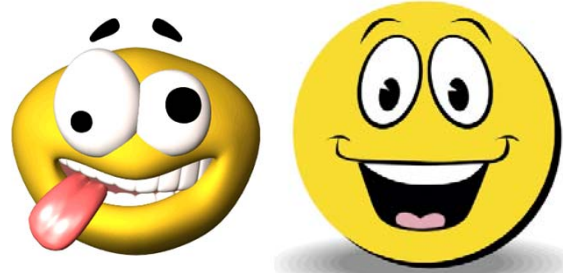


**I am Not Content:
The Future of Education
Must Come Today...!!!**

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



I'm Happy...Are you Happy?



The End of Shovelware?



**Audience Poll #1:
Has learning technology ever
transformed your life.**



May 10, 2013
10 ed-tech tools of the 70s, 80s, and 90s
eSchool News, Meris Stansbury
<http://www.eschoolnews.com/2013/05/10/10-ed-tech-tools-of-the-70s-80s-and-90s/print/>



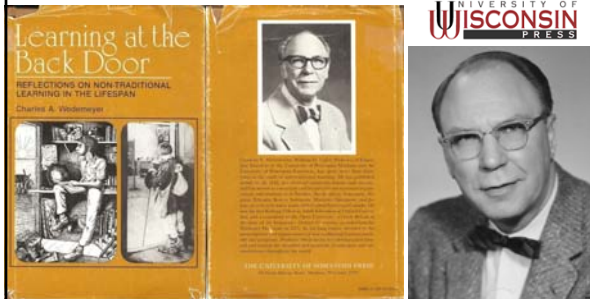
Looking to the Past...



Life as an accountant/CPA in a high tech company in the 1980s...



Took Correspondence & TV Courses (thanks to Bob Clasen and Charles Wedemeyer, the University of Wisconsin)



Fast Forward 25+ Years... "Anyone can now learn anything from anyone at any time."



February 20, 2013 Star Trek-like holodeck may be closer to reality than you think Matt Hartley, Financial Post, Canada

Star Trek-like holodeck may be closer to reality than you think



Knowledge Navigator (1987) Apple Computer

<http://www.youtube.com/watch?v=hb4KzF6wEoc>



May, 2012
Robots teaching English and Virtual Worlds
Dr. Meeyong Kim, Dajeon, Korea



Learning is Changing
New Technologies =
New Delivery Methods...



I. Learning is More Personal
iPotty Aims To Entertain Toddlers During Toilet Training, Mashable, Kate Freeman
(January 10, 2013)
<http://mashable.com/2013/01/10/ipotty/>



II. Learning is More Video-Based
Adora Svitak, WFP Youth Representative - 2013
ECOSOC Youth Forum, March 27, 2013



Experts on Demand
(e.g., from Lynda.com)



April 18, 2013
Quincy Jones goes high-tech for the lowdown on music,
Marco della Cava, USA TODAY, Playground Sessions
<http://www.playgroundsessions.com/about.html>



October 27, 2012

Travel for Office Hours

Chuck Severance, (U Michigan/Coursera) in Barcelona
<http://www.youtube.com/watch?v=JzNHvmSv8TI>



October 15, 2012

Reusable Khan

Lacking Teachers and Textbooks, India's Schools Turn to Khan Academy to Survive, NY Times, Anupama Chandrasekaran
<http://www.nytimes.com/2012/10/15/technology/learning-with-khan.html>



Students at Sree Karpagavalli Vidhyalaya school in Chennai, Tamil Nadu, watching Khan Academy math videos.

Segment Video Anchors
(e.g., TubeChop of V-PORTAL: Video Primers in an Online Repository of e-Teaching and Learning; "Wikibooks Hooray for Us")
<http://www.tubechop.com/watch/378752>



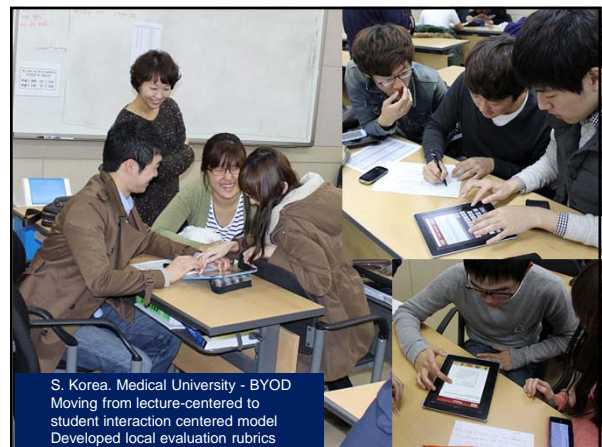
III. Learning is More Mobile

Brown, Keynote talk, "Learning in Hand With Mobile Technology," Wisconsin Distance Teaching and Learning Conference, August 10, 2012

	Beijing 2008	London 2012
Smartphones	139.3 million	657 million
Facebook	90 million	901 million
Twitter	<1 million	300 million
Tweets / day	1.1 million	140 million
Tablets	0	54.8 million
App store downloads	300+ million	25+ billion

