


The Flat World Swung Open: Now WE-ALL-LEARN with Web Technology

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Have you read or listened to Thomas Friedman's book, *The World is Flat*.

- Yes, more than once.
- Yes, once, most or all of it.
- Yes, I read parts of it.
- No, but I flipped through the pages.
- No, but I plan to someday.
- No and I do not plan to.


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)





Michael Perham and Zac Sunderland (each age 17;; youngest person to sail solo around the world..and blog on it, use Skype, YouTube, take videos, post pictures)





UCLA blogs to offer front-row seat at archaeology digs
 By Meg Sullivan, 6/25/2008
<http://newsroom.ucla.edu/portal/ucla/dig-in-archaeology-fans-52202.aspx>





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)** 


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. 


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!!! 

This Could Be the Year of e-Textbooks
Many titles are available, but students are wary.
Jeffrey Young, September 7, 2009

September 7, 2009
This Could Be the Year of e-Textbooks
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Sign of the times: At the San Diego State U. bookstore, a poster exhorts students to "Buy This Textbook as an eTextbook."

E-books: 4 choices (Paperback, Kindle, iPhone, or iPod listening)

Reading Dickens Four Ways
How 'Little Dorrit' goes in multiple text formats

Free Online Books

(Terry Anderson and Fathi Elloumi, eds. *Theory and Practice of Online Learning*; Canada: Athabasca University, 2004), http://oda.athabascau.ca/online_book/, 55,000 downloads in first year)

Opener #2. E-Learning and Blended Learning

The Learning World is Open

Capella Tower

225 South Sixth Street, Minneapolis
Formerly, the "Halo"

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	15,611,710	NA	1,332,979	NA	8.7%
Fall 2003	15,900,479	1.7%	1,371,397	23.0%	11.7%
Fall 2004	17,272,043	2.2%	2,323,783	15.2%	13.6%
Fall 2005	17,428,500	0.2%	3,180,050	26.3%	18.2%
Fall 2006	17,647,720	1.3%	3,458,281	9.7%	18.5%

SOURCE: Online Higher Education Institute, Learning Experience 2007

UIS Online & Blended Enrollment

Free and Open Courses (Tom Reeves Evaluation Course at Georgia; David Wiley's Web 2.0 courses at BYU; Connectivism from George Siemens and Stephen Downes, 24 enrolled, 2,000+ sitting in)

...evaluation results were second competing to the interests and ideologies of stakeholders, stakeholders usually regarded scientific good as more in decision-making, and problem solving is far from a rational endeavor." - Shalizi, Cook, & Levina, 1991

"Evaluation is what separates astronomy from astrology, good experiments from bad ones, good experimental designs - for bridge designs - from inferior ones, good scientists, engineers and technologists from run-of-the-mill ones." - Scriven, 1993

Instructor: Tom C. Reeves, Ph.D., Director of Instructional Technology, Utah State Office of Instructional Technology, Utah State University, 4200 East 6300 South, Provo, UT 84602, USA, 200.378.2424, tom.reeves@utahstate.edu

Co-instructor: Stephen Downes, Ph.D., Director of Instructional Technology, Utah State Office of Instructional Technology, Utah State University, 4200 East 6300 South, Provo, UT 84602, USA, 200.378.2424, stephen.downes@utahstate.edu

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

The Learning World is Open

INFORMATION TECHNOLOGY

Open Source Software Will Be the Mainstream Computing

Blackboard

Moodle (620,000 registered users in 204 countries speaking 78 languages, 2/10/2009)

moodle

Moodle sites

Moodle downloads

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

OpenCourseWare

Remix Open Textbook

Open Educational Resources (OER) Post Courses in YouTube and iTunes (e.g., Berkeley)

Berkeley

Open Educational Resources

OpenCourseWare (OCW)

Cute Kitten or Transformation? (per George Siemens)

MITOPENCOURSEWARE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

OPEN EDUCATION
"free education for all"

Open Yale

Open University of the Netherlands

OPEN COURSEWARE CONSORTIUM

OPEN EDUCATIONAL RESOURCES

Wendy Ermold, University of Washington,

scientific programmer and field technician for the Polar Science Center since 1998; with Mike Steele in the study of Arctic Circulation, and the mechanisms controlling it.

Opensource Opencourseware Prototype System (OOPS) funded by, the Foundation of Fantasy, Lucifer Chu, Chairman and Janitor of OOPS, Taipei)

The Biggest OCW Localization Volunteer Group in the World

OOPS

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

OOPS
開放式課程計劃

Sample OpenCourseWare Projects (Tufts, Johns Hopkins)

Tufts OpenCourseWare

Johns Hopkins OpenCourseWare

<http://academicearth.org/>

ACADEMIC EARTH

Thousands of video lectures from the world's top scholars.

