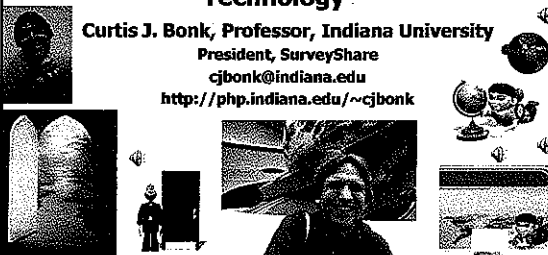


**Learning World Is Open:  
Now WE-ALL-LEARN with Web  
Technology**





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




## 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 collob 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)

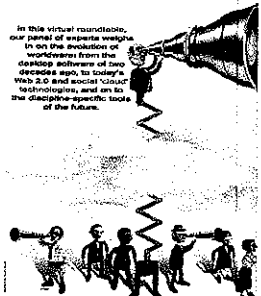





**Some people think it is out in the streets!**



**Some people think it is up in the clouds!**


In this virtual roundtable, our panel of experts weigh in on the evolution of workforces from the desktop software of two decades ago, to today's Web 2.0 and social "cloud" technologies, and on to the discipline-specific tools of the future.

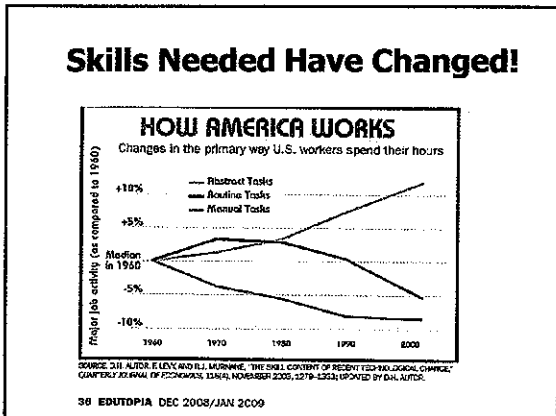
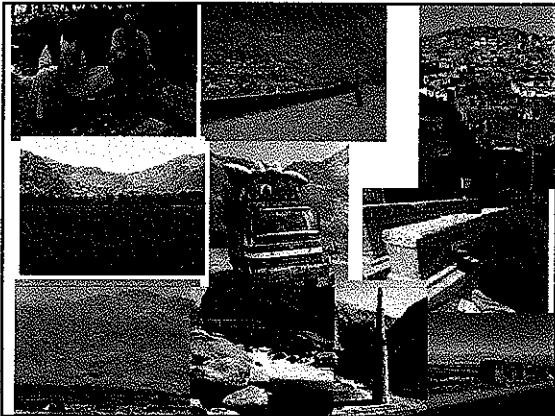


**Some think it is everywhere!**

# World Without Walls

How to teach when learning is everywhere. BY WIL RICHARDSON



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

**WE-ALL-LEARN:**

**Ten Forces that Opened the Learning World**

- Web Searching in the World of e-Books (i.e., Darwin)
- E-Learning and Blended Learning
- Availability of Open Source and Free Software (e.g., Moodle)
- Leveraged Resources and OpenCourseWare (e.g., MIT)
- Learning Object Repositories and Portals (i.e., shared content)
- Learner Participation in Open Info Communities (YouTube)
- Electronic Collaboration and Interaction (sync and async)
- Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- Real-Time Mobility and Portability (e.g., iPhone)
- Networks of Personalized Learning (Blogs, RSS)

THE LEARNING WORLD IS OPEN

THE WORLD IS FLAT

**The Ten Forces that Flattened the Learning World**

**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.

THE LEARNING WORLD IS OPEN

**4th P? Processing Speed**

Scientists develop fastest computer  
June 9, 2008, H. JOSEF HEBERT, AP

- To put the computer's speed in perspective, it has roughly the computing power of 100,000 of today's most powerful laptops stacked 1.5 miles high, according to IBM. Or, if each of the world's 6 billion people worked on hand-held computers for 24 hours a day, it would take them 46 years to do what the Roadrunner computer can do in a single day.

Scientists develop fastest computer  
June 9, 2008  
By H. JOSEF HEBERT, Associated Press Writer

- This undated handout photo provided by IBM and the Feature Photo Service shows lead engineer Don Grice of IBM inspecting the world's fastest computer, nicknamed 'Roadrunner', in the company's Poughkeepsie, N.Y. plant. Scientists unveiled the world's fastest supercomputer on Monday, June 9, 2008, a \$100 million machine that for the first time has performed 1,000 trillion calculations per second in a sustained exercise. The technology breakthrough was accomplished by engineers from the Los Alamos National Laboratory and the IBM Corp. on a computer to be used primarily on nuclear weapons work, including simulating nuclear explosions.
- (AP Photo/IBM, Feature Photo Service)

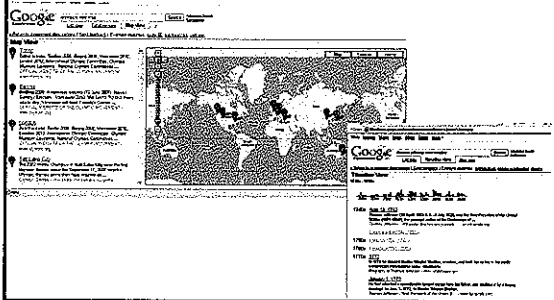
## 5th P?...Pointing!



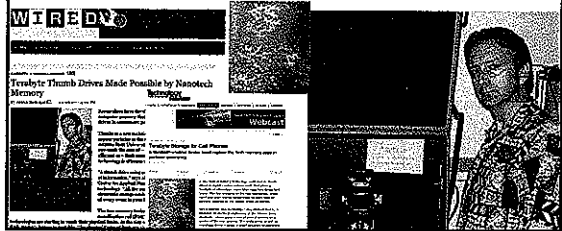
## G-Speak (touch technology)



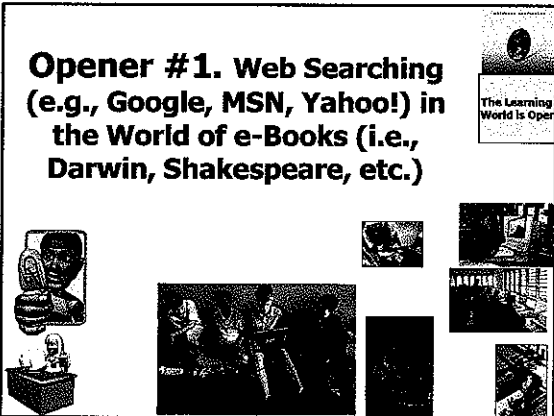
Need new ways of representing & accessing info  
(e.g., Google is working on Timeline and Map Views)



What if every early elementary kid could  
have a terabyte (1,000 gigabytes or 1  
trillion bytes) of data on a thumb drive?  
(Wired Magazine, October 26, 2007 says it will be  
possible in a few years; research from Arizona State)



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?

