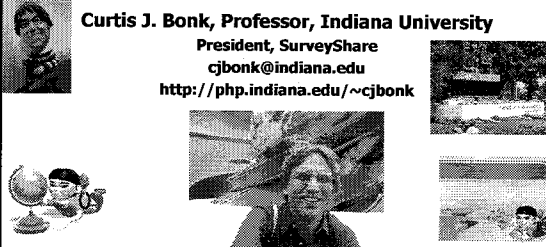
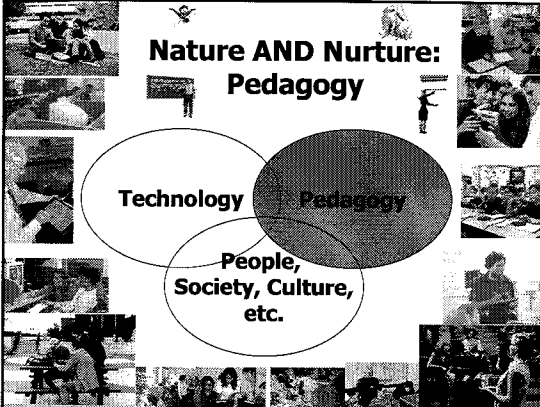


**How the Learning World Became Flat:
Ten Knowledge Sharing and Technology
Trends Equalizing Access to Learning**

Curtis J. Bank, Professor, Indiana University
President, SurveyShare
cjbonk@indiana.edu
<http://php.indiana.edu/~cjbonk>



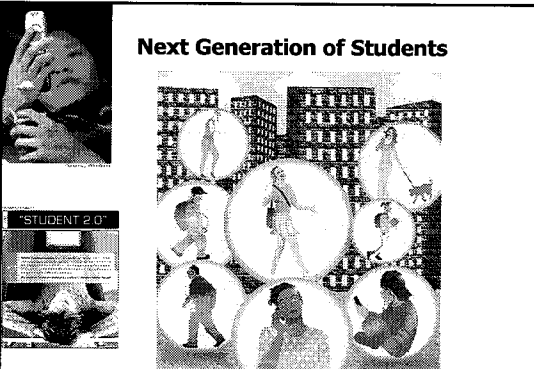
**Nature AND Nurture:
Pedagogy**



**Monday April 30, 2007, USA Today
Top 25 Things that Shaped the Internet**

- 747 Million adults logged on in Jan, 2007
- 97 billion e-mails are sent each day
- Google had 500 million visitors in Dec, 2006
- USA: 1% broadband in 1998; 78% in 2007
- YouTube bought by Google for \$1.7 billion
- Adobe's Flash player on 98% of machines
- There are 75 million blogs!!!
- 19 million people play MMOG!
- 173 million personalized pages in MySpace

Next Generation of Students



Tech Creates Bubble for Kids
Alejandro Gonzalez, USA TODAY, Updated 6/20/2006 10:34 AM ET

INFORMATION TECHNOLOGY

*E-Mail is far
Old People*



Yahoo News
Love me, love my blog," as Netorati couple-surf
BY SARA LEDWITH Thu Aug 3, 8:30 AM ET

- Nick Currie and his girlfriend Shizu Yuasa (R) surf the internet over breakfast in Tokyo in this handout photo. As the Internet evolves -- with its webcams, iPods, Instant Messaging, broadband, wi-fi and weblogs -- its image as a relationship-wrecker is changing. Now a sociable habit is emerging among the Netorati: couple-surfing. (Nick Currie/Handout/Reuters)
- "For my birthday, he upgraded my RAM and I thought it was incredibly romantic," writes Jess.

Effects of interactive multimedia in distance learning

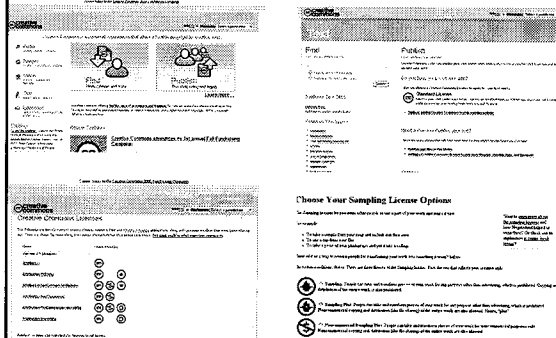
Giti Javidi and Ehsan Sheybani, 2004, In Proceedings of the IASTED International Conference WEB-BASED EDUCATION

"The advancement in technology is shaping every aspect of our life, including education. One decade ago, the Internet was not critical to education. However, now, it has become an integral part of learning process. Internet technology is having a dramatic effect on colleges and universities, producing what may be the most challenging period in the history of higher education."

Do You Share?

