




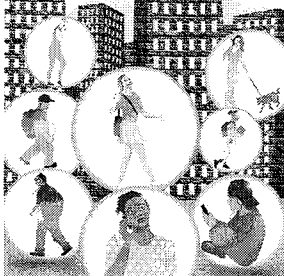


How the Learning World Became Flat: Ten Knowledge Sharing and Technology Trends Equalizing Access to Learning


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

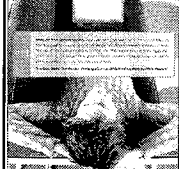
Next Generation of Students




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



"STUDENT 2.0"



Technology for Tracking Eye Movements





INFORMATION TECHNOLOGY







Bonk's Addiction Q'er

1. Who has 2 or more cell phones with Internet access?
2. Who has 2 or more laptop computers with wireless connections?
3. Who is on email in the morning? At noon? Who does it at night?
4. Who suffers from nervous tension when you cannot get on email?
5. Who is on the Web right now?





■ 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



- 11/9/89: Berlin Wall came down
- 8/9/95: Netscape went public
- Work Flow Software (e.g., PayPal and eBay)
- Open-Sourcing (Self organizing collaborative communities; Mosaic, Apache, Wikipedia, Linux, Mozilla/Firefox,)
- Outsourcing (Y2K)
- Offshoring (e.g., China, Mexico, Thailand)
- Supply-Chaining (e.g., Walmart)
- In-sourcing (UPS fixing Toshiba laptops)
- In-forming (e.g., Google, Yahoo!, MSN Web Search)
- The Steroids: Digital, Mobile, Personal, and Virtual (e.g., wireless, file sharing, VoIP, video camera in phone)



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!



Google and Other Search Engines (Sergey Brin, Co-Founder) Google to Impact Chip in Brain!

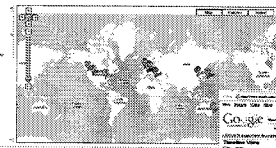
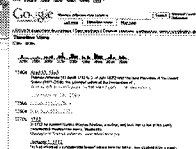




Google founder dreams of Google implant in your brain

Book and software that will help you find what you need

Book and software that will help you find what you need

Google Working on Timeline and Map Views

Google is working on a new timeline and map view for its search engine.

The new timeline view will allow users to see a chronological list of their search history.

The new map view will allow users to see a geographical view of their search history.

OPEN Content Alliance


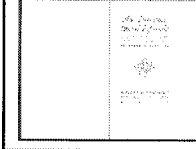
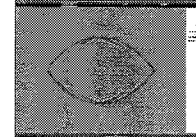
Build a digital archive of open content for your library

The University of Illinois Chicago announces the availability of a newly digitized collection of 100,000 rare books and scrolls through the Open Content Alliance with digitization in the library's library archive.

Open Content Alliance January 26, 2007

The University of Illinois Chicago has announced a project to digitize and make freely available the holdings of the University of Illinois Chicago Library. The library will use the Open Content Alliance to digitize and make freely available the holdings of the University of Illinois Chicago Library. The library will use the Open Content Alliance to digitize and make freely available the holdings of the University of Illinois Chicago Library.


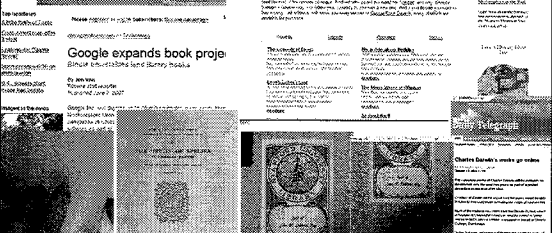
Read, Listen, etc. to "An International Episode" by William James

Read, Listen, etc. to "An International Episode" by William James

The book is available in multiple formats, including text, audio, and video.

All of Darwin's and Shakespeare's Works are Online

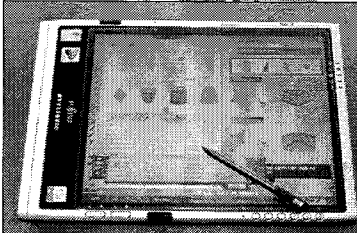




Google expands book project

Chicago Tribune

Shakespeare's works go online

eBooks: Thinner, Crisper, and Cheaper

eBooks are becoming more popular as they offer a convenient and portable way to read.

