


The Flat World Swung Open: Now WE-ALL-LEARN with Web Technology



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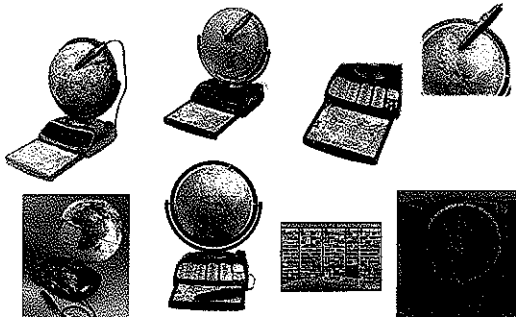
The Ten Forces that Flattened the World

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



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)

Grandpa George (Goronja)
(West Allis, Wisconsin, built tractors 40+ years)

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

Poll #1: If you had to pick your favorite way to learn, what would it be like?

- Face-to-face (FTF)
- Fully online
- Blended (combining online and FTF)
- Television, correspondence, or radio
- Self-study and self-service

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!


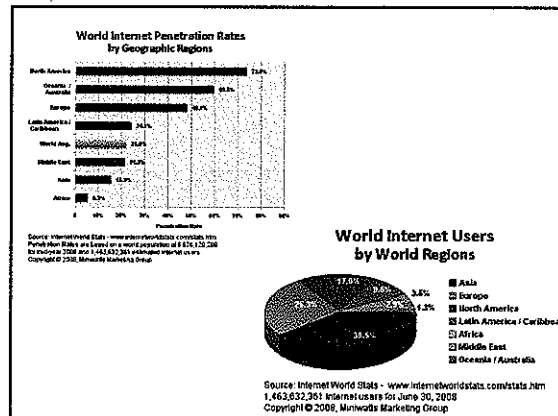
1. WE

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.





Norm Kamikow
Editor in Chief, CLO, April 2009, page 4

- Recently, I read a startling statistic: More than 53 trillion digital pages will exist online by 2010.
- I found this metaphor, based on commonly accepted measures of time, explaining order of magnitude between a million, a billion and a trillion. A million seconds was 12 days ago. A billion seconds ago, it was roughly May 1977, a span of 32 years. A trillion seconds ago, the Stone Age started.

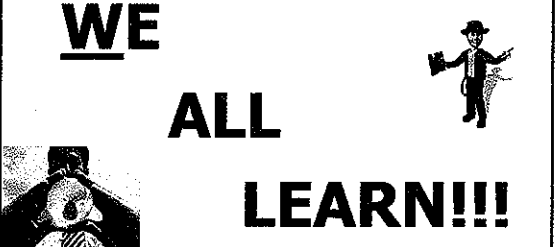


Opener #1. Web Searching (e.g., Google, MSN, Yahoo!) in the World of e-Books (i.e., Darwin, Shakespeare, etc.)



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)

BOOKS & EDS

THE UNIVERSITY OF TEXAS

Reading Dickens Four Ways

How "Little Dorrit" came in multiple text formats

© UNIVERSITY OF TEXAS

How do I get these four versions? Click on the right-hand book. Point of sale. Why? You can download them to your device. You can also purchase them.

Digital Textbook in Korea

dictionary, email and forums, games, simulations, hyperlinks, multimedia, authoring, data search, study aids, evaluation, etc. (112 schools as of 2009; free for all schools by 2013)

<http://www.dtbook.kr/eng/index.jsp>

http://teachertube.com/members/rhw7Moo.php?Video_M=105486&Site=Digital_Textbook_in_Korea

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)

Global Text Project (free textbooks for those in less developed countries)

