

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

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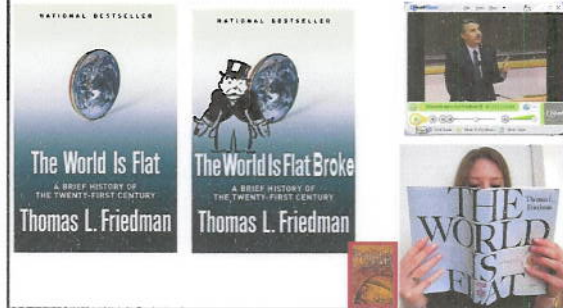
Where are you headed?



Do you know the shape of the world?



Is the World Flat?



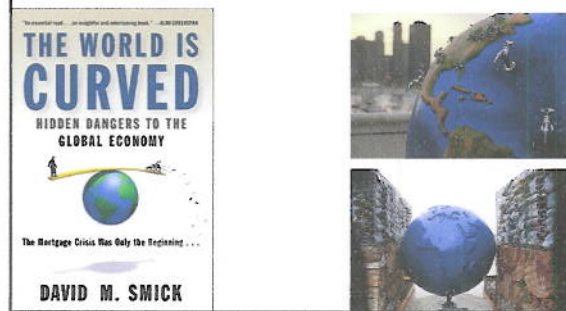
The Ten Forces that Flattened the World

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.RichardFlorida.com

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 D.J. Wiley Walker

Foreword by John Seely Brown

The Complete Text (PDF version) is \$5.000

Download Chapter Download PDF (243 KB)

Foreword: Creating a Culture of Learning

Download Chapter Download PDF (243 KB)

Introduction: An Invitation to Open Up the Future of Education

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Section 1: Open Educational Technology

Download Chapter Download PDF (272 KB)

Section 2: Open Educational Technology: "Tentative Approaches"

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OPENING UP EDUCATION

The Collective Advancement of Education Through Open Technology, Open Content, and Open Knowledge

Edited by Tony Bates and D.J. Wiley Walker

Not open for everyone!

World Internet Penetration Rates by Geographic Regions

Region	Penetration Rate
North America	74%
Europe	64%
Latin America	24%
Asia	17%
Middle East	1%
Africa	0%
Oceania / Australia	0%

World Internet Users by World Regions

Region	Percentage
Asia	39.3%
Europe	17.3%
North America	13.5%
Latin America / Caribbean	1.3%
Africa	0.3%
Middle East	0.3%
Oceania / Australia	0.3%

Source: Internet World Stats - www.internetworldstats.com/stats.htm
 1,463,632,361 Internet users for June 30, 2008
 Copyright © 2008, Miniwatts Marketing Group



Oregon Scientific "Smartglobe"

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!

The Web of Learning

The Explosion of the Web 2.0

We are entering a jumping off point...

Web 2.0 Elements of the Web's Next Generation

Personalized Learning Environments (Stephen Downes and others)

We are entering an age of Digital Scholarship (George Siemens, 2008)

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

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



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



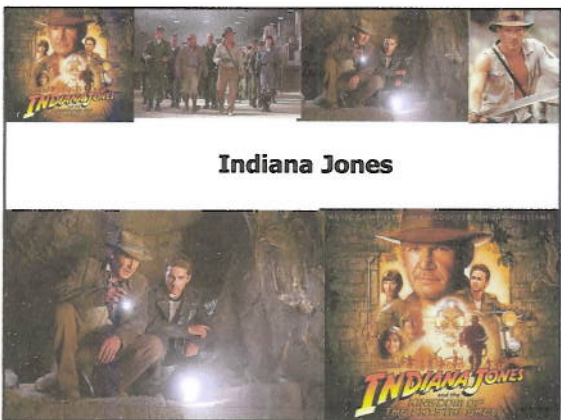
**Michael Perham & Zac Sunderland,
Summer 2009 (each age 17, youngest person to sail solo around
the world..and blog on it, use Skype, YouTube, take videos, post
pictures, now Abby Sunderland age 16, Minoru Saito, age 75,
oldest solo sailor)**



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



Indiana Jones

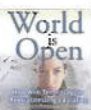


- Perhaps those learning online are akin to the alien archaeologists in the 2008 movie, *Indiana Jones and the Kingdom of the Crystal Skull*. We are seeking the knowledge nuggets of our planetary past and present. As Indy said, **"Their treasure wasn't gold, it was knowledge. Knowledge was their treasure."** 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**ead-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.)



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.




