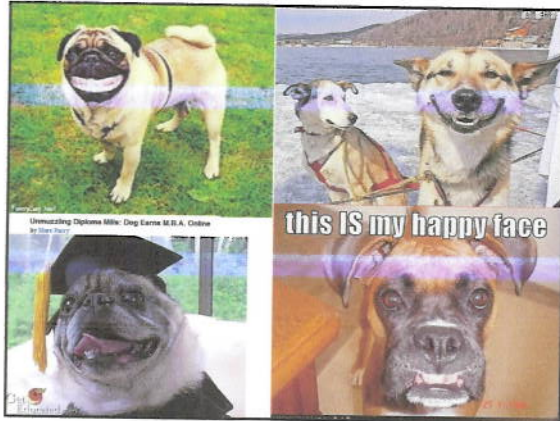


**I am Not Content:
The Future of Education Must Come
Today...!!!**

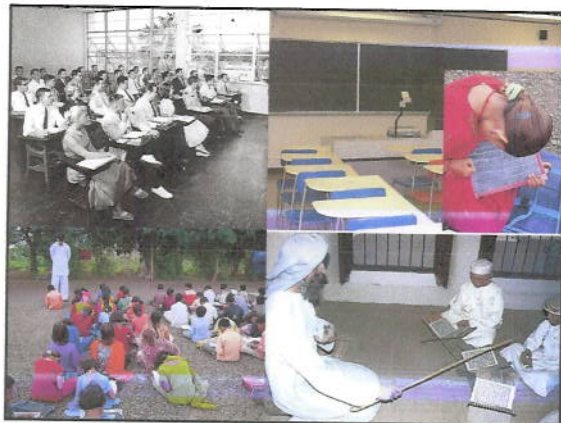
Curtis J. Bonk, Professor, Indiana University
cjbonk@indiana.edu
<http://mypage.iu.edu/~cjbonk/>



**New Technologies =
New Delivery Methods...**
CLO, September 2011

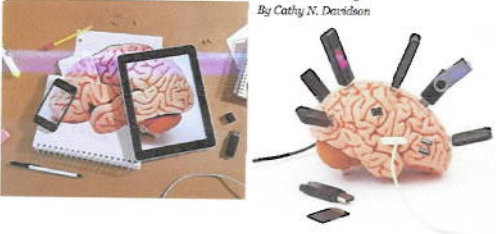


Learning Delivery
How Do You Deliver Learning?



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

Collaborative Learning for the Digital Age
By Cathy N. Davidson





Yonsei University, 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

7 TIPS FOR BUILDING COLLABORATIVE LEARNING SPACES

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

Let's Recap the Virtual Learning Space during the Past Year

Knowledge Rules.

February 4, 2011

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

Year	Completion Count
2001-2002	16,890
2002-2003	12,741
2003-2004	24,169
2004-2005	35,079
2005-2006	34,180
2006-2007	49,007
2007-2008	116,005
2008-2009	134,725
2009-2010	211,924

February 16, 2011

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

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

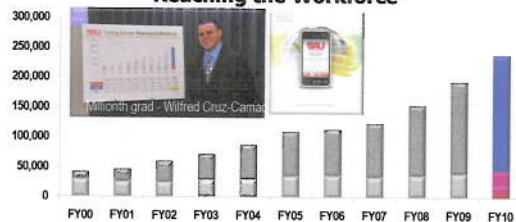
April 29, 2011
Shared Online Video (e.g., YouTube and the Royal Channel)



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>)



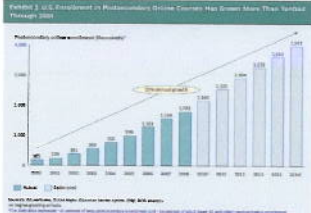
May 9, 2011
Defense Acquisition University, Training Courses: Reaching the Workforce