The History of China

Philosophy of Life and Death

Mission Statement

National Repository for Online Courses (NROC) Commons

NROC COMMONS

OpenStax

edX

FutureLearn

Udacity

Udacity

Udacity

Cape Town Open Education Declaration, Dec 2007

<http://www.capetowndeclaration.org/>

THE CAPE TOWN OPEN EDUCATION DECLARATION

Read the Declaration

Open Education Declaration
 The Cape Town Open Education Declaration is a statement of intent by the open education community. It is a commitment to the principles of open education, to the sharing of knowledge and to the creation of a global open education network. It is a call to action for all those who believe in the power of open education to transform the world.

Peer2Peer University and University of the People (free!)

Neeru Paharia is behind Peer2Peer University, Fast Company, September 2009, How Web-Savvy Edupunks Are Transforming American Higher Education

Technology Review

Israel starts 1st billion-free online university

Israeli Entrepreneur Plans a Free Global University That Will Be Online Only

TAKE IT

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

From left, three views of a fragment of one of the Dead Sea Scrolls: a plain digital image, a color scan and an infrared scan.

August 27, 2008, Israel to Display the Dead Sea Scrolls on the Internet, By ETHAN BRONNER, The New York Times

The Learning World is Open

Tracking Live Internet Thawing: A Colossal of an Idea

Deep-Sea Behemoth
 Captain John Bennett examines the world's first intact adult male colossal squid on board his New Zealand fishing boat in February, 2007, in the Ross Sea near Antarctica. The gigantic sea creature weighs a world record 1,089 pounds. After being frozen whole for over a year, scientists at New Zealand's national museum will thaw the squid for further study.

Ida (a transitional species) 47-Million-Year-Old Darwinius Masillae Fossil the Missing Link?(wowOwow, May 20, 2009)

horizons blog

The Complete Works of Charles Darwin and Shakespeare

The Complete Works of Charles Darwin Online

Referatory: MERLOT.org

(67,000 members, 21,000 learning materials,
2/10/2009)

Communities

Discipline Communities: Explore discipline pages that are most colleges and universities

Workforce Development Communities: Explore resources supporting professional and applied programs

Partner Communities: Explore resources supporting MERLOT's Partner Communities and prizes

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

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

The Learning World is Open

creative commons

flat world KNOWLEDGE

Wikis: Wikipedia and Wikibooks

WIKIMEDIA

Wikipedia

Wikibooks

Web 2.0 and Emerging Learning Technologies

THE FUTURE OF THE INTERNET AND HOW TO STOP IT

Jonathan Zittrain

OPENING UP
EDUCATION

The Wealth of Networks

THE ROYAL CHANNEL

Kyle Minogue collects her OBE at Buckingham

Experience with YouTube:

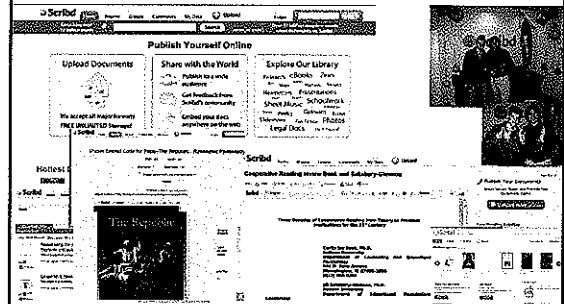
- I have watched YouTube Videos.
- I have watched and shared YouTube videos
- I have watched, shared, and commented on YouTube videos.
- I have watched, shared, and created YouTube videos.
- None of the above.



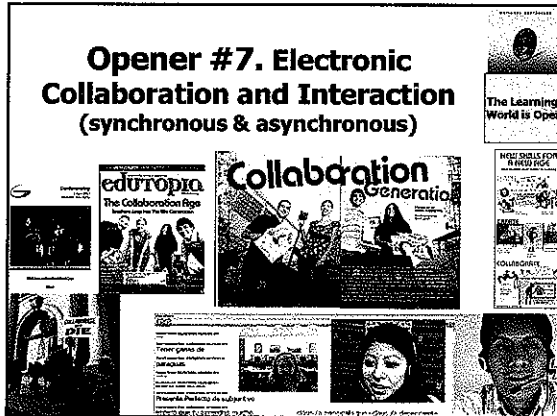
Fora TV, Link TV, UStream



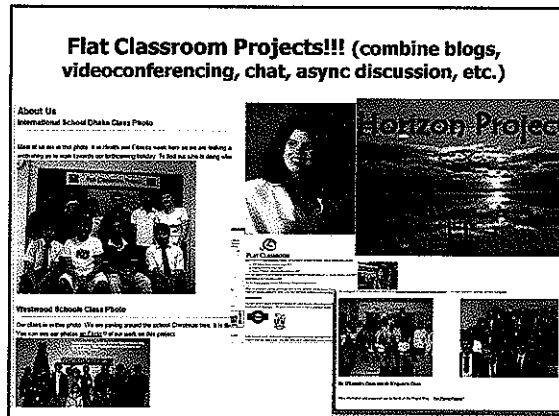
Posting Documents on Web Scribd: <http://www.scribd.com/>; 21 million unique visitors per month, May 2008



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



Flat Classroom Projects!!! (combine blogs, videoconferencing, chat, async discussion, etc.)