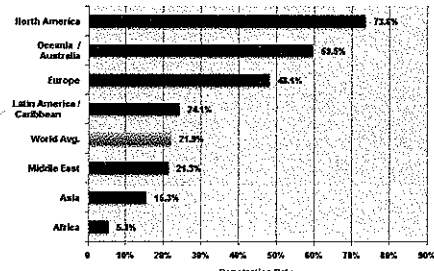
**WE**  
**ALL**  
**LEARN!!!**

**INTERNET USAGE STATISTICS**  
**The Internet Big Picture**  
**World Internet Users and Population Stats**

WORLD INTERNET USAGE AND POPULATION STATISTICS						
World Region	Population (2008 Est.)	Internet Users (Dec 31, 2008)	Internet Usage (Latest Date)	% Population (Penetration)	Usage % of World	Usage Growth, 2000-2008
Africa	955,206,348	4,514,400	51,065,630	5.3%	3.6%	1,031.2%
Asia	3,776,181,949	114,304,000	578,538,257	15.3%	39.5%	406.1%
Europe	800,401,055	105,096,093	384,633,765	48.1%	26.3%	266.0%
Middle East	197,090,443	3,284,800	41,539,200	21.3%	2.9%	1,176.8%
North America	337,167,248	108,096,800	248,241,969	73.6%	17.0%	129.6%
Latin America/Caribbean	576,091,673	18,068,919	139,009,209	24.1%	9.5%	669.3%
Oceania / Australia	33,981,922	7,620,480	20,204,331	59.5%	1.4%	165.1%
<b>WORLD TOTAL</b>	<b>6,676,120,288</b>	<b>360,985,492</b>	<b>1,463,632,361</b>	<b>21.9%</b>	<b>100.0%</b>	<b>305.5%</b>

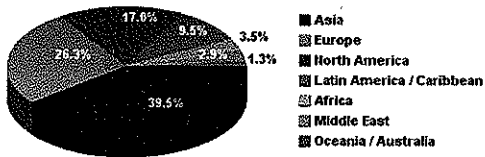
NOTES: (1) Internet Usage and World Population Statistics are for June 30, 2008. (2) CLICK on each world region name for detailed regional usage information. (3) Demographic/Population numbers are based on data from the US Census Bureau. (4) Internet usage information comes from data maintained by InternetWorldStats, by the International Telecommunications Union, by home IEC, and other reliable sources. (5) For definitions, disclaimer, and navigation help, please refer to the Site Usage Guide, now in ten languages. (6) Information in this site may be used, sharing the due credit to [www.internetworldstats.com](http://www.internetworldstats.com). Copyright © 2001 - 2008, Miniwatts Marketing Group. All rights reserved worldwide.

**World Internet Penetration Rates by Geographic Regions**



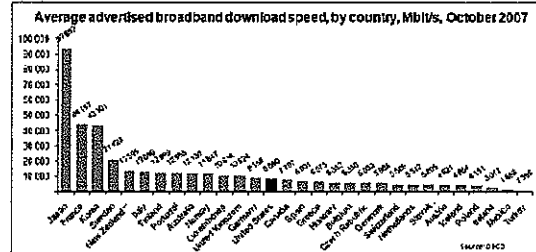
Source: Internet World Stats - [www.internetworldstats.com/stats.htm](http://www.internetworldstats.com/stats.htm)  
 Penetration Rates are based on a world population of 6,676,120,288 for mid-year 2008 and 1,463,632,361 estimated Internet users.  
 Copyright © 2008, Miniwatts Marketing Group

**World Internet Users by World Regions**



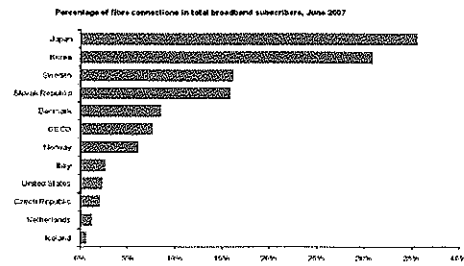
Source: Internet World Stats - [www.internetworldstats.com/stats.htm](http://www.internetworldstats.com/stats.htm)  
 1,463,632,361 Internet users for June 30, 2008  
 Copyright © 2008, Miniwatts Marketing Group

**A Blueprint for Big Broadband**  
**An EDUCAUSE White Paper, by John Windhausen Jr.**  
**President, Telepoly Consulting, January 2008**



**A Blueprint for Big Broadband**  
**An EDUCAUSE White Paper, by John Windhausen Jr.**  
**President, Telepoly Consulting, January 2008**

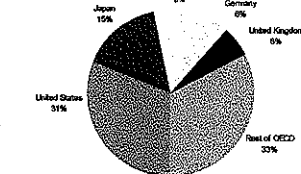
**Fig:** The United States also lags behind many other countries in fiber to the home deployment, as the following chart shows:



**MOST-READY NATIONS**

- + 1) Denmark
- + 2) US
- + 2) Sweden
- + 4) Hong Kong
- + 5) Switzerland
- + 6) Singapore
- + 7) UK
- + 8) Netherlands
- + 9) Australia
- + 10) Finland
- + 11) Austria
- + 12) Norway
- + 13) Canada
- + 14) New Zealand
- + 15) Bermuda
- + 16) South Korea
- + 17) Taiwan
- + 18) Japan
- + 19) Germany
- + 20) Belgium

Total broadband subscriptions, percentage of OECD top 5 countries, June 2005



Source: OECD

### Home Broadband 2008: Adoption Stalls for low-income Americans even as many broadband users opt for premium services that give them more speed (Pew Internet & American Life Project, 2008, July 2008)

Research Center The DataBank

**50% - Home Broadband Adoption**

**Trends in home internet access: broadband vs. dial-up**

Year	Broadband at home (%)	Dial-up (%)
2000	0	100
2001	10	90
2002	20	80
2003	25	75
2004	30	70
2005	35	65
2006	40	60
2007	45	55

### New ways to read information (e.g., Thinner, Crisper, and Cheaper eBooks; Kindle = \$400-500)

### Information Experience

Microsoft's Book Search Project: A New Way to Explore Books

NEWS SERVICE

OnDemandBooks

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

### Global Text Project (free textbooks for those in less developed countries) <http://globaltext.org/>

GLOBAL TEXT PROJECT

EDUCATION TODAY

Education is the most powerful weapon you can use to change the world. - Nelson Mandela

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

The Learning World is Open

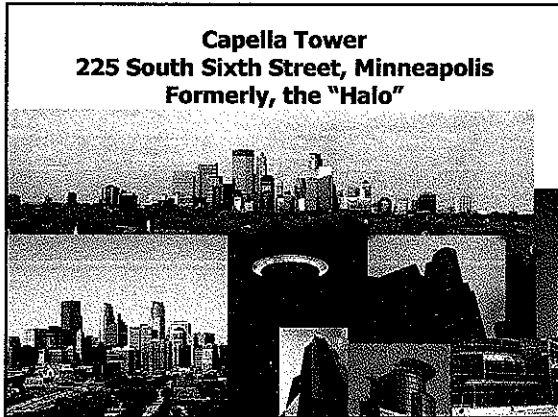
EDUCATION and INNOVATION

Students prefer online courses

Michigan State University

**Trend #2. E-Learning and Blended Learning.  
What happens then?**

**WE  
ALL  
LEARN!!!**



**Growth of Online Learning in Secondary Schools**  
(Florida Virtual School; AP American History)

**Indiana University High School**  
4,000 students and 1,400 enrolled in diploma programs (interest from China, India, and Nigeria as well as military and adults who never completed a high school degree)  
(per Bruce Colston, Director of IUHS, Oct 2008)