	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
Classroom	28,859	25,489	24,388	28,192	29,884	34,587	35,897	33,191	35,881	39,568	45,864
Web	13,380	21,031	36,117	43,649	58,290	75,079	77,582	90,600	118,391	154,359	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

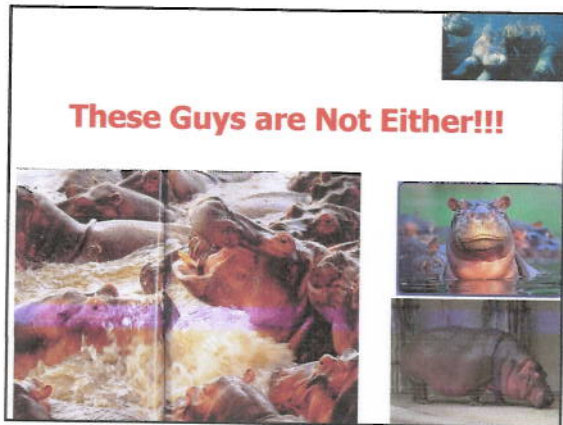
April 30, Sep 11

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>



October 2, 2011
The University of Wherever, NY Times, Bill Keller,
<http://www.nytimes.com/2011/10/02/opinion/the-university-of-wherever.html>





These Guys are Not Either!!!

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.

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
 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

October 5, 2011
Apple Founder Steve Jobs Dies, CNN
http://www.cnn.com/2011/10/05/us/obit-steve-jobs/index.html?hpt=hp_tech_11

Apple founder Steve Jobs dies
 Visionary built leading tech firm

Steve Jobs, Apple founder, dies

October 5, 2011
Apple co-founder Steve Jobs dies, USA Today
<http://www.usatoday.com/story/news/nation/2011-10-05/steve-jobs-dies/50672498/1>

Apple co-founder Steve Jobs dies

September 15, 2010
Timeline of Technology for Teaching, NY Times
<http://www.nytimes.com/interactive/2010/09/19/magazine/classroom-technology.html?ref=magazine>

Technology of the 1980s



Radio Shack TRS-80 Model III

Introduced: July 1980

Price: US \$499 base model

CPU: Z80 @ 2.8M, 2.5K RAM

RAM: 4K, 48K max.

Ports: Cassette tape, expansion, serial

Display: 12-inch BW monitor, 64 x 16 bit

Storage: 0, 1, or 2 internal 179K floppy drives


External: cassette @ 500/1150 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 PREDICT the conventional screen is the only way to interact with computers. They are wrong. The computer of the 21st century will be a handheld or window-mounted device that lets users interact with computers through touch pads or video cameras. They will be able to interact with computers through touch pads or video cameras. They will be able to interact with computers through touch pads or video cameras.

Let's Reflect Back 10 Years...





Virtual Tactical Operations Center (VTOC)




Shovelware





SHOVELWARE
The best 2000 to play games you've never played before. How dumb are you?

Ten Years Later...




USA TODAY

Today's debate: Ideas From Afar

Guess who's No. 1 in broadband? Hint: It's not USA

It's not the USA. In fact, the U.S. ranked 17th in a 2009 Harvard ranking of 30 countries for broadband availability and usage.

Middle of the pack

Despite having invented the Internet, the U.S. was not on top in a 2009 Harvard ranking of 30 countries for broadband availability and usage.

1. South Korea
2. Iceland
3. Sweden
4. Denmark
5. Finland
6. Japan
7. Luxembourg
8. Norway
9. United Kingdom
10. Switzerland
17. United States

Source: Berkman Center for Internet & Society

January 4, 2012, New Study Shows E-Textbooks Saved Many Students Only \$1, Chronicle of Higher Education, By Nick DeSantis,

<http://chronicle.com/article/New-Study-Shows-E-Textbooks-Saved-Many-Students-Only-1/125731>

THE CHRONICLE of Higher Education

Wired Campus

The latest news on tech and education.

