



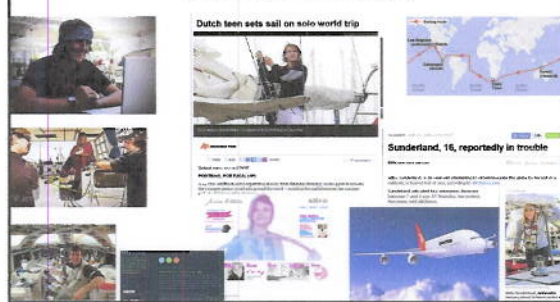




**David Thomas, Archeologist, La Trobe University, Australia (Discovery News)**



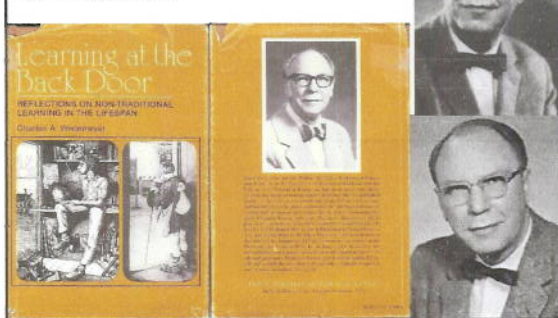
**Michael Perham & Zac Sunderland, Summer 2009 (each age 17, youngest person to sail solo around the world...and blog on it, use Skype, YouTube, take videos, post pictures, Minoru Saito, age 75, oldest solo sailor; August 21, 2010: 14 year-old Dutch girl)**



Perhaps people learning online are akin to the alien archaeologists in the 2008 movie, *Indiana Jones and the Kingdom of the Crystal Skull*, Indy said, **"Their treasure wasn't gold, it was knowledge. Knowledge was their treasure."**



**Charles Wedemeyer, University of Wisconsin**



**But new technologies hit us now everyday!**



**WE-ALL-LEARN:**  

**Ten Forces that Opened the Learning World**

- **W**eb Searching in the World of e-Books (i.e., Darwin)
- **E**-Learning and Blended Learning
- **A**vailability of Open Source and Free Software (e.g., Moodle)
- **L**everaged Resources and OpenCourseWare (e.g., MIT)
- **L**earning Object Repositories and Portals (i.e., shared content)
- **L**earner Participation in Open Info Communities (YouTube)
- **E**lectronic Collaboration and Interaction (sync and async)
- **A**lternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- **R**eal-Time Mobility and Portability (e.g., iPhone)
- **N**etworks 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!!!** 

**Free Online Books and now the Blio**  
**(a free e-book platform to run on any device;**  
**Bright Spots: Canada, Korea, and California)**



**July 29, 2010**  
**Amazon unveils 3rd-generation Kindle e-book reader, USA Today, Edward C. Baig**

The image shows a hand holding a Kindle e-reader. Below it is a screenshot of the Amazon website with the headline "Amazon unveils 3rd-generation Kindle e-book reader". To the right is a photo of Jeff Bezos speaking at a podium with the Amazon logo.

**April 10, 2010: Seton Hill University, 2,100 students an iPad and freshmen a 13-inch MacBook laptop.**  
**August 10, 2010, Can college students learn as well on iPads, e-books?, USA Today, Beth Marklein**

This block contains a collage of news articles and photos. The main article is from USA Today, dated June 7, 2010, with the headline "Does iPad have the magic to bring people together?". Other smaller articles include "An iPad for Everyone" and "Opener #2. E-Learning and Blended Learning". Photos show students using iPads and Steve Jobs holding one.

**July 23, 2010**  
**India unveils \$35 computer for students, CNN World, Harmeet Shah Singh**

[http://www.cnn.com/2010/07/23/INDIA.35dollar.laptop/index.html?hpid=hp\\_tech\\_story](http://www.cnn.com/2010/07/23/INDIA.35dollar.laptop/index.html?hpid=hp_tech_story)  
[http://www.cnn.com/video/3/india/35dollar/2010/07/23/cnn.tech.laptop.india.com/?hpt=hp\\_tech\\_story](http://www.cnn.com/video/3/india/35dollar/2010/07/23/cnn.tech.laptop.india.com/?hpt=hp_tech_story)

The image shows a screenshot of the CNN World website. The headline reads "India unveils \$35 computer for students". Below the headline are two photos: one of a man holding a laptop and another of a man pointing at a screen.