Sources: Nielsen, eMarketer, Forrester, Apple

Judy Brown, Keynote talk, "Learning in Hand With Mobile Technology," Wisconsin Distance Teaching and Learning Conference, August 10, 2012



IV. Learning is More Open

(80-Year-Old WGU Texas Grad Keeps His Promise,
November 30, 2012, Reeve Hamilton, Texas Tribune)

THE TEXAS TRIBUNE
An 80-Year-Old Graduate With an Online Marketing Degree Kept His Promise

The Digital Campus

V. Learning is More Massive

April 16, 2013 (NovoEd)
New MOOC Provider Says It Fosters Peer Interaction
Chronicle of Higher Education, Jake New

April 16, 2013
"Super-sizing" the College Classroom: How One Instructor Teaches 2,670 Students

Stanford ONLINE
Designing a New Learning Environment

NovoED
Learn. Collaborate. Innovate.

April 27, 2012

Introduction to Blackboard/CourseSites MOOC, With
Dr. Curt Bonk: "Instructional Ideas and Technology
Tools for Online Success" (4,039 now enrolled)
<http://www.youtube.com/watch?v=rBNe8CUePTQ&feature=youtu.be>

June 25, 2012

Massive Open Online Courses (MOOCs)
A Conversation With Bill Gates About the Future of
Higher Education, Chronicle of HE, Jeffrey R. Young
http://chronicle.com/article/A-Conversation-With-Bill-Gates/1325917cid=at&utm_source=at&utm_medium=un

On the Meaning of MOOC's
"Even though I only have a high school degree, I'm a professional student."

April 18 and Sept 19, 2012: Coursera (MOOC) Partnerships

<https://www.coursera.org/>

Coursera's Institutional MOOC Partners

- Original Member
- New Member

Coursera's Newest Partners:

- Drexel College of Music
- Shenandoah University
- Colgate University
- Emory University
- Hebrew University of Jerusalem
- Hong Kong University of Science and Technology
- Mount Sinai School of Medicine
- Ohio State University
- University of British Columbia
- University of California at Irvine
- University of Florida
- University of London
- University of Maryland
- University of Melbourne
- University of Pittsburgh
- Vanderbilt University
- Widener University

Not on Map: Ecole Polytechnique Fédérale de Lausanne (Switzerland), U. of Edinburgh (UK).
Source: Coursera
Designed by Lauren Rouppas

April and May 2013

Major Players in the MOOC Universe,
Chronicle of Higher Education, Jake New
<http://chronicle.com/article/Major-Players-in-the-MOOC/138817/>

VI. Learning is More Flipped

One Man, One Computer, 10 Million Students:
How Khan Academy Is Reinventing Education,
Forbes, November 19, 2013, Michael Noer
<http://www.forbes.com/sites/michaelnoer/2013/11/19/one-man-one-computer-10-million-students-how-khan-academy-is-reinventing-education/>
The One World Schoolhouse (Twelve, Oct. 2, 2012)



VII. Learning is More Empowering

iPad gives voice to kids with autism
Supraja Seshadri, CNN, May 14, 2012

iPad gives voice to kids with autism



Sharia Siddiqui uses an iPad to help her communicate. Her father says it's "given her a sense of control she never had."

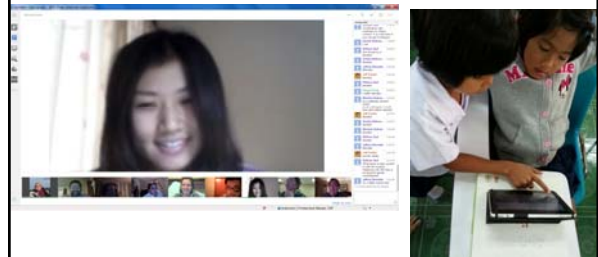
VIII. Learning is More Social

Facebook reaches one billion users, CNN Money,
Aaron Smith, October 4, 2012



IX. Learning is More Collaborative

Collaboration and Discussion in Google
Hangouts or with iPad, Jan. 28, 2013
(Carrie Gong from Beijing Normal University)



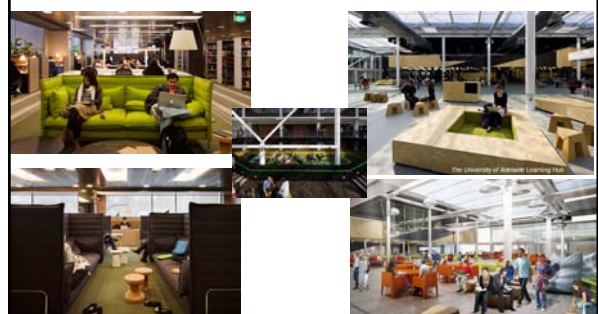
X. Learning is More Modifiable

Inside Look: Learning Spaces, Meeting classroom teaching and
collaboration expectations, University Business, Feb. 22, 2013
<http://www.universitybusiness.com/article/inside-look-learning-spaces>



XI. Learning is More Comfortable

Design for Students, with Students, "Hub Central", the \$42 million
University of Adelaide
[learning hub](http://www.universitybusiness.com/article/inside-look-learning-spaces), opened in October 2011, May 8, 2012, Mike Roberts
<http://designbuildsource.com.au/design-for-students-with-students>