New Study Shows E-Textbooks Saved Many Students Only \$1

By Nick DeSantis

Despite the promise that digital methods would lead to huge cost savings for students, a new study at Drexel's Lehigh College has found that many who tried a textbook saved only one dollar, equipped with their counterparts who purchased traditional printed materials.

The study, published over four semesters, compared two different types of textbook


December 3, 2011, Why #Pencilchat May Be the Most Clever Education Allegory Ever, Good Education, Liz Dwyer, Education Editor

<http://www.goodeducation.com/2011/12/03/why-pencilchat-may-be-the-most-clever-education-allegory-ever/>

GOOD EDUCATION

Why #Pencilchat May Be the Most Clever Education Allegory Ever

December 3, 2011



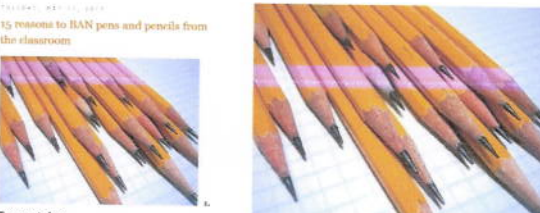
TUESDAY, MAY 17, 2011, 15 reasons to BAN pens and pencils from the classroom, Donald Clark, Plan B

<http://donaldclarkplanb.blogspot.com/2011/05/15-reasons-to-ban-pens-and-pencils-from.html>

DONALD CLARK PLAN B

15 reasons to BAN pens and pencils from the classroom

Too easy to lose



May 24, 2010 Author Nicholas Carr, The Web Shatters Focus, Rewires Brains, Wired

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

Wired MAGAZINE

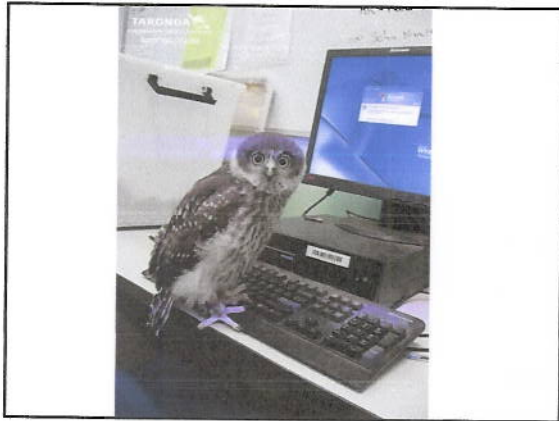
Author Nicholas Carr: The Web Shatters Focus, Rewires Brains

WHAT THE INTERNET IS DOING TO OUR BRAINS

THE SHALLOWS

Nicholas Carr



Who Needs Blended and Online Learning?

Guess Who?

 A collage of images showing students in various learning environments. The top left shows a classroom with students at desks. The top right shows a computer lab with students at computers. The bottom left shows a group of students working together. The bottom right shows a student working on a laptop.

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

 A photograph of a young woman with blonde hair, wearing a black top, holding a violin and bow. She is smiling at the camera.

