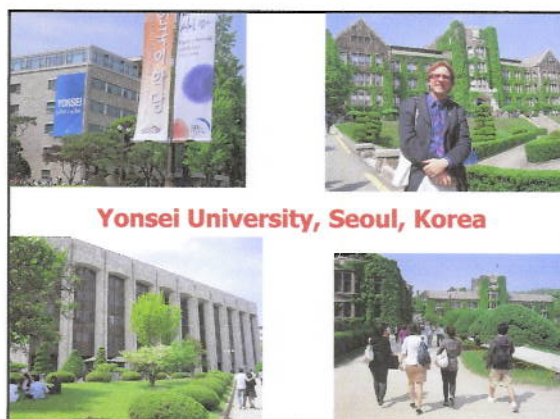
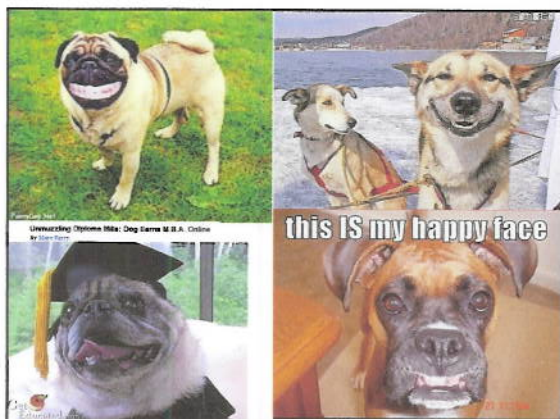



Stretching the Edges of Technology-Enhanced Teaching: From Tinkering to Tottering to Totally Extreme Learning

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





Yonsei University Library, Seoul, Korea



Yonsei University Library, Seoul, Korea



Yonsei University Library, Seoul, Korea



Saltire Centre
Glasgow Caledonian University
<http://www.gcu.ac.uk/thesaltirecentre/>

7 Tips for Building Collaborative Learning Spaces, Campus Technology, Matt Villano, June 2010

FACULTIES

7 TIPS FOR BUILDING COLLABORATIVE LEARNING SPACES Technology and design can work together to maximize the effectiveness of new learning environments. By Matt Villano

August 5, 2010
Remaking the College Campus,
Bridget McCrea, Campus Technology
<http://campustechnology.com/articles/2010/05/remaking-the-college-campus.aspx?Page=1>

CAMPUS TECHNOLOGY

Recently 54 Tech 248
You might disagree but we really believe in you. We're not just a part of your solution?

Click here to receive your FREE subscription to Campus Technology
 54 Proven Formulas 54 248 Hot Apps
 54 Tech Trends 54 Interview
 Remaking the College Campus
 An exciting column on how a college campus of the future where physical space, technology, and collaborative ideas.

Remaking the College Library, Bridget McCrea, 09/01/10, Campus Technology
Virtual Tour of New GVSU Library—USA and Bedford Library-UK
<http://www.youtube.com/watch?v=SbuDPopJxgQ>

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

SEEDS OF EMPOWERMENT
 Empowering for a part in our story

We Are Going Global Mobile!
 (Paul Kim, May 2010)

Seeds for Empowerment in Argentina, August 2011
<http://tecnologia.profesional.com/notas/120526-Telecom-y-la-cuna-de-Google-y-Yahoo-gruaban-smartphones-eficaces-en-escuelas-argentinas>

September 2010
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
 Evaluation of Evidence-Based Practices in Online Learning
 A Meta-Analysis and Review of Online Learning Studies

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

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

Center for Technology in Learning

Revised September 2010

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

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



December 15, 2010
Mark Zuckerberg, Time Magazine, Person of the Year

Person of the Year TIME

TIME Photos

canon

SOCIAL NETWORKING
 Top social networking sites
 Total unique visitors in August (from home based, mobile)

Facebook.com	92.2 million
MySpace.com	64.2 million
Twitter.com	20.2 million
Diigo.com	17.4 million
Classmates.com sites	13.9 million
Relocation Systems (partic list)	12.1 million
MLB.com sites	11.4 million
Windows Live Profile	10.3 million





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

FLVS Completion History
 As of June 30, 2010

2002-2003	10,000
2003-2004	13,000
2004-2005	24,118
2005-2006	36,079
2006-2007	54,710
2007-2008	84,500
2008-2009	114,000
2009-2010	134,170
2010-2011	211,500

Julie Young, President & CEO



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

YouTube
 Khan Academy on the Gates Notes

CMoney.com
FORTUNE
 Innovation in Education
Bill Gates' favorite teacher




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

<http://www.cnn.com/2011/TECH/gadgets/03/02/steve.jobs.ipad2/index.html?ref=NS1>

CNN Tech
Steve Jobs' surprise appearance a 'big deal'

Apple's Jobs unveils the iPad 2

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




April 12, 2011
NCTM Conference Session, 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)

May 9, 2011
Defense Acquisition University, Training Courses: Reaching the Workforce

	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
Classroom	28,859	25,489	24,368	28,192	29,684	34,587	35,697	33,191	35,861	39,568	45,864
Web	13,380	21,031	36,117	43,649	58,290	75,079	77,582	90,600	118,391	154,399	192,968
Total	42,239	46,520	60,485	71,841	87,974	109,666	113,279	123,791	154,252	193,967	238,832

Aug 20 Sep 10

July 20, 2011
Smart phones driving lecture capture growth
 eCampus News, Dennis Carter

<http://www.ecampusnews.com/technology/smart-phones-driving-lecture-capture-growth/>

August 3, 2011
Inking opens textbooks on the iPad
 USA Today, Jefferson Graham

<http://www.usatoday.com/story/technology/2011-08-02/inking-opens-textbooks/48764>

Some \$4.5 billion worth of textbooks were sold in 2010, according to the Association of American Publishers. Expects digital textbooks to represent 3% of sales in 2011, growing to 44% by 2017.


