
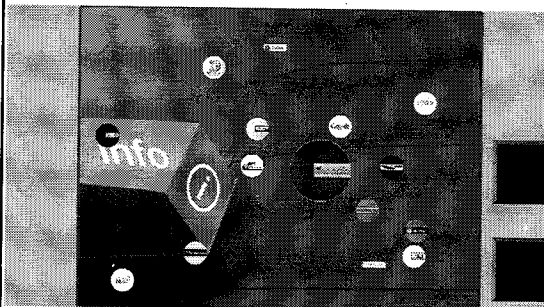


**Oops, Did You Mean to Share that?
OpenSource, Opencourseware, and the
Learning Objects of Tomorrow**

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



<http://ella.slis.indiana.edu/~aenkim/iconping.html>



Phases of Technology in Education


1. Technology to enhance learning/knowledge
2. Technology to extend learning/knowledge
3. Technology to transform learning/knowledge
4. Technology to share learning/knowledge

Knowledge Sharing
(Fuji Xerox, p. 9)

"Knowledge sharing is the way (social) and means (technical) by which an individual, team, organization and/or community connects and communicates, to continually create, innovate, learn and act."

Poll #1: Should e-learning courses and material be shared?

- Yes
- No
- Not sure



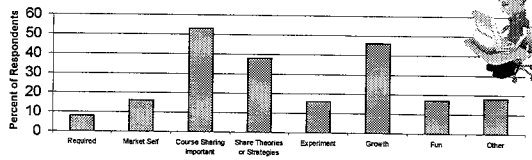
Most are Scared to Share!!!



Why Share?

Bonk, C. J. (2002, January). *Executive Summary of Online teaching in an online world.* United States Distance Learning Association (USDLA). http://www.usdla.org/html/journal/JAN02_Issue/article02.html.

Figure 11. Reasons Why Respondents Posted to the WLH or MERLOT*



Do You Share?

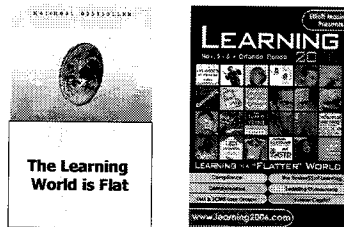
1. Who has shared music in an iPod or MP3?
2. Who has used collab software? (Google Groups, Yahoo Groups, Sharepoint)
3. Who has used online phone services such as Skype or Google Talk?
4. Who has assigned teams online?
5. Who has embedded international exchanges or expert guests?
6. Who has used MERLOT,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

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

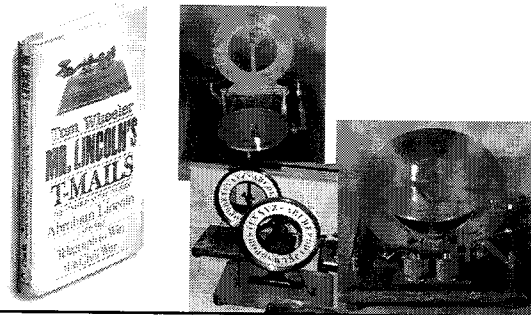
The Ten Forces that Flattened the World

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

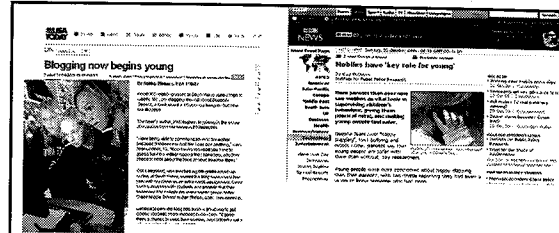


How Lincoln won the Civil War
Mr. Lincoln's T-Mails: The Untold Story of How Abraham Lincoln Used the Telegraph to Win the Civil War

by Tom Wheeler; Collins, 227 pages, \$24.95.
 By Russ Juskalian, Special for USA TODAY
 Updated 11/26/2006 5:29 PM ET

http://www.usatoday.com/money/books/reviews/2006-11-26-lincoln-book_x.htm

- Wheeler argues that the use of the telegraph by Lincoln and his Union generals may have provided the advantage necessary to win the war.
- The telegraph was a killer app for its use along rail lines, enabling more efficient scheduling of trains— which, in turn, increased traffic, and profits.
- With this breakthrough, telegraph lines exploded across the Northern parts of the USA. The Southern states, afraid that industrialization would change their way of life dramatically, moved far more slowly in establishing both railroads and telegraph lines.