1. Who has shared music in an iPod or MP3?
2. Who has used collab software? (Google Groups, Yahoo Groups, Sharepoint)
3. Who has used online phone services such as Skype or Google Talk?
4. Who has assigned teams online?
5. Who has embedded international exchanges or expert guests?
6. Who has used MERLOT, Connexions, or the MIT open courses?
7. Who has used Wikipedia?

Creative Commons



Most are Scared to Share!!!



- Thomas Friedman, author of "The World is Flat":
- Tools for collaboration are changing the world
- <http://mitworld.mit.edu/video/266/>

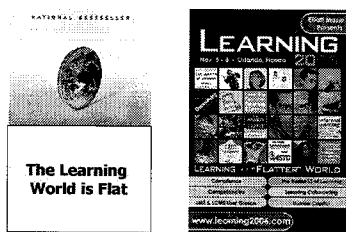


The Ten Forces that Flattened the World

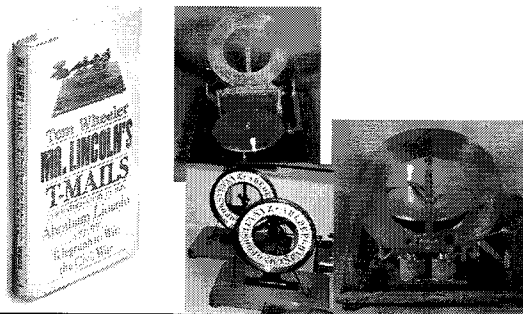
1. 11/9/89: Berlin Wall came down
2. 8/9/95: Netscape went public
3. Work Flow Software (e.g., PayPal and eBay)
4. Open-Sourcing (Self organizing collaborative communities; Mosaic, Apache, Wikipedia, Linux, Mozilla/Firefox,)
5. Outsourcing (Y2K)
6. Offshoring (e.g., China, Mexico, Thailand)
7. Supply-Chaining (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 (e.g., wireless, file sharing, VoIP, video camera in phone)



The Learning World has become Flat!



Telegraph: Flattening the world in 1860



Blogging now begins young

Eighth-grade students Taylor Bernholtz, left, Amy Lostroh and Kelsey Cardiff check out a weblog discussion related to the Civil War historical-fiction book 'Guerrilla Season' At South Valley Junior High School in Liberty, Mo. (Blogging now begins young USA Today, By Ashley Bleimes, USA TODAY, November 15, 2006, 12D). http://www.usatoday.com/life/2006-11-14-blogs-education_x.htm

WE-ALL-LEARN:

Ten Forces that Opened the Learning World

- Web Searching in the World of e-Books (i.e., Darwin)
- Enormous 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)

Three Larger Trends of WE-ALL-LEARN

- The availability of tools and infrastructure for learning.
- The availability of free educational content and resources (OER—Open Educational Resources).
- A move towards a culture of open access to information, international collaboration, and global sharing.

The Ten Forces that Flattened the World

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



The Search is on!

Jeff Men on TED Talk

Jeff Men on TED Talk

Google and Other Search Engines (Sergey Brin, Co-Founder)

OPEN Content Alliance

Building a digital archive of educational content

The University of Illinois Chicago announced the availability of a peer-reviewed collection of eBooks in open access through the Open Content Alliance, which is displayed on the University Library's website as the first part of a digital archive of eBooks from various publishers, with the first set of books displayed at the top of the page.

From the page: [January 15, 2007](#)

The University of Illinois Library is pleased to have joined a project to make available to the public a collection of eBooks from the Open Content Alliance. The first volume, one of the best general works available, is the English translation of the works of the author, which includes factors previously not fully translated, especially as it relates to the English language and the French language. For example, the English language is the first of the 11 volumes available in French.

Digital Books

By Kim Rahn, March 7, 2007, Digital Textbook to Debut Next Year, The Korea Times

- Students will be able to interact with teachers regardless of time and space and study according to their ability through computers as the nation plans to adopt the digital textbook.
- provides the multi-functionality of textbook, workbook, exercise book and dictionary.
- The digital textbook...can go beyond conventional paper textbooks by using such features as video clips, animation and virtual reality.