August 11, 2011
Unleashing the Potential of Technology in Education, The Boston Consulting Group, Allison Bailey, Tyce Henry, Lane McBride, & J. Pucket

<http://www.bcg.com/documents/file82603.pdf>

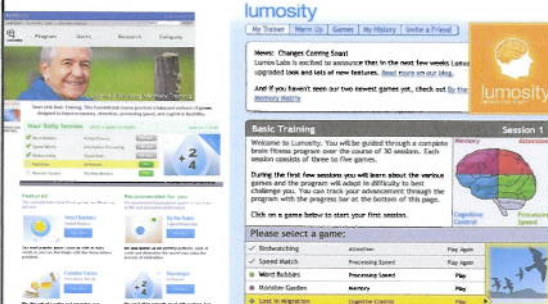
Table 5. U.S. Investment in Professional Development: The Green Shows That 'Normal' Through 2004

Year	Investment (\$ Billion)
2000	0.4
2001	0.5
2002	0.6
2003	0.7
2004	0.8
2005	0.9
2006	1.0
2007	1.1
2008	1.2
2009	1.3
2010	1.4

April and August 24, 2011
Departments Stay Afloat with new Online Ventures (new Ed.D. in IST/Ed Tech)
 (e.g., <http://iuconnected.iu.edu/>)
<http://newsinfo.iu.edu/news/page/normal/19372.html>



August 25, 2011
Brain-training games are new exercise craze, USA Today, (e.g., Lumosity, MindSparke;
<http://www.lumosity.com/>)



September 12th, 2011
Indiana University tries to drive down textbook costs with eBooks
Online textbooks initiative comes as student activists clamor for more affordable options nationwide, eCampus News, Denny Carter
<http://www.ecampusnews.com/2011/09/12/indiana-splashes-for-drove-down-textbook-costs-with-ebooks/>



September 12th, 2011
Adapting to the iPad, called education's 'equalizer', USA Today, Alesha Williams Boyd,
<http://www.usatoday.com/story/news/education/2011/09/12/adapting-to-the-ipad-called-education-equalizer/1006236/>

Adapting to the iPad, called education's 'equalizer'
 By Alesha Williams Boyd, USA TODAY

Anthony Leuck of Berkeley, N.J., is used to communicating in unconventional ways.



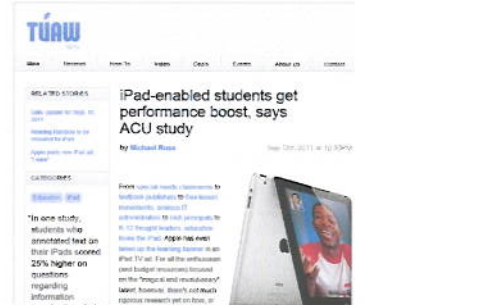
The 18-year-old is a quadriplegic with multiple disabilities that make speech and muscle control extremely difficult. He interacts through eye gaze or by tapping his hand against a switch on a communication device to spit out words.

But on a recent afternoon at the Lehmann Center, a special needs school in Lakewood, N.J., Leuck was able to make music. With some effort, he set his fingers lightly over the digital image of a guitar on an iPad screen. The touches produced a series of acoustic-style chords from the iPad — and a big grin from Leuck.

September 12th, 2011
Adapting to the iPad, called education's 'equalizer', USA Today, Alesha Williams Boyd,
<http://www.usatoday.com/story/news/education/2011/09/12/adapting-to-the-ipad-called-education-equalizer/1006236/>

- There are now about 40,000 educational applications for the iPad, Apple reports.
- Video can be used to practice social skills. Speech recognition aids students who have writing difficulties. The touch screen makes use easy for children who have dexterity problems, Barry says.
- "I think the key word for this is engagement," Barry says. "The engagement was just a lot higher. I think it's adaptive to meet the needs of individual students. I think it's an equalizer. I do think it's a game changer."

September 18, 2011
iPad-enabled students get performance boost, says ACU study by Michael Rose, TUAW (The Unofficial Apple blog),
<http://www.tuaw.com/2011/09/18/ipad-enabled-students-get-performance-boost-according-to-study/>



September 25, 2011
Moodle (46 million users in 212 countries, 56,600 sites, 4.88+ million courses)

The image shows a collage related to Moodle. On the left is a screenshot of a Moodle course page with a cow illustration. In the center is a grid of many small user avatars. On the right is a screenshot of a presentation slide with a graph showing an upward trend in Moodle usage.



I am not Content!!!

A photograph of two ginger tabby kittens playing on a tree stump in a grassy area. One kitten is sitting on the stump while the other is jumping towards it.