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

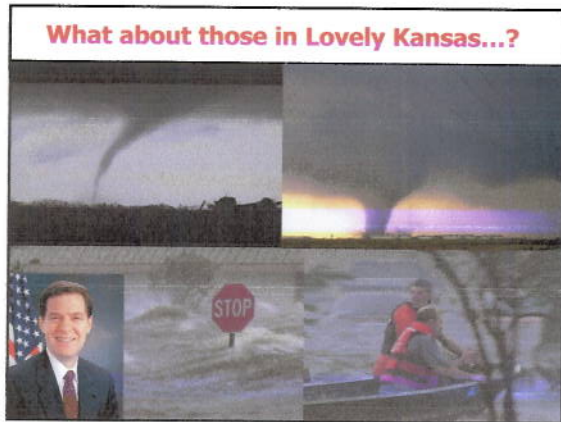
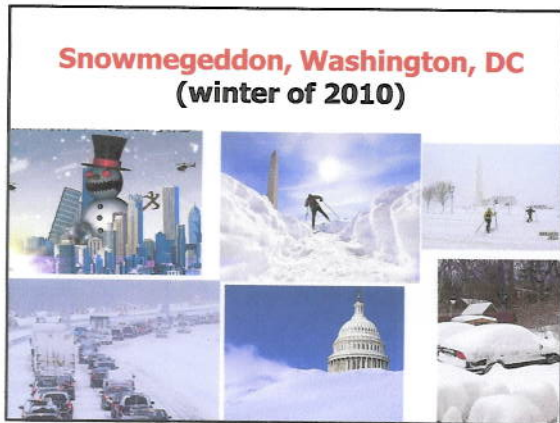
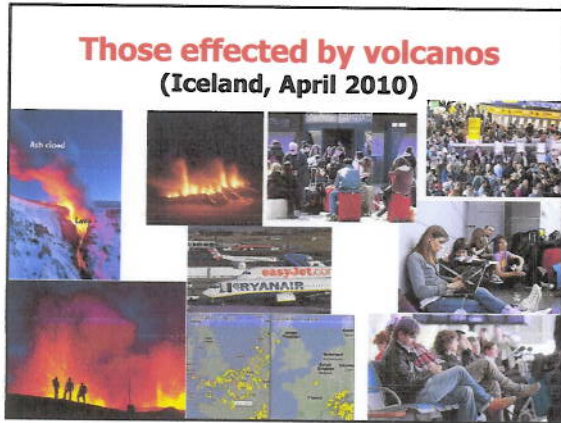
 A collage of images related to hurricanes. The main image is a weather map of the United States showing hurricane activity. To the right is a satellite image of Hurricane Ike with the text "HURRICANE IKE". Below that is a photograph of a person standing in front of a large wave.

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

 A collage of images related to diseases and outbreaks. The main image is a microscopic view of several spherical viruses. To the right are three smaller images: a person wearing a mask, a person wearing a face mask, and hands being washed with soap.

Those in earthquakes!

 A collage of images related to earthquakes. The main image is a map of Haiti showing the earthquake epicenter. To the right is a map of China showing the earthquake epicenter. Below these are several photographs of destroyed buildings and debris.



17 Learning Technology Trends of the Past Year or Two...

1. Inexpensive Laptops and Netbooks

#2. 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)

#3. 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

September 12th, 2011

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

<http://www.usatoday.com/story/tech/news/special/2011/09/12/adapting-to-the-ipad-called-education-equalizer/10092420/>

Adapting to the iPad, called education's 'equalizer'

By Alesha Williams Boyd, USA TODAY | September 12, 2011

Anthony Louck 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 head against a switch on a communication device to spell out words.

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

September 18, 2011

iPad-enabled students get performance boost, says ACU study by Michael Rose, TUAW (The Unofficial Apple blog),

<http://www.apple.com/2011/09/18/ipad-enabled-students-get-performance-boost-says-acu-study/>

First Look at Google+ Hangouts, June 29, 2011

[http://www.youtube.com/watch?v=KlP9afv1A&annotation=1&nohtml5=1&noindex=1&nojs=1&noquery=1&noresult=1&nosearch=1¬humb=1](http://www.youtube.com/watch?v=KlP9afv1A&annotation=1&nohtml5=1&noindex=1&nojs=1&noquery=1&noresult=1&nosearch=1¬humb=1&nohtml5=1&noindex=1&nojs=1&noquery=1&noresult=1&nosearch=1¬humb=1)

YouTube video player showing a Google+ Hangout session. The video title is "First Look at Google+ Hangouts". The video has 36,714 views. The player shows two participants in a video call.

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

A collage of images showing the Facebook video calling interface. It includes several small video call windows and larger images of participants in video calls. The text "Facebook introduces video calling" is repeated across the collage.