**The Voyages of S/V roam**

**BRIDEY'S SWEET PAGE**

March 3, 2008

**The Voyages of S/V roam**

**2008 VOYAGE**

Yacht's Log  
Bridey's Page  
Bridey's Page  
Bridey's Page  
Bridey's Page

**Adora's New Book!**  
"Dancing Fingers"  
By: Adora & Adrianna Svitak

**Adora Svitak Teaching**  
<http://www.youtube.com/watch?v=Knu4uVcZ5s8>

Adora Svitak Lecture Series: Essay Made Easy Part 1

More From: adorasvitak

Related Videos

- Adora Svitak presents
- Adora Svitak - American literary prodigy
- Personal Narrative 1 with Adora Svitak
- Adora Svitak teaches King James Vocabulary

Views: 70

**Total and Online Enrollment in Postsecondary Institutions**  
 Fall 2002 through Fall 2006  
*(For Degree-Granting Institutions)*

	Total Enrollment	Annual Growth Rate Total Enrollment	Students Taking at Least One Online Course	Annual Growth Rate Online Enrollment	Online Enrollment as Percent of Total Enrollment
Fall 2002	16,611,710	NA	1,602,970	NA	9.7%
Fall 2003	16,920,478	1.7%	1,071,397	23.0%	11.7%
Fall 2004	17,272,043	2.2%	2,326,733	18.2%	13.5%
Fall 2005	17,428,600	0.9%	3,180,050	36.5%	18.2%
Fall 2006	17,647,720	1.3%	3,458,331	9.7%	19.6%

SOURCE: Online Nation: Five Years of Growth in Online Learning (October 2007)

**Sara Cordell, professor of English at the University of Illinois-Springfield, says she feels online students become better writers because they get so much practice. NPR Special, Nov 29, 2007, Larry Abramson. (67% of US Colleges and universities offer online courses; 35% offer fully online programs.)**

**Univ of Illinois at Springfield**  
 UIS Online & Blended Enrollment

University of Illinois at Springfield, 2008. A special thanks to Ray Schroeder and Burks Oakley!!!!

**WW Growth in Student Enrollments**

2002-3 2003-4 2004-5 2006

- Certificate Programs
- MS
- Public MBA
- Corporate MBA

**INDIANA UNIVERSITY High School**  
 a virtual school

Meet **Kathryn**

How can you earn your high school diploma while studying ballet during the day and performing at night? By studying at your own pace through Indiana University High School.

Kathryn Morgan began dancing as a toddler, and studied with the Mabile (Mabelle) Ballet before entering The School of American Ballet, the teaching arm of the New York City Ballet, in 2002. She became an apprentice with the New York City Ballet in June 2006 and joined the corps de ballet in February 2007.

"I love the flexibility I have something that lets me work on my time."

With Indiana University High School, Morgan was able to ease out time and to thereby focus on her career. "I love the flexibility," explained Morgan. "I found something that lets me work on my time. Also, the online courses have been really great. I have gotten the feedback so quickly."

Morgan recently danced as Juliet in the Ballet's production of *Swan Lake* and received great reviews in the New York Times. Morgan is well on her way toward making her dream of becoming a principal dancer a reality.

Live, Learn, Grow

**INDIANA UNIVERSITY High School**  
 a virtual school

Meet **Zachary**

When Zachary Moulder visited Washington, D.C., recently, it wasn't to take pictures of the Washington Monuments or look at cherry blossoms. Instead, the 17-year-old Indiana University High School student was in the nation's capital as a consultant to one of the country's leading civic and leadership education programs.

Moulder is determined to become a political operator's specialist. He joined Indiana University High School in 2004, because he didn't want to relocate to a new school when he had finished graduate school. In addition, IUHS's flexible schedule allowed Moulder to do more than 125 hours as a volunteer for Indiana Congressman Elton R. Hall in 2006.

"I was able to intern with Congressman Elton Hall's campaign last fall. It had been in a traditional school, it would have been impossible."

When he isn't working on his courses, Moulder serves as a volunteer for the club's youth group and volunteers for the local library. Currently, he's looking ahead to college. "I'm more than college prep" with IUHS, said Moulder. "I'm college ready."

800.234.1911 • [www.iuhs.edu](http://www.iuhs.edu) • TTY 856.270.2901

**Free and Open Courses**  
 (Connectivism from George Siemens and Stephen Downes, 18 enrolled, 2,000+ sitting in)

CONNECTIVISM & CONNECTIVE KNOWLEDGE

History of Open Content



## 2 Million People Sign up for Part I of Oprah's Course on Spiritualism

YouTube

From MindTrip888  
 Added April 26, 2008  
 (104,974 views)

Embed: [Embed](#) [Report](#) [More](#)

More From: MindTrip888

Related Videos

- Can You See Oprah's Whimsy From Any...  
 (104,974 views)
- Oprah's "New Earth" - Jim Carrey  
 (104,974 views)

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

Herald Times, Wednesday  
 February 6, 2008  
 Mike Leonard

**A GRAIN OF RICE**

For each word you get right, we donate 16 grains of rice through the United Nations to help end world hunger

Office of the Mayor

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

The Learning World is Open

## Trend #3. Availability of Open Source and Free Software. What happens then?

# WE ALL LEARN!!!

## Moodle (400,000 registered users in 193 countries speaking 73 languages)

moodle.org

Community Growth

## The Sakai Project

OpenSource@Cmu.edu

Location: EL EDAC 2540 25607 Resorption

Navigation: Home, About, Contact, etc.

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

The Learning World is Open

**OPENING UP EDUCATION**

The College Advancement of Education through Open Education, Open Course, and Open Technology

Two Books and 100+ Videos

## Trend #4. Leveraged Resources and OpenCourseWare. What happens then?

# WE ALL LEARN!!!

## Cape Town Open Education Declaration December 2007 <http://www.capetowndeclaration.org/>

THE CAPE TOWN OPEN EDUCATION DECLARATION

**Read the Declaration**

**Thinking the promise of new educational resources**

As we enter the 21st century, we are witnessing a global revolution in education. The world is now a global village, and the boundaries of education are being blurred. The Cape Town Open Education Declaration is a call to action for all those who are committed to the advancement of education through open education, open course, and open technology.

These are the values that underpin the Declaration:

- Openness: Openness is the foundation of open education. It is the sharing of knowledge, resources, and experiences.
- Accessibility: Education should be accessible to all, regardless of their background, location, or financial resources.
- Quality: Open education should be of high quality, and should be recognized as such.
- Collaboration: Open education is a collaborative effort, and should be supported by all stakeholders.
- Innovation: Open education should be innovative, and should embrace new technologies and pedagogies.

## Sample OpenCourseWare Projects

The image shows several screenshots of OpenCourseWare projects. On the left, there's a page for 'Tufts OpenCourseWare' with a search bar and a list of courses. In the center, there's a page for 'Tufts OpenCourseWare' showing a course titled 'Introduction to Psychology' with a list of topics and a video player. On the right, there's another 'Tufts OpenCourseWare' page showing a course titled 'Introduction to Psychology' with a list of topics and a video player.

## Indian Institutes of Technology (IIT)

The image shows several screenshots of the Indian Institutes of Technology (IIT) website. On the left, there's a page with a search bar and a list of courses. In the center, there's a page with a search bar and a list of courses. On the right, there's a page with a search bar and a list of courses.

## MITOPENCOURSEWARE

MIT SLOAN SCHOOL OF MANAGEMENT

The MIT Sloan School of Management is committed to improving the world by advancing the practice of management.

