
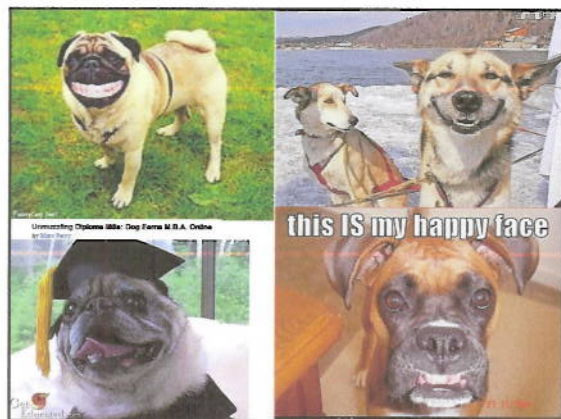
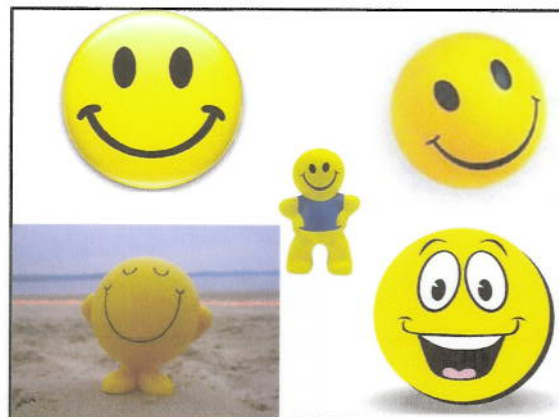


Stretching the Edges of Technology-Enhanced Teaching: From Tinkering to Tottering to Totally Extreme Learning

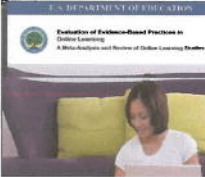
Curtis J. Bonk, Professor, Indiana University
 cjbonk@indiana.edu
<http://mypage.iu.edu/~cjbonk/>

June 2010
Clay Shirky, NYU: How cognitive surplus will change the world, TED
http://www.ted.com/talks/clay_shirky_how_cognitive_surplus_will_change_the_world.html



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



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

U.S. Department of Education
 Office of Planning, Evaluation, and Policy Development
 Policy and Program Studies Service

Prepared by
 Barbara Means
 Yukie Toyama
 Robert Murphy
 Marianne Bakia
 Karla Jones

Center for Technology in Learning

Revised September 2010

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)

Year	Completion Count
2001-2002	10,000
2002-2003	12,741
2003-2004	24,140
2004-2005	31,672
2005-2006	34,170
2006-2007	64,043
2007-2008	114,875
2008-2009	134,170
2009-2010	213,576

Completions are measured in half credit equivalents. Includes Florida Virtual School Classic FLVS student completions during a 12 month period.

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

iPad 2, March 2, 2011: Steve Jobs' surprise appearance a 'big deal', CNN Tec, Mark Milian, March 2, 2011,
<http://www.cnn.com/2011/03/02/tech/gadgets.03.02/steve.jobs.ipad2/index.html?ref=US1>

Whatever health concerns prompted Steve Jobs' leave didn't seem to affect his flair Wednesday as an Apple pitchman.

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

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

Jen Chauvot and Mimi Lee, Univ 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
http://www.usatoday.com/tech/news/2011-07-06-facebook-skype-growth_n.htm

Unique visitors growing, too
 Despite a dip in U.S. users in early 2011, visitors to Facebook have steadily grown over the past year.

Month	Unique Visitors (million)
June 2010	141.6
July 2010	145
August 2010	148
September 2010	150
October 2010	152
November 2010	153
December 2010	154
January 2011	155
February 2011	156
March 2011	157
April 2011	158
May 2011	157.2

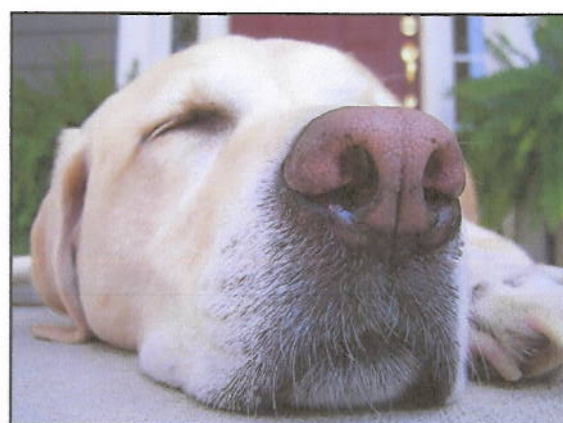
750 million users befriend Facebook

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.ai-class.com/>

Wired Campus: The latest news on tech and education

Started U. Offers Free Online Course in Artificial Intelligence

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



But I am not Content!!!

