
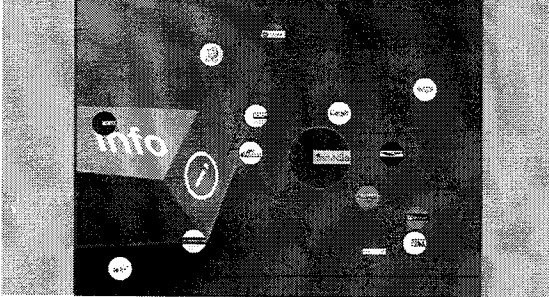


**Oops, Did You Mean to Share that?
Opensource, Opencourseware, and the
Learning Objects of Tomorrow**

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)

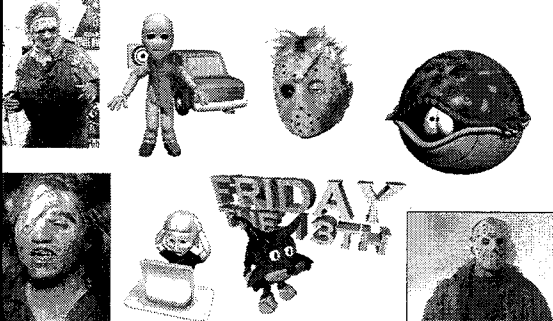
"Knowledge sharing is the way (social) and means (technical) by which an individual, team, organization and/or community connects and communicates, to continually create, innovate, learn and act."

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

- Yes
- No
- Not sure



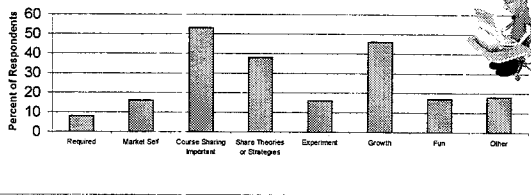
Most are Scared to Share!!!



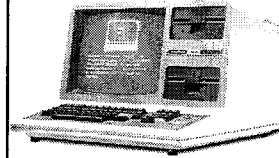
Why Share?

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*



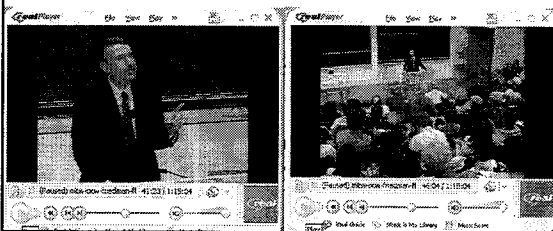
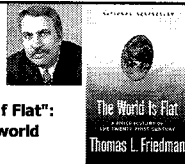
Technology for Sharing in 1980



Radio Shack TRS-80 Model III

Introduced: July 1980
 Price: US \$890 base model
 US \$2495 w/ 32K, dual drives.
 CPU: Zilog Z-80, 2.03 MHz
 RAM: 4K, 48K max.
 Ports: Cassette tape, expansion, serial
 Display: 12-inch EMV monitor 64 X 16 text
 Storage: 0, 1, or 2 internal 178K floppy drives
 External cassette @ 500 / 1500 baud
 OS: BASIC in ROM, TRS-DOS on disk

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

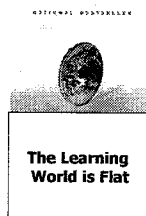


The Ten Forces that Flattened the World

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!



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, Jurom)
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 Print Project

Search the full text of books (and discover new ones).

About Google Print - Information for Publishers - Google Home

The Ten Forces that Flattened the World

The Learning World is Flat

2. Rise in Demand for Online Learning

Peak Consulting, an educational consulting group, estimates:

- 1 million American high school students are currently taking Internet courses in 2004-05
- 571,000 in 2003
- 378,000 in 2002

◆ More students log on to learn, Boston.com, Peter Schworm, September 16, 2004.