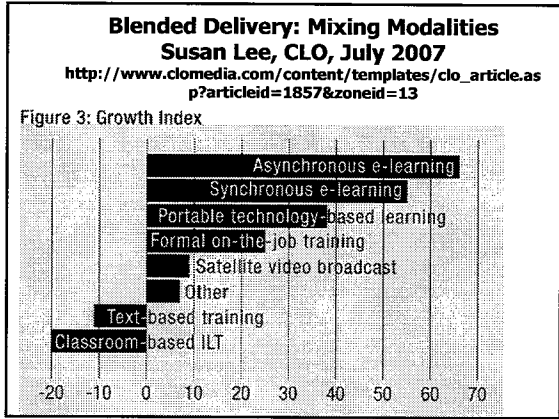
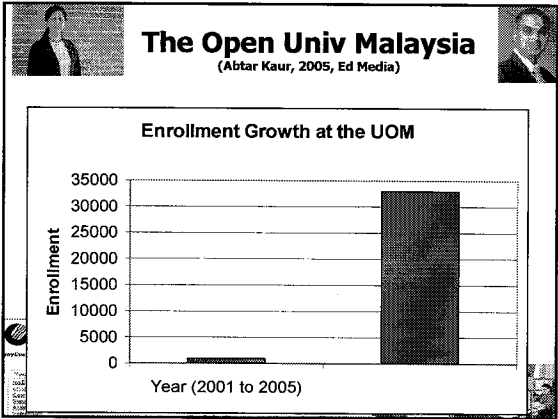
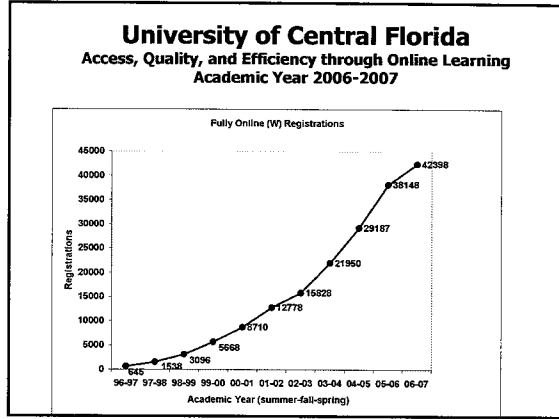
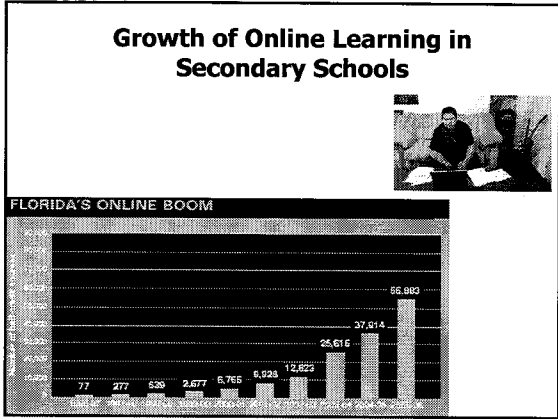
New Forms of Digital Literacy

Advanced
Upper-level coursework More challenging

The Ten Forces that Flattened the World

2. Enormous E-Learning and Blended Learning

The Learning World is Flat



The Ten Forces that Flattened the World

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

The Learning World is Flat

1. eduCommons

[View eduCommons in Action](#) [Download the Source Code](#) [View the Ask@eduCommons](#)

eduCommons is an OpenCourseWare Management System designed specifically to support OpenCourseWare projects like MIT.OCW and UCL.OCW. eduCommons provides the functionality necessary to successfully develop and manage an open access collection, including a workflow process that steps users through uploading materials into a repository, tracking copyright clearance, assembly of materials into courses, a quality assurance process, and final publication of the materials. This is the front end of eduCommons. It is designed to closely align with other OCW's, the back end architecture is actually closer to something like CourseWorks - all resources are stored as individual learning objects in order to facilitate easy reuse downstream. eduCommons is open source software available from SourceForge.

eduCommons is generously funded by The William and Flora Hewlett Foundation and the National Science Foundation.

Per David Wiley, Utah State University
(October 2005)

"This is a message that should probably get out, also - not only is this movement worldwide and gaining momentum every day, it is also becoming a key part of international strategy to achieve equitable access to education for people everywhere."

The Biggest OCW Localization Volunteer Group in the World



OOPS! Opensource Opencourseware Prototype System
The Foundation of Fantasy Culture and Arts

What's their Beliefs? (Chu, Jan 1, 2007)

- Collective Minds is better than a single genius translator.
- Perfect Translation doesn't exist.
- 2,012 Volunteer translators
1,125 courses adopted
639 courses near completion (level 1)
- 126 courses already finished

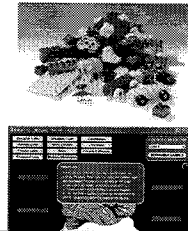
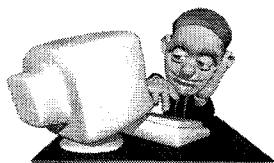


Lucifer Chu, Chairman and Janitor of OOPS, Taiwan

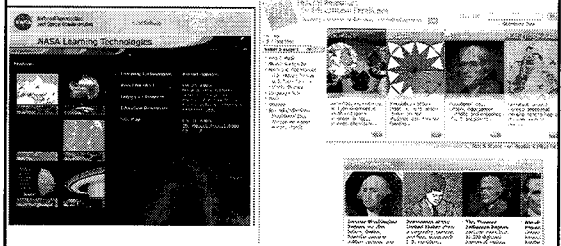


The Ten Forces that Flattened the World


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



Free Government Resources!