We offer a dynamic curriculum that includes the following areas:

- Accounting
- Communication
- Corporate Strategy and Policy
- Finance
- Health Care Management
- History, Environment and Ethics

15.061 / 15.516 Introduction to Financial and Managerial Accounting

**MITOPENCOURSEWARE**  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

**Highlights for High School**

MIT OpenCourseWare materials are available for high school students and teachers. Highlights for high school students include:

- AP Biology
- AP Chemistry
- AP Computer Science A
- AP Computer Science B
- AP English Language and Composition
- AP English Literature and Composition
- AP Environmental Science
- AP European History
- AP French Language and Culture
- AP French Literature and Culture
- AP German Language and Culture
- AP Italian Language and Culture
- AP Japanese Language and Culture
- AP Latin
- AP Music Theory
- AP Physics 1
- AP Physics 2
- AP Physics C: Electricity and Magnetism
- AP Physics C: Mechanics
- AP Psychology
- AP Spanish Language and Culture
- AP Spanish Literature and Culture
- AP Statistics
- AP U.S. History
- AP World History

MITOPENCOURSEWARE  
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

**New Ways to Find Lectures**

**Technology Review**

**Em**

**Searching Video Lectures**  
 A tool from MIT finds keywords in that students can efficiently review lectures.

**Lecture Browser**  
 A tool from MIT finds keywords in that students can efficiently review lectures.

1. The Student of Doubt and Disappointment  
 Each semester at MIT, thousands of students, from first-year freshmen to senior undergraduates, struggle with the course. They are not alone. In fact, they are part of a much larger group of students who struggle with the course. They are not alone. In fact, they are part of a much larger group of students who struggle with the course.

2. Finding a Way Out  
 The student of doubt and disappointment is not alone. In fact, they are part of a much larger group of students who struggle with the course. They are not alone. In fact, they are part of a much larger group of students who struggle with the course.

3. Software Development: Solving the Tragedy Problem in Computer Science  
 The student of doubt and disappointment is not alone. In fact, they are part of a much larger group of students who struggle with the course. They are not alone. In fact, they are part of a much larger group of students who struggle with the course.

**CORE (China Open Resources for Education), OCW Mirror Site, China**

Beijing Jiaotong University  
 Office of International Cooperation & Exchange

北京交通大学

Open is cool

MIT OpenCourseWare is a mission-critical initiative of Technology's great power to share the world's knowledge and resources with every student who wants to learn. MIT OpenCourseWare (OCW) is a free, open, and accessible source of high-quality educational materials for anyone who wants to learn. OCW is a free, open, and accessible source of high-quality educational materials for anyone who wants to learn.

CORE (China Open Resources for Education) is a project of the Beijing Jiaotong University. It is a free, open, and accessible source of high-quality educational materials for anyone who wants to learn. CORE is a free, open, and accessible source of high-quality educational materials for anyone who wants to learn.

Only you need MIT students to teach in China

On June 15, 2004, the first OCW mirror site in China was launched. It is a free, open, and accessible source of high-quality educational materials for anyone who wants to learn.

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

OOPS OpenSource OpenCourseware Prototype System  
 The Foundation of Fantasy Culture and Arts

OOPS OpenSource OpenCourseware Prototype System  
 開放式課程計劃

OOPS OpenSource OpenCourseware Prototype System  
 開放式課程計劃

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

OOPS OpenSource OpenCourseware Prototype System  
 The Foundation of Fantasy Culture and Arts

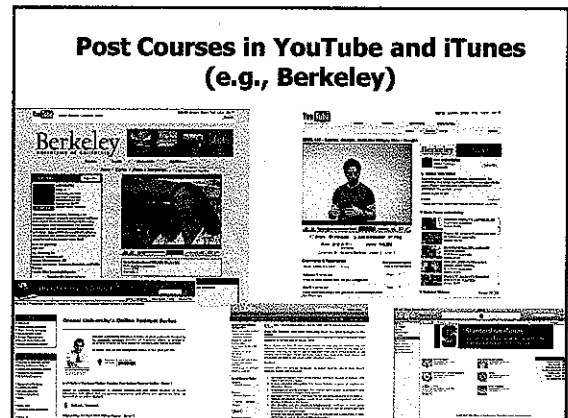
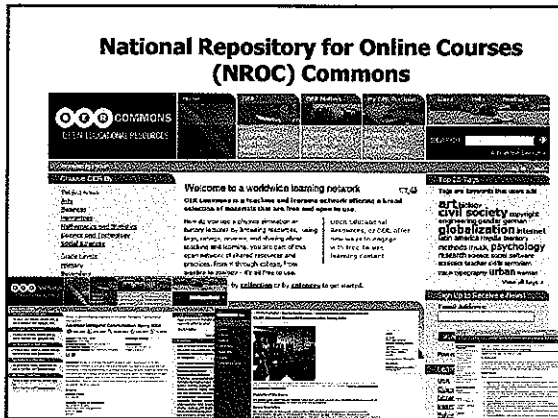
OOPS OpenSource OpenCourseware Prototype System  
 開放式課程計劃

OOPS Volunteers' OpenSource OpenCourseware Prototype System, DERRMAN, 2005

OOPS Volunteers' Gathering, Shanghai, China, 2004

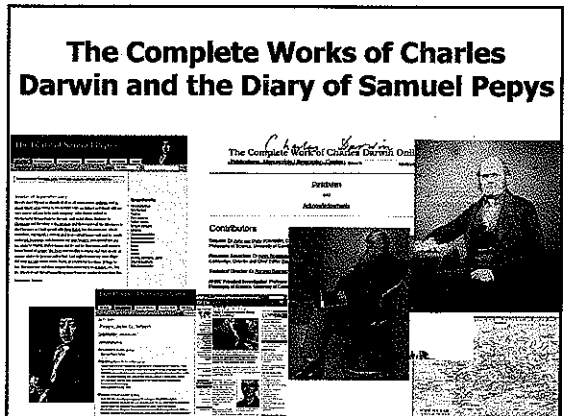
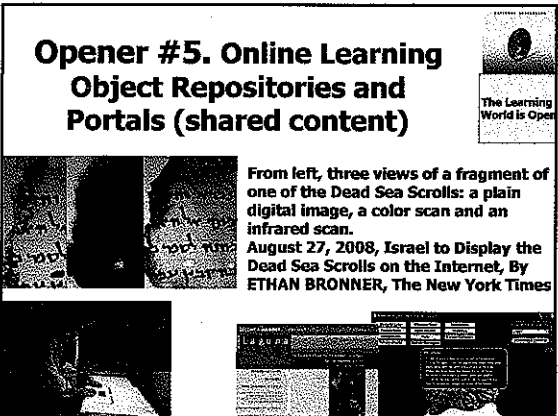
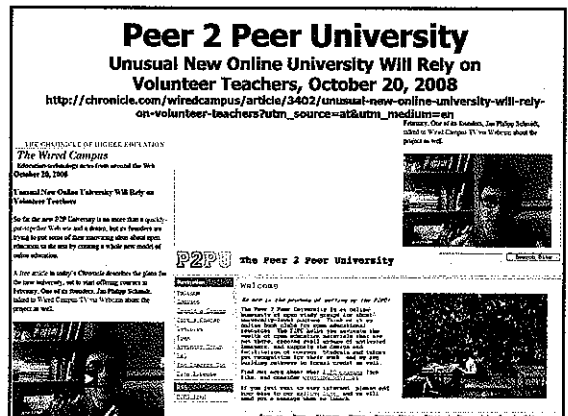
Lucifer Chu's OpenSource OpenCourseware Prototype System, DOW Team, China, 2004