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

This block features a screenshot of the Oprah.com website. The main content is a video player showing Oprah Winfrey. The page title is "Opener #2. E-Learning and Blended Learning". There are also links to "NEW EARTH WEB EVENT" and "More in the Classroom".

**Letter from Bill Gates about online learning (January, 2010)**  
<http://www.gatesfoundation.org/annual-letter/2010/Pages/education-learning-online.aspx>

The image shows a screenshot of the Gates Foundation website. The headline is "2010 Annual Letter from Bill Gates: Online Learning". Below the headline are several photos of students and teachers in a classroom setting.

**Salmon Khan (Khan Academy) (videos on math, bio, trig, chemistry, money and banking, economics, statistics, etc.; <http://www.khanacademy.org/>)**


This block contains a collage of Khan Academy content. It includes a video player showing Salman Khan, a YouTube channel page for Khan Academy, and a newspaper article titled "Salman Khan: Math master of Internet".



**iSMART: Integration of Science, Mathematics, and Reflective Teaching (iSMART) is a FREE 2-year online graduate program for middle school science and mathematics teachers in Texas, University of Houston**

<http://www.coe.uh.edu/mycoe/CUIN/math/iSMART%20 flyer4.pdf>  
<http://www.coe.uh.edu/mycoe/CUIN/math/iSMART.cfm>

You see the big picture. You find the connections. Make it official - become iSMART.



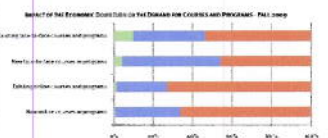
**Jen Chauvot and Mimi Lee, Univ of Houston**

**TOTAL AND ONLINE ENROLLMENT IN DEGREE-GRANTING POSTSECONDARY INSTITUTIONS - FALL 2002 THROUGH FALL 2008**

	Total Enrollment	Annual Growth Rate Total Enrollment	Students Taking at Least One Online Course	Annual Growth Rate Online Enrollment	Online Enrollment as a Percent of Total Enrollment
Fall 2002	16,611,710	NA	1,602,970	NA	9.6%
Fall 2003	16,931,481	1.8%	1,971,397	23.0%	11.7%
Fall 2004	17,272,043	2.1%	2,329,783	18.2%	13.5%
Fall 2005	17,487,481	1.2%	3,180,050	36.5%	18.2%
Fall 2006	17,758,872	1.6%	3,488,381	9.7%	19.6%
Fall 2007	17,975,830	1.2%	3,938,111	12.9%	21.9%
Fall 2008	18,199,920	1.2%	4,606,353	16.9%	25.3%

**Open U of Malaysia, March 25, 2010**


Year 2001	763
Year 2002	7622
Year 2003	16968
Year 2004	26666
Year 2005	35996
Year 2006	53248
Year 2007	64489
Year 2008	75425
Year 2009	86409
Year 2010	91223



**Mexico's Monterrey Tech Pushes E-Learning, as Some Worry It Won't Solve Region's Burgeoning Need**  
**June 16, 2010, Chronicle of Higher Ed, Marion Lloyd**

"A decade ago, only one in 50 Mexicans had access to the Internet. Today that figure is one in four, a staggering cultural transformation that is fueling a boom in online degree programs in the country."

