

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

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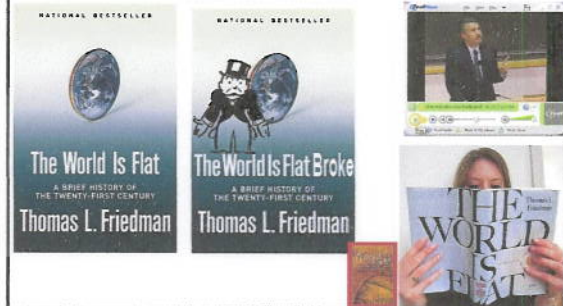
Where are you headed?



Do you know the shape of the world?



Is the World Flat?



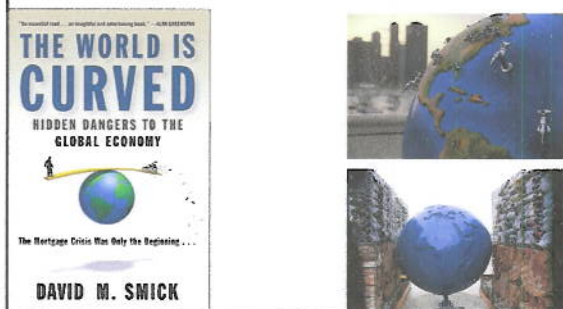
The Ten Forces that Flattened the World

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

1. 11/9/89: Berlin Wall came down
2. 8/9/95: 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 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 the World Curved?



Is it spiky?

www.WhoYourCity.com

WHO'S YOUR CITY?
RICHARD FLORIDA

Or is it Open?

The MIT Press

OPENING UP EDUCATION
The Collective Advancement of Education through Open Technology, Open Content, and Open Knowledge
Edited by Tony Bates and M.S. Vign Kumar
Foreword by John Seelye Brown

The Complete Text PDF version (4.75 MB)
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Foreword: Creating a Culture of Learning
John Seelye Brown
Download Chapter Download PDF (178 KB)

Introduction: An Invitation to Open Up the Future of Education
Tony Bates and M.S. Vign Kumar
Download Chapter Download PDF (240 KB)

Section 1: Open Educational Technology

1. Open Introduction: "Open Educational Technology: Tempered Appropriation"
Open Introduction
Download Chapter Download PDF (172 KB)

OPENING UP EDUCATION
The Collective Advancement of Education through Open Technology, Open Content, and Open Knowledge
Edited by Tony Bates and M.S. Vign Kumar
Foreword by John Seelye Brown



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

Learning at the Back Door
REFLECTIONS ON NONTRADITIONAL LEARNING IN THE LIFESPAN
Charles A. Wedemeyer

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

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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 Saito, age 75, oldest solo sailor)

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 Saito, 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

- **W**eb Searching in the World of e-Books (i.e., Darwin)
- **E**-Learning and Blended Learning
- **A**vailability of Open Source and Free Software (e.g., Moodle)
- **L**everaged Resources and OpenCourseWare (e.g., MIT)
- **L**earning Object Repositories and Portals (i.e., shared content)
- **L**earner Participation in Open Info Communities (YouTube)
- **E**lectronic Collaboration and Interaction (sync and async)
- **A**lternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- **R**eal-Time Mobility and Portability (e.g., iPhone)
- **N**etworks 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.

21 Things That Became Obsolete This Decade

December 11, 2009, Silicon Alley Insider



15 Gadgets that Changed Everything This Decade

December 9, 2009, Jay Yarow, Silicon Alley Insider



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

The Learning World is Open



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."

Blio: Kurzweil Reinvents the Book

Charlie Sorrel, Dec 29, 2009, Wired

<http://www.wired.com/gadgetab/2009/12/blio-kurzweil-reinvents-the-book/>

- 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 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.

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



Letter from Bill Gates about online learning (January, 2010)
<http://www.gatesfoundation.org/annual-letter/2010/Pages/education-learning-online.aspx>



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



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.coe.uh.edu/mycoe/CUIN/math/iSMART%20 flyer4.pdf>
<http://www.coe.uh.edu/mycoe/CUIN/math/iSMART.cfm>

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

New Visions of Teaching and Learning

Article: UNIVERSITY OF CENTRAL OKLAHOMA PLANS TO 'TRANSFORM' CLASSROOM LEARNING WITH NEW BUILDING

Article from: US Post News Service, including US State News 1 Article date: February 21, 2008 | [Download](#)

TRANSFORMATIVE LEARNING AT UCO
 January 2, 2008
 800.800.0148

Transformative Learning Outcomes and Goals

At the University of Central Oklahoma, we are excited for the arrival of today's students. We are providing transformative experiences so that their own future products, creations, efforts and engaged actions will benefit contributing to the intellectual, cultural, economic and social advancement of the communities they serve.