XII. Learning is More Ubiquitous

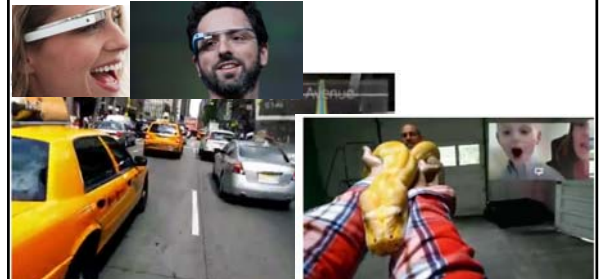
Flexible displays bend what's possible for computers,
Jon Swartz, USA Today (May 4, 2012)



XIII. Learning is More Instantaneous April 9, 2013

Computer fashions face social test: Can wearable computers fit
in? Scott Martin, USA Today

<http://www.usatoday.com/story/tech/2013/04/09/google-apple-watch-glass-jawbone-iphone-nike-microsoft-samsung/1979419/>

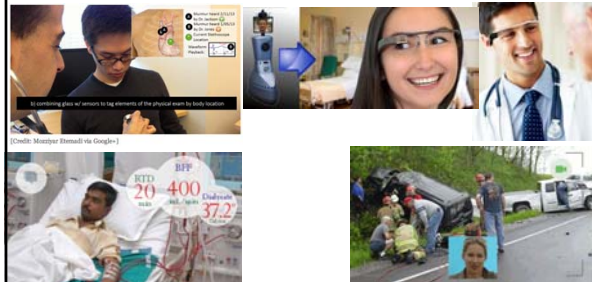


March 13, 2013

Will Google Glass find a home in healthcare?

HER Intelligence, Jennifer Bresnick
(i.e., magnify moles or injuries, see vital signs, live stream surgeries,
access previous PT sessions, access research and drug info, etc.)

<http://www.futureofhealthcare.com/story/google-glasses-could-have-a-strong-potential-in-healthcare/2013-03-13>



June 29, 2011 and July 6, 2012

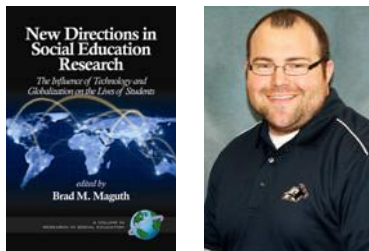
Google+ Hangouts and Facebook Video calling

<http://www.youtube.com/watch?v=3A79P4Y13A0&modest=1&annotation=1&playlist=Ux>



XIV. Learning is More Global (Book Review by Dr. Mimi Miyoung Lee: Ed Tech Magazine, May-June 2013)

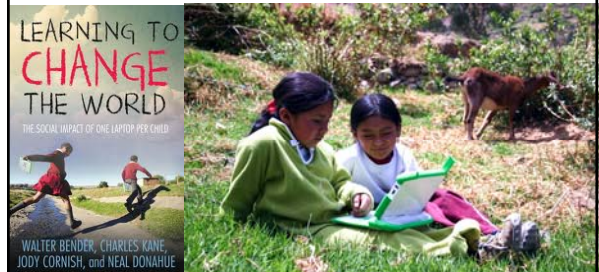
(e.g., TakingItGlobal (TIG), RoundSquare, etc.)
RoundSquare (<http://www.roundsquare.org/>) and
Taking it Global (<http://www.tigweb.org/>)



Learning is Changing the World

(Book Review: Ed Tech Mag, May-June 2013)

Walter Bender, Charles Kane, Jody Cornish, and Neal
Donahue (2012). *Learning to Change the World: The Social
Impact of One Laptop Per Child*. NY: Palgrave Macmillan.



XV. Learning is More Web-Based April 15, 2013

Google boss: Entire world will be online by 2020, Doug Gross, CNN

http://www.cnn.com/2013/04/15/tech/web/eric-schmidt-internet/index.html?hpt=hp_13

Google boss: Entire world will be online by 2020

By Doug Gross, CNN
Updated 1:20 PM EDT, Mon April 15, 2013 (From CNN)



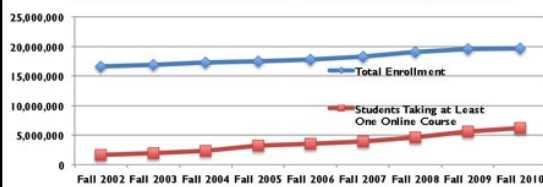
May 5, 2012 Shaq earns doctorate degree

<http://www.youtube.com/watch?v=Szj6uQn8djc>

Growth Online in Higher Education in the USA

http://sloanconsortium.org/publications/survey/going_distance_2011

Total and Online Enrollment in Degree-granting Postsecondary Institutions – Fall 2002 through Fall 2010



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

April 20, 2013 Two Cheers for Web U!

A. J. Jacobs, New York Times

http://www.nytimes.com/2013/04/21/opinion/sunday/grating-the-mooc-university.html?pagewanted=all_&_r=3&emc=eta16



Bill Gates' classroom of the future



Gates: How to make digital classrooms work



Poll #2: Is this a revolution in education today?

- A. Yes...
- B. No...



