Stretching the Edges of Technology-Enhanced Teaching: From Tinkering to Tottering to Totally Extreme Learning

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Yonsei University Library, Seoul, Korea

June 2010
Clay Shirky, NYU: How cognitive surplus will change the world, TED

September 2011
Meta-Analysis Update: Blended and Fully Online Still Best!

Evaluation of Evidence-Based Practice in Online Learning: A Meta-Analysis and Review of Online Learning Studies

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September 2010
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

February 4, 2011
New Enrollment History Chart: Florida Virtual School (Julie Young, President & CEO)

February 16, 2011
How Bill Gates' Favorite Teacher Wants to Disrupt Education, Gregory Fereisselins, Fast Company

iPad 2, March 2, 2011: Steve Jobs' surprise appearance a 'big deal', CNN Tec, Mark Milian, March 2, 2011,

April 12, 2011. NCTM Conference
Free Online Degrees
iSMART: Integration of Science, Mathematics, and Reflective Teaching (iSMART), University of Houston

April 29, 2011
Shared Online Video (e.g., YouTube and the Royal Channel)
July 7, 2011
Facebook says membership has grown to 750 million, USA Today, Jon Swartz

August 2, 2011
Stanford U. Offers Free Online Course in Artificial Intelligence, Jie Jenny Zou, Chronicle of Higher Education (over 100,000 sign up)
http://www.chronicle.com/

August 12, 2011
Moodle (45 million users in 209 countries, 54,000 sites, 4.6+ million courses)

But I am not Content!!!
September 15, 2010

Study: Online learning might be less effective for some, eSchool News, Dennis Carter

Classroom students scored 84.5 percent on the first exam in the economics course, and online students scored 83.3 percent.

May 24, 2010

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

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

A Half Dozen Learning Technology Trends of the Past Year...

#1. Online Language Learning

January 27, 2010 and Feb 5, 2010: The Web Way to Learn a Language, NY Times, ERIC A. TAUB (e.g., EnglishCentral, ITalkl, Palabrea, Babbel)

#2. Tablet Computers Hit (iPad)

April 10, 2010: Seton Hill Univ., 2,100 students an iPad and freshman a 13-inch MacBook laptop

Feb 1, 2011: An Android Tablet Made Just for School, David Zee, Fast Company

8/19/2011
#3. Pocket Dictionaries and Digital Textbook Projects (Korea), July 6, 2011: Henna Hug, In South Korea, all textbooks will be e-books by 2015. Speeding past the US, South Korea will be digitizing reading material in all public schools by 2019. Christian Science Monitor.

#4. Video Conferencing/Webcaming December 20, 2010: Skype for IPhone adds two-way video calling, CNet Reviews

First Look at Google+ Hangouts, June 29, 2011

Facebook introduces video calling, Eric Stoller, July 6, 2011, Inside Higher Ed

#5. Social Networking Gaming
December 24, 2010: CityVille 16.6 million daily users, FarmVille's 16.4 million. CityVille 61.7 million monthly users, FarmVille 56.8 million users. Mashable.

#6. E-Book Readers
January 28, 2011: Amazon: Kindle Books Finally Eclipse Paperbacks, Doug Amoreth
March 2, 2011: Why Amazon would be smart to give away the Kindle, March 4, 2011, CNN Tech, Any Gahrean

Whether a surge in e-book sales can be sustained and what effect it could have on traditional bookstores remains to be seen.
The Web of Learning

We are entering a jumping off point...
Elements of the Web's Next Generation

Tinkering

Tinker #1. Video Animations and Self-Testings

Tinker #2. Track Life of a Scientist or Famous People (e.g., Brian J Forde, independent scientist)

Tinker #3. Online Portals of Rich Data
United Nations Opens World Digital Library, Turning the Pages from the British Library, etc. (history, culture, literature, writing, art, etc.)
**Totally Extreme #1. Live Science**
(Nautilus Live allows people to watch expeditions live & listen to scientists in control rooms as discoveries are made)

**Totally Extreme #2. Immediate Science**
Ida (a transitional species) 47-Million-Year-Old Fossil the Missing Link? (May 20, 2009)

**Totally Extreme #3. Adventure Learning**
(e.g., GeoThentic, Earthducation, Polar Husky, GoNorth; Aaron Doering, Univ of Minnesota; cars and bikes—Dan Grec and Mark Beaumont)

**Totally Extreme #4. South African Teens get Virtual Mentoring from all over the world, by Danielle Berger, CNN, January 14, 2011**

**Totally Extreme #5. International and Global Education and Competitions**
(e.g., Global Game Jams, online role play, Global Videoconferencing)
**Totally Extreme #6.** Telepresence and Teleportec Systems (e.g., Cisco and HP)

**Totally Extreme #7. Military Mobile Learning**
(See: the U.S. Army Learning Concept for 2015; 2011, January 15).  
[https://www.youtube.com/watch?v=ggz99D96cTQ](https://www.youtube.com/watch?v=ggz99D96cTQ) (4:26 minutes)

**Totally Extreme #8. Open Teaching and Massive Open Online Courses (i.e., MOOC, David Wiley, George Siemens, Ray Schroeder)**

**Totally Extreme #9. Dr. Monica Rankin's class, UT Dallas, Cuban Revolution (April/May 2011)**
[http://www.youtube.com/watch?v=oQ4F1kPo98](http://www.youtube.com/watch?v=oQ4F1kPo98)

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**Any Extreme Questions?**
Slides at: TrainingShare.com  
Papers: PublicationShare.com  
Email: curt@worldisopen.com