OOPS OpenSource OpenCourseware Prototype System  
 開放式課程計劃



**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.”**



**Reflection on Online Contents: The Carlyle Letters Exploring Victorian World Through Letters and The Diary of Samuel Pepys, John Evelyn** (Great Plague, Great Fire; Charles Dickens, Erasmus Darwin (grandfather of Charles Darwin), Mary Wollstonecraft Shelley, Robert Browning, John Stuart Mill, Ralph Waldo Emerson, Elizabeth Barrett Browning, and Alfred Tennyson)

**What if the World was Beyond our World? NASA's Hubble Space: Google Sky** USA Today, August 22, 2007  
<http://earth.google.com/sky/index.html>

**Tracking Live Internet Thawing: A Colossal of an Idea**

**Referatory: MERLOT.org**  
 (62,000 members, 20,000 learning materials)

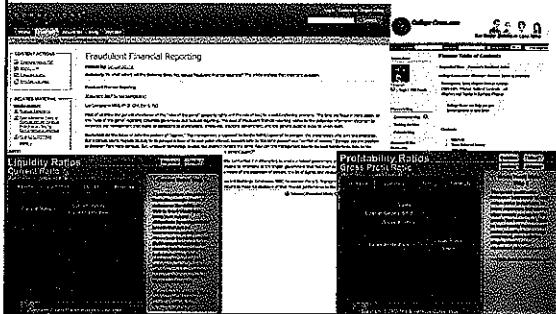
**Repository: Connexions**  
 (millions of viewers, Rice University)

**Connections Growth, January 2009**

- >8,000 modules (3-5 pages)
- >425 collections (books and courses)
- multiple languages
- engineering, computer science, nanotech, physics, statistics, math, history, music, bio-diversity, botany, bio-info, IP, BRIT, UNESCO, UN, Sigma Xi, ...
- from authors worldwide

Usage October 2008:  
 45 million hits  
 2m page views  
 1m unique users  
 from 200 countries

## Repository: Connexions (Rice University)

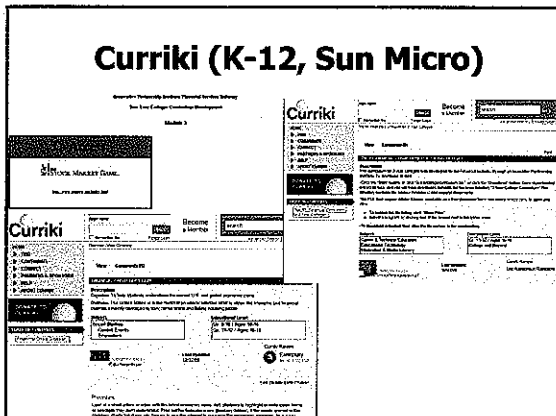


## Curriki (K-12, Sun Micro) K-12 Content: Global Education and Learning Community (GELC)

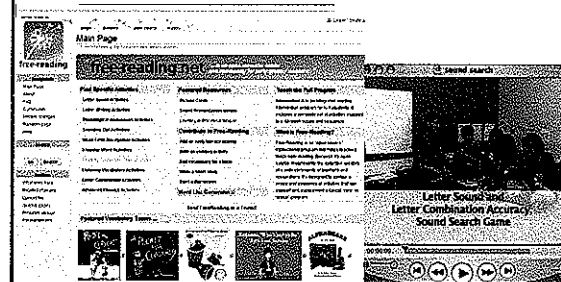
- The Global Education and Learning Community (GELC) aims to bring the principles of open source to education. Scott McNealy, former CEO of Sun Microsystems, is working to create a free universal curriculum from Kindergarten to 12<sup>th</sup> grade in every major subject. Any educator/researcher can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



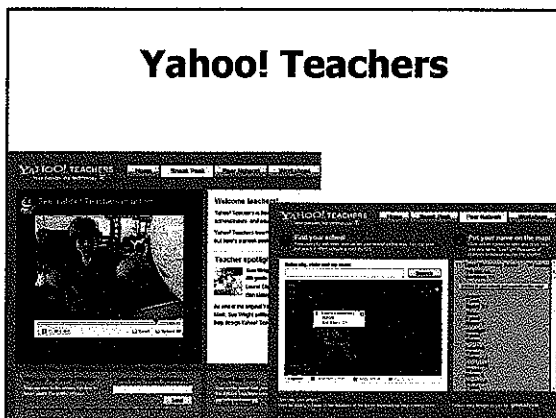
## Curriki (K-12, Sun Micro)



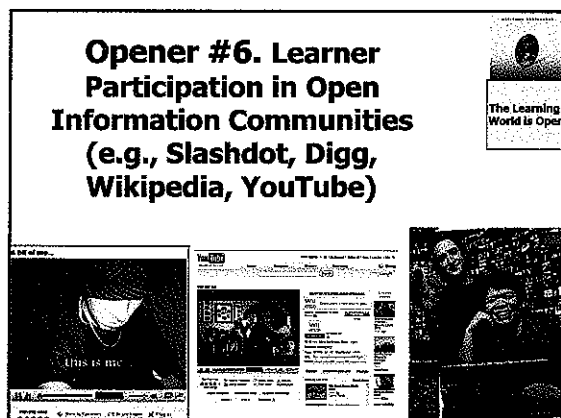
## What if K-2 teachers could have free reading instruction at their fingertips? See free-Reading.net [http://free-reading.net/index.php?title=Main\\_Page](http://free-reading.net/index.php?title=Main_Page)



## Yahoo! Teachers



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



## Triple Learning Technology Convergence of "WE-ALL-LEARN"

The Learning  
World is Open

A Circle of Knowledge Building and Sharing

**Create**

Support for creating  
transformative and  
pedagogical knowledge

**Use**

Encourage teachers  
to create, critique,  
and learn from  
each other's  
pedagogical  
knowledge.

**Re-mix**

Enable teachers  
to integrate  
knowledge into  
their knowledge.

Promote these organically & sustainably

From the Web 2.0 to Learning 2.0

**MINDS  
FIRE**

Open Education, Open Learning, Open Learning 2.0

It's Not Just About the Tool It's About the Learning

**move towards a** *circle of open*  
**access to information, international  
collaboration, and global sharing.**

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

The image shows a grid of screenshots from Ustream and Twitter. The Ustream screenshots show live streaming interfaces with video thumbnails and titles like 'LIVE, INTERACTIVE BROADCASTING'. The Twitter screenshots show tweets and user avatars, illustrating the integration of social media with live streaming.

## Skype, Google Talk, Chinesepod, LiveMocha, VoiceThread, YackPack, Dotsub, Chinswing, and many other Collaborative Language Learning

The image is a collage of screenshots from several language learning platforms. It includes Chinswing, LiveMocha, and VoiceThread. The screenshots show chat windows, video feeds, and user avatars, demonstrating collaborative learning environments.

## Wikis: Wikipedia and Wikibooks

The image shows screenshots of Wikipedia and Wikibooks pages. It includes the Wikipedia logo, search bars, and various article content. Below the screenshots, there are icons for Web 2.0 and Emerging Learning Technologies, along with a small video player showing a person speaking.