Catastrophes

HURRICANE IKE

TOKYAO 9.0 MEGALINK EARTHQUAKE

HAITI 7.0 MEGALINK EARTHQUAKE

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/ff_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, iTalki, Palabea, Babbel)

#2. Tablet Computers Hit (iPad)
April 10, 2010: Seton Hill Univ, 2,100 students an iPad and freshmen a 13-inch MacBook laptop
Feb 1, 2011: An Android Tablet Made Just for School, David Zax, Fast Company

#3. Pocket Dictionaries and Digital Textbook Projects (Korea), July 6, 2011:

Husna Haq, 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 2015. Christian Science Monitor.

Digital textbook using Tablet PC

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

WATCHING VIDEO ONLINE

Google's YouTube dominates online video viewing, but a host of competitors compete for its throne.

Top video-on-demand streams	Views
Google (YouTube)	14.3 billion
Hulu	2.7 billion
Yahoo	886 million
Vimeo	516 million
Viacom	497 million
Shutterstock	402 million
ADL	348 million
News	247 million
Fox Interactive (iFlix.com)	208 million
CBS	187 million

* Includes Comedy Central and MTV Source: ComScore Media Matrix, November

Free music video site Vevo eyes iPad, other mobile possibilities

Skype for iPhone adds two-way video calling

First Look at Google+ Hangouts, June 29, 2011

http://www.youtube.com/watch?v=KLDp3r4TA&annotation=34&aswotedition_389852&feature=cc

Google+ Hangouts

36,714

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

http://www.insidehighered.com/blog/student_affairs_and_technology/facebook_introduces_video_calling

Facebook introduces video calling

Facebook introduces video calling

Facebook introduces video calling

Facebook introduces video calling

Facebook introduces video calling

#5. Social Networking Gaming December 24, 2010: CityVille 16.8 million daily users, FarmVille's 16.4 million. CityVille 61.7 million monthly users, FarmVille 56.8 million users. Mashable.

"CityVille" is Now Bigger than "FarmVille"

FRONTIERVILLE

FARMVILLE

CITYVILLE

PLAY NOW

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

Amazon: Kindle Books Finally Eclipse Paperbacks

Kindle Fire

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

NING

We are entering a jumping off point...

Elements of the Web's Next Generation

Tinkering

TINKERING

Tinker #1. Video Animations and Self-Testings

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

<http://www.youtube.com/user/tellymonitor#p/u/1/LhGeApeKlar>

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.)

Tinker #4. Online Experiments (e.g., psychology)

perceptionlab

PSYCHEXPERIMENTS
Aligning Experiments on the Web

Participate in Experiments

Top Ten Online Psychology Experiments
By SANDRA KORM

Psych Central
Best of the Web

Tottering

Totter #1. Bridges to World of Expert and Practitioners (e.g., Watch or Listen to Online Conferences, Expert interviews, blogs, chats, etc.)

Totter #2. Global Class Videoconferencing and Remote Lands

(e.g., The seminar was structured on a series of videoconferences and virtual classes on e-learning platform, organized by the Major of the Health and Veterinary Corps of Italian Army Lorenzo TIDU, Veterinary of the Task Force South of the Regional Command West, which is strongly involved in the specific field in favor of populations of the villages in the province of Farah.)

Totter #3. Podcast Productions and Virtual Performances for students of pronunciation class (e.g., Tzu-Su Chen, Taiwan)

podomatic
PODCAST

tsuyi hseh's Podcast
Class 4 - 2009

Hey Jude, don't make it bad
Take a sad song and make it better

Totter #4. Video Blogging

YouTube

Reflective - Tech in Education

Justin Kling

Totally Extreme Learning

Totally Extreme #1. Live Science

(Nautilus Live allows people to watch expeditions live & listen to scientists in control rooms a discoveries 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

<http://www.cnn.com/2011/LIVING/01/13/cnnheroes.stokes/index.html?hpt=I2>

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). <http://www.youtube.com/watch?v=KD9NGAV3-3k> (4:26 minutes)

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

Totally Extreme #9. Dr. Monica Rankin's class, UT Dallas, Cuban Revolution (April/May 2011) <http://www.youtube.com/watch?v=ocQMf1kPo98>



Any Extreme Questions?

 Slides at: TrainingShare.com
 Papers: PublicationShare.com
 Book: <http://worldisopen.com/>
 Email: curt@worldisopen.com