

## The Flat World Swung Open: How Web Technology Is Revolutionizing Education

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## UCLA Summer Digs Program

Dig in, archaeology fans! UCLA blogs to offer front-row seat at archaeology digs, Meg Sullivan, 6/25/2008



## 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, now Abby Sunderland age 16, Minoru Saito, age 75, oldest solo sailor)



## 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**ead-Time Mobility and Portability (e.g., iPhone)
- **N**etworks of Personalized Learning (Blogs, RSS)



## Opener #1. Web Searching (e.g., Google, MSN, Yahoo!) in the World of e-Books (i.e., Darwin, Shakespeare, etc.)



## Tablet May Help E-Textbook Market, Publishers Hope

Chronicle of HE, Jeffrey Young  
 January 31, 2010



Guests play with Apple's new iPad at an event announcing its debut in San Francisco. At least one college is considering giving iPads to new students, but the jury on whether the device will revolutionize learning will be out for a while.

## Free Online Books

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

The collage includes several book covers such as 'Theory and Practice of Online Learning' and 'Open and Distance Education'. A central image shows a man in a suit. To the right is a screenshot of an eSCHOOL NEWS article titled 'California considers open digital textbooks'.

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

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The screenshot shows the OPRAN.COM website with a banner for 'NEW EARTH WEB EVENT' featuring Oprah Winfrey. The site includes navigation menus, a 'More in the Classroom' section, and a 'Post-it! Flag' logo.

## 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.

The collage features photos of students working in a classroom and a screenshot of the iSMART website, which includes a logo and program details.

### 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	16,651,710	NA	1,602,070	NA	9.6%
Fall 2003	16,911,481	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	17,258,872	1.6%	3,488,381	9.7%	19.6%
Fall 2007	17,075,830	1.2%	3,938,111	12.9%	21.9%
Fall 2008	18,199,920	1.2%	4,606,353	16.9%	25.3%

UIS Online & Blended Enrollment

The bar chart shows enrollment trends for UIS Online (blue bars) and Blended Enrollment (green bars) from 2002 to 2008. A small inset photo shows a person at a computer.

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

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The collage includes photos of a chef, a person in a white lab coat, and a screenshot of a Blackboard website with the text 'INFORMATION TECHNOLOGY' and 'Blackboard'.

## Moodle (32+ million registered users in 208 countries, 3+ million courses, 2/6/2010)

The screenshot shows the Moodle website interface with various statistics, a grid of user avatars, and a 'Moodle downloads' section.

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

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Open Yale

MIT OPENCOURSEWARE

Exc. Traditional Textbooks

We Rent Open Textbooks!

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

### 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

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

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

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### Link TV, Academic Earth, TV Lesson, and Fora TV

Transforming the System: An Interview with Michelle Rhee

FORA.TV

Transforming the System: An Interview with Michelle Rhee

### 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 natural sciences, the Royal Society in London, is marking its 350th anniversary celebrations by putting the public's front row seats to the most influential papers ever written in its open access digital archive, the Royal Society's digital archive.

Take a look at some of the most famous ones - all the Society's back of million, 1662-1663.

**Sharing Repositories and Referatories**  
**MERLOT.org: 78,472 members, 21,690 lnr materials, Jan 3, 2010**  
**Connexions: Dec 2009, 1.6m unique users, 4 million page views, 72 million hits, More than 1m users, 200 countries**  
**National Repository of Online Course, OER Commons**

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

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**Wikis: Wikipedia and Wikibooks**

WIKIPEDIA

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


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

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**Synchronous Conferencing Presentations**

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

October 21, 2009  
The Next Generation of Videoconferencing




Footage courtesy of USC Institute for Creative Technologies

Researchers at the University of Southern California and the University of North Carolina at Chapel Hill are creating new tools that may soon let people attend videoconferences as

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

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

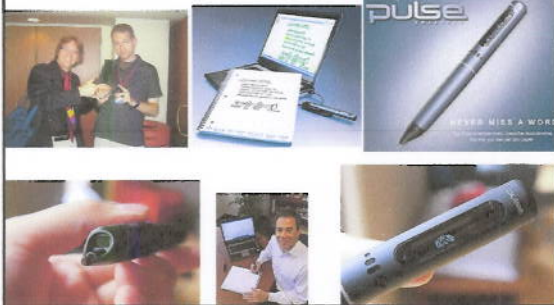


### Opener #9. Real-Time Mobility and Portability (e.g., iPhone, low cost wireless devices)

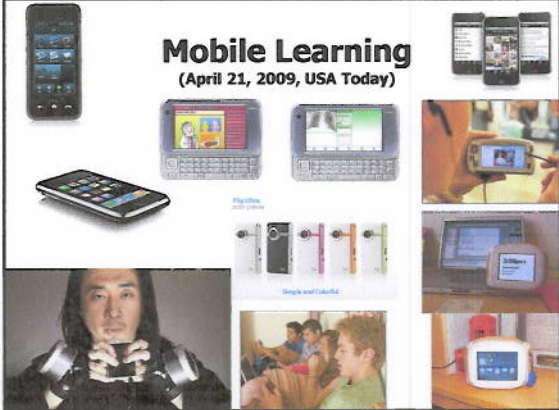
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### Terabyte thumb Drives and Magic Pens! (The Pulse from Livescribe, \$129-\$169)



### Mobile Learning (April 21, 2009, USA Today)



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






September 30, 2009  
the Samsung DualView TL225

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**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.



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Book: <http://worldisopen.com/>

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

**WE**

**ALL**

**LEARN!!!**