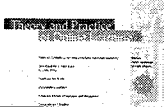


**Terry Anderson, Athabasca University
(October 2005)**




"Our Creative Commons licensed book Theory and Practice of Online Learning has been downloaded over 55,000 times (full text) and more by individual chapters. Parts have been translated into 6 languages and we are nearly sold out the 500 copies we printed at \$50 a pop. So it is quite a success story."

- Anderson, Terry & Fathi Elloumi (Eds). (2004). Theory and practice of online learning. Canada: Athabasca University. http://cde.athabascau.ca/online_book/



Public Library of Science




Announcing PLOS Clinical Trials, Publishing Spring 2006. The Public Library of Science (PLOS) is a world leading provider of freely accessible peer-reviewed online research, just keeps on growing. Today we announce PLOS Clinical Trials, an innovative new journal devoted to peer-reviewing and publishing reports of randomized clinical trials in all areas of health care. For more information, visit: www.plosclinicaltrials.org

PLOS Pathogens now featured. Freely accessible online. Launched on September 20, 2005, PLOS Pathogens is the latest addition to the PLOS family and includes the highly cited journal journal, PLOS Pathog. This journal content is available to read, copy, distribute and use without restrictions and at no cost. This is the true beauty of open access. The pathogen community has a new home—visit www.plospathogens.org today.

- October 18, 2005 - PLOS Announces Open Access Journal for All Clinical Trials, Positive or Negative
- August 19, 2005 - New Breakthrough of PLOS Pathogens
- July 24, 2005 - Announcing debut of PLOS Clinical


Museum of Online Museums



MUSEUM COMPUTER NETWORK
Museum Sites Online


Link to over 1,700 international museum and museum-related WWW sites.

A-Z-D-K-L-M



membership
conferences
resources
links
contacts
site map

A. MERLOT.org



Search Materials | About MERLOT | Search Results | Search History | Search Help

Home | Communities | Browse Materials | Contact Us | Feedback | Help

MERLOT Search Results: Materials

Your search on "found" returned 12402 Material Matches: Pages 1 - 10 shown

Physics (Undergrad) | Author: Wolfgang Christian | Editor: Robert Taylor | Published: 2004

Critics of Fort Sumner (Simulation) | Author: Richard J. Lister | Published: 2003

Music Acoustics (Collection) | Author: Eric Mazur

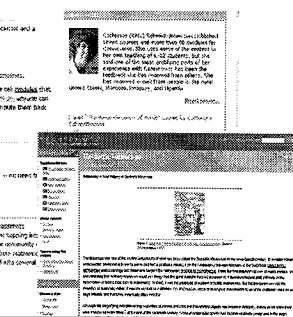
B. Connexions (Rice University)
<http://cnx.rice.edu/>

Connexions is a newly formed collection of free, openly accessible and a growing set of software tools for:

- authors to publish and collaborate
- instructors to publish and share content
- learners to explore the rich online content, courses, and materials
- the public to explore the rich online content, courses, and materials


Get started:

- Learn more about Connexions
- Take a tour
- Explore the Connexions and Connexions in the Open Commons - Access to All
- Contribute a module or add a course - Start your own



C. Global Education and Learning Community (GELC)
(Kirkpatrick, Dec 22, 2006, CNN Money)

- The Global Education and Learning Community (GELC) aims to bring the principles of open source to education. Scott McNealy, former CEO of Sun Microsystems, is working to create a free universal curriculum from Kindergarten to 12th grade in every major subject. Any educator/researcher can contribute and it will be in any language.





D. Google School Resources
such as Google Docs and Spreadsheets, an open alternative to Microsoft's Word and Excel

Google enrolls teachers in online software crusade

Dec 3, 2006, USA Today
Michael Liedtke, Associated Press
Google enrolls teachers to spread work online software crusade
Palo Alto High School journalism teacher Esther Wojcicki helps student Allison Wyndham at a computer during journalism class in Palo Alto, Calif. Wojcicki is helping Google bring its online suite of software applications to classrooms across the country

