John Stuart Mill, Ralph Waldo Emerson, Elizabeth Barrett Browning, and Alfred Tennyson)

Academic Earth

<http://academicearth.org/>

Thousands of video lectures from the world's top scholars.

Link TV and Fora TV

Transforming the System: An Interview with Michelle Rhee

FORA TV

Referatory: MERLOT.org

(74,500 members, 21,300 learning materials,
October 6, 2009)

The screenshot shows the MERLOT.org homepage with a search bar, navigation tabs for 'Communities', 'Discipline Communities', 'Workforce Development Communities', and 'Partner Communities'. Below these are three featured community boxes with images and brief descriptions.

Connexions Growth January 2009

>8,000 modules (3-5 pages)
>425 collections (books and courses)
multiple languages
engineering, computer science,
nanotech, physics, statistics, math,
history, music, bio-diversity, botany,
bio-info, IP, BRIT, UNESCO, UN, Sigma
Xi, ...
from authors *worldwide*

Usage October 2008
45 million hits
2m page views
1m unique users
from 200 countries

Opener #6. Learner Participation in Open Information Communities (e.g., Slashdot, Digg, Wikipedia, YouTube)

The Learning
World is Open

The collage features a close-up of a person's face with the text 'this is me...', the FlatWorld Knowledge logo, and a photo of a group of people smiling.

Wikis: Wikipedia and Wikibooks

The screenshot shows the Wikipedia language distribution page with a globe and various language options like English, French, German, etc. There are also two small photos of people.

Conference to Conference (You Ustreamed my Ustream: Now that's a Twitter of an Idea)

The screenshot shows a Ustream conference interface with several video feeds of speakers and their respective presentation slides.

Shared Online Video (e.g., YouTube and the Royal Channel)

The screenshot shows a YouTube channel page for 'THE ROYAL CHANNEL' with video thumbnails for 'Kylie Minogue collects her OBE at Buckingham' and 'The Queen visits Google London'.

Individual Produced Videos
 (e.g., African School Dream in Current TV)
http://current.com/items/77146082_african_school_dream

TV Lesson (How-to lessons from experts:
 1,000's of instructional videos and articles;
<http://www.tvlesson.com/>)

Participatory E-Books

Scribd: Documents on Web
<http://www.scribd.com/>; 21 million unique
 visitors per month, May 2008

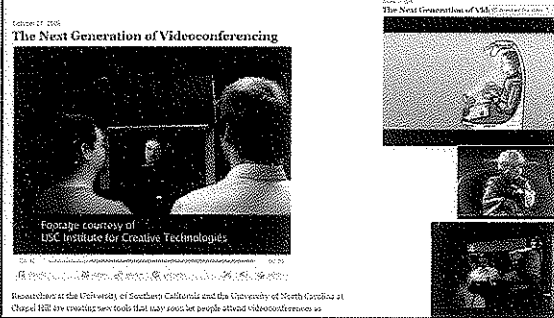
**Opener #7. Electronic
 Collaboration and Interaction**
 (synchronous & asynchronous)

Iran after the June Election
<http://www.cnn.com/video/#/video/world/2009/06/17/amanpour.uk.covering.iran.cnn>

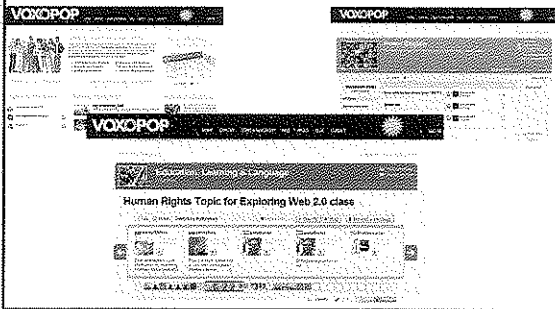
Synchronous Conferencing Presentations



The Next Generation of Videoconferencing Chronicle of HE, October 21, 2009



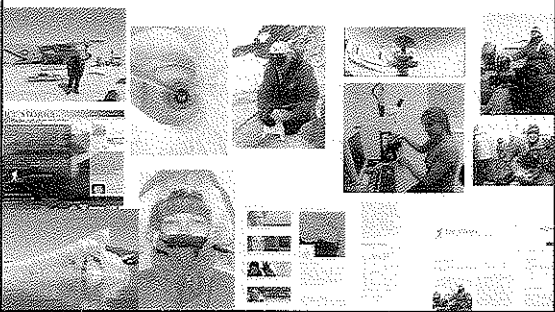
Voxopop (audio threaded conversations) <http://www.voxopop.com/>