<http://globaltext.org/>

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

**Trend #2. E-Learning and Blended Learning.
What happens then?**

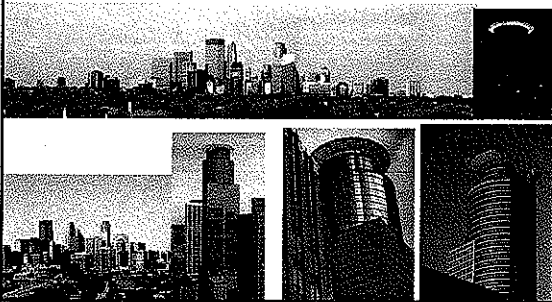
**WE
ALL
LEARN!!!**



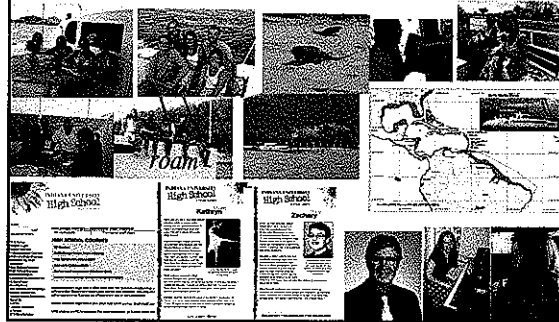
Poll #2: Where will e-learning grow the most during the coming decade?

- Preschool and elementary school
- Middle and high school
- Community college level
- 4 year colleges and universities
- Corporate, government, and military training
- Informal adult learning
- Other

**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**



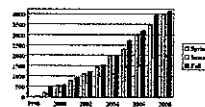
**Total and Online Enrollment in Postsecondary Institutions
Fall 2002 through Fall 2006**

For Degree-Seeking Institutions

	Total Enrollment	Annual Growth Rate	Students Taking at Least One Online Course	Annual Growth Rate Online Enrollment	Online Enrollment as Percent of Total Enrollment
Fall 2002	15,611,710	NA	1,522,970	NA	9.7%
Fall 2003	15,900,479	1.7%	1,871,987	23.0%	11.7%
Fall 2004	17,272,053	8.2%	2,329,783	16.2%	13.5%
Fall 2005	17,428,320	0.9%	3,180,650	36.5%	18.2%
Fall 2006	17,647,720	1.3%	3,403,081	9.7%	19.3%

SOURCE: Online Education, The Year of Growth in Online Learning (Coates 2007)

UIS Online & Blended Enrollment



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

The Learning World is Open

OpenCourseWare
Remix Open Textbook
We Remix Open Textbooks!

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

Berkeley University of California

OpenCourseWare (OCW) Cute Kitten or Transformation? (per George Siemens)

MITOPENCOURSEWARE MASSACHUSETTS INSTITUTE OF TECHNOLOGY OPEN EDUCATION free education for all

Open Yale

MITOPENCOURSEWARE
OPEN EDUCATION
free education for all
Open Yale
MITOPENCOURSEWARE
OPEN EDUCATION
free education for all

Wendy Ermold, University of Washington, scientific programmer and field technician for the Polar Science Center since 1998; with Mike Steele in the study of Arctic Circulation, and the mechanisms controlling it.

MITOPENCOURSEWARE
"It puts a previously untouchable subject within reach for anyone who is interested."
Wendy Ermold
Mike Steele

MIT OCW: Highlights for High School and BLOSSOMS Project

MITOPENCOURSEWARE
Highlights for High School
BLOSSOMS

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

The Biggest OCW Localization Volunteer Group in the World

OOPS
Opensource Opencourseware Prototype System
The Foundation of Fantasy Culture and Arts
OOPS
Opensource Opencourseware Prototype System
開放式課程計劃

Sample OpenCourseWare Projects (Tufts, Johns Hopkins)

This block displays a collage of various OpenCourseWare project pages. It includes course listings, video lecture thumbnails, and navigation menus from institutions like Tufts University and Johns Hopkins University. The pages show course titles, descriptions, and access links.

Indian Institutes of Technology (IIT)

This block shows a screenshot of an OpenCourseWare page for an Indian Institute of Technology (IIT). The page features a video player with a lecture titled "Lecture 4: Structural Analysis". It includes a navigation menu, a list of related videos, and a map of India in the background.

National Repository for Online Courses (NROC) Commons

This block displays the homepage of the National Repository for Online Courses (NROC) Commons. The page features a search bar, a list of course categories, and a detailed description of the repository's mission to provide high-quality, low-cost online education.

