The Flat World Swung Open in Florida: How Web Technology Is Revolutionizing Education

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Do you know the shape of the world?

Is the World Flat?

The Ten Forces that Flattened the World
Triple Convergence: (1) new economic players, (2) playing fields, and (3) processes.

1. 11/9/89: Berlin Wall came down
2. 8/9/95: Netscape went public
3. Work Flow Software (e.g., PayPal and eBay)
4. Open-Sourcing (Self organ cells; communities; Mozilla, Apache, Wikipedia, Linux, Mozilla)
5. Outsourcing (T2K)
6. Offshoring (e.g., China, Mexico, Thailand)
7. Supply-Chaining (e.g., Walmart)
8. Insourcing (UPS fixing Toshiba laptops)
9. In-forming (e.g., Google, Yahoo, MSN Web Search)
10. The Steroids: Digital, Mobile, Personal, and Virtual (wireless, file sharing, VoIP, video camera in phone)

Is it spikey?

Is the World Curved?
**Question:**
What is the Web?
- An entertainment system?
- A writing aid?
- A communications system?
- A means to handle commercial transaction?
- A social networking device?

No, it is a learning tool!

**Answer:**
The Web of Learning

**The Web of Learning**

**Today we have the Web 2.0**

**UCLA Summer Digs Program**
Dig in, archaeology fans! UCLA blogs to offer front-row seat at archaeology digs, Meg Sullivan, 6/25/2008
David Thomas, Archeologist, La Trobe University, Australia (Discovery News)

Michael Perham & Zac Sunderland, Summer 2009 (such age 17, youngest person to sail solo around the world...and blog on it, use Skype, YouTube, take videos, post pictures, Mikonou Salito, age 72, oldest solo sailor; August 21, 2010: 14 year-old Dutch girl)

Perhaps people learning online are akin to the alien archaeologists in the 2008 movie, Indiana Jones and the Kingdom of the Crystal Skull. Indy said, "Their treasure wasn't gold, it was knowledge. Knowledge was their treasure."

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)
- Learning Participation in Open Info Communities (YouTube)
- Electronic Collaboration and Interaction (synchronous and asynchronous)
- 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"
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.
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!!!

Free Online Books and now the Blio (a free e-book platform to run on any device; Bright Spots: Canada, Korea, and California)

April 10, 2010: Seton Hill University, 2,100 students an iPad and freshmen a 13-inch MacBook laptop. August 10, 2010, Can college students learn as well on iPads, e-books?, USA Today, Beth Marklein

July 29, 2010 Amazon unveils 3rd-generation Kindle e-book reader, USA Today, Edward C. Baig

July 23, 2010 India unveils $35 computer for students, CNN World, Harmeet Shah Singh

USA TODAY, June 7, 2010 Does iPad have the magic to bring people together?
Opener #2. E-Learning and Blended Learning

Salman Khan (Khan Academy) (videos on math, bio, trig, chemistry, money and banking, economics, statistics, etc.; http://www.khanacademy.org)

A Grain of Rice: A Bloomington man's computer vocab game feeding the world (John Breen)

Adora Svitak, age 12, World's Youngest Teacher

Florida Virtual School, 71,000 unique students. This is half credit completions, which means all included have successfully completed a half credit enrollment (per Julie Young, June 2, 2010)
Capella Tower
225 South Sixth Street, Minneapolis
Formerly, the "Halo"

iSMART: Integration of Science, Mathematics, and Reflective Teaching (iSMART) is a FREE 2-year online graduate program for middle school science and mathematics teachers in Texas, University of Houston
http://www.ece.edu/INEE/TTينا/Transfer%202009.pdf
http://www.ece.uh.edu/mysite/EH/iSMART.html

You see the big picture. You find the connections.
Make it official - become iSMART.

Jon Chauvet and Mimi Lee, Univ of Houston

U. Of California System Proposing Online Ed
Chronic of Hi, May 14, 2010, Josh Kellar and Marc Perry
"The university plans to spend about $250,000 on each course. It hopes to raise the money from external sources like foundations or major donors."

Total 2008: Online Enrollment in Degree-Creating Postsecondary Institutions - Fall 2008 Three-Year Total

Open U of Malaysia, March 25, 2010

Mexico's Monterrey Tech Pushes E-Learning, as Some Worry It Won't Solve Region's Booming Need
June 16, 2010, Chronicle of Higher Ed, Marion Lloyd

"A decade ago, only one in 50 Mexicans had access to the Internet. Today that figure is one in four, a staggering cultural transformation that is fueling a boom in online degree programs in the country. Monterrey Institute of Technology and Higher Education...has allowed it to reach more than 35,000 new students."