September 15, 2010
Study: Online learning might be less effective for some, eSchool News, Dennis Carter

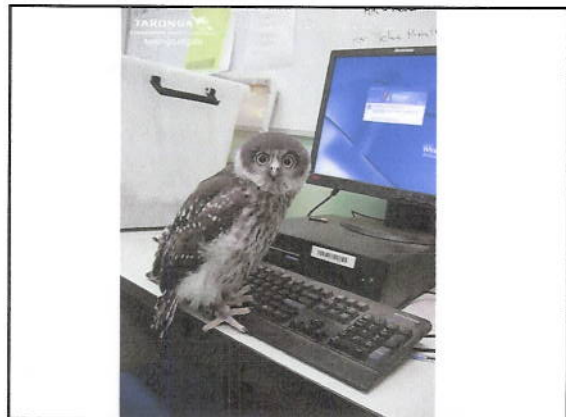
The image contains two screenshots of news articles. The left one is from eSchool News with the headline 'Study: Online learning might be less effective for some'. The right one is from The Chronicle of Higher Education with the headline 'Classroom students scored 84.5 percent on the first exam in the economics course, and online students scored 83.3 percent.' Below the articles is a small photo of a person.

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

A collage featuring Clay Shirky's TED talk. On the left is a video player showing Shirky speaking. To the right are the covers of his books 'Cognitive Surplus: Creativity and Generosity in a Connected Age' and 'Here Comes Everybody: How the Power of Ordinary Acts Can Create a Revolution'.

May 24, 2010
Author Nicholas Carr, The Web Shatters Focus, Rewires Brains, Wired
http://www.wired.com/magazine/2010/05/ff_nicholas_carr/

The image shows two magazine covers. On the left is the cover of Wired magazine featuring Nicholas Carr and the headline 'Author Nicholas Carr: The Web Shatters Focus, Rewires Brains'. On the right is the cover of Atlantic magazine with the headline 'Google made Stoopid?' and 'THE SHALLOWS'.



August 26, 2011
Collaborative Learning for the Digital Age,
 Cathy Davidson, Chronicle of HE,
<http://chronicle.com/article/Collaborative-Learning-for-the/128789/>

Collaborative Learning for the Digital Age
 By Cathy N. Davidson

August 26, 2011
Collaborative Learning for the Digital Age,
 Cathy Davidson, Chronicle of HE,
<http://chronicle.com/article/Collaborative-Learning-for-the/128789/>

"I want to suggest a different way of seeing, one that's based on multitasking our attention—not by seeing it all alone but by distributing various parts of the task among others dedicated to the same end. For most of us, this is a new pattern of attention. **Multitasking is the ideal mode of the 21st century, not just because of information overload but also because our digital age was structured without anything like a central node broadcasting one stream of information that we pay attention to at a given moment. On the Internet, everything links to everything, and all of it is available all the time.**"


Who Needs Blended and Online Learning?

Guess Who

Those in the Military!
 Going the Distance, Elizabeth Millard, University Business, March 2011

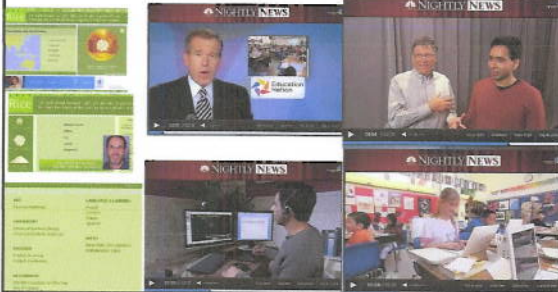
Going the Distance

Athletes and Performers
 Going the Distance, Elizabeth Millard, University Business, March 2011



When reality demands you go for it, you go for it. If you don't, you'll never know. You'll never know what you're capable of. You'll never know what you're capable of. You'll never know what you're capable of.

March 11, 2011
 Those Preparing for Exams and Needing Remediation, Bill Gates, Salmon Khan, NBC Special
<http://www.msnbc.msn.com/id/21134540/vp=42018991�>



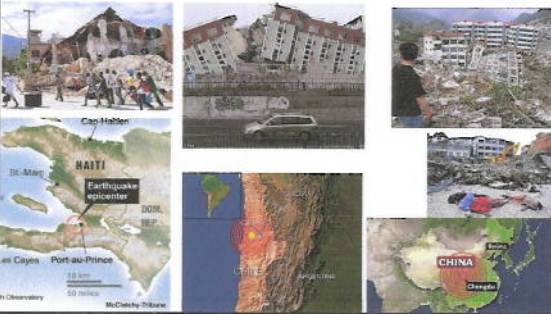
Those in hurricanes!
 (Katrina, August 2005; Ike, Sept 2008; Irene, August 2011)




Those where there are diseases and outbreaks... (SARS, 2003; H1N1, 2009-2010)