Academic Earth <http://academicearth.org/>

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

This block shows the homepage of Academic Earth. The page features a search bar, a list of featured video lectures, and a mission statement. The featured lectures include "The History of Life" and "Philosophy of Life and Death".

Cape Town Open Education Declaration, Dec 2007 <http://www.capetowndeclaration.org/>

This block displays the website for the Cape Town Open Education Declaration. The page features a large image of a group of people holding a banner that reads "Declaration, July 11th 1776". The text on the page discusses the importance of open education and the role of technology in learning.

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

This block shows a screenshot of an article about Peer2Peer University and University of the People. The article features a photo of Neeru Paharia and discusses how these institutions are transforming higher education through open access and technology. The article is from Fast Company, dated September 2009.

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

From left, three views of a fragment of one of the Dead Sea Scrolls: a plain digital image, a color scan and an infrared scan.

August 27, 2008, Israel to Display the Dead Sea Scrolls on the Internet, By ETHAN BRONNER, The New York Times

Tech confab with a conscience goes global

Tracking Live Internet Thawing: A Colossal of an Idea

Deep-Sea Behemoth
 Captain John Bennett examines the world's first intact adult male colossal squid on board his New Zealand fishing boat in February, 2007, in the Ross Sea near Antarctica. The gigantic sea creature weighs a world record 1,089 pounds. After being frozen whole for over a year, scientists at New Zealand's national museum will thaw the squid for further study.

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

horizons blog

UNCOVERING OUR EARLIEST ANCESTOR

The Complete Works of Charles Darwin and Shakespeare

The Complete Works of Charles Darwin Online

The Complete Works of Shakespeare Online

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)

Referatory: MERLOT.org

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

MERLOT

Communities


Disciplines Communities

Workforce Development Communities


Faculty Communities

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)

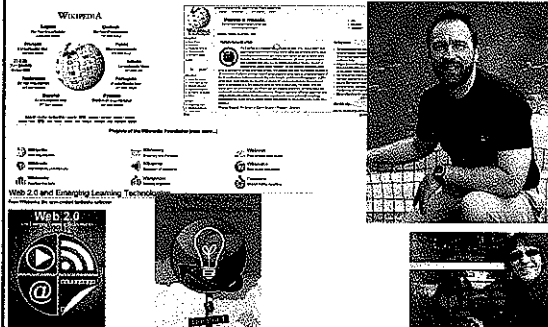




Conference to Conference (You Ustreamed my Ustream: Now that's a Twitter of an Idea)



Wikis: Wikipedia and Wikibooks



Poll #4: Which of the following resources from the Wikimedia Foundation have you used (check all that apply)

1. Wikibooks
2. Wikicommons
3. Wikinews
4. Wikipedia
5. Wikiquote
6. Wikisource
7. Wikispecies
8. Wikiversity
9. Wiktionary

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



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/>)

Link TV and Fora TV

Poll #5: Which shared online video resources have you used or seen used in teaching? (check all that apply)

1. BBC News Video and Audio
2. CNN.com Video
3. Current TV
4. Fora TV
5. Google Video
6. Link TV
7. MIT World
8. MSNBC.com
9. NASA TV
10. TeacherTube
11. YouTube
12. YouTube Edu

dotSUB (subtitling video)

Brand New E-Book and Print book Opening Up Education New Edited Book from MIT (free PDF, sample chapters, and hardcopy) <http://mitpress.mit.edu/catalog/item/default.asp?type=2&tid=11309&mode=toc>

Participatory E-Books

A collage of digital content related to participatory e-books. On the left is the cover of 'THE FUTURE OF THE INTERNET AND HOW TO STOP IT' by Jonathan Zittrain. In the center is a screenshot of a document titled 'THE FUTURE OF THE INTERNET'. On the right is a book cover titled 'The Wealth of Networks'.

Scribd: Documents on Web

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

A screenshot of the Scribd website interface. The page features a navigation bar at the top, a main content area with sections for 'Upload Documents', 'Explore Our Library', and 'Publish Yourself Online', and a sidebar on the right with a search bar and additional links.

LibraryThing:

The World's Largest Online Book Club

(you can be a *"thingamabrarian;"*
850,000 users and 35 million books on member bookshelves)

A screenshot of the LibraryThing website. The interface shows a grid of book covers, a search bar, and a sidebar with navigation options. The background features a silhouette of a person reading in a library.