Blio: Kurzweil Reinvents the Book
 Charlie Sorrel, Dec 29, 2009, Wired
<http://www.wired.com/gadgetlab/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.athabasca.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

OPRAH.COM
NEW EARTH WEB EVENT
More in the Classroom
Post-it Plus
Purina
Chevy

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

<http://www.gatesfoundation.org/annual-letter/2010/Pages/education-learning-online.aspx>

BILL & MELINDA GATES Foundation
ALL LIVES HAVE EQUAL VALUE
2010 Annual Letter from Bill Gates: Online Learning

North Carolina Virtual Public School

<http://sites.google.com/site/ncvpsqolive/get-the-virtual-advantage>

Get the Virtual Advantage
Academic Year Enrollment History
Average Growth = 75.82%

Academic Year	Total Enrolled
2006-2007	~5000
2007-2008	~10000
2008-2009	~15000
2009-2010	~20000

Indiana University High School

(4,000 students and 1,400 enrolled in diploma programs)

Indiana University High School
roam
High School
Katieji
Zachary

Adora Svitak, age 12, World's Youngest Teacher

Adora's Blog

A Grain of Rice: A Bloomington man's computer vocab game feeding the world

Rice
For each answer you get right, we donate 10 grains of rice through the UN World Food Program to help end hunger.

The country was Cafe d'Zaire
This country is:
Thailand
Malaysia
Indonesia
Vietnam

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: UIS Post News Service, including US State News 1 Article date: February 21, 2009 | [Contact Us](#)

TRANSFORMING LEARNING AT UCO
January 7, 2009
By: Ann O'Brien

Transformative Learning Outcomes and Goals

At the University of Central Oklahoma, we are guided by the mission of helping students learn by providing transformative experiences so they can become productive, creative, ethical and engaged citizens and leaders 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

Course Type	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	~45%	~10%	~45%
Fall 2003	~50%	~10%	~40%
Fall 2004	~55%	~10%	~35%
Fall 2005	~55%	~10%	~35%
Fall 2006	~55%	~10%	~35%
Fall 2007	~55%	~10%	~35%
Fall 2009	~55%	~10%	~35%

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%	58.2%	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%	63.3%	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

Research Institute for Learning Effectiveness

Online Learning: Univ of Central Florida

Educause Learning Initiatives (ELI) Conference, Jan 2010, Austin

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)

Moodle sites

Moodle downloads

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

The Learning World is Open

Open Yale

MIT OPEN COURSEWARE

Exc. Traditional Textbooks

We Remix Open Textbooks!

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)

OpenCourseWare (OCW)

Cute Kitten or Transformation?

Opensource Opencourseware Prototype System (OOPS)

funded by, the Foundation of Fantasy, Lucifer Chu, Chairman and Janitor of OOPS, Taipei)

The Biggest OGW Localization Volunteer Group in the World

Sample OpenCourseWare Projects

(Tufts, Johns Hopkins)

Indian Institutes of Technology (IIT)

National Repository for Online Courses (NROC) Commons

The screenshot shows the NROC Commons website. At the top, there's a search bar and navigation links. Below, there's a section titled 'Welcome to a worldwide learning network' and another section '130,000+ Popular Course and Pathway Assets'. The interface is clean and professional, with a focus on providing access to a large collection of educational resources.

Cape Town Open Education Declaration, Dec 2007

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

The screenshot displays the Cape Town Open Education Declaration website. It features a prominent cartoon character holding a sign that says 'Declaration, July 4th 1776'. The website layout includes a header with the title and URL, followed by a main content area with text and a sidebar with additional information.

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

Israeli Edupreneur Plans a Free Global University That Will Be Online Only

This block is a collage of images and text. On the left, there's a photo of a woman walking. In the center, there's a portrait of Neeru Paharia. On the right, there's a screenshot of a news article titled 'Israeli Edupreneur Plans a Free Global University That Will Be Online Only'. The overall theme is about innovative, free online education models.

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

The Learning World is Open

The screenshot shows the SparkNotes website. It features a search bar at the top and a grid of study guides for various subjects like Shakespeare, English, and History. A large yellow box on the right side of the page says '40 MILLION STUDENT VISITS'. The website is designed to be user-friendly and easy to navigate.

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/?sid=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.

Continent	Number of Journals
North America	1,263
Europe	828
Africa	422
South America	1,877
Oceania	196

The map shows a significant concentration of journals in North America and South America, with Europe and Oceania also having a notable number. Africa has a smaller but growing number of journals.

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/?sid=at>

The screenshot shows the Open Journal Systems (OJS) software interface. It features a user dashboard with various options and a list of journals. The interface is modern and professional, designed to facilitate the creation and management of open-access journals.

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.