They are also becoming thinner, crisper, and cheaper.

Digital History Project (University of Houston)

The screenshot shows a website interface with a map of the United States, a sidebar with navigation links, and a main content area with text and images. The title "Digital History Project" is prominently displayed at the top.

The Carlyle Letters Online: Exploring Victorian World Through Letters

The screenshot displays a website with a header, a main text area containing historical letters, and a sidebar with a portrait of a man. The title "The Carlyle Letters Online" is at the top.

New Forms of Digital Literacy (new tests from ETS)

The screenshot shows an educational interface with a line graph on the left, a central image of a person's face, and text on the right. The title "New Forms of Digital Literacy" is at the top.

The Ten Forces that Flattened the World

2. Enormous E-Learning and Blended Learning

The screenshot shows an article titled "Students prefer online courses" with a small image of a person. The title "The Ten Forces that Flattened the World" is at the top.

FLORIDA'S ONLINE BOOM

Year	Registrations
1996	77
1997	277
1998	630
1999	2,677
2000	6,755
2001	9,928
2002	12,823
2003	25,616
2004	37,914
2005	65,960

University of Central Florida Access, Quality, and Efficiency through Online Learning Academic Year 2006-2007

Fully Online (W) Registrations

Academic Year (summer-fall-spring)	Registrations
96-97	645
97-98	1530
98-99	3096
99-00	5568
00-01	8710
01-02	12778
02-03	15828
03-04	21950
04-05	29187
05-06	35148
06-07	42398

The Open Univ Malaysia

(Abtar Kaur, 2005, Ed Media)

- Started August 2001 : approx. 800 students
- Total students (2005): approx. 33,000
- Total full-time academic staff : 60
- Total part-time academic staff (tutors) : approx 3,000
- 33 Learning Centres (7 Regional Centres)
- Pedagogical approach : Blended Learning

Year	Enrollment
2001	800
2002	1500
2003	2500
2004	30000
2005	33000

The Ten Forces that Flattened the World

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

1. 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 coalition including a workflow process that steps users through uploading materials into a repository, tracking copyright clearance, availability 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's, the back end architecture is uniquely closer to something like Coursera - all resources are stored on 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.

2. Moodle

The Sakai Project

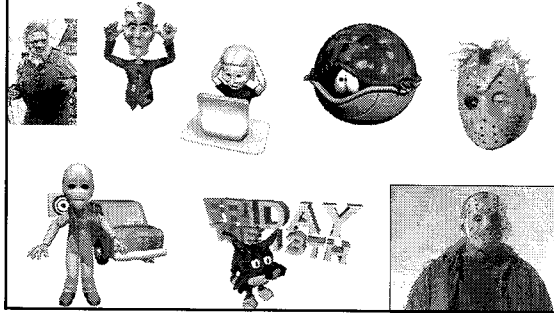
The Ten Forces that Flattened the World

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

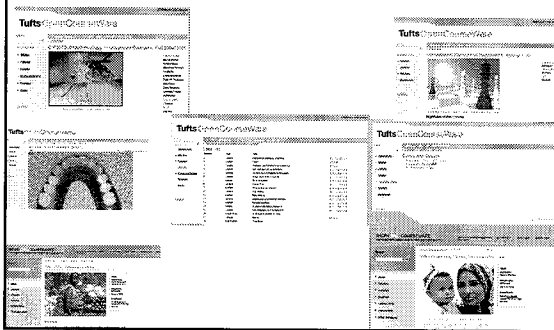
Do You Share?

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?

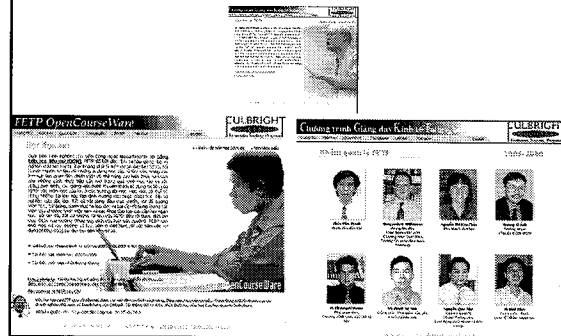
Most are Scared to Share!!!



Tufts OpenCourseWare Project



Vietnam Fulbright Economics OCW



Open Source Courseware



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."