## Sample Book (Learning Theories) [http://en.wikibooks.org/wiki/Main\\_Page](http://en.wikibooks.org/wiki/Main_Page)

The image is a screenshot of the Wikibooks Main Page. It features a navigation menu on the left, a central article preview for 'European History', and a sidebar with additional resources and links. The page layout is clean and organized, typical of a collaborative encyclopedia.

## YouTube

The image is a collage of YouTube video thumbnails. It shows various educational videos, including one titled 'Cost Centres & Profit Centres' and another titled 'Small Business'. The thumbnails feature speakers and titles, illustrating the variety of content available on the platform.

### Employee Film Competitions (why accounting/finance is great!)

This screenshot shows a YouTube video player interface. The video title is "Deloitte Film Festival - Behind the Scenes" and it features the Deloitte logo. The interface includes a play button, video progress bar, and various control icons.

### But now there is TeacherTube!

This screenshot displays the TeacherTube website. The page features a search bar, navigation tabs, and a grid of video thumbnails. The TeacherTube logo is prominently displayed in the center.

### Individual Produced Videos (e.g., African School Dream in CurrentTV) [http://current.com/items/77146082\\_african\\_school\\_dream](http://current.com/items/77146082_african_school_dream)

This screenshot shows a video player from CurrentTV. The video title is "African School Dream" and the URL is provided. The player includes a play button and a progress bar.

This image is a collage of several video thumbnails from YouTube. One prominent thumbnail is titled "Offshore Outsourcing Messing in Ghana" and shows a group of people. Other thumbnails show various scenes and people.

### Global Nomads Group <http://www.gng.org/home.html>

This screenshot shows the website for the Global Nomads Group. The page features a grid of video thumbnails and text content. The website URL is provided at the top.

### [http://www.usatoday.com/tech/products/2008-10-23-youtube-tv-episodes\\_N.htm](http://www.usatoday.com/tech/products/2008-10-23-youtube-tv-episodes_N.htm)

This screenshot shows a USA Today article page. The article title is "YouTube expands its horizons, and its time limits for videos". The page includes a video player and text content.



**CSUB BETA**

Home | About | Contact | Privacy Policy | Terms of Service | Site Map

Textbook in Plain English

A first experience of the new e-learning service. Textbook in Plain English is a free, online service that helps students understand their textbooks better. It provides clear, concise explanations of complex concepts and definitions, making learning easier and more enjoyable.

Our product is available on:

- Apple iPad
- Apple iPhone
- Android
- Kindle
- Kindle Fire
- Kindle Paperwhite
- Kindle Voyage
- Kindle Oasis
- Kindle Paperwhite (3rd Gen)
- Kindle Paperwhite (5th Gen)
- Kindle Paperwhite (11th Gen)
- Kindle Paperwhite (12th Gen)
- Kindle Paperwhite (13th Gen)
- Kindle Paperwhite (14th Gen)
- Kindle Paperwhite (15th Gen)
- Kindle Paperwhite (16th Gen)
- Kindle Paperwhite (17th Gen)
- Kindle Paperwhite (18th Gen)
- Kindle Paperwhite (19th Gen)
- Kindle Paperwhite (20th Gen)
- Kindle Paperwhite (21st Gen)
- Kindle Paperwhite (22nd Gen)
- Kindle Paperwhite (23rd Gen)
- Kindle Paperwhite (24th Gen)
- Kindle Paperwhite (25th Gen)
- Kindle Paperwhite (26th Gen)
- Kindle Paperwhite (27th Gen)
- Kindle Paperwhite (28th Gen)
- Kindle Paperwhite (29th Gen)
- Kindle Paperwhite (30th Gen)
- Kindle Paperwhite (31st Gen)
- Kindle Paperwhite (32nd Gen)
- Kindle Paperwhite (33rd Gen)
- Kindle Paperwhite (34th Gen)
- Kindle Paperwhite (35th Gen)
- Kindle Paperwhite (36th Gen)
- Kindle Paperwhite (37th Gen)
- Kindle Paperwhite (38th Gen)
- Kindle Paperwhite (39th Gen)
- Kindle Paperwhite (40th Gen)
- Kindle Paperwhite (41st Gen)
- Kindle Paperwhite (42nd Gen)
- Kindle Paperwhite (43rd Gen)
- Kindle Paperwhite (44th Gen)
- Kindle Paperwhite (45th Gen)
- Kindle Paperwhite (46th Gen)
- Kindle Paperwhite (47th Gen)
- Kindle Paperwhite (48th Gen)
- Kindle Paperwhite (49th Gen)
- Kindle Paperwhite (50th Gen)

**TECHNOLOGY**

FORNEX.COM HOME > TECHNOLOGY

**Sony Shows Off Paper-Thin, Bendable Video Display**

Tue Aug 21, 2012  
Associated Press

**VIDEO GAMING**  
**FINRA SECURITY**  
**INNOVATION**  
**CONSUMER ELECTRONICS SHOW**  
**NEWS ARCHIVE**  
**HOT TOPICS**  
**VIDEO GAMES**  
**NEWS PLAYLIST**  
**POP NEWS**  
**ELECTRONICS**  
**COMMERCE**  
**QUALITY**  
**GOSSIP**

**SECTION MAP**

**SEARCH**

Send news to me: FORNEX.COM

**IT'S A SMALL STORY: POWERED BY SONY'S VIDEO DISPLAY**

TOKYO — In the race for ever-thinner displays for TVs, cell phones and other gadgets, Sony may have developed one to beat them all — a paper-thin display that bends like paper while showing HD-color video.

Sony Corp. (NYSE:SONY) today unveiled the new 7.5-inch display. It's a hand-squeezed display that is 0.3 millimeters, or 0.01 inch, thick. The display shows color images of a short-story character and a picture of a girl.

Click here for Personal Finance

Click here for Personal Finance

Although flat-panel TVs are getting thinner, a display that's so thin it bends in half is a first.

Sony said it has yet to decide on commercial products using the technology.

**THE FUTURE OF THE INTERNET AND HOW TO STOP IT**

JONATHAN ZITTRAIN

Open Access Textbooks

washingtonpost.com

The Future of the Internet - And How to Stop It

Jonathan Zittrain

Jonathan Zittrain is a professor of law and computer science at Harvard University. He is also a senior advisor to the U.S. Department of Justice. He is the author of "The Future of the Internet - And How to Stop It," a book that explores the challenges of the Internet and how to address them.

**Open Access Books (Flat World Knowledge)**

As featured on PBS

flatworld KNOWLEDGE

**Open College Textbooks**

Copyright © 2012 Flat World Knowledge, Inc. All rights reserved.

World's Flat World Knowledge

**Self-Publishing (print-on-demand)**

**BookSurge (owned by Amazon), Lulu**

Lulu

Search: All Products | Help | Shopping Cart

Log In | Sign Up

**Death to Diabetes**

DeWayne McCulley

**the BELLY FAT**

Maria S. Tambore, M.D.

**Shoppers Guide**

**Posting Documents on Web**

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

Scribd

Publish Yourself Online

Upload Documents

Share with:

Facebook | Twitter | LinkedIn | Email

**The Republic**

The Iraq Study Group Report

James H. Baker, III and Lee H. Hamilton, Co-Chairs

# Freebase

The screenshot shows the Freebase website with a search bar at the top. Below the search bar, there are several sections including 'Categories' with sub-sections like 'Adult Entertainment', 'Money', 'Science & Technology', 'Sports', 'Travel', 'Video', 'Web', and 'World'. There is also a 'People' section and a 'Places' section. The interface is dark-themed with white text.