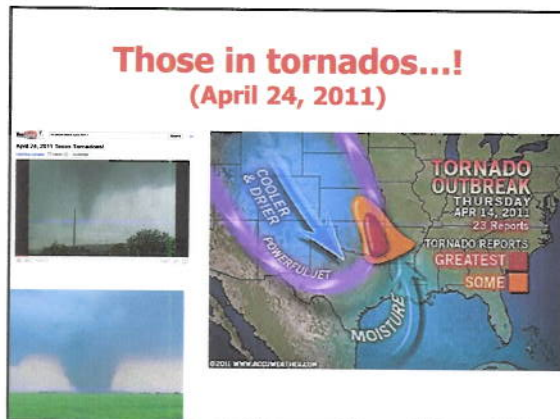
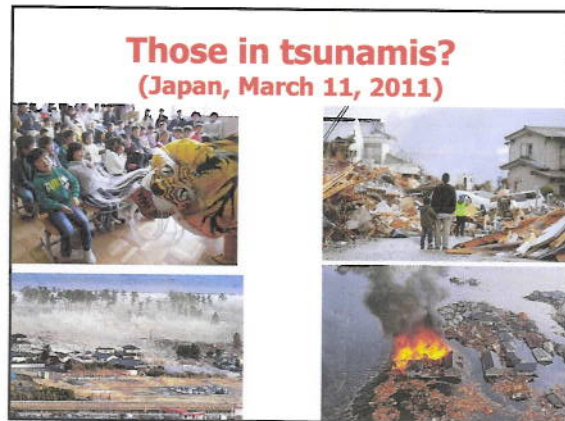
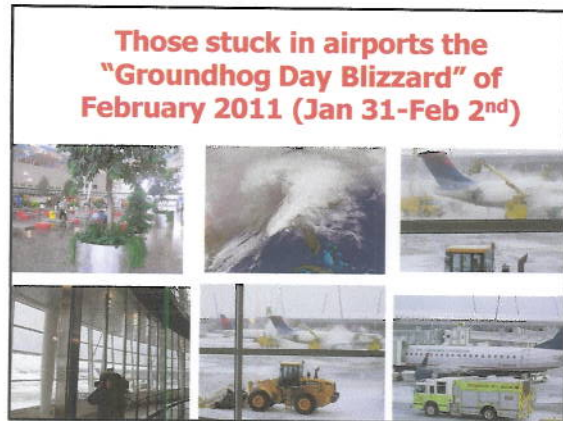
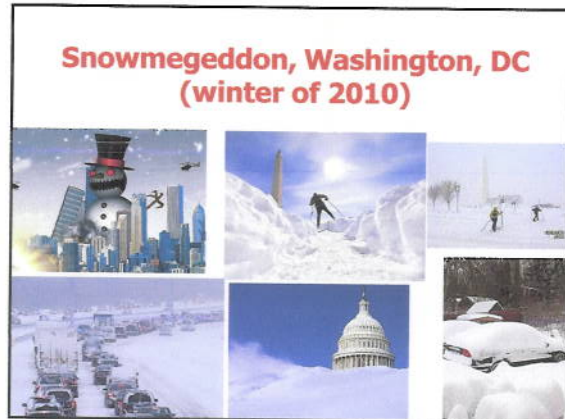
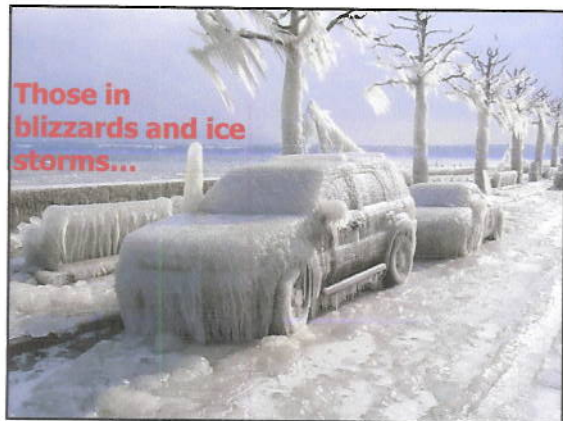


Those in earthquakes!



Those effected by volcanos
 (Iceland, April 2010)





Why should we be content?

CONTENTMENT
IF YOU HAVE TO CHOOSE, WOULD YOU PREFER AN ANSWER
 TO NO ANSWER AT ALL?

September 15, 2010 Timeline of Technology for Teaching, NY Times

<http://www.nytimes.com/interactive/2010/09/15/magazine/classroom-technology.html?ref=magazine>

Technology of the 1980s

Radio Shack TRS-80 Model III
 Introduced July 1980
 Price: US \$899 basic model
 US \$2495 w/32K, dual drives.
 CPU: Zilog Z-80, 2.03 MHz
 RAM: 4K, 48K max.
 Ports: Cassette tape, expansion, serial
 Display: 12-inch B&W monitor, 64 X 16 text
 Storage: 5, 1, or 2 internal 5.25 floppy drives
 External cassette @ 500 / 1500 baud
 OS: BASIC in ROM, TRS-DOS on disk