Kelley Direct Online Programs

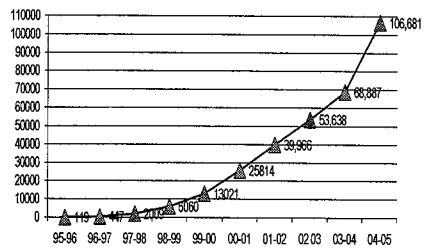
Indiana University Kelley School of Business

Growth in Student Enrollments at KD

Year	Certificate Programs	MS	Public MBA	Corporate MBA
2002-3	~500	~100	~100	~100
2003-4	~650	~150	~150	~150
2004-5	~800	~200	~200	~200

Kelley Direct Online Programs
KD.IU.EDU
Indiana University Kelley School of Business

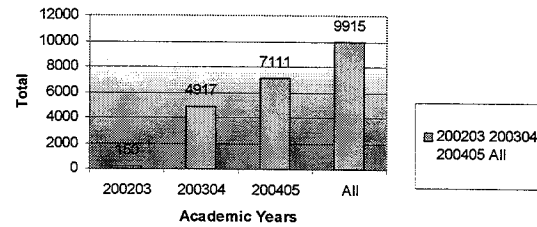
SUNY Learning Network (SLN) Online course enrollments



<http://sln.suny.edu/>

Dublin Institute of Technology

Staff and Students using WebCT



Even Shaq is taking courses online

2005 NBA Playoffs

Updated: June 20, 2005, 6:12 PM ET

Shaq joins University of Phoenix grad

Associated Press

JINGLEWOOD, Calif. -- Shaquille O'Neal returned to the Forum on Saturday, not for an NBA game, but to pick up his MBA.

The man who once called himself the Big Aristotle was the tallest and most famous of the 2,200 University of Phoenix graduates at the arena. But O'Neal said he was simply getting ready for the real world.

"It's just something to have on my resume [and] when I go back into reality," he tweeted Monday.

Shaquille O'Neal
Center
6'10-11 (feet)
240 lbs (pounds)



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.uclt.c.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."

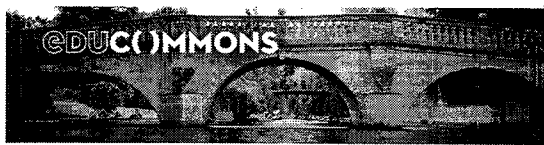


Steven Weber, Professor of Political Science at UC Berkeley and author of *The Success of Open Source* (published by Harvard University Press).

"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 Software Code](#) | [Get the Installation Instructions](#)

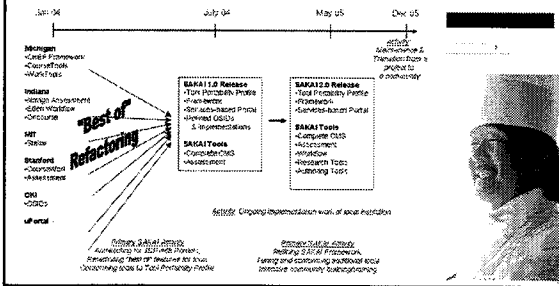
eduCommons is an OpenCourseWare Management System designed specifically to support OpenCourseWare projects like MIT OCW and UC Berkeley's edX. eduCommons provides the functionality necessary to sustainably develop and manage an open access collection, including a workflow process that helps users through uploading materials and a repository. Using 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 closely align with other OCW's, the back end architecture is subtly closer to something like Canvas LMS; all resources are stored as individual learning objects in order to facilitate easy reuse across systems. eduCommons is open source software available from SourceForge.

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

The screenshot shows the Moodle website interface. At the top, there are navigation tabs for Home, Site, and News. The main content area features a "Site news" section with a "Moodle 1.2 Beta" announcement dated 20/February/2005. Below the news, there is a profile picture and name "HOLY COW! It's good". To the right, there is a small code snippet:
$$\int_1^2 (x^2 - 2x^2)^{-1/2} dx$$

3. Sakai Project

SAKAI Overview



4. Nicenet (http://nicenet.org/)

The screenshot shows the Nicenet website. The header includes "NICENET" and "Internet Classroom Assistant" with a date of Monday, August 20, 2002 08:29:15 EDT. The main content area is titled "Resource" and lists various links and documents, including "Nicenet Resource", "Nicenet User Manual", and "Nicenet Frequently Asked Questions".

The Ten Forces that Flattened the World

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

The Learning World is Flat

Money

Generation Y: They've arrived at work with a new attitude

By Stephanie Aronson, USA TODAY

They're young, smart, brash. They may wear flip-flops to the office or listen to iPods at their desks. They want to work, but they don't want work to be their life.

By Glenn Breen, USA TODAY

Think it's Generation Y, a force of as many as 70 million, and the first wave is just now embarking on their careers — taking their place in an increasingly multigenerational workplace.