My dog is content....



I am not Content!!!



May 24, 2010

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

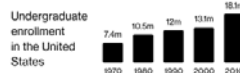
http://www.wired.com/magazine/2010/05/ff_nicholas_carr/



September 27, 2012

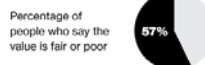
The Crisis in Higher Education, Nicholas Carr, Technology Review

<http://www.technologyreview.com/featured-story/429376/the-crisis-in-higher-education/>



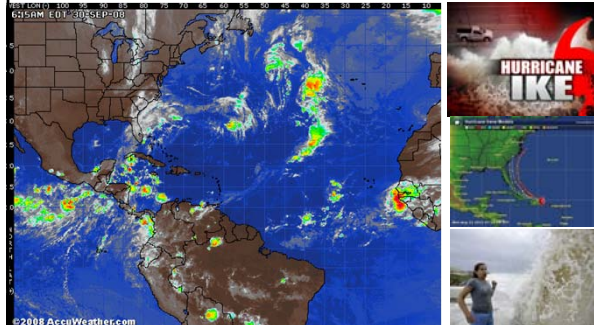
Average cost of a year on campus

\$27,435



Data from Institute of Education Sciences and Pew Research Center.

Who needs online and blended learning?
 (Katrina, August 2005; Ike, Sept 2008; Irene, August 2011; Isaac, August 2012)



September/October, 2012
The Siege of Academy
 Washington Monthly, Kevin Carey

http://www.washingtonmonthly.com/magazine/septemberoctober_2012/features/its_three_clock_in033173.php?page=all



January 16, 2013

Carmen Ortiz and Stephen Heymann: accountability for prosecutorial abuse
 Glenn Greenwald, The Guardian

<http://www.guardian.co.uk/comment/2013/jan/16/ortiz-heyman-swartz-accountability-abuse>

Aaron Swartz: husband of prosecutor criticizes internet activist's family
 IBM executive married to district attorney hresents anger after family suggests overzealous prosecution contributed to his death

Carmen Ortiz and Stephen Heymann: accountability for prosecutorial abuse
 Impinging real consequences on these federal prosecutors in the Aaron Swartz case is vital for both justice and reform

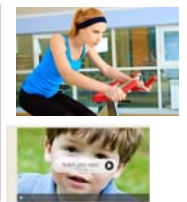
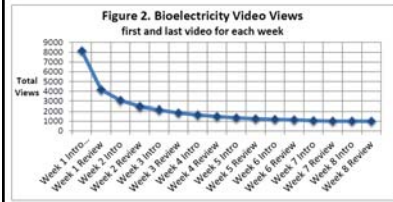


February 5, 2013

Bioelectricity: A Quantitative Approach, Duke University's First MOOC

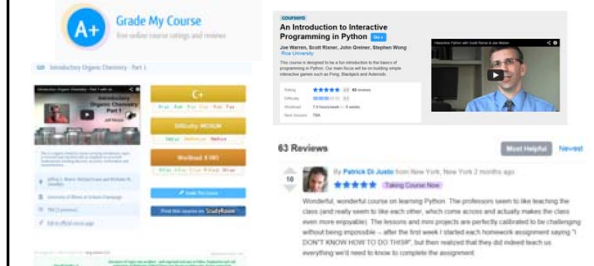
http://dukeopen.lib.duke.edu/dukeopen/dukeopen/2013/02/05/Duke_Bioelectricity_MOOC_fa2013.pdf

THE CONVERSATION



February 27, 2013 (Inside HE)
Grade My Course, CourseTalk
 (i.e., Yelp for Ed)

<http://www.grademycourse.com/>; <http://coursetalk.org/>



May 6, 2013

Faculty Backlash Grows Against Online Partnerships
 Chronicle of Higher Education, Steve Kolowich

<http://chronicle.com/article/Faculty-Backlash-Grows-Against/139049/>



By Steve Kolowich

May 10, 2013

Debate Over MOOCs Reaches Harvard
 Chronicle of Higher Education, Dan Berrett
<http://www.chronicle.com/article/Debate-Over-MOOCs-Reaches-Harvard/123456>

May 10, 2013
 Debate Over MOOCs Reaches Harvard
 By Dan Berrett
 Cambridge, Mass.

Ambivalence about MOOCs, which has increasingly been voiced on campuses across the country, is also being heard among faculty members at Harvard University.

Facebook Twitter LinkedIn Comments (51)

May 9, 2013
 As MOOC Debate Simmers at San Jose State, American U. Calls a Halt
 By Steve Kolowich

EdX Rejected
 April 19, 2013 - 3:00am
 by [Rly Howard](#)

The Web of Learning

**The World is Open...
It is very open!**

I'm an Armchair Indiana Jones...

Framework #1: WE-ALL-LEARN:
 Ten Forces that Opened the Learning World

- W**eb Searching in the World of e-Books
- E**-Learning and Blended Learning
- =====
- A**vailability of Open Source and Free Software
- L**everaged Resources and OpenCourseWare
- L**earning Object Repositories and Portals
- =====
- L**earner Participation in Open Info Communities
- E**lectronic Collaboration and Interaction
- A**lternate Reality Learning (e.g., MMOG, Second Life)
- R**eal-Time Mobility and Portability (e.g., iPhone)
- N**etworks of Personalized Learning (Blogs, RSS)

Audience Participation!

