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

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Who does e-learning benefit besides dogs and cats?

Those in a hurricane...
Those living where there are disease outbreaks...

Those in an earthquake...

Those in bad storms... (e.g., Groundhog Day Blizzard of 2011)

Aces of Spaces, Campus Technology, June 2011, Jennifer Demski

Yonsei University Library, Seoul, Korea
February 21, 2012
Rethinking Learning with Salman Khan
Stanford Graduate School of Business
Khan Academy Founder Finds Simplicity Appeals in Online Education Experimentation
Let's use video to reinvent education, TED, March 2011
http://www.youtube.com/watch?v=W-vj6BhQa5w
Khan Academy Founder Finds Simplicity Appeals in Online Education Experimentation
Let's use video to reinvent education, TED, March 2011
http://www.youtube.com/watch?v=W-vj6BhQa5w
February 19, 2012
Flipped Classrooms? Chronicle of HE
April 12, 2011
NCTM Conference, Free Online Degrees; Integration of Science, Mathematics, and Reflective Teaching (iSMART)
University of Houston
Jen Chauvot and Mimi Lee, Univ of Houston
May 2, 2012
MIT and Harvard announce edX
http://www.edxonline.org/about.html
EdX: The Future of Online Education is Now
http://www.youtube.com/watch?v=SA6ELdIRkRU
I am not Content!!!
**May 24, 2010**

*Author Nicholas Carr, The Web Shatters Focus, Rewires Brains, Wired*

http://www.wired.com/magazine/2010/05/ff_nicholas_carr/


**TUESDAY, MAY 17, 2011**

*15 reasons to BAN pens and pencils from the classroom, Donald Clark, Plan B*

http://donaldclarkplanb.blogspot.com/2011/05/7-reasons-to-ban-pens-and-pencils-from.html

**It is very open!**

(May 2011, Norway & June 2011 the Philippines)


**Question:**

What is the Web?

- An entertainment system?
- A writing aid?
- A communications system?
- A means to handle commercial transaction?
- A social networking device?

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No, it is a learning tool!

**The Web of Learning**
April 29, 2012
Open Education's Wide World of Possibilities,
Chronicle of Higher Education, Katherine Mangan

April 29, 2012
'Supersizing' the College Classroom:
How One Instructor Teaches 2,670 Students
Chronicle of Higher Education, Marc Parry

John Boyer teaches a megaclass in current events at Virginia Tech in person—and holds online office hours using Ustream.

We are entering a jumping off point...

Charles Wedemeyer,
University of Wisconsin

Framework #1: 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)

I'm an Armchair Indiana Jones...
Audience Participation!

1. WE
2. ALL
3. LEARN!!!
Worldreader, August 22, 2011
What Makes Ed Tech Successful in the Developing World?, ReadWriteWeb, David Risher
http://www.readwriteweb.com/archives/what_makes_educational_technology_successful_in_the_developing_world.php
Worldreader.org

January 29, 2012
Apple's new electronic textbook initiative just another chapter in a developing story, Herald Times, Mike Leonard

March 24, 2012
In South Korean classrooms, digital textbook revolution meets some resistance, Washington Post

Opener #2. E-Learning and Blended Learning

May 5, 2012
Shaq earns doctorate degree
http://www.youtube.com/watch?v=Szj6uQnBdjo

Growth Online in Higher Education in the USA

Total and Online Enrollment in Degree-granting Postsecondary Institutions – Fall 2002 through Fall 2010
More than six million post-secondary students are taking online classes in the USA; growing by 10% per year. 

February 16, 2012
University of Illinois at Springfield, Ray Schroeder
http://sites.google.com/site/rayschroeder/

Opener #3. Availability of Open Source and Free Software
Moodle (June 3, 2012: 58 million users in 216 countries, 67,162 sites, 6.2 million courses)

Opener #4. Leveraged Resources and OpenCourseWare (OCW) (e.g., free courses from Harvard Edx, MITx, CORE, OOPS)

August 2, 2011
Massive Open Online Courses (MOOC) and Graded Free OCW,
Stanford U. Offers Free Online Course in Artificial Intelligence, Jie Jenny Zou, Chronicle of Higher Education
(over 135,000 sign up as of August 27)
http://www.ai-class.com/

September 15, 2011, Graded Free OCW
Welcome to Stanford Engineering, Everywhere (SEE) http://see.stanford.edu/
A computer and an Internet connection are all you need. View lecture videos, access reading lists and other course handouts, take quizzes and tests, and communicate with other SEE students, all at your convenience.
January 23, 2012
Udacity- Sebastian Thrun
http://www.udacity.com/

February 15, 2012

February 16, 2012
Ray Schroeder, U of Illinois at Springfield Guest Speaker on Open Education Movement
http://breeze.iu.edu/p Wiley62/

February 16, 2012
Online Badges and Certifications from OER University of Illinois at Springfield, Ray Schroder
https://sites.google.com/site/opencontinuinged/

Badges for Online Learning
e.g., Khan Academy
http://www.khanacademy.org/badges/view

April 18, 2012
Coursera
Online-Education Start-Up Teams With Top-Ranked Universities to Offer Free Courses,
(https://www.coursera.org/)
April 25, 2012
MIT+K-12
Making Video to Make a Difference
http://k12videos.mit.edu/

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

The Learning World is Open

April 3, 2012
Google Art Project, NBC Nightly News
http://www.msnbc.msn.com/id/3032619/vp/46945508#46945508

September 2011
Online Encyclopedias
(e.g. the Encyclopedia of Life, Encyclopedia of Earth, etc.)