Mark Weiser, Scientific American, 1991, The Computer for the 21st Century

<http://sandbox.xerox.com/want/papers/ubi-sciam-sep91.pdf>

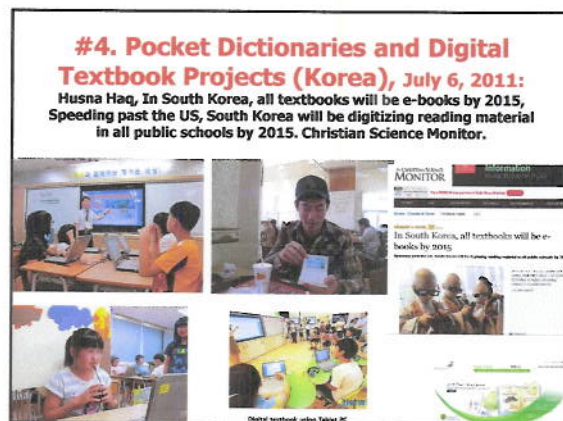
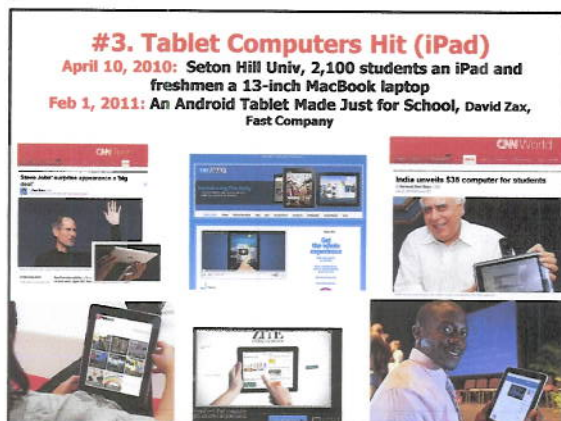
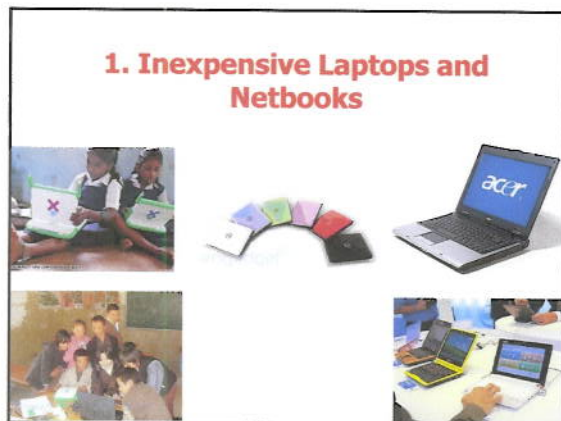
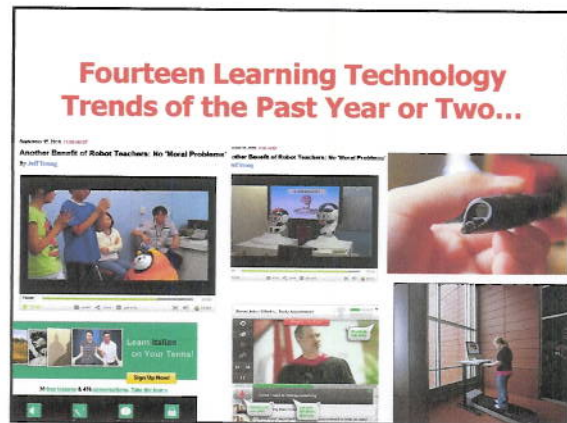
COMPUTER SCIENTISTS ASPECT THE CONVENTIONAL screen in this office at the Xerox Palo Alto Research Center. They hope jobs are related to conventional computers; thus far only a handful of research results have been fruitful.

96 THE COMPUTER IN THE 21ST CENTURY

Let's Reflect Back 10 Years...

Shovelware

You paid \$200 to play gimmicky parts of free online flash games. How dumb are you?



#5. Video Conferencing/Webcaming 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 few competitors captured last month's top video content streams:

Google (YouTube)	54.3 billion
Hulu	7.7 million
Vevo	5.6 million
Vevo	5.6 million
Vevo	5.6 million
Vevo	5.6 million
Vevo	5.6 million
Vevo	5.6 million
Vevo	5.6 million
Vevo	5.6 million
Vevo	5.6 million

Free music video site Vevo eyes iPad, other mobile possibilities

Group Video Chat, February 28, 2011: SocialEyes delivers group video chat , USA Today, Jon Swartz, <http://www.socialeyes.com/>

SocialEyes delivers group video chat

By Jon Swartz, USA TODAY

SAN FRANCISCO — The brain behind digital-media pioneer Facebook's video chat is back again — with a new, free, two-way video service on Facebook.

SocialEyes, which launched today, is bringing live video to several people at once in Facebook chats and allows so they can collaborate on work, chat about common interests or even learn to play an instrument together.

"It's a pity to connect to friends at real time, on your social graph," says co-founder Rob Ooster of the first version since he stepped down as CEO of Facebook last year. He remains chairman of the firm.

"This is a real pity to connect," Ooster says.

Robert Ooster, who has worked off and on with Ooster for about 20 years, is CEO of SocialEyes.

The 15-person start-up, based here, has raised \$5

First Look at Google+ Hangouts, June 29, 2011

<http://www.youtube.com/watch?v=XL93afvX7AA&annotation=1&annotation=3899528&feature=cc>

YouTube

First Look at Google+ Hangouts

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

#6. Shared Online Video: TED, Academic Earth, TV Lesson, and Fora TV

TED (Share with friends)

John Hunter on the World Peace Game

FORA.tv

Transforming the System: An Interview with Michelle Rhee

TV Lesson

Thousands of video lectures from the world's top schools

#7. 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"

December 24, 2010 by Dan Snierson

#8. 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

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

Worldreader, August 22, 2011

What Makes Ed Tech Successful in the Developing World?, ReadWriteWeb, David Risher
http://www.readriteweb.com/articles/what_makes_educational_technology_successful_in_the_world/
<http://www.worldreader.org/>

#9. Artificially Intelligent Computers

February 18, 2011: Watson dominated at 'Jeopardy!' — but what else can it do? As IBM seeks new uses, man still has edge over machine, Dan Fergano, USA Today.

Computer vs. brain	
Watson 1,199 pounds 4 years 2,800 processors 200 trillion computations (per second) 15 trillion memory (in bytes)	Human brain 3 pounds 6 million years 1 billion neurons 100,000 trillion computations (per second) 1 trillion memory (in bytes)

More: According to IBM, Watson can solve 1 billion types of advanced word-trivia better than any other computer in a single year of development and 6 months of training.

August 2, 2011

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/>

#10. New Interfaces

February 18, 2011: Telekinesis 2.0, David Zax, Fast Company

#11. Mobile Apps, May 13, 2011:

USA Today, Mary Beth Marklein
<http://www.usatoday.com/story/education/2011-05-13/college-apps-easier-to-access/48164>

Apps make college easier to access

#12. Augmented Reality, May 17, 2011: USA Today, Edward Baig, May 17, 2011, Augmented reality has potential to reshape our lives.