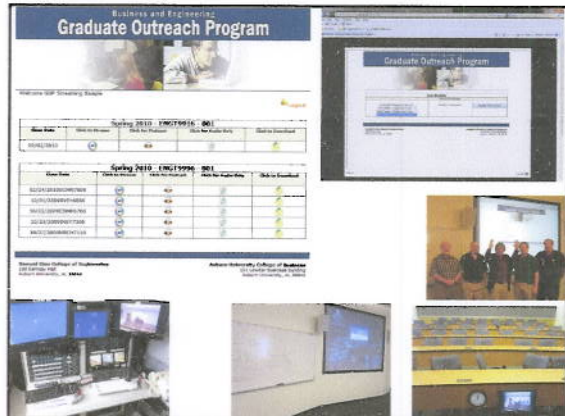
How about rich video portals?
Most of the Websites below did not exist 5 or 10 years ago.

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, Explo.TV, NASA TV, ClipChef, TV Lesson, BookTV, Edutopia videos, MonkeySee, doFlick, the Research Channel, iVideosong



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

"The latest Campus Computing Survey, which gathers data on classroom technology nationwide, found that 28 percent of colleges have a strategic plan to provide coursecasting equipment, and 35 percent more are working on a plan now."

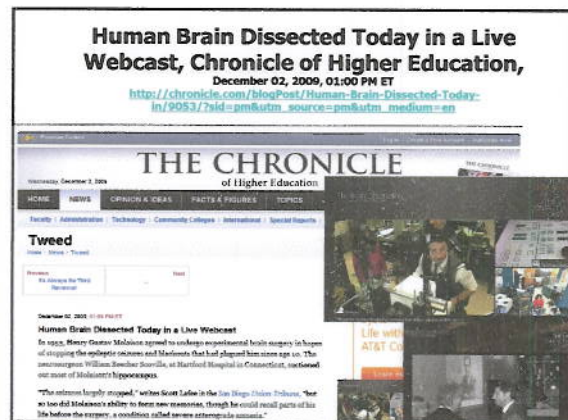
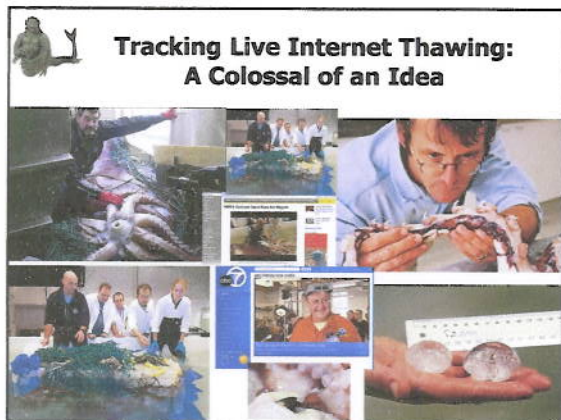


Academic Earth and Fora TV



Big Think





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

Wikis: Wikipedia and Wikibooks

WIKIPEDIA

English The Free Encyclopedia 2,468,881 articles
 Deutsch Die freie Enzyklopädie 77,969 Artikel
 Français L'encyclopédie libre 102,000 articles
 日本語 自由百科事典 10,000 記事
 中文 自由百科全書 100,000 條目
 Nederlands De vrije encyclopedie 100,000 artikelen
 Español La enciclopedia libre 100,000 artículos
 Deutsch Die freie Enzyklopädie 77,969 Artikel
 Polski Włona encyklopedia 87,000 artykuł
 Italiano L'Enciclopedia libera 47,000 voci
 Português A enciclopédia livre 41,000 artigos
 中文 自由百科全書 100,000 條目
 Pycckий Свободная энциклопедия 100,000 статей

How Today's College Students Use Wikipedia for Course-related Research, First Monday, Volume 15, Number 3 - 1 March 2010, by Alison J. Head and Michael B. Eisenberg.

Reason	Percentage
Check a summary	87%
Get oriented on assignment	87%
Interface is easy to use	87%
Find the meaning of terms	87%
Comparative explanations	87%
Citations at bottom of entry	87%
Figure out search terms	87%
Current, up-to-date entries	87%
More available than other Web sites	87%
Peer-created sources	87%

Figure 2: Why do students use Wikipedia for course-related research?

Reasons used for citation	Frequency	Percentage
1. Current entries	1,260	67%
2. Official U.S. for finding sites	1,260	67%
3. Authority sources in disciplines	1,260	67%
4. Official Public Access Catalogs	1,260	67%
5. Wikipedia	1,260	67%
6. Wikipedia	1,260	67%
7. Government Web sites	1,260	67%
8. Consumer	1,260	67%
9. Academic journals	1,260	67%
10. Library databases	1,260	67%
11. Informational print sources	1,260	67%
12. Print	1,260	67%
13. Other search engines (e.g., Ask, Google)	1,260	67%
14. Libraries	1,260	67%
15. Book	1,260	67%

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)