E. National Repository for Online Courses (NROC) Commons

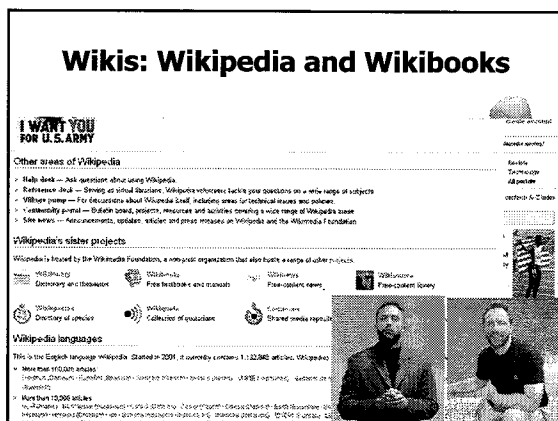
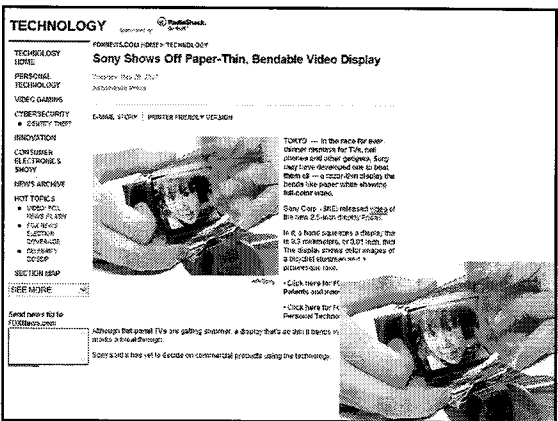
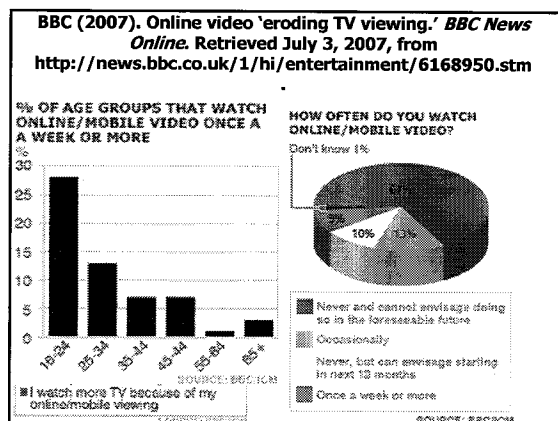
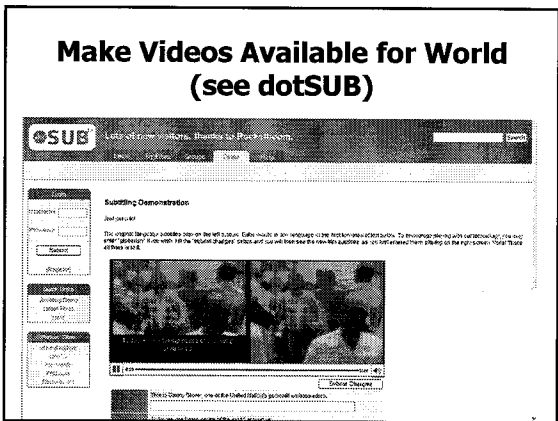
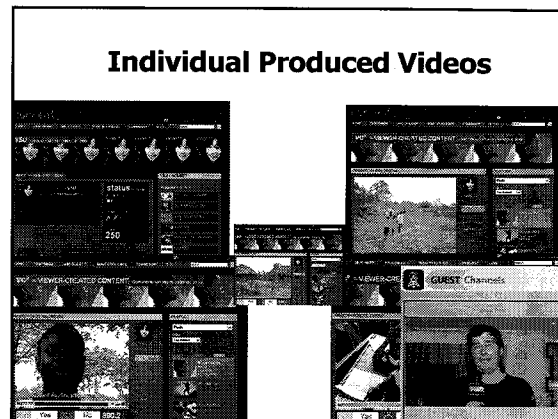
The Ten Forces that Flattened the World

6. Learner Participation in Open Information Communities (e.g., Slashdot, Digg, Wikipedia, YouTube)



Slashdot (News for nerds, stuff that matters)
<http://slashdot.org/>

Digg (all about user powered content. Everything is submitted and voted on by the Digg community. Share, discover, bookmark, and promote stuff) <http://digg.com/>



Wiki Questions

1. Who regularly reads Wikipedia articles just for fun?
2. Who regularly reads Wikibooks?
3. Who seeks Wikipedia for content?
4. Who has edited or written new articles on Wikipedia or Wikibooks?
5. Who thinks it is ok for college students to cite from Wikipedia?

U.S. senator: It's time to ban Wikipedia in schools, libraries

June 7, 2007

By Preston Gralla on Wed, 02/14/2007 - 7:08pm

ABOUT THIS BLOGGER
Here's the newest from Sen. Ted Stevens, the man who described the Internet as the "Great Wacko-land." [Preston Gralla](#), Preston Gralla is a contributor to *Entrepreneur*, and the author of more than 100 Windows Vista in 3 Minutes.

NEWS
The Senate is 7-6 split

NEWS
Fake professor in Wikipedia storm

NEWS
Belatedly, Britannica lambastes Wikipedia findings

Entrepreneur.com
Presents Technology Resources


http://uncyclopedia.org/wiki/Main_Page

UNNEWS

UnNews: Barney the Dinosaur responsible for death

30 May 2007

At 11:43 AM, Barney the Dinosaur collapsed in the arms of a crowd of 10. They threw all supplies into the air, including orange juice, water, paper, Kleenex, tissues, and a phone. The crowd of spectators has seen of the incident and today, an ambulance arrived. The ambulance, the truck, and the ambulance crew were all on the scene. Barney was taken to the hospital. The ambulance crew was the first to arrive at the scene. Barney was taken to the hospital. The ambulance crew was the first to arrive at the scene. Barney was taken to the hospital. The ambulance crew was the first to arrive at the scene.