1. WE

2. ALL

3. LEARN!!!

Sleepy U?



Ok, Million Dollar Question: What words come to mind when I say that I want to motivate learners?



Motivation Research Highlights (Jere Brophy, Michigan State University)

1. **Supportive**, appropriate **challenge**, **meaningful**, moderation/optimal.
2. Teach **goal** setting and self-reinforcement.
3. Offer **rewards** for good/improved performance.
4. Novelty, **variety**, **choice**, adaptable to interests.
5. Game-like, **fun**, fantasy, curiosity, suspense, active.
6. Higher levels, divergence, dissonance, **peer interaction**.
7. Allow to create finished **products**.
8. Provide immediate **feedback**, advance organizers.
9. Show intensity, **enthusiasm**, interest, minimize anxiety.
10. Make content **personal**, concrete, familiar.



Intrinsic Motivation



“...innate propensity to engage one’s interests and exercise one’s capabilities, and, in doing so, to seek out and master optimal challenges

(i.e., it emerges from needs, inner strivings, and personal curiosity for growth)

See: Deci, E. L., & Ryan, R. M. (1985). *Intrinsic motivation and self-determination in human behavior*. NY: Plenum Press.



Framework #2: 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



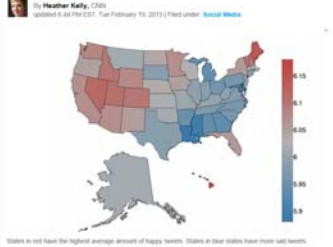
Examples of TEC-VARIETY



1. Tone/Climate: A. React to Maps

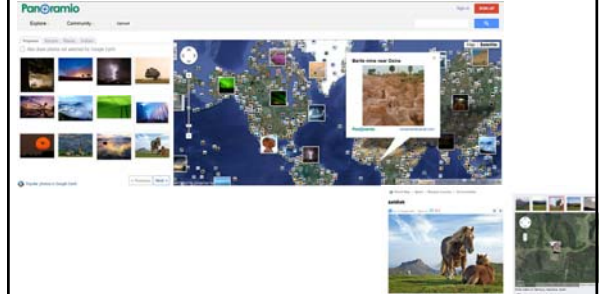
The happiest and saddest states according to Twitter
Heather Kelly, CNN Tech, February 19, 2013
<http://www.cnn.com/2013/02/19/tech/social-media/twitter-happiness/index.html>

The happiest and saddest states according to Twitter



1. Tone/Climate: B. Share Visuals

(e.g., Panoramio,
<http://www.panoramio.com/>)



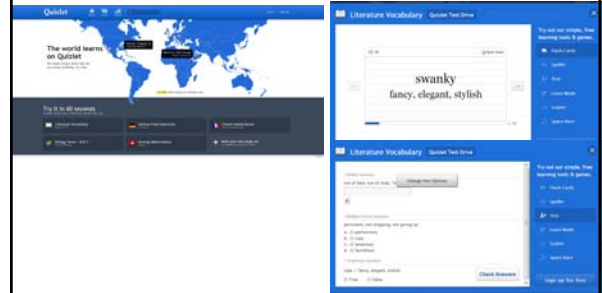
2. Encouragement, Feedback, etc.: A. Voice Feedback

Vocaroo; <http://vocaroo.com/>
<http://vocaroo.com/i/s0cPtYwANatf>



2. Encouragement, Feedback, etc.: B. Quizlet (online quiz tools)

Quizlet (online quiz tools)
<http://quizlet.com/>



3. Curiosity, Fun: A. Something in the News

(e.g., Fauja Singh, 101, finishes last race, February 24, 2013)
http://www.espn.com/sports/endurance/story/_/id/8979487/fauja-singh-101-caps-career-10k-honk-kong

Fauja Singh, 101, finishes last race

HONG KONG — The world's oldest marathon runner ran his last race on Sunday at the age of 101.
Fauja Singh finished the Hong Kong marathon's 10-kilometer (6.25-mile) race in 1 hour, 32 minutes, 28 seconds.
Singh, a Sikh with a saffron turban and a flowing white beard, followed the route along the northern tip of Hong Kong island.
He was accompanied by a group from the city's local Sikh community, among about 22,000 other runners taking part in the marathon.
The Indian-born runner, nicknamed the "Furthest Wanderer," had said that he would hang up his sneakers after the race in the southern Chinese city, just before his 103rd birthday.