Monterrey Institute of Technology and Higher Education...has allowed it to reach more than 35,000 new students



**U.S. DEPARTMENT OF EDUCATION**

**Evaluation of Evidence-Based Practices in Online Learning**  
 A Meta-Analysis and Review of Online Learning Studies

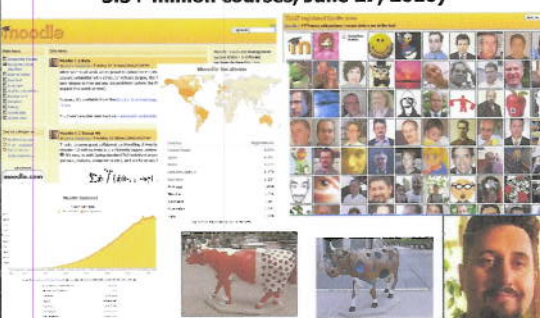


**Opener #3. Availability of Open Source and Free Software (e.g., Linux, Apache, Moodle, Sakai)**

The Learning World is Open



**Moodle (35+ million users (930,000 registered) in 213 countries, nearly 50,000 sites, 3.5+ million courses, June 27, 2010)**





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

The Learning World is Open

MIT OPEN COURSEWARE  
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Open Yale

Exc. Traditional Textbooks

We ReMix Open Textbooks!

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

Berkeley  
University of California

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

OOPS! 開放式課程計劃

### National Repository for Online Courses (NROC) and OER Commons

NROC

Tufts OpenCourseWare

### 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

Israelis starts 1st tuition-free online university

Israel's Entrepreneur Plans a Free Global University That Will Be Online Only

Technology Review

TAKE IT!

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

The Learning World is Open

A Single Group Helps Trigger an Online-Publishing Explosion

The Public Knowledge Project, a nonprofit group, estimates that the online-publishing software it offers free has given rise to more than 5,000 open-access academic journals around the world. Below is their geographic distribution, by continent, as of last month.

North America 6,243

Europe 6,216

Asia 2,116

South America 2,047

Africa 206

Oceania 106

**College 2.0: More Professors Could Share Lectures Online. But Should They?, Chronicle of HE, Jeffrey R. Young, March 7, 2010**

"The introduction of video into almost every aspect of our learning and work tasks is profound and "disrupting." As designers, we must experiment with these formats – looking for evidence and appropriate use cases and examples of when not to use video." (Video blogs, Webinars, Webcasts, keynotes, etc., Elliott Masie, Learning Trends, March 2, 2010)



**How about rich video portals? Most of the Websites below did not exist 5 or 10 years ago.**

1. BBC News Video and Audio
2. CNN.com Video
3. MSNBC.com
4. Google Video, Yahoo Video
5. Current TV
6. Fora TV
7. MIT World
8. YouTube, YouTube Edu
9. TeacherTube
10. Link TV, Explore, Global Pulse, Latin Pulse
11. Howcast, Big Think, WonderHowTo, Explo.TV, NASA TV, ClipChef, TV Lesson, BookTV, Edutopia videos, MonkeySee, doFlick, the Research Channel, iVideosong



**How TED Connects the Idea-Hungry Elite, Fast Company, Anya Kamenetz, September 1, 2010**

<https://www.fastcompany.com/magazine/148/how-ted-became-the-new-harvard.html>

**Chris Anderson: The entrepreneur bought TED in 2001. "It felt like something you could devote your life to," he says**

**More Shared Online Video: Academic Earth, TV Lesson, and Fora TV**

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

**Human Brain Dissected Today in a Live Webcast, Chronicle of Higher Education, December 02, 2009, 01:00 PM ET**

[http://chronicle.com/blogPost/Human-Brain-Dissected-Today-in/9053/?id=pm&utm\\_source=pm&utm\\_medium=en](http://chronicle.com/blogPost/Human-Brain-Dissected-Today-in/9053/?id=pm&utm_source=pm&utm_medium=en)

### The Complete Works of Charles Darwin, The Carlyle Letters, The Diary of Samuel Pepys, ect.

The image shows a collage of digital humanities projects. At the top left is a screenshot of a website titled "The Diary of Samuel Pepys". To its right is a portrait of Charles Darwin. Below these are a portrait of Samuel Pepys and a person sitting at a desk with a laptop. The overall theme is the digitization and online availability of historical texts.