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

A collage of screenshots from various online video platforms. It includes TED (John Mayer on the World Peace Game), Academic Earth (Teaching the System: An Interview with Noelle Roux), TV Lesson (a lesson on the iPad), and Fora TV (Teaching the System: An Interview with Noelle Roux).

#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"

A collage of screenshots from the social networking games FarmVille and CityVille. It shows the game interfaces, including the "PLAY NOW" button in CityVille. A quote from Mashable is included: "CityVille" is Now Bigger than "FarmVille".

#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

Images showing people reading Kindle e-books and a Kindle device. The text discusses the impact of e-books on traditional bookstores.

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

Nook Tablet, November 8, 2011, USA Today

http://www.hispanicbusiness.com/news/2011/11/8/nook_tablet_makes_a_great_first.htm

A collage of screenshots related to the Nook Tablet. It includes a photo of a man holding a Nook Tablet, a screenshot of a news article titled "Nook Tablet Makes a Great First Impression", and several images of the Nook Tablet device displaying various content.

Worldreader, August 22, 2011

What Makes Ed Tech Successful in the Developing World?, ReadWriteWeb, David Risher

http://www.readwriteweb.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

Feeling a little computer envy? Don't let IBM's Watson, the champ-crushing computer on 'Jeopardy!', get you down. A comparison with your own human brain.

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

NOTE: According to IBM, Watson can store 10 billion bytes of information, which is comparable to a single piece of information in a human brain.

Computer ties human as they square off on 'Jeopardy!'

#10. Massive Open Online Courses (MOOC) and Graded Free OCW, 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/>

Wired Campus: The latest news on tech and education.

Stanford U. Offers Free Online Course in Artificial Intelligence

You can join Stanford's AI class online, worldwide, this fall! Get a certificate matching your skills in the Stanford grading system!

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.

stanford engineering everywhere

what is stanford engineering everywhere?

#11. Free OCW with Certificates of Completion

M.I.T. Game-Changer: Free Online Education For All

Forbes, James Marshall Crotty, December 21, 2011, <http://www.mitx.org/> (Note: MIT OCW has 2,100 courses used by over 100 million students)

Forbes: The IPO Class Of 2011, Top Young Stars To Watch in 2011, Weekend Stock Picks

M.I.T. Game-Changer: Free Online Education For All

For Wall Street Occupiers or other deniers of the "social injustice" of college tuition, here's a curveball: how to scramble your worldview: a totally free college education regardless of your academic performance or background. The Massachusetts Institute of Technology (M.I.T.) will announce on Monday that they intend to launch an online learning initiative called MITx, which will offer the

M.I.T.'s Simmons Hall

November 2, 2011, Take a Test, Get a Job, or Your Money Back, Forbes, James Marshall Crotty

<http://www.forbes.com/files/jamesmarshallcrotty/2011/11/02/take-a-test-get-a-job-or-your-money-back/>

Take a Test, Get a Job, or Your Money Back

An HR manager sits behind a large desk littered with resumes, cover letters, résumés, college graduates' blood, sweat, and tears boiled down to one crisp white sheet explaining who they are the best.

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>

#12. Badges for Online Learning
 (e.g., Khan Academy,
<http://www.khanacademy.org/badges/view>)

#13. New Interfaces
 February 18, 2011: Telekinesis 2.0, David Zax, Fast Company

#14. Mobile Apps, October 5, 2011,
Apple unveils iPhone 4S, USA Today
<http://www.usatoday.com/tech/news/story/2011-10-05/apple-iphone-4s/50672498/1>

Apple unveils iPhone 4S; but no iPhone 5

By Andrew Berman, USA TODAY

CUPERTINO, Calif. — Apple's new iPhone won't win any design awards. It looks exactly like the old one. And reason for its debut was mixed, in part because it wasn't the iPhone 5 that was widely anticipated.