Get ready, because this generation — whose members have not yet hit 30 — is different from any that have come before. According to researchers and authors such as Bruce Vroman, a founder of Silver Spring, Conn.-based TheSavvyGeneration, which studies the lives of young people.

There is no consensus over the exact date of the generation's birth.

Generation Y

Generation Y, also known as the Millennials, is the first generation to be raised with the Internet and digital technology. They are characterized by their use of technology, their desire for work-life balance, and their focus on personal development.

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

Ray Ozzie
Founder, Groove Networks

Online Groups...

Google Groups BETA

Web Images Groups Sites Groups Local Scholar More

Learn more about Google Groups

Members: Sign in • Quickly access your favorite groups • Start new discussions

New users: Sign in • Follow your bookmarked (G+) topics • Check new messages

Arts and Entertainment Business and Finance

Computers Health

Home News

Recreation Religion and Politics

Science and Technology Society and Humanities

Become all of them...

Skype

Google Talk

Talk and IM with your friends for free

They say talk is cheap. Google thinks it should be free. Google Talk enables you to talk or send instant messages to your friends for free—anytime, anywhere in the world. Google Talk offers you:

- **Click-to-Talk:** Get in touch over email, IM or a call
- **Quality:** Talk through your computer but hear your friends as if they were in the same room
- **Convenience:** Your Gmail contacts are pre-loaded into Google Talk so finding or adding to your friends is just a click away

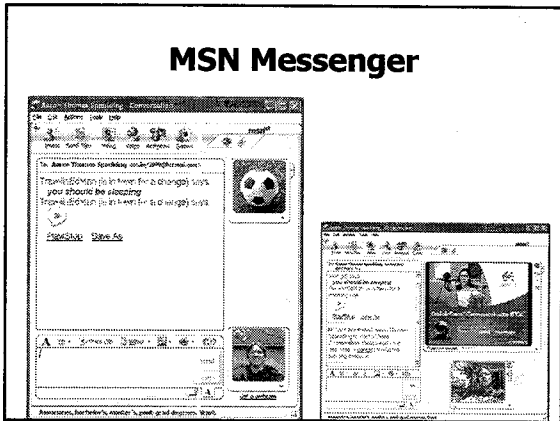
Google Talk is in beta and requires a Gmail account and password. Don't have Gmail? Get an account using your mobile phone (GTM only).

By downloading, you agree to see Terms of Service and Privacy Policy

[Download Google Talk](#)

Get the latest version of Google Talk for Windows, Mac OS X, and Linux users can connect to Google Talk using XMPP clients.

Google Talk is not a telephony service and cannot be used for emergency calling.



The Ten Forces that Flattened the World

5. Learning Portability (Podcasting, Mobile technology)

The Learning World is Flat

The image is a screenshot of the Audacity website. It features the Audacity logo, navigation links, and a section titled "The Free, Cross-Platform Sound Editor". Below this, there is a "Download Audacity 1.3.2" button and a "Description" section. To the right, there is a photograph of a person in a boat on a body of water.

Wireless Technology

MOST (UN)WIRED SCHOOLS?

CNET and U.S. News and World Report got the top 50 universities' tech specs and asked them which computers they recommend to students and faculty.

[CLICK HERE TO VIEW](#)

A collage of images showing people using mobile devices, a person sitting on a bench, and other scenes related to technology in an educational context.

Mobile Technology

The image shows a screenshot of the msn Tech & Gadgets page. It includes a navigation menu on the left with categories like "New", "Products Reviews", "Download in Free", "News", "News & Events", "Mobile", "What's Security", "Setup", "Download IT", and "Deals". The main content area features a headline "Next hot trend for cell phones: Reading?" and a sub-headline "Mobile technology meets the novel in Japan".

A photograph of a person holding a mobile device, likely a PDA or early smartphone, and looking at the screen.

Podcasting

<http://itunes.stanford.edu/>

The image is a screenshot of the "Stanford on iTunes" website. It features the Stanford University logo and the text "Stanford University and Apple are pleased to offer university-related audio content via iTunes". Below this, there are several podcast listings with titles, authors, and dates.

Sharing Music: Pod Casting Broadcasts

(Adam Curry; www.dailysourcecode.com)

A collage of images including a person holding a mobile device, a person's face, and a screenshot of a BusinessWeek online article. The article is titled "Internet Radio 101" and discusses the concept of podcasting and music sharing.