Opener #7. Electronic Collaboration and Interaction

(synchronous & asynchronous)

A collage of educational and collaborative content. It includes book covers for 'edutopia: The Collaboration Edge' and 'Collaboration Generation', a portrait of a man, and a poster titled 'NEW SKILLS FOR A NEW AGE' with the word 'COLLABORATE'.

Flat Classroom Projects!!!

(combine blogs, videoconferencing, chat, async discussion, etc.)

A collage of photos and text related to Flat Classroom projects. It includes a group photo of students, a screenshot of a 'Flat Classroom' project page, and a photo of a 'Horizon Project' presentation.

Synchronous Conferencing Presentations

A collage of screenshots from synchronous conferencing sessions. The images show various participants in a virtual meeting environment, some with their video cameras on and others with them off.

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

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

TutorVista has 600 tutors in India and 10,000 subscribers in the United States, including Kenneth Tham in Arcadia, Calif.

EPals and iEARN (International Education and Resource Network)

Ice Stories Project from Antarctica

1kg More Project for Rural China
[\(http://www.1kg.org/\)](http://www.1kg.org/)

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

Second Life (business, law, education, English, medicine)

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

Terabyte thumb Drives and Magic Pens! (The Pulse from Livescribe, \$129-\$169)

Poll #6: Would you buy a Pulse pen?

1. Yes
2. Maybe
3. No, too expensive
4. No, too technical
5. No, waiting for advancements in the technology
6. No, no need
7. Not interested

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

Mobile Learning

(April 21, 2009, USA Today)

Pull yourself away from that iPhone and read this story

By Mary Brophy Marcus, USA Today, October 5, 2009
http://www.usatoday.com/printedition/files/20091008/iphonefiction05_start.htm

■ 50 million iPhone users and 85,000 applications.

Pull yourself away from that iPhone and read this story

Friday withdrawal: Allen says she has to pay iPhone App Store fee every day.

Africa is Going Mobile!

40,000 new mobile subscribers a week in Rwanda; Rwanda Newtimes report, January 2009
Africa is the continent with the fastest growth, where penetration has soared from just one in 50 people at the turn of the century to 28%. International Telecommunications Union (ITU), March 2009

India: In 2008, 7M new mobile subscribers a month. In January, 2009, the number sky rocketed to 15.4M (Growth was driven by people in the poorest region)
Globally: 60,000 new mobile subscriptions every hour!!!

(per Paul Kim, Stanford, 2009); Nokia Research Lab
http://news.yahoo.com/s/afp/20090308/bf_afp/indiaconomytelecom

One Laptop Per Child foundation (OLPC) (How about a \$12 laptop?)

The Herald.com: introducing the \$124.50e \$120 laptop

Designers on quest to build \$12 computer

India says it is developing a \$10 laptop for more students; it would be used for educational purposes

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

September 30, 2009
the Samsung DualView TL225

The Learning World is Open

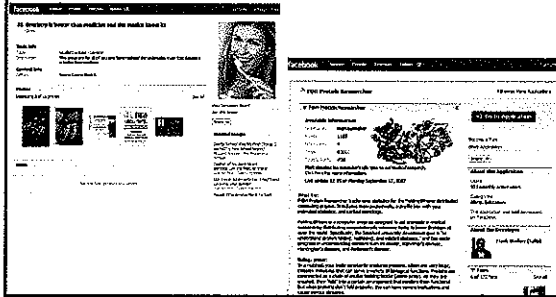
Facebook: The New Classroom Commons?, Chronicle of HE, Harriet L. Schwartz, Sept. 28, 2009

'Flocking' behavior lands on social networking sites
USA Today, September 28, 2009, Sharon Jayson

Growth of social networking sites
Social networking site users (as a percentage of total Internet audience)

Site	August '08	August '09
Facebook.com	1.2%	10.2%
MySpace.com	1.2%	6.1%
Twitter.com	0.1%	0.8%
Diigo.com	0.1%	0.4%
Classmate.com	0.1%	0.3%
Andrew Paterson (personal)	0.1%	0.2%
LinkedIn.com	0.1%	0.2%
Windows Live Profile	0.1%	0.2%
Other	0.1%	0.2%