Programmers become Filmographers
 (e.g., African School Dream in Current TV)
http://current.com/items/77146082_african_school_dream

Participatory E-Books

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

Opener #7. Electronic Collaboration and Interaction
 (synchronous & asynchronous)


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

Synchronous Conferencing Presentations

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

October 21, 2009


The Next Generation of Videoconferencing



Footage courtesy of
IPCL Institute for Creative Technologies

Researchers at the University of Southern California and the University of North Carolina at Chapel Hill are creating new tools that may soon let people attend videoconferences as

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



Global SchoolNet

<http://www.globalschoolnet.org/index.cfm?section=Programs>




GlobalSchoolNet.org
Linking Kids Around the World

Home Programs Calendar News Get Help Contact Us Sign Up

Friday, November 13, 2009

Our Mission
Global SchoolNet's mission is to support 21st century learning and improve academic performance through online student collaboration. We engage teachers and e-learners in meaningful cross-learning exchanges worldwide to develop specific, useful, transferable and communication skills. Further, we seek to build a global network of students, teachers and parents and create multi-cultural relationships.


Ice Stories Project from Antarctica



1kg More Project for Rural China (<http://www.1kg.org/>)



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



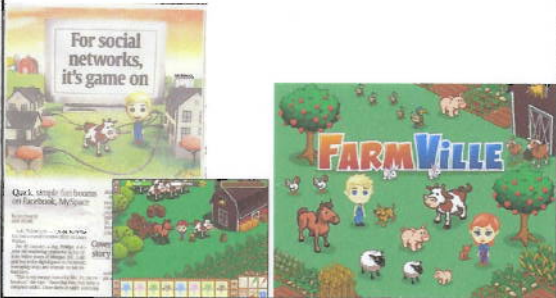
Second Life (business, law, education, English, medicine)



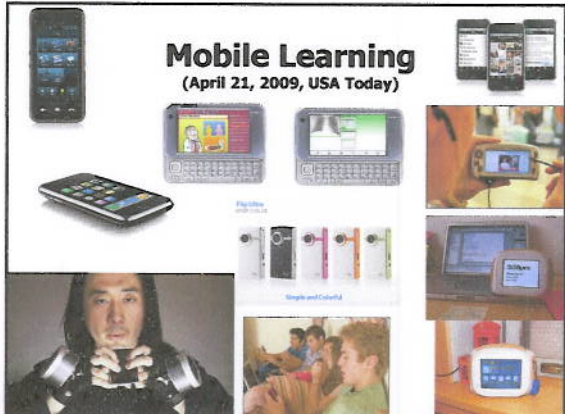
Opener #9. Real-Time Mobility and Portability (e.g., iPhone, low cost wireless devices)



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/s/afp/20090308/afp_indiaeconomytelecom



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

The collage features several images: a man in a dark shirt presenting a device to a woman; a laptop with a Livescribe pen resting on it; a close-up of the Livescribe pen with the text 'NEVER MISS A WORD'; and a hand holding a small, black, cylindrical thumb drive.

TwitterPeek, WikiReader not worth the loot, USA Today, Edward Baig, November 5, 2009

The collage includes images of a TwitterPeek device (a small screen with a keyboard), a WikiReader device (a small screen with a keyboard), and a hand holding a device. Text overlays include 'TwitterPeek: Restricted to Twitter.' and 'WikiReader: Updating can be a pain.'

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

The collage shows various scenes: children in a classroom, a laptop, and a person using a laptop. It includes a screenshot of a YouTube video titled 'One Laptop Per Child' and a photo of a person using a laptop.

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

The Learning World is Open

The collage features a Samsung DualView TL225 camera, a person using a laptop, and a cartoon character. Text includes 'September 30, 2009 the Samsung DualView TL225'.

Podcast Shows (subscribe to ShakespeareCast.com)

The collage shows a podcast player interface and a list of podcast episodes. The list includes: 'HH4 - By Indirections: Find Directors...', 'HH2 - 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', 'M&ND Act 1 Scene 1', 'R&J Act 2 Scene 5', 'R&J Act 2 Scene 3', 'R&J Act 2 Scene 4', 'R&J Act 2 Scene 3', and 'R&J Act 2 Scene 2'.

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

The collage includes a Facebook profile, a bar chart of social networking sites, and a pie chart showing growth of social networking sites. The bar chart lists: Facebook.com (52.2 million), MySpace.com (41.2 million), Twitter.com (24.8 million), Digg.com (17.4 million), Classroom.com sites (12.3 million), Bebo.com (12.1 million), MyA.com site (11.4 million), Myspace Live Profile (10.3 million). The pie chart shows growth from 65.6% in August '08 to 77% in August '09.

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 HotBot for the professor and guest speakers are projected for all the students to see.

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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

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