Iran after the June Election
<http://www.cnn.com/video/#/video/world/2009/06/17/amanpour.uk.covering.iran.cnn>

Voxopop (audio threaded conversations)
<http://www.voxopop.com/>

What if your children could interact with explorers in Antarctica?

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

Do you own an iPhone?

- Yes
- No, but I own an iPod
- No, but I own an iPod
- No, but I own an iPod and an iPhone
- No, I own none of the above.

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

Pull yourself away from that iPhone and read this story

By Mary Brophy Marcus, USA Today
http://www.usatoday.com/printedition/life/20091005/epediction05_start.htm

- 50 million iPhone users and 85,000 applications.

Pull yourself away from that iPhone and read this story

Africa is Going Mobile!

40,000 new mobile subscribers a week in Rwanda; Rwanda Newtimes report, January 2009

Africa is the continent with the fastest growth, where penetration has soared from just one in 50 people at the turn of the century to 28%. International Telecommunications Union (ITU), March 2009

India: In 2008, 7M new mobile subscribers a month. In January, 2009, the number sky rocketed to 15.4M (Growth was driven by people in the poorest region)

Globally: 60,000 new mobile subscriptions every hour!!!

(per Paul Kim, Stanford, 2009); Nokia Research Lab
http://www.yahoo.com/us/afp/20090308/bc_afp/indiaconomy/aftecom

Terabyte thumb Drives and Magic Pens! (The Pulse from Livescribe)

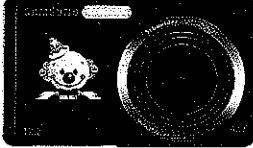

Second, we need new ways to record info:
 Smartpens: "Never Miss a Word"

Mobile Learning in India with Paul Kim

<http://www.stanford.edu/~phkim/curt/India.pdf>

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

The Learning World is Open

September 30, 2009
the Samsung DualView TL225

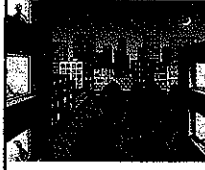

Facebook: The New Classroom Commons?, Chronicle of HE Harriet L. Schwartz, September 28, 2009

'Flocking' behavior lands on social networking sites
USA Today, September 28, 2009, Sharon Jayson

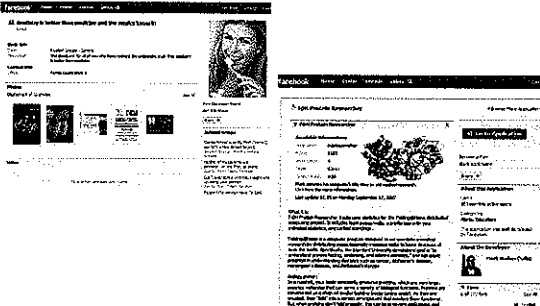
Growth of social networking sites
Social networking site users (as a percentage of total internet users):
August '08: 23.5%
August '09: 47.7%

SOCIAL NETWORKING
Top social networking sites
Total unique visitors in August (from home, work, or college)

Facebook.com	192.7 million
MySpace.com	64.2 million
Twitter.com	22.8 million
LinkedIn.com	17.4 million
Classmate.com plus	13.9 million
Bebo.com	12.1 million
Hi5.com plus	11.4 million
Windows Live People	10.3 million

Create a Social Networking Group (MySpace, Facebook, LinkedIn)




Podcast Shows TWIT (This Week in Tech) <http://live.twit.tv/>



60 Second Recap <http://www.60secondrecap.com/> Access to students: Lend me your earbuds! English major, 24, rambunctiously recaps the classics in 60-second Web videos; By Greg Toppe; USA TODAY http://www.usatoday.com/printedition/life/20090908/booksinaminute08_st.art.htm?loc=interstitialskip

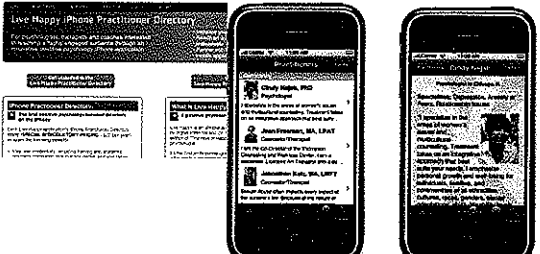
Access to students: Lend me your earbuds!



Live Happy Practitioner Directory <http://www.signalpatterns.com/practitioner>

SIGNAL PATTERNS

Live Happy iPhone Practitioner Directory



Learning Towns are Popping up!

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

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

WE ALL LEARN!!!