But Apple executives insist that the 4S packs a lot of punch and provided a host of new features for the phone on Tuesday at Apple headquarters here. In addition, they announced the first iPhone (the 3GS model) that will come with built-in navigation — a feature expected to be a major differentiator.

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

#15. Augmented Reality, May 17, 2011:
USA Today, Edward Baig, May 17, 2011, Augmented reality has potential to reshape our lives.
 (e.g., ZooBurst, Craig Kapp, NYU, pop-up books)
 Verity Tan, Recollections from R685, Fall 2011, <http://vimeo.com/33990990/>

Augmented reality has potential to reshape our lives

Recollections from R685, Fall 2011

#16. 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>
 October 5, 2011
 Apple Voice-Driven Personal Assistant for new iPhone 4s, USA Today
<http://www.usatoday.com/story/tech/2011/10/05/apple-voice-driven-personal-assistant-for-new-iphone-4s/1000000>




Apple gets edge with use of voice-recognition technology


December 16, 2010
Introducing Word Lens
<http://www.youtube.com/watch?v=h2OfQdYrHRs>



#17. 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/>



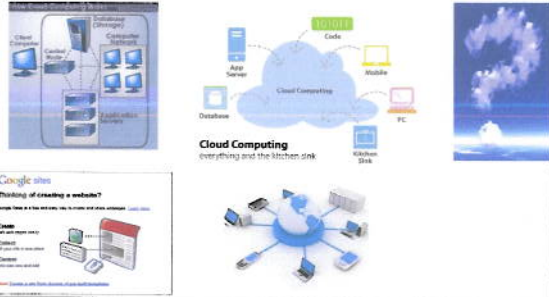
July 10, 2011
The Virtual Zooarchaeology of the Arctic Project (VZAP) is a virtual, interactive, osteological reference collection for the study of northern vertebrates (dynamic natural history archive to examine complete skeletal anatomies of multiple bird, mammal, and fish species in both 2D and 3D.)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



Where are we headed?



Life in the Cloud...?



Cloud Computing everything and the kitchen sink

Google sites
 Thinking of creating a website?
 Look here to find out why you should use our services.

Smaller, thinner, lighter, and cheaper devices



Soon We will have "Personalized Learning Environments" (PLEs) (leaders include: Scott Wilson, Graham Attwell, George Siemens, and Stephen Downes)

Future PLE

Personalized Learning

Social Learning

Connective Learning

Adaptive Learning

Intelligent Learning

Contextual Learning

Collaborative Learning

Personalized Learning

TIME

You.

Personalized Learning for the 21st Century

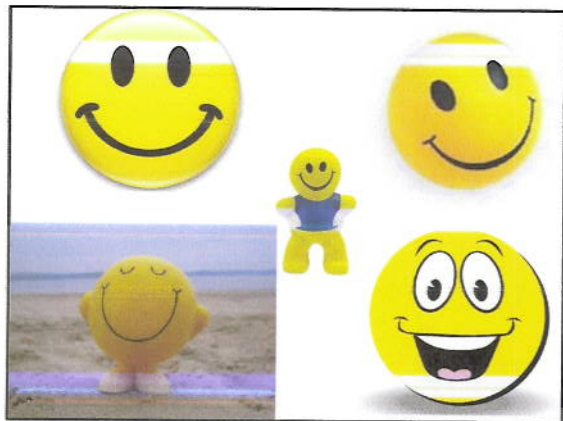
Scott Wilson, Graham Attwell, George Siemens, and Stephen Downes

The "Extreme"ly Digital Scholar...

Rethink your role as a digital scholar—create a blog, a podcast show, a wikibook, an online class, etc..



Is this a revolution?



Who is Content Now?
Slides at: TrainingShare.com
Papers: PublicationShare.com
Book: <http://worldisopen.com/>
Email: curt@worldisopen.com

Contentment