Augmented reality has potential to reshape our lives

Augmented reality has potential to reshape our lives

Augmented reality has potential to reshape our lives

Augmented reality has potential to reshape our lives

#13. Language Translation Tools, Aug 19, 2011 (e.g., Bing Translator (a convenient way to translate between languages in Internet Explorer 8) <http://www.microsofttranslator.com/default.aspx>)

Oppgitt over Kina

65 prosent av Microsofts programvare Office og 88 prosent av IT-gigantens operativsystemer som selges i Kina er på kinesisk. Mange selskaper...

#14. Online Portals and Open Educational Resources (OER) February 8, 2011 Google Art Project, Chronicle of HE (new Google project that allows visitors to explore museums around the world and view hundreds of artworks) <http://www.googleartproject.com/>

Art Project

Explore museums from around the world in 3D. See high resolution details of paintings, sculptures, and architecture with interactive educational tools.

- Metropolitan Museum of Art, New York, NY
- Museum of Modern Art, New York, NY
- The State Hermitage Museum, St. Petersburg
- Museum of Contemporary Art, Chicago
- Museum of Modern Art, New York, NY
- Museum of Modern Art, New York, NY
- Museum of Modern Art, New York, NY
- Museum of Modern Art, New York, NY

July 10, 2011 The Virtual Zooarchaeology of the Arctic Project (VZAP) is a virtual, interactive, osteological reference collection for the study of northern vertebrates. VZAP is a dynamic natural history archive which allows students and researchers to examine the complete skeletal anatomies of multiple bird, mammal, and fish species in both 2D and 3D. (Anthropologist Puts an Idaho Museum's Many Bones Within Virtual Reach, Peter Monaghan, July 10, 2011, Chronicle of HE) <http://vzap.iri.isu.edu/ViewPage.aspx?id=230>

VZAP

The Virtual Zooarchaeology of the Arctic Project (VZAP) is a virtual, interactive, osteological reference collection for the study of northern vertebrates. VZAP is a dynamic natural history archive which allows students and researchers to examine the complete skeletal anatomies of multiple bird, mammal, and fish species in both 2D and 3D.

Question: What is the Web?

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

=====

No, it is a learning tool!

The Web of Learning

The Networked Teacher

Google

PBWORKS

Blogger

slideshare

NING

We are entering a jumping off point...

Elements of the Web's Next Generation



It is very open!

(May 2011, Norway & June 2011 the Philippines)

Framework #1: 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**real-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.



New Technologies = New Delivery Methods...

CLO, September 2011



Learning Delivery

We are not motivating students with the technologies that they love!




A Vision of Today's Students



Framework #1: TEC-VARIETY for Online Motivation and Retention

1. **Tone/Climate:** Psych Safety, Comfort, Belonging
2. **Encouragement, Feedback:** Responsive, Supports
3. **Curiosity:** Fun, Fantasy, Control
- ...
4. **Variety:** Novelty, Intrigue, Unknowns
5. **Autonomy:** Choice: Flexibility, Opportunities
6. **Relevance:** Meaningful, Authentic, Interesting
7. **Interactive:** Collaborative, Team-Based, Community
8. **Engagement:** Effort, Involvement, Excitement
9. **Tension:** Challenge, Dissonance, Controversy
10. **Yields Products:** Goal Driven, Products, Success, Ownership



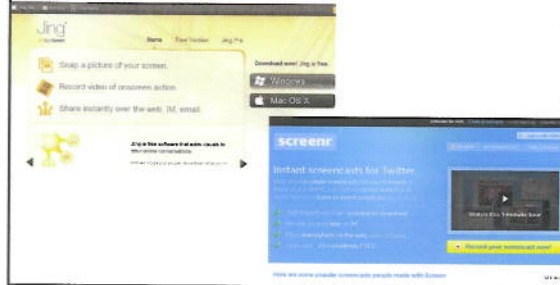
1. Tone/Climate: Social Ice Breakers

A. 8 nouns (adjectives, verbs)

- List of nouns: (e.g., pirate, computer, traveler, roadrunner, wind, bookworm, musician, mentor, etc.)
- <http://www.momswhothink.com/reading/list-of-nouns.html>
- List of adjectives: (e.g., lazy, powerful, shy, bored, exotic, cooperative, sloppy, rebel, etc.)
- <http://www.momswhothink.com/reading/list-of-adjectives.html>
- List of verbs: (e.g., coordinate, entertain, amuse, push, unite, beg, dream, publicize, etc.)
- <http://www.momswhothink.com/reading/list-of-verbs.html>