# diigo Highlight and Share the Web!

Diigo is a powerful research tool and a knowledge-sharing community.

The screenshot shows the Diigo website with a search bar and several sections. There is a 'Research and Collaborate' section with a search bar and a 'Reading is more fun with friends, more productive with Diigo...' section. The interface is light-themed with dark text.

# World's Largest Online Book Club

## LibraryThing (you can be a "thingamabrarian" 400,000 users and 26 million books )

The screenshot shows the LibraryThing website with a search bar and several sections. There is a 'LibraryThing' section with a search bar and a 'LibraryThing' section with a search bar. The interface is light-themed with dark text.

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

The Learning World is Open

The screenshot shows a presentation slide with several examples of electronic collaboration and interaction. There are images of people using computers, a person speaking into a microphone, and a person using a laptop. The slide is light-themed with dark text.

# Collaborat

## NEW SKILLS FOR A NEW AGE

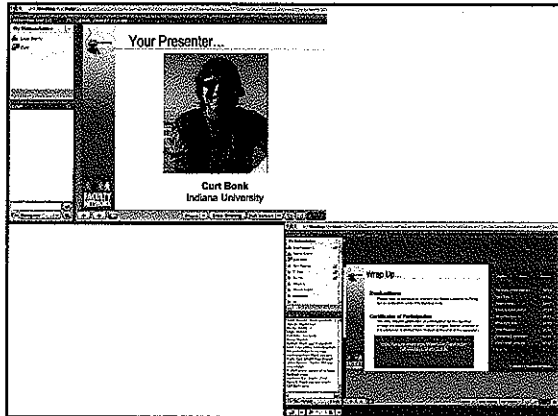
What students must know to succeed.

The screenshot shows a presentation slide with several sections. There is a 'LEARN' section with a search bar and a 'CREATE' section with a search bar. There is also a 'COLLABORATE' section with a search bar. The slide is light-themed with dark text.

# Collaborative Searching



## Microsoft SearchTogether (Beta)

The screenshot shows the Microsoft SearchTogether (Beta) website with a search bar and several sections. There is a 'Search' section with a search bar and a 'Collaborative' section with a search bar. The interface is light-themed with dark text.



## Teleportic Videoconferencing

**Confereing**  
 5 April 2001  
 Governor Rick Perry

[Click here to Download QuickTime](#)  
 Close

**THE CHRONICLE OF HIGHER EDUCATION**

### The Wired Campus

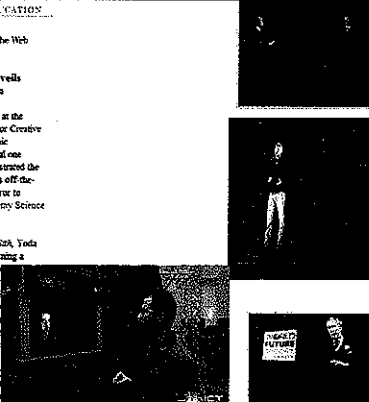
Education technology news from around the Web  
December 3, 2008

**U. of Southern California Professor Unveils Holographic Videoconferencing System**

Paul Debevec, a research assistant professor at the University of Southern California's Institute for Creative Technologies, has helped develop a holographic videoconferencing system just like the fictional one depicted in recent Star Wars films. He demonstrated the science-fiction inspired system — which uses off-the-shelf video projectors and a flat-screening mirror to create the illusion of a 3-D image — at the Army Science Conference this week.

In Star Wars: Episode III — Revenge of the Sith, Yoda virtually attends Jedi council meetings by becoming a holographic image of himself in the meeting room. Everyone in the council chamber can see, hear and when the Jedi master is displaced as he speaks. Similarly, Mr. Debevec says that professors traveling for work will now be able to hold meetings with graduate students back on their campuses via hologram.

Other than looking extremely cool, what's the Debevec argues that the holographic system is more than a phone call or a traditional videoconference.




## 1kg More Project for Rural China

(<http://www.1kg.org/>)




### EPals has for-profit and nonprofit arms.

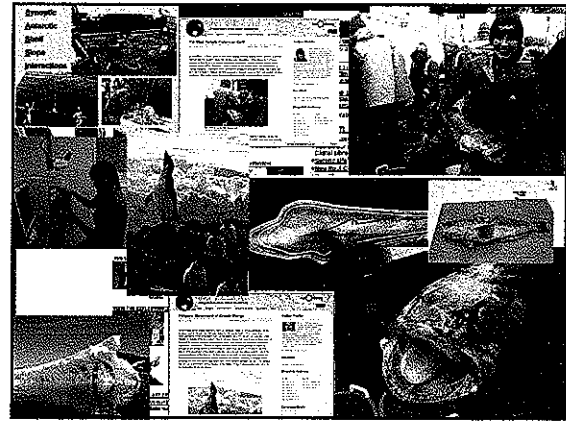
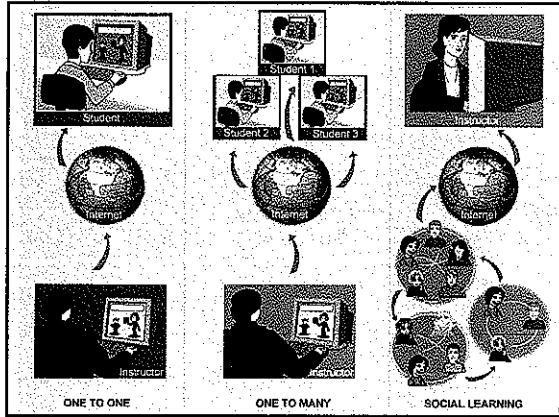
Candace Pauchnick, standing, uses its tools in her class.  
By **STEVE LOHR**  
Published: February 24, 2008  
*New York Times*



## Room to Read

<http://www.roomtoread.org/programs/schools.html>





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

The Learning World is Open

CIVILIZATION

A collage of images related to alternate reality learning, including a person at a computer, a globe, and a virtual world interface.

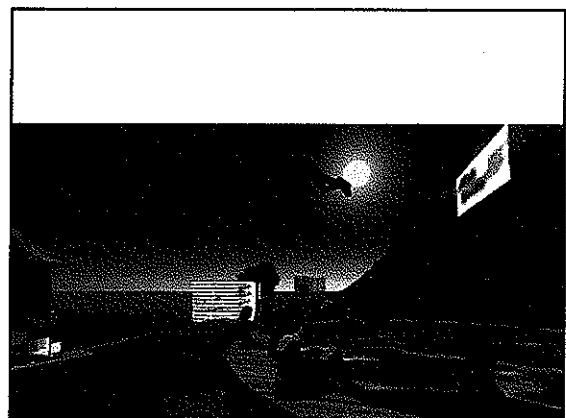
### Virtual Case Worlds

MyCaseSpace<sup>®</sup>  
An interactive Case-based Learning Management System  
Bring your cases to life with MyCaseSpace!  
Assess student critical thinking and decision-making skills in real-time!  
This site is under development.

A screenshot of the MyCaseSpace interface showing a virtual case world with various elements and a navigation bar.