### The Royal Society 350th anniversary celebrations puts historic papers online (Captain Cook, Sir Isaac Newton and Benjamin Franklin), BBC, Nov 30, 2009

<http://news.bbc.co.uk/2/hi/science/nature/8381425.stm>

Audio slideshow: 350 years of discovery

The world's oldest science academy, The Royal Society in London, is celebrating its 350th anniversary by putting 500 years' worth of experimental science on some of the world's oldest papers online. Digital versions of papers such as Captain Cook, Sir Isaac Newton and Benjamin Franklin are being made available online. They have a special online presentation space - with the benefit of search engines and others.

The image is a collage celebrating the Royal Society's 350th anniversary. It features a screenshot of a BBC news article titled "The Royal Society puts historic papers online". A prominent historical document is shown with the words "ACCOMPT OF THE GREAT UNDERSTANDING, WISDOM, AND TALENTS OF THE VERY INGENIOUS SIR ISAAC NEWTON, IN MANY CONSIDERABLE PARTS". Other elements include a portrait of a man and a person at a computer.

### Sharing Repositories and Referatories

**MERLOT.org:** 78,472 members, 21,690 Inrg materials, Jan 3, 2010  
**Connexions:** Dec 2009, 1.6m unique users, 4 million page views, 72 million hits, More than 1m users, 200 countries  
**Curriki:** Free K-12 contents.  
**National Repository of Online Course, Jorum, OER Commons, etc.**

This collage highlights various OER repositories. It features screenshots of the MERLOT.org website, the Connexions website, and the Curriki website. There are also portraits of several individuals, likely associated with these projects or the broader OER movement.

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

The Learning World is Open

The image is a collage about learner participation in open information communities. It includes logos for "flatworld KNOWLEDGE", "WikipEDIA", and "shifthappens". There are also several portraits of individuals, some of whom appear to be speaking or presenting.

### John Dewey, Seymour Papert, John Seely Brown, Ivan Illich, Stephen Heppell, Henry Jenkins

This collage features portraits of six prominent figures in education and technology: John Dewey, Seymour Papert, John Seely Brown, Ivan Illich, Stephen Heppell, and Henry Jenkins. The portraits are arranged in a grid-like fashion, with some showing the individuals in more recent, contemporary settings.

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

The image is a collage about online conferencing. It features screenshots of Ustream presentations, including one titled "LEONARD MADRELL PRESENTATION". There are also images of a person speaking and a person at a computer, illustrating the virtual nature of these conferences.

## Shared Online Video (e.g., YouTube and the Royal Channel)



## "Video Primers in an Online Repository for e-Teaching and Learning" V-PORTAL, TravelinEdMan (27 free/open YouTube videos), September 2010

<http://www.youtube.com/user/TravelinEdMan>

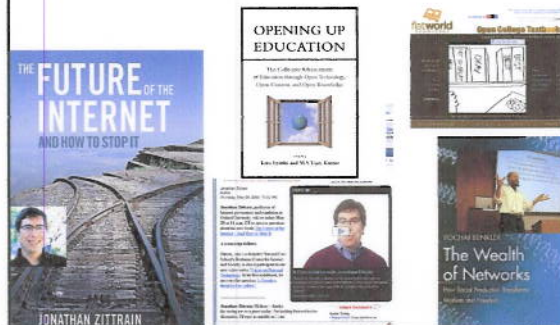


## Individual Produced Videos (e.g., African School Dream in Current TV)

[http://current.com/items/77146082\\_african\\_school\\_dream](http://current.com/items/77146082_african_school_dream)



## Participatory E-Books



## Scribd: Documents on Web (<http://www.scribd.com/>; 50 million unique visitors per month, 10's of millions of documents, April 2010)



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





**August 5, 2010, Remaking the College Campus, Bridget McCrea, Campus Technology**  
**June 2010, 7 Tips for Building Collaborative Learning Spaces, Campus Technology, Matt Villano**

**CAMPUS TECHNOLOGY**

**7 TIPS FOR BUILDING COLLABORATIVE LEARNING SPACES**

**Remaking the College Campus**

**Yonsei University, Seoul, Korea**

**Synchronous Conferencing Presentations**

**The Next Generation of Videoconferencing Chronicle of HE, October 21, 2009**

**The Next Generation of Videoconferencing**

October 21, 2009

Footage courtesy of USC Institute for Creative Technologies

Researchers at the University of Southern California and the University of South Carolina are creating new tools that may soon let people attend videoconferences...