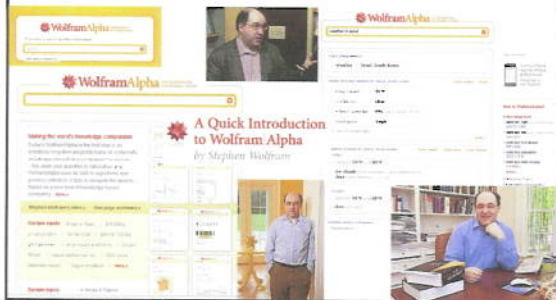


2. Encouragement, Feedback, etc.: A. Tutorials with Screen Capture (e.g., Jing, Screenr, GoView, etc.)

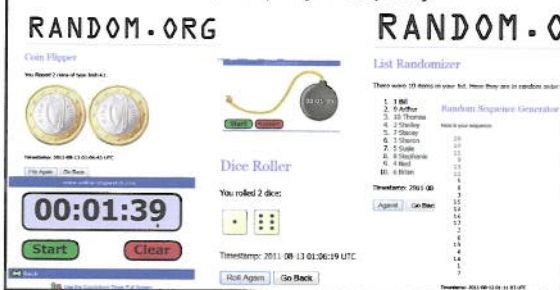


3. Curiosity, Fun: A. Online Database Activities (e.g., WolframAlpha)

<http://www.wolframalpha.com/>



4. Variety, Novelty, Fun, Fantasy: A. Random Lists (Random.org—clocks, coins, playing cards, dice, integers, passwords, jazz scales, lists, sequences, etc.)



5. Autonomy, Choice: A. Web Exploration Assignments

1. Complete Works of Charles Darwin Online: <http://darwin-online.org.uk/>
2. The Complete Works of William Shakespeare: <http://shakespeare.mit.edu/>
3. Edgar Allan Poe Society of Baltimore: <http://www.eapoe.org/>
4. Einstein Archivos Online: <http://www.alberteinstein.info/>
5. Federal Resources for Educational Excellent project: <http://free.ed.gov/>
6. Global Text Project: <http://globaltext.org/>
7. iBerry (Open Courseware Directory): <http://iberry.com/>
8. Jane Austen: <http://www.janeausten.org/>
9. The Jane Goodall Institute: <http://www.janegoodall.org/>
10. Timeless Hemingway: <http://www.timelesshemingway.com/>



6. Relevance, Meaningfulness: A. Online Cases (e.g., Mark Braun, IU)



7. Interactive, Collaborative:
A. Dr. Monica Rankin's class, UT Dallas, Cuban Revolution (April/May 2011)
<http://www.youtube.com/watch?v=ocQMf1kPo98>

8. Engagement, Effort: A. Arab spring: an interactive timeline of Middle East protests, The Guardian, Garry Blight, and Sheila Pulham, July 12, 2011
<http://www.guardian.co.uk/world/interactive/2011/mar/23/middle-east-protest-interactive-timeline>

9. Tension, Challenge, etc.:
A. Ethical Debates

10. Yields Products, Goals:
A. More Student YouTube Products

Miguel Lara (Web 2.0 FREEDOM): <http://www.youtube.com/watch?v=8cmCFW8W8>
 Shuya Xu and Yue Ma (Slog my online blog): <http://www.youtube.com/watch?v=im7GQ49Wzbc>
 Julie Rust (Participatory Learning): http://www.youtube.com/watch?v=4t8x_8d89VY0M
 Ceara Dogli (Animal perspectives on course): <http://www.youtube.com/watch?v=cDeTE3M05k>

TEC-VARIETY Model for Online Motivation and Retention

Tone/Climate
 Encouragement, Feedback
 Curiosity

Variety
 Autonomy
 Relevance
 Interactive
 Engagement
 Tension
 Yields Products

Framework: #2: The R2D2 Model


Curis J. Bokk | Ke Zhang

Empowering Online Learning

100+ Activities for Reading, Reflecting, Displaying & Doing



The R2D2 Method

1. Read (Auditory and Verbal Learners)
2. Reflect (Reflective Learners)
3. Display (Visual Learners)
4. Do (Tactile, Kinesthetic, Exploratory Learners)



1. Auditory or Verbal Learners

- Auditory and verbal learners prefer words, spoken or written explanations.


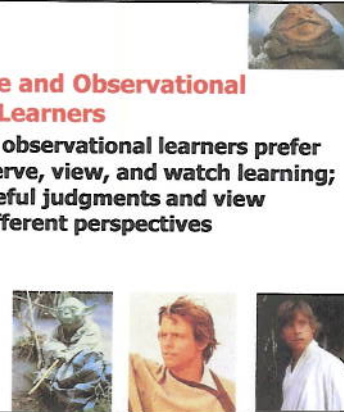



Read 1a. Listen to Open Access Podcast Shows (and write papers)



2. Reflective and Observational Learners

- Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives


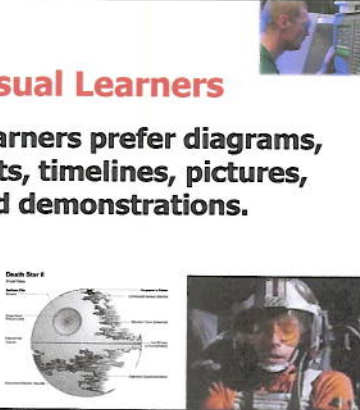



Reflect 2a. Cultural Blogs (e.g., Dr. Kim Foreman, San Fran State University, Come and See Africa Blog; <http://comeandseeafrica.blogspot.com/>)



3. Visual Learners

- Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.

Tinker #2. Webcast Lectures (Tegrity, Echo360, Mediasite, etc.)

The screenshot shows a video player interface for a Tegrity webcast. The title is "Magnetic Disks" and the content includes a diagram of a hard drive platter with text explaining tracks and sectors. The Tegrity logo is visible in the bottom left corner.

Tinker #3. Timeline Tools (e.g., USA Today, August 26, 2011)

<http://www.usatoday.com/story/tech/innovation/2011-08-26/Martin-Luther-King-Jr-Memorial-in-Washington-A-closer-look/3131642>

The screenshot shows a USA Today article titled "Martin Luther King Jr. Memorial in Washington: A closer look". It features a map of the memorial site and a large photograph of the bronze sculpture of Martin Luther King Jr.