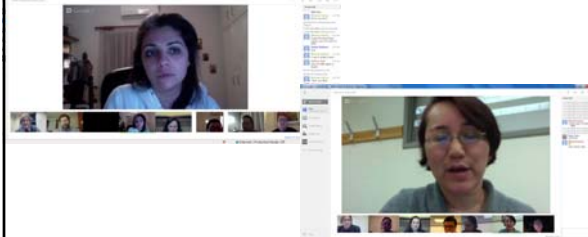


3. Curiosity, Fun: B. History for Music Lovers

The French Revolution ("Bad Romance" by Lady Gaga)
Trojan War ("Tainted Love" by Soft Cell)
Charlemagne ("Call Me" by Blondie)
The Vikings ("Personal Jesus" by Depeche Mode)
The Crusades ("Eyes Without a Face" by Billy Idol)
Constantine ("Come On, Eileen" by Dexy's Midnight Runners)
<http://www.youtube.com/user/historyteachers>



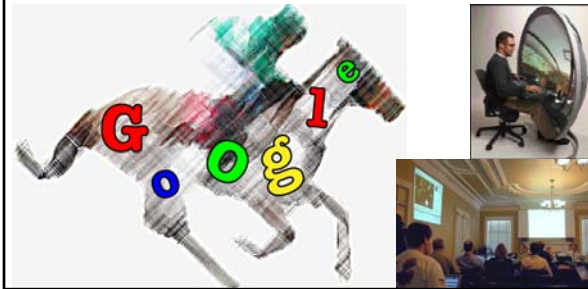
4. Variety, Novelty, Intrigue, Unknowns:
A. Class Sync Collaboration and Discussion in Google Hangouts
 (Spring, 2013)



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



5. Autonomy, Choice:
A. Online Resource Search
 (Class Google Jockeys)
 (links to text, soundtracks, video clips, etc.)



5. Autonomy, Choice:
B. 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 Archives 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 Hemmingway: <http://www.timelesshemmingway.com/>



5. Autonomy, Choice:
A. Demonstrate, Explore, and Share Websites
 Commonwealth of Learning, March 2013
http://www.col.org/news/Connections/2013Mar/Documents/Connections_March2013.pdf

ONLINE COURSE DEVELOPMENT FOR TEACHER EDUCATION IN JAMAICA



Poll #2: (Tone, Encouragement, Curiosity, Variety, Autonomy)
 Any light bulbs going off in your head so far...? If so, where?

- A. Yes definitely
- B. Maybe
- C. No



6. Relevance, Meaningfulness: A. Design Multimedia Glossaries

Ozgur Ozdemir, December 2012
<http://r685glossary.shutterfly.com/>
 Umida Khikmatillaeva, Dec. 2011, P540
<http://learningplanet.shutterfly.com/>



6. Relevance, Meaningfulness: B. Design Reusable Web Resources

Umida Khikmatillaeva, Creating a Global Classroom
 World is Open for Language Learners
<http://hikmatnoma.wix.com/globalclassroom#home/c2df>



7. Interactive, Collaborative: A. Collaboration and Discussion in Google Hangouts

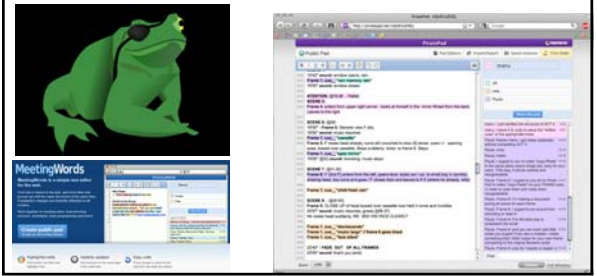
(January 29 and February 25, 2013)



7. Interactive, Collaborative: B. Negotiate Meanings Online

(e.g., PiratePad: <http://meetingwords.com/>)

MeetingWords is a simple text editor for the web. Your text is saved on the web, and more than one person can edit the same document at the same time. Everybody's changes are instantly reflected on all screens. Work together on meeting notes, brainstorming sessions, homework, team programming and more!



7. Interactive, Collaborative: C. Organizing Online Teams

Paul Kim, Stanford: October 28, 2012
 17,380 students. I haven't met f2f. I am shocked to see students from places where Internet is very limited. You will find students from even Zanzibar!!! Many teams are formed and they meet f2f in the region where they live.
<http://venture-lab.org/education/>



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/22/middle-east-protest-interactive-timeline>



8. Engagement, Effort:
B. Life on Timeline
 How Jimmy Wales' Wikipedia Harnessed the Web as a Force for Good, Ted Greenwald, March 19, 2013, Wired Magazine
<http://www.wired.com/wiredenterprise/2013/03/jimmy-wales-wikipedia/2/>



The Encyclopedic Mind of Jimmy Wales
 The Wikipedia co-founder started out as a PhD student in economics and ended up unleashing a revolution in knowledge. —Julia Crig

1963
 A year from a teaching position leaves Wales with his first entrepreneurial, a WNET show. It's funded by his mother and grandfather in a nontraditional school, he spends hours making encyclopedias, including Britannica.

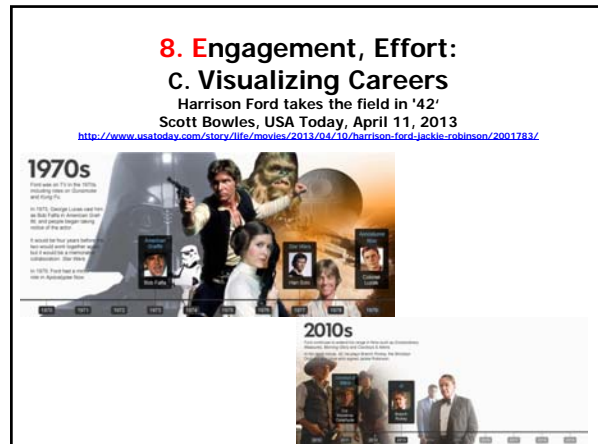
1994
 Drops out of his PhD program in economics at the Indiana University and takes a job as a trader at Chicago Futures Associates, a future and options firm. For his, he writes code after work, building a web browser.