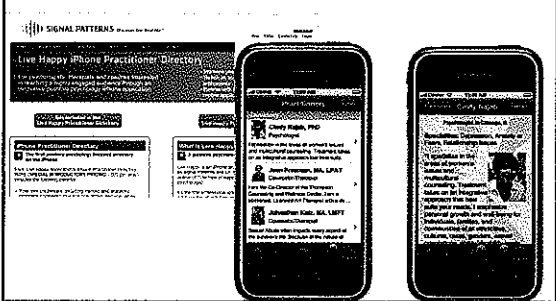
Create a Social Networking Group (MySpace, Facebook, LinkedIn)



Podcast Shows TWIT (This Week in Tech) <http://live.twit.tv/>

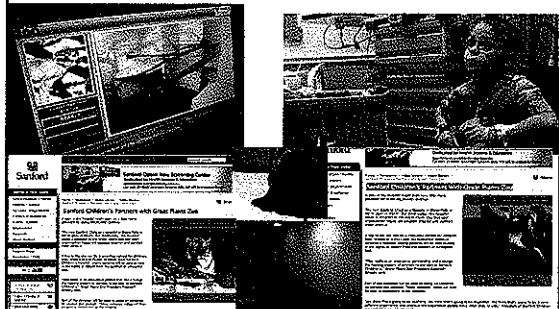


Live Happy Practitioner Directory <http://www.signalpatterns.com/practitioner>



Zoo Animals on Demand

USA Today, September 8, 2009
Littlest patients find distraction, comfort in live feeds from zoos



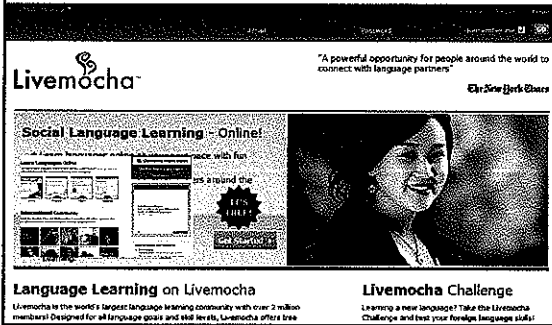
Learning Towns are Popping up!



ChinesePod, ItalianPod, SpanishPod, FrenchPod, and EnglishPod



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



A screenshot of the Livemocha website. At the top, it says "Livemocha" with a logo. Below that, a quote reads: "A powerful opportunity for people around the world to connect with language partners" attributed to "Chris Jerk Oates". The main content area features a section titled "Social Language Learning - Online!" with a sub-header "Learn a new language with fun" and a "FREE!" badge. To the right is a black and white photo of a smiling woman. At the bottom, there are two sections: "Language Learning on Livemocha" and "Livemocha Challenge".

Poll #7: If you had one language to learn online which would it be?

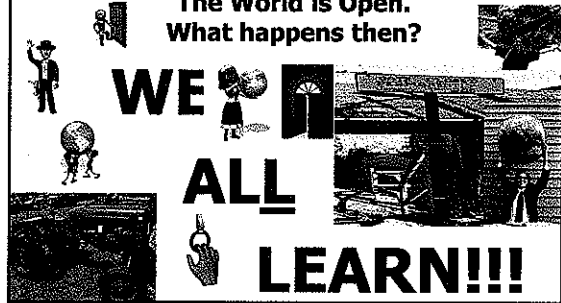
1. Arabic
2. Chinese
3. English
4. French
5. German
6. Hindi
7. Japanese
8. Korean
9. Russian
10. Spanish
11. Italian
12. Other

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



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



A graphic with the text "WE ALL LEARN!!!". The word "WE" is large and bold, with a small figure of a person holding a globe next to it. Below "WE" is the word "ALL" in a similar font, with a small figure of a person pointing upwards next to it. At the bottom is the word "LEARN!!!". The background is a collage of various images including a person, a globe, a computer monitor, and a person sitting at a desk.