Sample Book (Learning Theories)

http://en.wikibooks.org/wiki/Main_Page

Wikibooks

European History

Four Wikibooks, the open content textbook collection

The Wikibook was voted Book of the Month for June 2007

A Survey of Modern European History

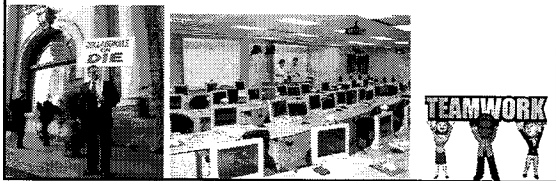
The project is an attempt at creating a survey of Modern European History starting at the Hundred Years War and ending at the present day.

Contents >>

The Ten Forces that Flattened the World

7. Electronic Collaboration and Interaction (synchronous and asynchronous)

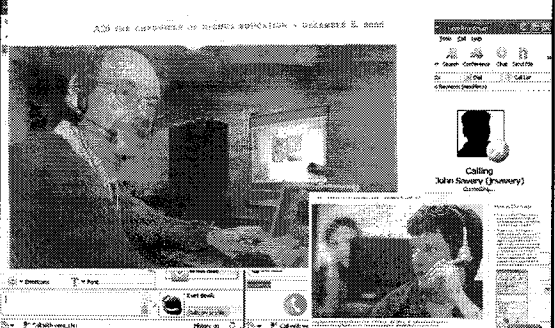
The Learning World is Flat



TEAMWORK

Skype says it is used by 136 million people worldwide

AD: THE CAPTURE OF HONOR BONDAGE - DECEMBER 8, 2006



Calling Julian Savory (University) cancelled

Online Mentoring

(1k More project in China; <http://www.1kg.org/>)

多管一公行是...

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The Ten Forces that Flattened the World

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

The Learning World is Flat

Virtual Worlds/Virtual Reality/MMOG

The Ten Forces that Flattened the World

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

Audacity

The Free, Cross-Platform Sound Editor

The Learning World is Flat

Singapore and Taipei (Intel Press Release, 2006)

- Singapore, the island city-state in Southeast Asia, is about to complete a major new public/private project that will see large chunks of the 270 square mile city provided with Wi-Fi access by the end of 2008. The entire city, indoors and out, is due to be covered by 2015.
- In the coldest capital in Canada, the city residents of Iqaluit (pop. 6,000) enjoy free wireless from one free hotspot (with two more due soon to cover the suburbs), while Taipei, Taiwan (pop. 2.6 million) has a few more—over 4,000 hotspots that provide coverage for 90 percent of the city.

\$100 Laptop

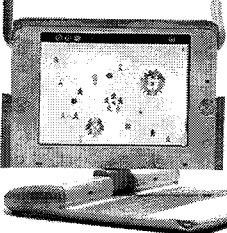
The project aims to build peer-to-peer communications

Negroponete says the new laptop is designed to be kid-friendly

OLPC aims to turn the tide of urban poverty

The CM1: Taking technology to the developing world
A revolution in a laptop
By Greg Norman
Sunday 13 August 2006, 18:49
Makka Time, 15:49 GMT

Computers for Peace By Grace Rubenstein GLEF



Fold-up antennas let XO laptops link with others up to 1/3 of a mile away and share an internet connection.

Screen swivels, closes, or lies flat for use as tablet, e-book, or game machine.

Using a Wi-Fi connection, groups of children can do activities together, such as share photos or compose and perform music.

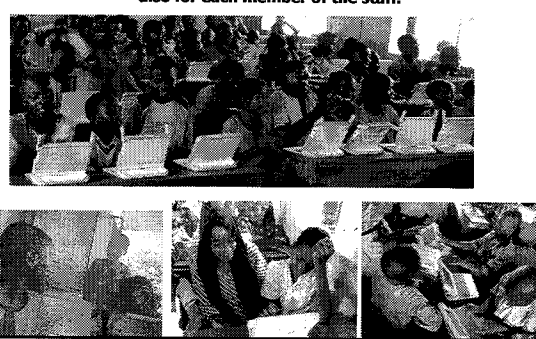
Super high-definition, 7.5 in. diagonal screen is easily visible in daylight; designed for outdoor use.

Uses 2 watts of power (1/10th average laptop); manually rechargeable.

Rugged keyboard resists dust and dirt and will be configured for the local language.