1996
 Moves. The Webbed through an online philosophy master's but end the year join up to found the most-quoted search engine, HotBot. The site allows users to compare content and scan features similar of "Google babies."

Click the arrows to move through the timeline.

Wales: I'm not sure, but the first time the concept became clear to me was in December 2003, when Jimmy Rosenthal, who worked with me at the time, proposed using a wiki on the encyclopedic project. We decided to give it a try, and we got more work done in two weeks than we had done in two years.

8. Engagement, Effort:
C. Visualizing Careers
 Harrison Ford takes the field in '42'
 Scott Bowles, USA Today, April 11, 2013
<http://www.usatoday.com/story/life/movies/2013/04/10/harrison-ford-jackie-robinson/2001783/>



1970s
 Harrison Ford's career took off in the 1970s, starting with the role of Han Solo in Star Wars. He went on to star in several other major films, including the Indiana Jones franchise.

2010s
 In the 2010s, Ford has continued to take on diverse roles, including the character of Rick O'Connell in The Mummy franchise and the role of a former CIA operative in the action thriller Air Force One.

8. Engagement, Effort:
D. Timelines with Oral Histories, Slavery and the Making of America Time and Place, PBS
<http://www.pbs.org/wnet/slavery/timeline/1857.html>

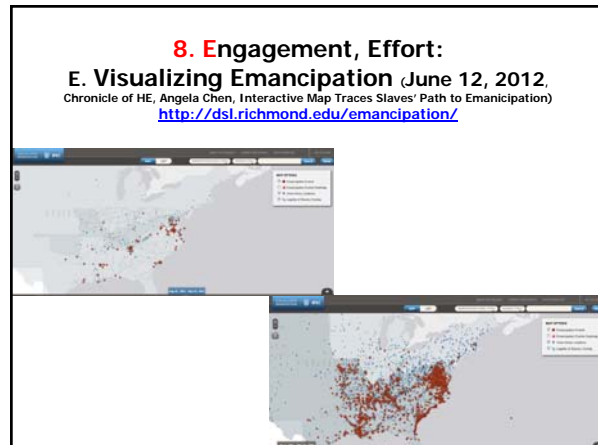


1857
 The U.S. Supreme Court ruling in DRED SCOTT v. SANDFORD decision, declaring that all slaves in states and territories of free and slave states. Congress the right to prohibit slavery in the territories.

Now defined by slaves and their heirs. Still over the class issue, about a given period.

Click for other events that took place in or around 1857.

8. Engagement, Effort:
E. Visualizing Emancipation (June 12, 2012,
 Chronicle of HE, Angela Chen, Interactive Map Traces Slaves' Path to Emancipation)
<http://dsl.richmond.edu/emancipation/>



9. Tension, Challenge, etc.:
A. Cage Match or Debate
 MOOCs at SXSWedu (Curt Bonk & Chuck Severance)
<http://chrisvick.com/blog/sxswedu-at-south-by-southwest-education.com-tensions-challenge-entrepreneur-and-education/4217/>

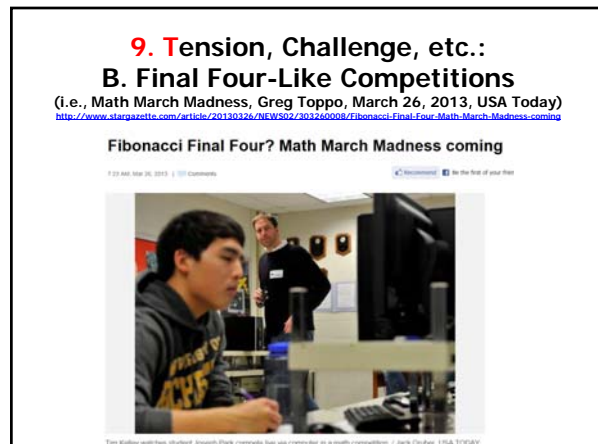


Bonk **Severance**

9. Tension, Challenge, etc.:
B. Final Four-Like Competitions
 (i.e., Math March Madness, Greg Toppo, March 26, 2013, USA Today)
<http://www.stargazette.com/article/20130326/NEWS02/303260008/Fibonacci-Final-Four-Math-March-Madness-coming>

Fibonacci Final Four? Math March Madness coming

7:20 AM, Mar 26, 2013 | 0 Comments



Joe Eddler writes for Student Joseph Park competes in math competition. —Jodi O'Neil / USA TODAY

9. Tension, Challenge, etc.:
C. Decision-Making Scenarios
 (e.g., Articulate Storyline)
http://articulate.demos.s3.amazonaws.com/broken_co-worker/story.html