U.S. DEPARTMENT OF EDUCATION
Evaluation of Evidence-Based Practices in Online Learning
A Meta-Analysis and Review of Online Learning Studies
Opener #3. Availability of Open Source and Free Software (e.g., Linux, Apache, Moodle, Sakai)

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

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

Moodle (35+ million users, 930,000 registered) in 213 countries, nearly 50,000 sites, 3.5+ million courses, June 27, 2010

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

Sample OpenCourseWare Projects (Tufts, Johns Hopkins)
National Repository for Online Courses (NROC) Commons

Peer2Peer University and University of the People (free!)

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

College 2.0: More Professors Could Share Lectures Online. But Should They?, Chronicle of HE, Jeffrey R. Young, March 7, 2010

"The introduction of video into almost every aspect of our learning and work tasks is profound and "disrupting." As designers, we must experiment with these formats—looking for evidence and appropriate use cases and examples of when not to use video." (Video blogs, Webinars, Webcasts, keynotes, etc., Elliott Masie, Learning Trends, March 2, 2010)

How about rich video portals? Most of the Websites below did not exist 5 or 10 years ago.

1. BBC News Video and Audio
2. CNN.com Video
3. HSNBC.com
4. Google Video, Yahoo Video
5. Current TV
6. Fox TV
7. MIT World
8. YouTube, YouTube Edu
9. Teachertube
10. LinkTV, Explore, Global Pulse, Latin Pulse
11. Howcast, BigThink, WondeHowTo, XploTV, NASA TV, ClipChef, TV Lesson, BookTV, Eubalope videos, MonkeySee, cofflick, the Research Channel, Videosong

How TED Connects the Idea-Hungry Elite, Fast Company, Anya Kamenetz, September 1, 2010

Chris Anderson: The entrepreneur bought TED in 2001. "It felt like something you could devote your life to," he says
More Shared Online Video: Academic Earth, TV Lesson, and Fora TV

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

http://chronicle.com/blogsPost/Human-Brain-Dissected-Today-
in-02031301 WebDriverصراعات که نیاز به مراقبت ساعت 9 و 10 میلیون


The Royal Society 350th anniversary celebrations puts historic papers online (Captain Cook, Sir Isaac Newton and Benjamin Franklin), BBC, Nov 30, 2009
http://www.bbc.co.uk/hi/science/newsbeat/5991420.stm

Sharing Repositories andReferatories
MERLOT.org: 78,472 members, 21,690 lnr materials, Jan 3, 2010
Connections: Dec 2009, 1.5m unique users, 4 million page views, 72 million hits, More than 1m users, 200 countries
National Repository of Online Course, OER Commons
Opener #6. Learner Participation in Open Information Communities (e.g., Slashdot, Digg, Wikipedia, YouTube)

John Dewey, Seymour Papert, John Seely Brown, Ivan Illich, Stephen Heppell, Henry Jenkins

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

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

TravelinEdMan (YouTube) http://www.youtube.com/user/TravelinEdMan

Individual Produced Videos (e.g., African School Dream in Current TV) http://current.com/items/77146092_african_school_dream
Synchronous Conferencing Presentations

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

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)
15m people/month India
40,000/week Rwanda
60,000 earthlings/hour
Opener #10. Networks of Personalized Learning (Blogs, Podcasts, MySpace, Flickr, and RSS)

September 30, 2009
the Samsung DualView TL225

Social Networking Gaming (e.g., Farmville)
For social networks, it's game on, USA Today, Jon Swartz, Thursday October 15, 2009

Some Papers Are Uploaded to Bangalore to Be Graded, Chronicle of Higher Education, April 4, 2010, Audrey Williams June

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Teaching With Twitter

Chronicle of HE, Jeffrey Young, November 22, 2009
Nagali Christensen, a professor of consumer sciences and retailing at Purdue University, has welcomed Twitter into the lecture hall, even though the service lets students engage in back-channel discussions. The questions submitted via McKensie for the professor and guest speakers are projected for all the students to see.

Predictions

1. Five Billion “Have-Notes” Have at It!
2. Emergence of Lifelong Super B-Mentors/Coaches
3. Quarter-Century Learning Clubs
4. Terbyte 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 Perpetualities
10. Teachers, Teachers
11. The Rise of the Super Blends
12. Self-Determined Humans
13. Peer Learning Zones
14. Authentic Learning Amalgamations
15. Alexandrian Aristotles

Decisions for this Open Ed World?

- Technology and Admin Folks:
  - What do to about OER, open sources, E-books, mobile, etc.?
- Instructor decisions:
  - Act as Concierge, Counselor, Course facilitator, Credit manager?
- Students decisions:
  - Should I attend traditional university or create your own degree path?
  - How to report use of OER on resumes?

This book is an attempt to reveal a wide range of learning options in front of you while also offering a framework to make sense of them. As the Grail Knight said in the 1989 movie, Indiana Jones and the Last Crusade, “choose wisely.” If you do, WE-ALL-LEARN. The world is now open to you!

Slides at: TrainingShare.com
Papers: PublicationShare.com
Book: http://worldisopen.com/

WE ALL LEARN!!!