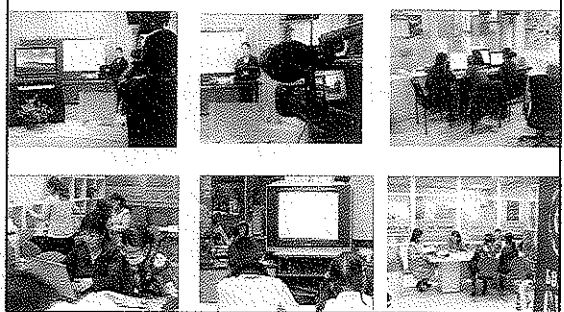
Adventure Learning, GeoThentic, GoNorth (National Geographic) (Aaron Doering, Univ of Minnesota)



Ice Stories Project from Antarctica



Mongolia teachers addressing H1N1 (Otgo Okhidoi, Nov 10, 2009)



Opener #8. Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)

The Learning World is Open

Second Life

(business, law, education, English, medicine)

University of Texas: 50 Islands, Nov 2009

<http://archive.treet.tv/metanomics-campus-life>

Opener #9. Real-Time Mobility and Portability (e.g., iPhone, low cost wireless devices)

The Learning World is Open

We Are Going Mobile!

40,000 new mobile subscribers a week in Rwanda; Rwanda Newtimes report, January 2009
Africa is the continent with the fastest growth, International Telecommunications Union (ITU), March 2009

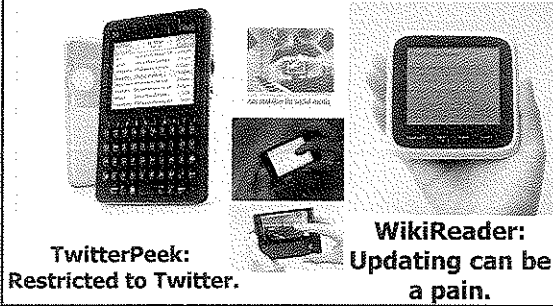
India: In January, 2009, the number sky rocketed to 15.4M
 Globally: 60,000 new mobile subscriptions every hour!!!

(per Paul Kim, Stanford, 2009); Nokia Research Lab
http://news.yahoo.com/s/sfp/20090308/lv_sfp/indiaeconomytelecom

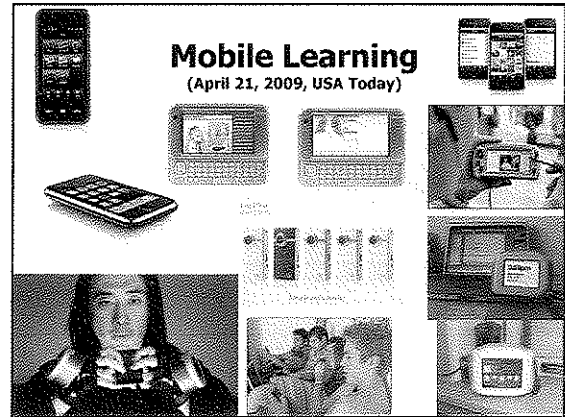
Terabyte thumb Drives and Magic Pens!