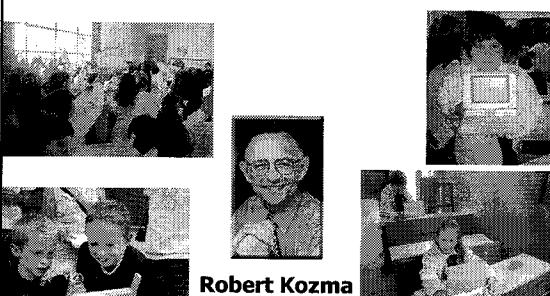
OLPC in Nigeria: School Galadima

One Laptop Per Child foundation (OLPC) provided School Galadima in March 2007 with an XO laptop for each child in Primary 4, 5 and 6 and also for each member of the staff.



Uruguay youngsters receive batch of OLPC XOs

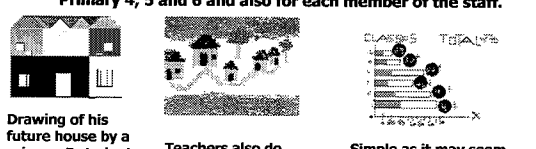
Posted May 14th 2007 3:34PM by Darren Murph
<http://www.engadget.com/2007/05/14/uruguay-youngsters-receive-batch-of-olpc-xos/>



Robert Kozma

OLPC in Nigeria: School Galadima

One Laptop Per Child foundation (OLPC) provided School Galadima in March 2007 with an XO laptop for each child in Primary 4, 5 and 6 and also for each member of the staff.



Drawing of his future house by a primary 5 student who wants to be a banker.

Teachers also do artistic work on their XO laptops, like this teacher's local scene.

Simple as it may seem, this graph is the result of a complex process: primary 6 worked together, made a census of themselves and of the whole school, and understood both population and mathematical graphing concepts.




Nakaseke community radio station

Nakaseke village telecenter

One Laptop Per Child News
<http://www.olpcnews.com/>

Nigerian school OLPC XO usage



DePauw University

The Ten Forces that Flattened the World

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








Podcast Questions

1. Who has listened to a podcast?
2. Who listens to a certain podcast on a regular basis?
3. Who has created a podcast?
4. Who has created a vodcast?
5. Who thinks podcasting is simply more talking heads?







iPod's More Popular than Beer?

iPods knock over beer mugs

Category	Beer	iPod
Age	33%	33%
Gender	70%	70%
Education	5%	27%
Income	40%	40%
Life expectancy	70%	60%

Entice Students with Technology Giveaways

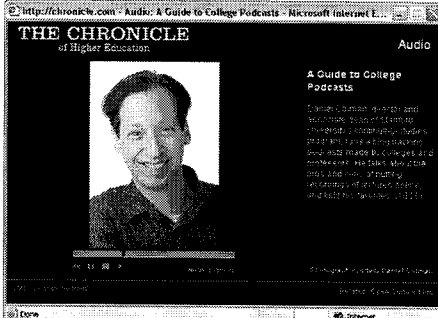





Gateway M275 tablet PC, Winona State University, Mayville State University. The schools will provide the tablet computers to full-time students who do not have laptops from previous programs.

BlackBerry 7510 PDA, University of Maryland. The school has begun handing out the wireless personal digital assistants to faculty and more than 200 full-time graduate students in the School of Business.

Consumer's Guide to College Podcasts

(Daniel Coleman, Stanford, Chronicle of Higher Ed, June 4, 2007)





One of Michelle Tanner's deaf students at Gerald Wright Elementary holds an iPod and watches a video of her signing the week's vocabulary words. The iPods were purchased with a grant from Qwest. Classrooms go high-tech. By Erin Stewart, Deseret Morning News, March 6, 2007

World Bridges and EdTechTalk

EdTechTalk #79 - A Discussion with Curtis Bank & Steve Kosakowski
 Length: 28:51 minutes (24.15 MB)
 Released: 07/15/2007
 July 15, 2007

A Discussion with Curtis Bank of Indiana University & Steve Kosakowski of OCCC. As former (OCCC) students and current members of the KnowledgeWorks Foundation, the guests discuss how education and learning institutions can adapt to the ever fast-paced pace of emerging technologies in our digital world.

Download mp3

Related links:
 • Curtis Bank
 • Curtis Bank's EdLearning 360
 • Podcast: The Web 2.0 and Participative Learning | EduBlog
 • Trends in Education

Steve Kosakowski

Student Podcast (in schools—kids have power!)

"Just the word 'podcast' scares a lot of teachers away," Ms. Schrock said. "There are a lot of misconceptions. "All you need is a computer, access to the Internet and a microphone that you can buy at Toys 'R' Us," Mr. Warlick said. "I listen to podcasts on my computer." (NY Times, Jan 25, 2006)

Podcast Learning TRENDS by Elliott Masie - September 18, 2006. #402 - Updates on Learning, Business & Technology. 52,889 Readers - <http://www.masie.com> - The MASIE Center.

