The World Is Open: How Web Technology Is Revolutionizing Education

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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 organaized communities; Mozilla, Apache, Wikipadia, Linux, Mozilla)
5. Outsourcing (Y2K)
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 Storoids: Digital, Mobile, Personal, and Virtual (wireless, file sharing, VoIP, video camera in phone)

Is the World Curved?

DAVID W. SMICK

Is it spiky?

Or is it Open?

OPENING UP EDUCATION

The future of education. It's not what you think it is.
The World Is Open

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, now Abby Sunderland age 16, Minna Salo, age 79, oldest solo sailor)

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)

- Perhaps those learning online are akin to the alien archaeologists in the 2008 movie, Indiana Jones and the Kingdom of the Crystal Skull. We are seeking the knowledge nuggets of our planetary past and present. As Indy said, "Their treasure wasn't gold, it was knowledge. Knowledge was their treasure." If that is true for us as well, then today pretty much all the world's known treasures can be found online.

Indiana Jones
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)

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

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!!!
Blio: Kurzweil Reinvents the Book
Charlie Sorrel, Dec 29, 2009, Wired

- Blio is a free platform... run on any device.
- Blio is in color.
- Blio lays pages seen on paper, with typography and illustrations; uses video.
- More than a million library of titles.
- The end of the book?

Tablet May Help E-Textbook Market, Publishers Hope
Chronicle of Higher Education, Jeffrey Young
January 31, 2010

Guests play with Apple's new iPad at an event announcing its debut in San Francisco. At least one college is considering giving iPads to new students, but the jury on whether the device will revolutionize learning will be out for a while.

Free Online Books
(Terry Anderson and Fathi Elhossy, eds. Theory and Practice of Online Learning; Canada: Athabasca University, 2004),
https://go.auburn.edu/online_book; 50,000 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

Letter from Bill Gates about online learning (January, 2010)
Learning on Demand: Online Education in the United States, 2009 (Jan, 2010, Sloan-C)
http://www.sloan-c.org/learning_on_demand_sr2010

Impact of the Economic Depression on the Demand for Online and Program Rates
- Over 50% of U.S. workforce are online workers
- Over 40% of U.S. workforce are online learners
- Over 30% of U.S. workforce are online educators
- Over 20% of U.S. workforce are online researchers

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

Moodle (32+ million registered users in 208 countries, 3+ million courses, 2/6/2010)

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

Sample OpenCourseWare Projects (Tufts, Johns Hopkins)
Open Educational Resources (OER)
Post Courses in YouTube and iTunes (e.g., Berkeley)

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

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

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)

Link TV, Academic Earth, TV Lesson,
and Fora TV
Wikis: Wikipedia and Wikibooks

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)

Individual Produced Videos
(e.g., African School Dream in Current TV)

Participatory E-Books

Scribd: Documents on Web
Opener #7. Electronic Collaboration and Interaction (synchronous & asynchronous)

Synchronous Conferencing Presentations

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

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

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

Second Life (business, law, education, English, medicine)
University of Texas: 50 Islands in Second Life, Nov 2009
http://archives.lreak.tv/metanomics-campus-life

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

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

Mobile Learning
(April 21, 2009, USA Today)

We Are Going Mobile!
40,000 new mobile subscribers a week in Rwanda; Rwanda News-Nthimes report, January 2009
Africa is the continent with the fastest growth, International Telecommunications Union (ITU), March 2009

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

(pay Paul Kim, Stanford, 2009); Nokia Research Lab

Terabyte thumb Drives and Magic Pens!
The Pulse from Livescribe, $129-$169
Podcast Shows
(subscribe to ShakespeareCast.com)

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

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

Predictions
1. Five Billion "Have-Notes" 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 Aristotlies

This book is an attempt to reveal a wide range of learning options in front of you while also offering you 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/
The World is Open. What happens then?

WE ALL LEARN!!!