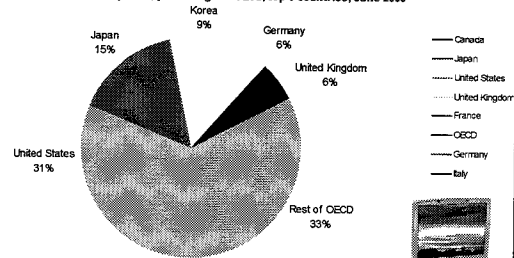
Eighth-grade students Tayler Bernholtz, left, Amy Lostro and Kelsey Cardiff check out a weblog discussion related to the Civil War historical-fiction book 'Guerrilla Season' At South Valley Junior High School in Liberty, Mo. (Blogging now begins young USA Today, By Ashley Bleimes, USA TODAY, November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

Technologies of the 2000's



Increased Broadband Access

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



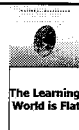
Source : OECD

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.

The Ten Forces that Flattened the Learning World

1. Tools for Searching and Finding Information (e.g., Google, Yahoo!)
2. Rise in Demand for Online Learning
3. Open-Sourcing Learning: Sakai, Moodle, eduCommons
4. Collaboration (e.g., SharePoint, Groove, Word, Interwise, Breeze, Google Talk, Skype)
5. Learning Portability (Podcasting, Mobile technology)
6. Learner Empowerment and Individualization of Learning (Blogs, Wikis, etc.)
7. Online Portals of Information
8. Online Learning Object Repositories (MERLOT, Connexions, Careo, Jorum)
9. Open CourseWare (MIT OCW, Utah State, Johns Hopkins, Japan, CORE, OOPS)
10. Knowledge Brokers and Collectors



The Ten Forces that Flattened the World

The Learning World is Flat

1. Tools for Searching and Finding Information: (e.g., Google, Yahoo!)

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

Google

Web Images Groups News Groups Local Scholar Books

Google Search The Finest Link

Information about this page

Advertising Programs - Business Solutions - About Google

Make Google Your Homepage!

©2002 Google - 1600 Amphitheatre Parkway, Mountain View, CA 94043

Google Print Project

The complete plays of Shakespeare. Now at your fingertips.

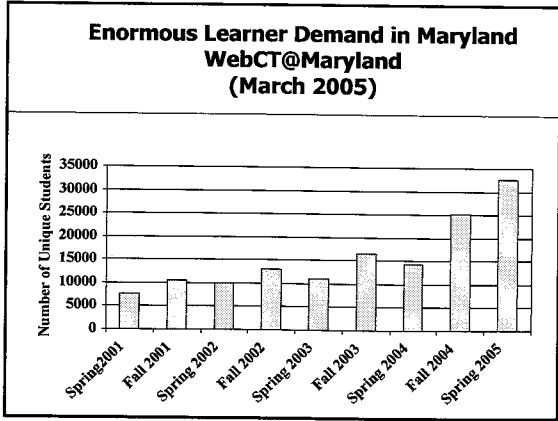
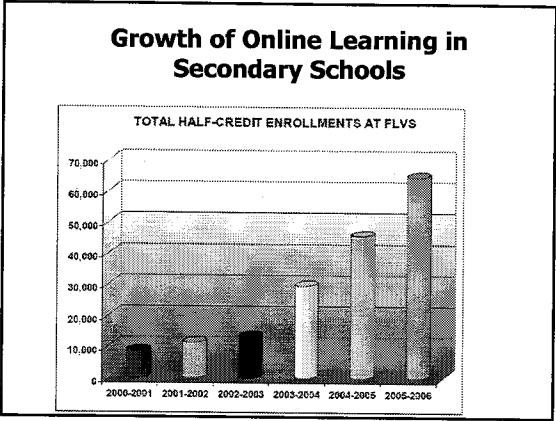
In Shakespeare's day, gaining greater access to his plays meant taking it out with the other "groundings" for the best view of the stage. It took centuries for the modern printing press to bring plays like *Hamlet* to people all around the world – and for the Bard to become one of the most quoted writers in history.