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

March 13, 2012
Educational Videos: TED-Ed
http://education.ted.com/
TV Lesson
(expert videos)

July 22, 2011
GETideas Channel, Cisco (Education Thought Leader Series uploaded to YouTube)
http://www.youtube.com/user/GETideasg"u

April 29, 2011
(e.g., YouTube and the Royal Channel)

October 2010, The V-PORTAL (Bonk, IU)
“Video Primers in an Online Repository for e-Teaching and Learning” V-PORTAL, TravelinEdMan (27 free/open YouTube videos)
http://www.youtube.com/user/TravelinEdMan

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

May 23, 2012
Scoop It!; Online Video in Education
Stephen Bright, eLearning Designer, Waikato Centre for eLearning
http://www.scoop.it/t/online-video-in-education
Grovo (short technology videos)
http://www.grovo.com/social-media

October 2011 (E-learn Conference)
History for Music Lovers, Washington Post
The French Revolution (“Bad Romance” by Lady Gaga)
Trojan Way (“Tainted Love” by Soft Cell)
Charlemagne (“Call Me” by Blondie)
http://www.youtube.com/watch?v=1pCVJiwCtB0

April 1, 2012
Dinosaurs and Origins of Humans, Brian J. Ford, Microbiologist, Cambridge, UK
http://www.youtube.com/watch?v=1pCVJiwCtB0
Origin of Humans: http://www.youtube.com/watch?v=1pCVJiwCtB0
Tellymonitor’s Channel: http://www.youtube.com/watch?v=1pCVJiwCtB0
Secret Weapons: http://www.youtube.com/watch?v=1pCVJiwCtB0
BBC programs on living cells: http://www.youtube.com/watch?v=1pCVJiwCtB0
Dinosaurs (Laboratory News, April 1, 2012): http://www.bbc.co.uk/discovery/revolution

April 6, 2011
Eric Whitacre: A virtual choir 2,000 voices strong
http://www.youtube.com/watch?v=6WhWDCw3Mng

Opener #7. Electronic Collaboration and Interaction
(synchronous & asynchronous; Leonardo Tosi, project manager in the ICT and education area of the INDIRE)

March 20, 2012
Georgetown Learning Initiatives
Soliya Connect
http://soliya.georgetown.edu
January 14, 2011
South African teens get virtual mentoring from all over the world, by Danielle Berger, CNN


February 8, 2012
On-Demand Videoconferencing with Experts (e.g., Peter Smith, VP, Kaplan University)

June 29, 2011 and July 6, 2012
Google+ Hangouts and Facebook Video calling

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

April/May 2011
Dr. Monica Rankin’s class
UT Dallas, Cuban Revolution

http://www.youtube.com/watch?v=ocQMF1kP098

December 24, 2010:
Social Networking Gaming
CityVille 16.8 million daily users, FarmVille’s 16.4 million. CityVille 61.7 million monthly users, FarmVille 56.8 million users. Mashable.
Augmented Reality, May 17, 2011: USA Today, Edward Baig, Augmented reality has potential to reshape our lives. (e.g., ZooBurst, Craig Kapp, NYU, pop-up books)

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

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

February 2012
SMILE: Stanford Mobile Inquiry-based Learning Environment

March 13, 2011
iPad Apps for Calculus, Math, Biology, etc. Chronicle of HE, Ben Wieder

At Pepperdine U. Timothy Lucas, an assistant professor of mathematics, shows a class how to use iPads for calculus. Linda Johnson, an assistant professor of biology at Chatham U., for her plant-physiology

October 5, 2011
Apple co-founder Steve Jobs dies, USA Today

SMILE: Stanford Mobile Inquiry-based Learning Environment

August 18, 2011
HowStuffWorks, iPhone App, USA Today, Marc Saltzman

SMILE: Stanford Mobile Inquiry-based Learning Environment
May 4, 2012
“Top Gear presenter James May meets his virtual self”, BBC
http://news.bbc.co.uk/2/hi/programmes/click_online/9718563.stm

Opener #10. Networks of Personalized Learning
(Blogs, Podcasts, MySpace, Flickr, and RSS)
The Samsung DualView TL225

May 4, 2012
Flexible displays bend what’s possible for computers,
Jon Swartz, USA Today
http://mediagallery.usatoday.com/Flexible+screen+displays/G3657,A12064

Components of the wrist-worn display prototype developed at HP Labs are shown in this illustration. When completed, the device will incorporate a working flexible display powered by solar cells.

December 16, 2010
Introducing Word Lens
http://www.youtube.com/watch?v=hZOKvLFHNHs

Online Language Learning
(e.g., EnglishCentral, iTalki, Palabea, Babbel)

May 7, 2012
Google+ Hangouts On Air: broadcast your conversation to the world
http://googleblog.blogspot.com/2012/05/google-hangouts-on-air-broadcast-your.html
June 3, 2012
Webheads discussion about MOOC

June 3, 2012
Tutor/ Mentor Connection (Chicago)
http://www.tutormentorprogramlocator.net/InteractiveMap.aspx

April 7, 2011
Expert Tutors as Mobile Apps (e.g., Tutor.com)

May 8, 2012
"Project Re: Brief | Coca-Cola | Mobile Ad Demo"
http://www.youtube.com/watch?v=45Z-GevoYB8&feature=relmfu

Decisions for this Open Ed World...
- Technology & Administrator Decisions:
  - What do to about OER, open sources, E-books, mobile, etc.?
- Instructional Designer & Trainer decisions:
  - Act as Concierge, Counselor, Course facilitator, Credit manager?
- Formal Learner & Informal Lrnr decisions:
  - Should I attend traditional university or create your own degree path?
  - How to report use of OER on resumes?

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

WE ALL LEARN!!!