TOTAL AND ONLINE ENROLLMENT IN DEGREE-GRANTING POSTSECONDARY INSTITUTIONS - FALL 2002 THROUGH FALL 2008

	Total Enrollment	Annual Growth Rate Total Enrollment	Students Taking at Least One Online Course	Annual Growth Rate Online Enrollment	Online Enrollment as a Percent of Total Enrollment
Fall 2002	16,611,710	NA	1,602,970	NA	9.6%
Fall 2003	16,911,481	1.8%	1,971,397	23.0%	11.7%
Fall 2004	17,272,043	2.1%	2,329,783	18.2%	13.5%
Fall 2005	17,487,481	1.2%	3,180,050	36.5%	18.2%
Fall 2006	17,758,872	1.6%	3,488,381	9.7%	19.6%
Fall 2007	17,975,830	1.2%	3,938,111	12.9%	21.9%
Fall 2008	18,199,920	1.2%	4,606,353	16.9%	25.3%

UIS Online & Blended Enrollment

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 DOWNTURN ON THE DEMAND FOR COURSES AND PROGRAMS - FALL 2009

Category	Decreased	No change	Increased
Existing face-to-face courses and programs	~10%	~40%	~50%
New face-to-face courses or programs	~10%	~40%	~50%
Existing online courses and programs	~10%	~40%	~50%
New online courses or programs	~10%	~40%	~50%

Learning on Demand: Online Education in the United States, 2009 (Jan, 2010, Sloan-C)

http://www.sloan-c.org/learning_on_demand_sr2010

ONLINE EDUCATION IS CRITICAL TO THE LONG-TERM STRATEGY OF MY INSTITUTION: FALL 2002 - FALL 2009

Year	Agree	Neutral	Disagree
Fall 2002	~50%	~10%	~40%
Fall 2003	~55%	~10%	~35%
Fall 2004	~60%	~10%	~30%
Fall 2005	~60%	~10%	~30%
Fall 2006	~60%	~10%	~30%
Fall 2007	~60%	~10%	~30%
Fall 2009	~60%	~10%	~30%

Learning on Demand: Online Education in the United States, 2009 (Jan, 2010, Sloan-C)

http://www.sloan-c.org/learning_on_demand_sr2010

PROPORTION OF INSTITUTIONS REPORTING ECONOMIC DOWNTURN HAS INCREASED DEMAND FOR COURSES AND PROGRAMS - FALL 2009

	Public	Private nonprofit	Private for-profit
Existing Face-to-face	75.9%	31.6%	52.7%
New Face-to-face	60.2%	30.9%	45.8%
Existing Online	87.0%	68.2%	67.0%
New Online	76.5%	59.5%	54.5%

	Doctoral/Research	Master's	Baccalaureate	Associate's	Specialized
Existing Face-to-face	51.9%	44.7%	30.9%	75.2%	26.5%
New Face-to-face	39.2%	35.9%	24.6%	63.5%	32.6%
Existing Online	75.0%	66.7%	62.1%	81.2%	62.0%
New Online	79.1%	67.6%	55.8%	71.9%	52.4%

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)

The Learning World is Open

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)

The Learning World is Open

MIT OPEN COURSEWARE

Open Yale

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)

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

The image shows a collage of educational content from the University of California, Berkeley. It includes a YouTube channel page with video thumbnails, a course page for 'Berkeley' with a list of topics, and various educational materials like lecture notes and video clips.

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

The Biggest OEW Localization Volunteer Group in the World

The image displays the OOPS website interface, featuring a header with the OOPS logo and the text 'OOPS: Opensource Opencourseware Prototype System'. Below the header, there are several course listings and a prominent photo of a group of people, identified as the largest OEW localization volunteer group in the world. The website is in Chinese.

Sample OpenCourseWare Projects (Tufts, Johns Hopkins)

The image shows a screenshot of the Tufts OpenCourseWare website. The main focus is on the course 'IDP203 Pathophysiology of Infectious Diseases, Fall 2004/2005'. The page includes a video thumbnail of a mosquito, a search bar, and a list of course materials.

Cape Town Open Education Declaration, Dec 2007

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

The image shows the website for the Cape Town Open Education Declaration. It features a header with the title and URL, followed by a section titled 'THE CAPE TOWN OPEN EDUCATION DECLARATION'. Below this, there is a cartoon character holding a document titled 'Declaration, July 11th 1776' and a large historical document.