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

The Learning World is Open

**Second Life**  
(business, law, education, English, medicine)

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

The Learning World is Open

15m people/month India  
40,000/week Rwanda  
60,000 earthlings/hour

**"A" is for App, Anya Kamenetz, Fast Company, April 2010**

Apple, iPad & the Smart Phone: Adam Osato's thoughts

**FAST COMPANY**

The REAL SMART PHONE REVOLUTION

How Tech is Changing Life

Force is with new GPS units

**June 9, 2010**

DUSE

WikiReader:  
Updating can be a pain.

TwitterPeek:  
Restricted to Twitter.

**Museum of London's Streetmuseum App Puts Historic Photos in Perspective**

Written by Chris Cameron, June 1, 2010

"Hundreds of images from the Museum of London's extensive collections showcase both everyday and momentous occasions in London's history, from the Great Fire of 1666 to the swinging sixties"

iPhone Screenshots

MUSEUM OF LONDON STREETMUSEUM

Carnaby Street

MUSEUM OF LONDON

**Social Networking Gaming (e.g., Farmville)**  
 For social networks, it's game on, USA Today, Jon Swartz, Thursday October 15, 2009

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

The Learning World is Open

September 30, 2009  
 the Samsung DualView TL225

**Social Learning Unleashed**  
 Chief Learning Officer, April 2010

Driving greater collaboration: **With 17,000 internal blogs and 53,000 employees on Social Blue, IBM's version of Facebook, and 500,000 participants in the company crowdsourcing jams, IBM's social media usage has become big business. As of 2008, IBM's jams identified 10 incubator businesses with the potential of reaching \$100 million.**

**August 10, 2010**  
 Flipboard pretties up social-media updates  
 Facebook statuses and tweets feed into magazinelike format in free app for iPad  
 Jefferson Graham, USA TODAY  
[http://www.usatoday.com/printedition/money/20100811/flipboard11\\_st.art.htm](http://www.usatoday.com/printedition/money/20100811/flipboard11_st.art.htm)

**Some Papers Are Uploaded to Bangalore to Be Graded, Chronicle of Higher Education, April 4, 2010, Audrey Williams June**

Lori Whisenant, who teaches business law and ethics at the U. of Houston, has outsourced the grading of students' papers to a private company.

**July 21, 2010 vs. Sept. 28, 2009**  
 Status update: Facebook logs 500 million members, USA TODAY, Kristin McGrath

Platform	Members
Facebook.com	52.2 million
MySpace.com	64.2 million
Twitter.com	20.8 million
Digg.com	17.4 million
Classmates.com sites	13.9 million
Reference Platform (part of Int'l)	12.1 million
HotA.com sites	11.4 million
Windows Live Profile	10.3 million

## Teaching With Twitter

**Chronicle of HE, Jeffrey Young, November 22, 2009**  
 Sugato Chakravarty, a professor of consumer sciences and retailing at Purdue University, has welcomed Twitter into the lecture hall, even though the service lets students engage in back-channel discussions. The questions submitted via **Hotseat** for the professor and guest speakers are projected for all the students to see.

## 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

## Decisions for this Open Ed World?

- **Technology and Admin Folks:**
  - What do to about OER, open sources, E-books, mobile, etc.?
- **Instructor decisions:**
  - Act as Concierge, Counselor, Course facilitator, Credit manager?
- **Students decisions:**
  - Should I attend traditional university or create your own degree path?
  - How to report use of OER on resumes?

- This book is an attempt to reveal a wide range of learning options in front of you while also offering you a framework to make sense of them. As the Grail Knight said in the 1989 movie, *Indiana Jones and the Last Crusade*, "choose wisely." If you do, **WE-ALL-LEARN**. The world is now open to you!

**Slides at: TrainingShare.com**  
**Papers: PublicationShare.com**  
**Book: <http://worldisopen.com/>**

**The World is Open.**  
**What happens then?**

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