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

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Where are you headed?

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. 8/9/85: Netscape went public
3. Work Flow Software (e.g., PayPal and ebay)
4. Open Sourcing (Self organ collab communities: Mosaic, Apache, Wikipedia, Linux, Mozilla)
5. Outsourcing (Y2K)
6. Offshoring (e.g., China, Mexico, Thailand)
7. Supply-Chaining (e.g., Walmart)
8. Insourcing (UPS firing Toshiba laptops)
9. In-forming (e.g., Google, Yahoo!, MSN Web Search)
10. The Stereoids: Digital, Mobile, Personal, and Virtual (wireless, file sharing, VoIP, video camera in phone)

Is the World Curved?

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DAVID M. SMICK
15 Gadgets that Changed Everything This Decade
December 9, 2009, Jay Yarow, Silicon Alley Insider

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, now Abby Sunderland age 16, Minoru Salto, age 75, oldest solo sailor)

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

Indiana Jones

- 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.
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 (e.g., 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 (e.g., 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.)

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

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

Charlie Sorrell, 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?

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**Tablet May Help E-Textbook Market, Publishers Hope**

Chronicle of HE, 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.

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**Free Online Books**

(Terry Anderson and Fatih Elbourni. eds. Theory and Practice of Online Learning; Canada: Athabasca University, 2004),

http://ceo athabasca.ca/online_book/ 55,000 downloads in first year

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

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**Opener #2. E-Learning and Blended Learning**

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**Letter from Bill Gates about online learning (January, 2010)**

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

Open Teaching
(Tom Roewe’s 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)

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

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

Sample OpenCourseWare Projects (Tufts, Johns Hopkins)

Cape Town Open Education Declaration, Dec 2007
http://www.capeopendeclaration.org/
Peer2Peer University and University of the People (free!)

How Web-Savvy Edupunks Are Transforming American Higher Education

Link TV, Academic Earth, TV Lesson, and Fora TV

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
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)
http://current.com/item/77146082_african_school_dream

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)

Ice Stories Project from Antarctica

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://archive.treet.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

TwitterPeek, WikiReader not worth the loot, USA Today, Edward Baig, November 5, 2009
TwitterPeek: Restricted to Twitter.
WikiReader: Updating can be a pain.

Mobile Learning
(April 21, 2009, USA Today)

Terabyte thumb Drives and Magic Pens!
(The Pulse from Livescribe, $128-$169)
We Are Going Mobile!
40,000 new mobile subscribers a week in Rwanda; Rwandan News 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
https://www.utexas.edu/faculty/33957519/nokia/technology/telecoms

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

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'One Laptop Per Child' program collides with reality
GEORGE YOK, Toronto Globe and Mail, Oct 15, 2009
Bhutan, Khendrum Gyabak (Univ. of Texas at El Paso)

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

September 30, 2009
the Samsung DualView TL225

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Podcast Shows
(subscribe to ShakespeareCast.com)

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

Chronicle of HE, Jeffrey Young, November 22, 2009

Suojo Chakravart, a professor of consumer sciences and retailing at Kent State University, has converted Twitter into the lecture hall, even though the service isn’t designed to be a platform for students. Engage in both-yet discussion. The questions submitted via Twitter for the professors and guest speakers are projected for all the students to see.

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

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!