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

The image shows a news article snippet about Peer2Peer University and University of the People. It features a photo of Neeru Paharia and a quote from 'Technology Review' magazine. The article discusses how web-savvy edupunks are transforming American higher education.

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


The image shows a screenshot of the SparkNotes website. The page features a header with the SparkNotes logo and navigation links. Below the header, there are several study guides and a prominent badge that says '40 MILLION'.

Open Access Journals

New Journals, Free Online, Let Scholars Speak Out, Chronicle of Higher Education, By Peter Schmidt, Feb 14, 2010
<http://chronicle.com/article/Open-Access-Journals-Break/64143/?id=at>

A Single Group Helps Trigger an Online-Publishing Explosion



The Public Knowledge Project, a nonprofit group, estimates that the online-publishing software it offers free has given rise to more than 5,000 open-access academic journals around the world. Below is their geographic distribution, by continent, as of last month.





Open Journal Systems

New Journals, Free Online, Let Scholars Speak Out, Chronicle of Higher Education, By Peter Schmidt, February 14, 2010
<http://chronicle.com/article/Open-Access-Journals-Break/64143/?id=at>

John Willinsky, an education professor at Stanford U. (shown here visiting the U. of Oxford), offers free journal-publishing software to academics around the world. The program is being used to produce more than 5,000 online journals, he estimates, about half of them in developing countries.



Elliott Masie, Learning Trends, March 2, 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, capture conference keynotes, flipcams, etc.

How about rich video portals?


Most of the Websites below did not exist 5 or 10 years ago.

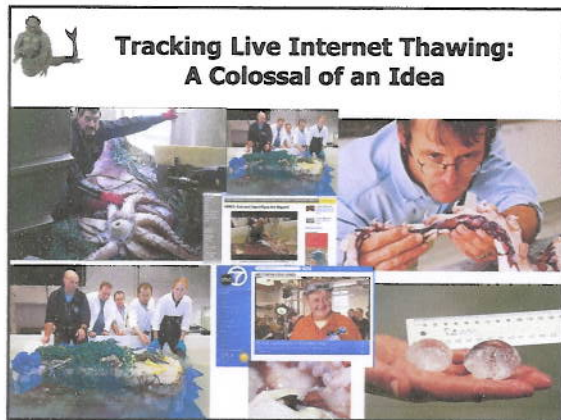
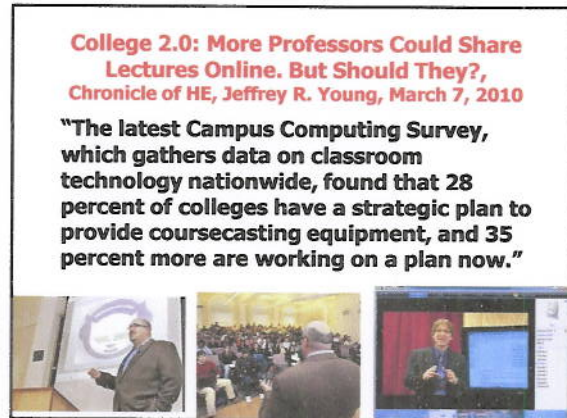
1. BBC News Video and Audio
2. CNN.com Video
3. MSNBC.com
4. Google Video, Yahoo Video
5. Current TV
6. Fora TV
7. MIT World
8. YouTube, YouTube Edu
9. TeacherTube
10. Link TV, Explore, Global Pulse, Latin Pulse
11. Howcast, Big Think, WonderHowTo, ExproTV, NASA TV, ClipChef, TV Lesson, BookTV, Edutopia videos, MonkeySee, doFlick, the Research Channel, Videosong

Link TV



Link TV: Global Link of World Educators (GLOWE)





The Complete Works of Charles Darwin

The Complete Works of Charles Darwin Online
 (2003-2005) - 2003-2005 - 2003-2005

Contributors and Acknowledgements

Contributors

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ARC Co-Investigator: Professor Janet Sison (Department of the History of The Natural University)

Associate Editors (Project):

Dr. David Clouston
 Co-ordinators of Publications
 Dr. Robert Ross

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)

The Royal Society 350th anniversary celebrations puts historic papers online (Captain Cook, Sir Isaac Newton and Benjamin Franklin), BBC, Nov 30, 2009

<http://news.bbc.co.uk/2/hi/science/nature/8381425.stm>

Audio slideshow: 350 years of discovery

The world's oldest scientific society, The Royal Society in London, is marking its 350th anniversary celebrations by putting the public's historic papers online for some of its most influential papers.