Now Shakespeare's oeuvre is even more accessible. Search within *Hamlet* for "to be or not to be" to read the rest of his famous soliloquy. Find out who called the world his "eggshell" and why. Browse through a familiar play – or follow your curiosity to discover a new one. And if you decide you want to buy a copy, "All editions" will show you every version in [Google Book Search](#), many of which are available for purchase.

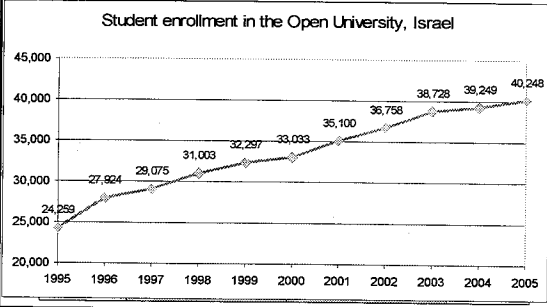
The Ten Forces that Flattened the World

The Learning World is Flat

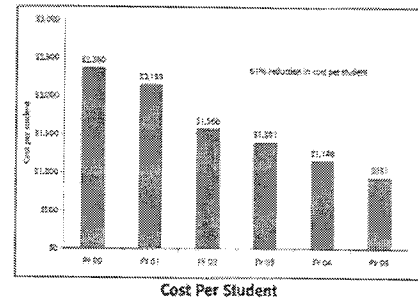
2. Rise in Demand for Online Learning



Open University of Israel (overall enrollment growth)



Defense Acquisition University Shaping a Culture of Career-Long Learning



The Ten Forces that Flattened the World

3. Open-Sourcing Learning: Sakai, Moodle, eduCommons



Free and Open Source Software

Steven Weber, Professor of Political Science at UC Berkeley, *The Success of Open Source* (published by Harvard University Press).

"Weber started out asking why a large number of programmers would be motivated to volunteer their time to a goal that does not have a direct individual financial benefit, but found that more pertinent questions should be asked."



**The Success of Open Source:
A Subject for UC Berkeley Researcher**
By Paula Murphy, TLTC Assoc. Director, Dec 2004
<http://www.uctlrc.org/news/2004/12/weber.php>

"If you are going to try to scale production systems to non-friendly, non-kinship groups, you have to have some sort of governance," explains Weber. "For example, I would not put my lecture notes on the web because I feel strangely about people I don't know benefiting from my work without them giving anything in return."

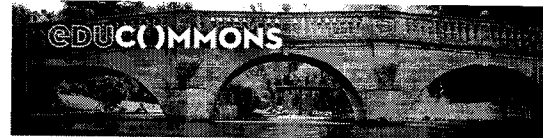


Steven Weber, Professor of Political Science at UC Berkeley and author of The Success of Open Source (published by Harvard University Press).

"The trick for the open source projects is to find a way to create that reverse flow such that if I donate a piece of intellectual product to something that other people are going to use and modify, I want to somehow benefit from what they're learning -- that's the key exchange. The trick, and what people are experimenting with, are different ways to structure that exchange so it works."



1. eduCommons



[View eduCommons in Action](#) | [Download the Source Code](#) | [View the Installation Instructions](#)

eduCommons is an OpenCourseWare Management System designed specifically to support OpenCourseWare projects. It provides the functionality necessary to successfully develop and manage an open access repository, including a workflow process that steps users through uploading materials into a repository, tracking copyright clearance, reassembly of materials into courses, a quality assurance process, and final publication of the materials. While the front end of eduCommons is designed to visually align with other OCW, the back end architecture is directly closer to proprietary like Canvas LMS - all resources are stored as individual learning objects in order to facilitate easy reuse/downloads. eduCommons is open source software available from [SourceForge](#).

eduCommons is generously funded by [The William and Flora Hewlett Foundation](#) and the [National Science Foundation](#).

Blackboard Buying and Suing
<http://www.washingtontimes.com/business/20060814-100821-5993r.htm>

The educational software market continues to grow, and so does the bottom line of Blackboard Inc., the D.C. provider of products for schools and universities.

The company last week announced second-quarter revenue of \$43.6 million, a 32 percent jump from last year's \$33 million.