(The Pulse from Livescribe, \$129-\$169)

TwitterPeek, WikiReader not worth the loot, USA Today, Edward Baig, November 5, 2009



Mobile Learning
(April 21, 2009, USA Today)



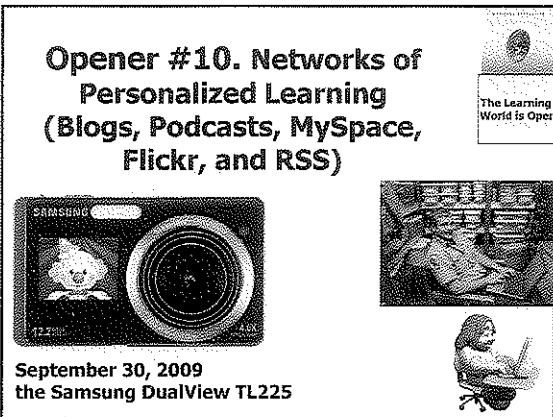
Mobile Learning in India with Paul Kim
<http://www.stanford.edu/~phkim/curi/India.pdf>



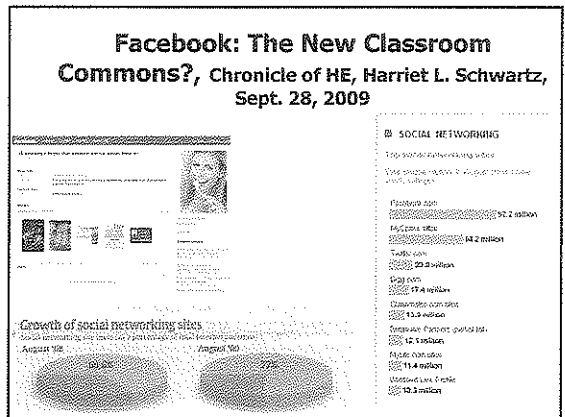
'One Laptop Per Child' program collides with reality
GEOFFREY YORK, Toronto Globe and Mail, Oct 15, 2009
Bhutan, Khendum Gyabak (University of Texas at El Paso)



Opener #10. Networks of Personalized Learning
(Blogs, Podcasts, MySpace, Flickr, and RSS)



Facebook: The New Classroom
Commons?, Chronicle of HE, Harriet L. Schwartz, Sept. 28, 2009



Podcast Shows (subscribe to ShakespeareCast.com)

Big Contact Feed Player - Windows
http://www.bigcontact.com/play/...

ShakespeareCast.com

HM2 - Your Father Lost a Father
HM2 - A Documentary In Mianess
Hamlet's Head #001
Intermission
R&J Act 5 Scene 1
Romeo and Juliet - Act 2
MSJ Act 1 Scene 1
R&J Act 3 Scene 6
R&J Act 3 Scene 5
R&J Act 3 Scene 4
R&J Act 3 Scene 3
R&J Act 2 Scene 2

Learning Towns are Popping up!

Learning Towns

LEARNING TOWNS!

Livemocha

Spanish

Italian

249 free lessons & 7287 conversations. Take the first step.

29 free lessons & 478 conversations. Take the first step.

Livemocha (29 languages, 160 hours of lessons, over 2 million users, FREE!)

Livemocha

A powerful opportunity for people around the world to connect with language partners.

Dr. Susi Jank, Elanco

Social Language Learning - Online!

Language Learning on Livemocha

Livemocha Challenge

Predictions

1. Five Billion "Have-Nots" Have at It!
2. Emergence of Lifelong Super E-Mentors/Coaches
3. Quarter-Century Learning Clubs
4. Terabyte Learning Access Points
5. The Veneration of Learning
6. Personalization+ Portfolios
7. The Selection of Global Learning Partners
8. The Shared Learning Era
9. Teaching-Learning Perpetuities
10. Teachers, Teachers
11. The Rise of the Super Blends
12. Self-Determined Humans
13. Free Learning Zones
14. Authentic Learning Amalgamations
15. Alexandrian Aristotles

The Future

Slides at: TrainingShare.com
Papers: PublicationShare.com
Book: <http://worldisopen.com/>
The World is Open.
What happens then?

WE
ALL
LEARN!!!

kentucky
learning
depo

kentucky
learning
depo

kentucky
learning
depo

kentucky
learning
depo