Tinker #3. Timeline Tools (e.g., Steve Jobs' career, CNN, August 24, 2011)

http://www.cnn.com/2011/TECH/innovation/08/24/steve.jobs.timeline/index.html?hpt=hp_biz7

The screenshot shows a CNN article titled "Timeline: Steve Jobs' career". It features a complex, multi-layered timeline visualization of Steve Jobs' career, including various milestones and images.

Tinker #4. Video Animations and Simulations

A collage of various 3D medical and scientific simulations. It includes a 3D model of a fetus, a molecular structure, and 3D human anatomy models (muscle and skeleton).

Tinker #5. Collaborative Groups (Google Docs, Ning, Google Groups, MSN Groups, Yahoo Groups)

A collage of collaborative tools and services. It includes screenshots of Google Docs, a Ning website, and a network diagram with blue nodes and connecting lines.

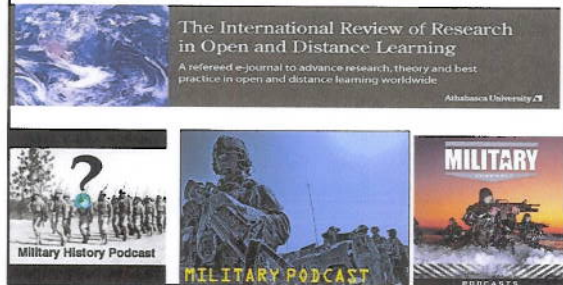
Tinker #6. Case and Scenario Learning (Kelley Direct, IU)

The screenshot shows a Kelley School of Business website. It features a case study titled "The Life Choice" and a video of a classroom setting. The Kelley School of Business logo and name are visible in the bottom right corner.

Tinker #7. Online Experiments (e.g., psychology)



Tinker #8. Reading from Open Access Journals; Listen to Open Access Podcasts



Tinker #9. Track Life of a Scientist or Famous People (e.g., Brian J Ford, independent scientist)

<http://www.youtube.com/user/bulymonitor/p/1u/1/LhGoAqKjaar>



Tinker #10. 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.)



Tottering



Totter #1. Bridges to World of Expert and Practitioners (e.g., Invite, 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. Combining Asynchronous and Synchronous Events

Totter #4. Multi-Site Events

(e.g., William and Mary, March 3, 2011)

Totter #5. Online Language Learning and Conversations

(e.g., PalTalk, iTalki, Palabea, Babbel)

Totter #6. Wikibooks, Wikipedia editing, wiki syllabi, wiki glossaries

(Ron Owston, York University, Toronto)

Web 2.0 and Emerging Learning Technologies
From Wikibooks: the open content textbooks collection

Totter #7. Podcast Productions and Virtual Performances for students of pronunciation class

(e.g., Tzu-Su Chen, Taiwan)

Totter #8. Video Blogging

Reflections - Tech in Education

Justin Mering

World in Open First Project only

Totter #9. Podcasting Medical Lectures (School of Dentistry, University of Michigan)

IT Bootcamp

DESCRIPTION

Audio Acquisition via Computer

Figure 1 Instructional Design Process

Totter #10. Uploading Mobile Books (e.g., BookRix, <http://www.bookrix.com/>)

Mobile Devices & Learning

How mobile devices are re-shaping the field of education

Totally Extreme Learning

HURRICANE IKE

Haiti

Totally Extreme #1. Immediate Science

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

THE LINK

UNCOVERING OUR EARLIEST ANCESTOR

Ida's World

Dr. Jeroen Houdevorst

Totally Extreme #2. Live Science

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

NAUTILUS LIVE

KEANGS

Totally Extreme #3. Armchair Archeology UCLA Summer Digs Program

This collage features several images: a person in a field using a shovel, a close-up of a human skull, a stone building, a person looking at a skull on a table, a group of people in a field, and a close-up of a stone surface.

Totally Extreme #4. Adventure Learning (e.g., GeoThentic, Earthducation, Polar Husky, GoNorth; Aaron Doering, Univ of Minnesota; cars and bikes--Dan Grec and Mark Beaumont)

This collage includes images of a person on a bicycle, a person in a virtual environment, a person in a car, and various educational content like a 'DAILY UPDATE' and a 'The good Housewife' logo.

Totally Extreme #5. The Last Ocean Project, Ice Stories, and Shark Theater (24 foot inflatable screen (and outdoor ocean theater) to tiny island communities) <http://www.lastocean.com/> and <http://lastocean-project.org/>; Cassandra Brooks

This collage features a large inflatable screen, a close-up of an eye, a person in a field, and a 'ICE STORIES' logo.

Totally Extreme #6. 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=12>

This collage includes a person on a video call, a person in a field, and a CNN logo.


Totally Extreme #7. Open Teaching and Massive Open Online Courses (i.e., MOOC, David Wiley, George Siemens, Ray Schroeder)

This collage features a person on a video call, a person in a field, and a 'Global Game Jam' logo.

Totally Extreme #8. International and Global Education and Competitions (e.g., Global Game Jams, online role play, Global Videoconferencing)

This collage includes a group of people, a person on a video call, and a 'Global Game Jam' logo.


Totally Extreme #9. Telepresence and Teleportec Systems (e.g., Cisco and HP)





Totally Extreme #10. 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)



Is this a revolution?



Who is Content Now?



Any Extreme Questions and Comments?

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