Blackboard, nearly six months after acquiring its largest competitor, WebCT Inc., for \$178 million, reported a net loss of \$6.3 million (23 cents per diluted share) compared with earnings of \$6.1 million (21 cents) a year

Blackboard sees 32 percent growth
 By Kim Rawland
 THE WASHINGTON TIMES
 August 13, 2006

2. Moodle

The screenshot shows the Moodle website interface. It features a 'Moodle sites' section with a line graph showing growth over time. Below the graph is a table with columns for 'Country', 'Users', 'Courses', 'Languages', 'Themes', 'Plugins', and 'Screenshots'. The table lists various countries and their corresponding statistics. To the right, there is a 'Latest News' section with a list of recent updates and a 'Moodle Development' section with a list of development tasks.

3. Sakai Project

The screenshot shows the Sakai Project website. It features a large world map in the center, surrounded by navigation links and a list of project partners. The website has a clean, professional design with a dark header and a light background.


4. Learn from MIT


The screenshot shows the Learn from MIT website. It features a list of courses and resources, including 'Introduction to Computer Science', 'Introduction to Physics', and 'Introduction to Chemistry'. The website has a clean, professional design with a dark header and a light background.

The Ten Forces that Flattened the World

The Learning World is Flat

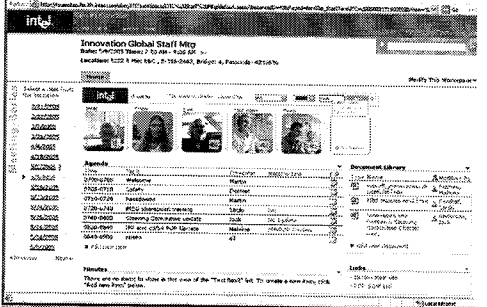
4. Collaboration (e.g., SharePoint, Groove, Word, Interwise, Breeze)





Sharing in Virtual Teams (e.g., Groove, SharePoint)

Ray Ozzie
Founder, Office Networks



Online Groups...

Yahoo! My Yahoo! Mail News Yahoo! Search

YAHOO! GROUPS

Sign In New Group

Yahoo! Groups
The easiest way for groups of people to communicate on the internet

- Play or touch with friends, family and colleagues
- Discuss sports, health, news, and more
- Connect with people who share your interests

To view My Groups you need a Yahoo! ID.
Don't have a Yahoo! ID? Signing up is easy
[Sign up for Yahoo!](#)

Already have a Yahoo! ID? Sign in:
Yahoo! ID: _____
Password: _____
 Remember my ID on this computer
[Sign In](#)

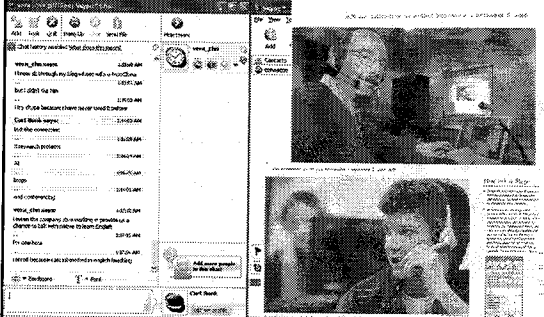
Find a Group

Search: _____

of groups by fishing, antique stores, soccer players

- Business & Finance
- Computers & Internet
- Culture & Community
- Entertainment & Arts
- Family & Home
- Food
- Transportation & Vehicles
- Health & Wellness
- Hobbies & Crafts
- Music
- Relationships & Dating
- Religion


Skype



The Ten Forces that Flattened the World

The Learning World is Flat

5. Learning Portability (Podcasting, Mobile technology)



Audacity

The Free, Cross-Platform Sound Editor

Audacity is the open source multiplatform recording and editing software. It is available for Mac OS X, Microsoft Windows, GNU/Linux, and other operating systems. [LEARN MORE ABOUT AUDACITY](#)

Download Audacity 1.2.2 for Mac OS X

\$100 Laptop

The project aims to build peer-to-peer communications

SEITECH

A revolution in a laptop by cheap internet

Since 17 August 2005, SITECH has been...

After an investigation took 15 years ago when Thomas Ferguson and Robert Darden were in their prime, the SITECH (founded in 1990), entered in the era of the internet PC.

A quarter of a century, the legacy of the PC is ubiquitous.

Change is the only constant.

NEGROPONTE

NEGROPONTE FROM NEGRO

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

OLPC

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