Significant papers include Robert Boyle's 'The Nature of Fire' and Benjamin Franklin's 'The Lightning Rod'.

Human Brain Dissected Today in a Live Webcast, Chronicle of Higher Education, December 02, 2009, 01:00 PM ET

http://chronicle.com/BlogPost/Human-Brain-Dissected-Today-in/2009/12/02?cid=prmb&utm_source=prmb&utm_medium=em

THE CHRONICLE of Higher Education

December 2, 2009

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Tweet

Human Brain Dissected Today in a Live Webcast

In 1955, Henry Cotton Molester agreed to undergo an experimental brain surgery in hopes of erasing the epileptic seizures and memories that had plagued him since age six. The neurosurgeon William Beecher Stovall, at Stanford Hospital in Connecticut, watched out most of Molester's hippocampus.

"The patient barely stopped," writes Scott Laven in the *Los Angeles Times* Tribune, "but as he did Molester's ability to form new memories, though he could recall parts of his life before the surgery, a condition called severe amnesia set in."

Sharing Repositories and Referatories

MERLOT.org: 78,472 members, 21,690 Inrg materials, Jan 3, 2010

Connexions: Dec 2009, 1.6m 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)

The Learning World is Open

A bit of me...

this is me...

flatworld KNOWLEDGE

Wikis: Wikipedia and Wikibooks

The image shows the Wikipedia homepage with a central globe and various language links. The text 'WIKIPEDIA' is prominently displayed at the top. Below the globe, there are links for different languages such as English, Deutsch, Français, Italiano, and others. The page also features a search bar and navigation links.

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

The image displays a Ustream conference interface. It features a grid of video feeds showing different participants and presentations. The interface includes a search bar, navigation tabs, and a list of active streams. The text 'LSTREAM' is visible in the top right corner.

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

The image shows a YouTube channel page for 'THE ROYAL CHANNEL'. The page features a video player with the title 'The Queen visits Google London'. The video player shows a scene with the Queen and other individuals. The YouTube logo and navigation buttons are visible at the top.

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

The image displays a Current TV video player interface. The video shows a classroom scene with students and a teacher. The interface includes a video player, a search bar, and navigation tabs. The text 'VIEWER-CREATED CONTENT' is visible in the top right corner.

Participatory E-Books

The image shows a collection of digital content, including e-books and interactive documents. The titles 'THE FUTURE OF THE INTERNET AND HOW TO STOP IT' by Jonathan Zittrain and 'OPENING UP EDUCATION' are visible. The content is presented in a grid-like format with various images and text.

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

The image shows the Scribd website interface. The page features a search bar, navigation tabs, and a list of documents. The text 'Scribd' is prominently displayed at the top. Below the website screenshot, there is a photo of two people standing in front of a Scribd banner.

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

The Learning World is Open

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)

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

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/sj/afp/20090308/bs_afp/indiaeconmytelecom

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

TwitterPeek:
Restricted to Twitter.

WikiReader:
Updating can be a pain.

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

The Learning World is Open

September 30, 2009
the Samsung DualView TL225

Podcast Shows
(subscribe to ShakespeareCast.com)

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

- HH4 - By Shakespeare's First Directory O
- HH3 - Your Father Lost a Father
- HH2 - A Documentary In Madness
- Hamlet's Head #001
- Intermission
- R&J Act 3 Scene 1
- Romeo and Juliet - Act 2
- MSND Act 1 Scene 1
- R&J Act 2 Scene 6
- R&J Act 2 Scene 5
- R&J Act 2 Scene 4
- R&J Act 2 Scene 3
- R&J Act 2 Scene 2

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

SOCIAL NETWORKING
Top social networking sites
Total users: 48.9 million (from Nov. 2008, not college)

Facebook.com	92.2 million
MySpace.com	64.7 million
Twitter.com	20.8 million
Orkut.com	17.4 million
Chatterbox.com	15.8 million
Bebo.com	12.1 million
MyLife.com	11.4 million
Windows Live Profile	10.3 million

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

August '08	65.6%
August '09	77%

Teaching With Twitter
Chronicle of HE, Jeffrey Young, November 22, 2009
Sugato Chakravarty, 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 Hotseat for the professor and guest speakers are projected for all the students to see.

Learn Spanish on Your Terms! Sign Up Now!

Learn Italian on Your Terms! Sign Up Now!

Learn Russian on Your Terms! Sign Up Now!

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

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

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

- 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!!!