### Massive Multiplayer Online Gaming (MMOG)

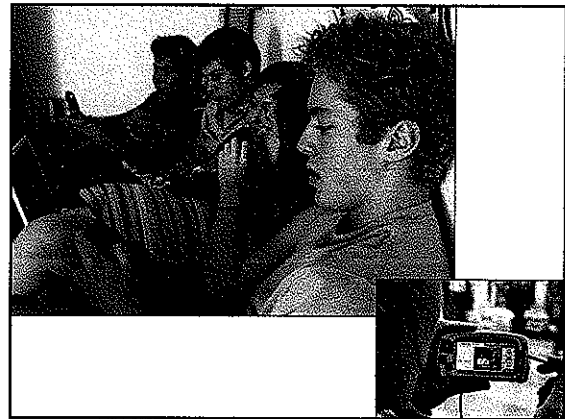
A collage of images showing various MMOG interfaces and virtual worlds, including character avatars and game environments.



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

The Learning World is Open

Ready wireless for classroom



YAHOO! NEWS

Third-generation iPhone picks up speed

**iPhone 3G**  
Still not perfect, but really close  
Cool device is the tops among all smartphones

<http://www.theflip.com/products.shtml>

Flip Ultra MSRP \$149.99

Flip Video MSRP \$129.99

The Original

Flip Mini MSRP \$79.99

Simple and Colorful

Flip and Fun

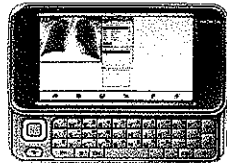
**Terabyte thumb Drives and Magic Pens!**  
(The Pulse from Livescribe)  
Second, we need new ways to record info:  
Smartpens: "Never Miss a Word"

PULSE

NEVER MISS A WORD

WIREDO

## Medical Moves Mobile



## Wireless in Africa and Pocket School in Latin America (Paul Kim, 2008)



## 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.



## Brand New E-Book and Print book Opening Up Education

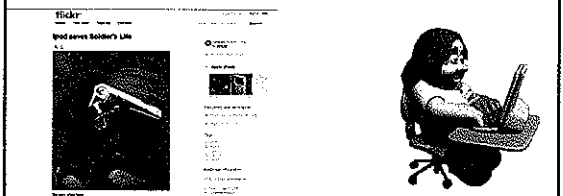
New Edited Book from MIT (free PDF, sample chapters, and hardcopy)

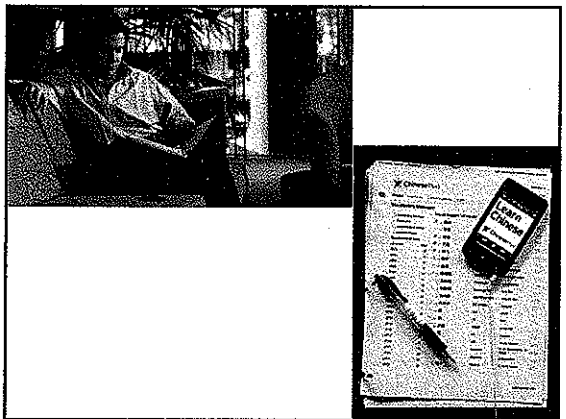
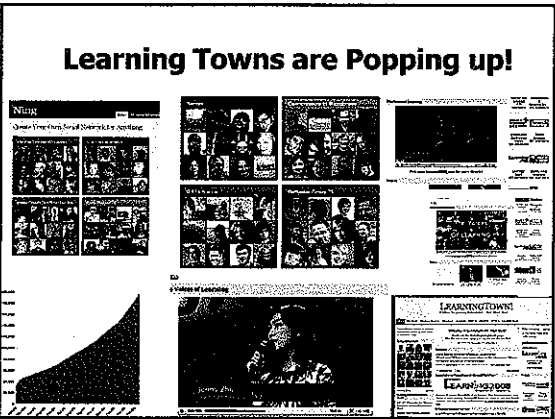
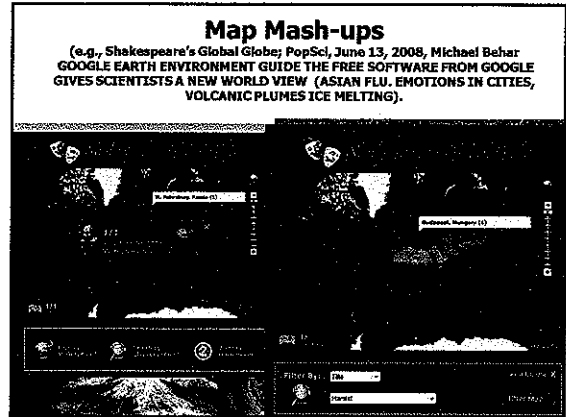


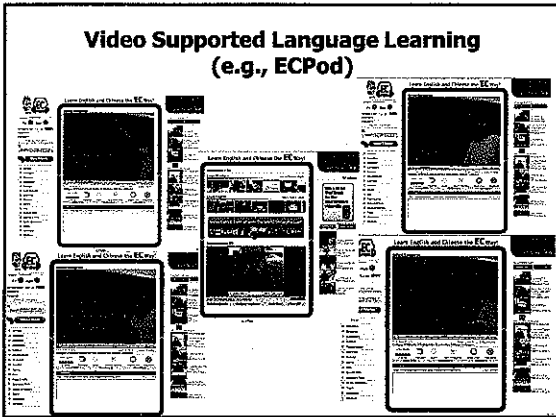
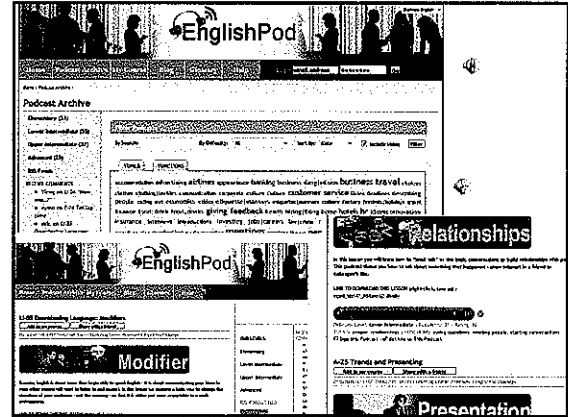
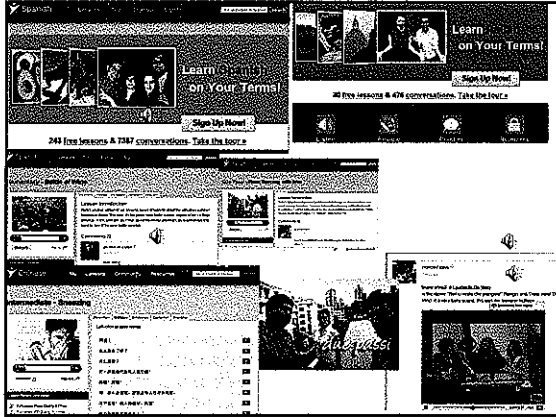
## Jerry Kronenberg Monday, August 4, 2008 Boston Herald Designers on quest to build \$12 computer



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







### Final Sharing Questions

- 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?

### 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

The Future  
NEXT PAGE

**Slides at: TrainingShare.com**  
**Papers: PublicationShare.com**  
**Book: <http://worldisopen.com/>**  
**The World is Open.**  
**What happens then?**

WE ALL LEARN!!!