LEARNING 2006 UNIVERSITY
 An Interview with Chad Wick, KnowledgeWorks Foundation
 October 2, 2006

Elliott Masie: Welcome to Learning 2006 University. This is Elliott Masie and today is October 2nd. I have the honor of speaking with Chad Wick, the President and CEO of KnowledgeWorks Foundation, Hialeah, Chad.

Chad Wick: Hi, Elliott.

Elliott Masie: You're going to get a chance to meet Chad at Learning 2006 in Orlando in November, and one of the reasons that I am really excited about the event this year is the book that you and the group at KnowledgeWorks Foundation and a number of other not-for-profit associations have done. We've been part of that as the Learning CONSORTIUM in taking a look at what's going to happen with education over the next decade.

Chad: In a little bit of a nutshell, why don't you describe the motivation behind this wonderful education map of the decade that you have laid?

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Learning with iPods (Campus Technology, Dec, 2006)

The screenshot shows a website layout with a central image of a person walking a dog. The page includes navigation menus at the top and a sidebar on the right with various links and search options.

Language Learning (ChinesePod—learn Mandarin)

Learn Mandarin on Your Terms

Podcast Archive

Podcast #115
 Released: 07/15/2007

Learn Chinese

Jenny Zhu

Developed by Dr. Tianwei Xie, Dept. of AAAS, California State University, Long Beach

Conversational Mandarin Chinese Online

by Tianwei Xie, 田天威

The hard copy of this book (new version) is available here. Traditional version | Simplified version.

Some typing errors were corrected in the new version.

Those who have purchased the previous version are encouraged to get a refund from their bookseller.

Click on the icons to download the audio files. The mp3 files are available here.

If you are a teacher, you can request a complimentary copy of the book.

Table of Contents

- The Introduction to Podcast
- Unit 1: My name, my address, my phone number
- Unit 2: My family
- Unit 3: My school
- Unit 4: My hobbies
- Unit 5: My travel plans
- Unit 6: My future plans
- Unit 7: My dreams
- Unit 8: My health
- Unit 9: My environment
- Unit 10: My culture
- Unit 11: My life
- Unit 12: My future

Vlogging (Video Blogging) e.g., Andy Calvin's Waste of Bandwidth Michael L. Wesch, Kansas State, The Machine is Using Us

Blogging Questions

1. Who has a blog? Any for a specific class?
2. Who regularly reads other people's blogs?
3. Who assigns blogging tasks?
4. Who has created a video blog?
5. Who thinks it is an utter waste of time to blog?

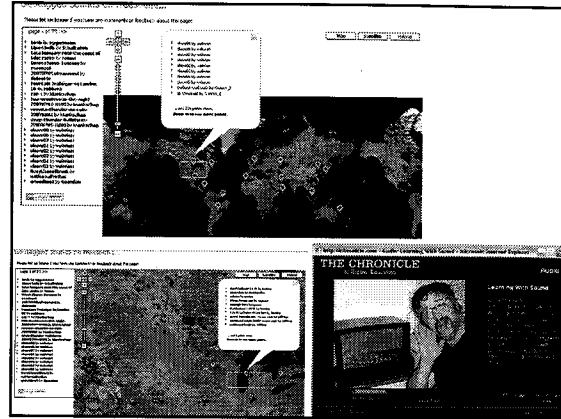
Online Photo Albums, e.g., FLICKR (Inc. Magazine, December 2006)

Social Networking Software

- Classmates: <http://www.classmates.com/>
- Facebook: <http://www.facebook.com/>
- Friendster: <http://www.friendster.com/>
- Friendzy: <http://www.friendzy.com/>
- MySpace: <http://www.myspace.com/>
- Orkut: <https://www.orkut.com/>
- Tribes: <http://www.tribe.net/>
- YouTube: <http://www.youtube.com/>

Social Networking Software (Web 2.0)

Flat School Projects!!!



Sharing Questions (today)

- For what purpose will people share?
- Who will continue to maintain or update such sites?
- Will online sharing become expected of all faculty members around the planet?
- How will copyright issues be addressed?
- What happens when one did not mean to share his or her course contents or ideas, or, at least, not as widely?
- How will such learning objects of today be viewed in 100 or 200 years?

Computers for Peace; By Grace Rubenstein; GLEF, Interview with Nicholas Negroponte, MIT

- In an ideal world, what is your single greatest hope for this project?
- A three-step hope: World peace *through* the elimination of poverty *through* education *through* learning. Education is the goal; learning is the means. A lot of learning can happen without teaching. We're banking on that.



It's Over...

Poll: Ok, then, who wants more???

A. Yes
B. No
C. Not sure

**The Learning is Flat!
The End (of Part I)!!!**