9. Tension, Challenge, etc.:
D. Peer Ratings on Final Projects
 (Note: from Paul Kim's MOOC, Stanford)

	A	B	C	D	E	
Review 1	5	5	5	5	5	
Review 2	5	5	5	5	5	
Review 3	5	5	5	5	5	
Review 4	5	5	5	5	5	
Review 5	5	5	5	5	5	
Review 6	5	5	5	5	5	
Review 7	5	5	5	5	5	
Review 8	5	5	5	5	5	
Review 9	5	5	5	5	5	
Review 10	5	5	5	5	5	

10. Yields Products, Goals:
A. Student YouTube Products
 Qi Li: R685 Gangnam Style, December 2012
<http://www.youtube.com/watch?v=7Q429lqzZaU&feature=youtu.be>

10. Yields Products, Goals:
B. Final Product Video Summaries
 (on IQ Wall, April 22, 2013)
 Piercarlo Abate
<http://www.youtube.com/watch?v=TUBzH0Dau>

10. Yields Products, Goals:
C. I Done This, Milestone Planner, and 43 Things

Commitments:
Stop and Share:
 Which principle(s) of TEC-VARIETY will you use?

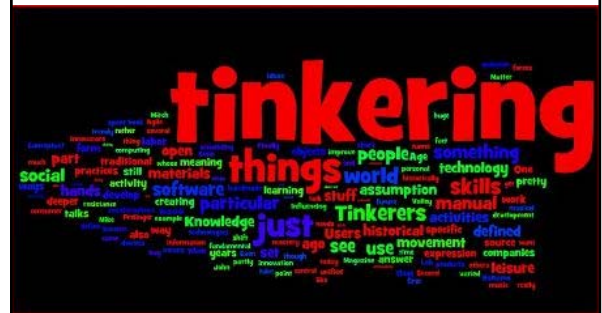
- Tone/Climate
- Encouragement, Feedback
- Curiosity

- Variety
- Autonomy
- Relevance
- Interactive
- Engagement
- Tension
- Yields Products

From Tinkering to Tottering to Totally Extreme Learning...



Tinkering

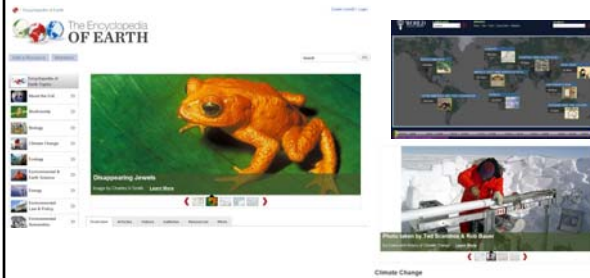


Tinker #1.

Using Online Encyclopedias
(e.g, the Encyclopedia of Earth:

<http://www.eoearth.org/>)

http://en.wikipedia.org/wiki/Encyclopedia_of_Earth



Tinker #2.

Educational Videos: TED-Ed

<http://education.ted.com/>



Tinkering #3.

Tracking the Life of a Scientist
(e.g., Brian J. Ford, independent scientist)

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

<http://www.labnews.co.uk/news/prehistoric-revolution/>

<http://www.youtube.com/embed/kimNnRFHCzk?rel=0>



Tottering



Totter #1. Combining Asynchronous and Synchronous Events (flipping classes)

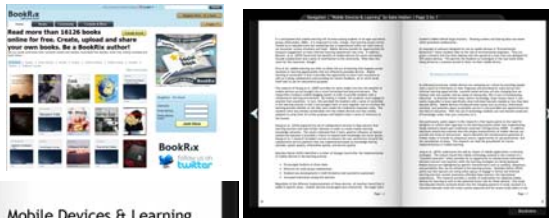


Totter #2. Multiple Guest Experts

Sara de Freitas and Jim Hensman, U of Coventry, UK
 Jay Cross, Berkeley (<https://connect.lu.edu/p484bytsoromb/>)

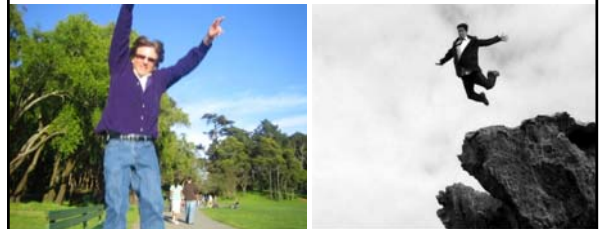


Totter #3. Uploading Mobile Books
 (e.g., BookRix, <http://www.bookrix.com/>)



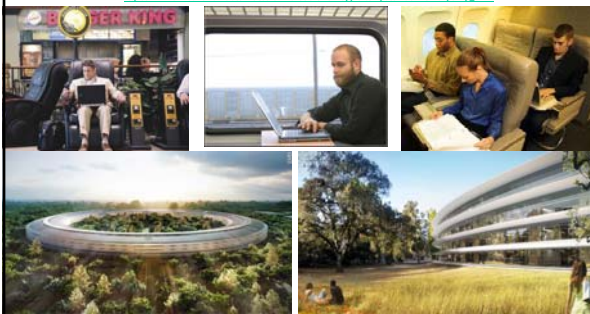
Mobile Devices & Learning
 How mobile devices are re-shaping the field of education

We are entering a jumping off point...

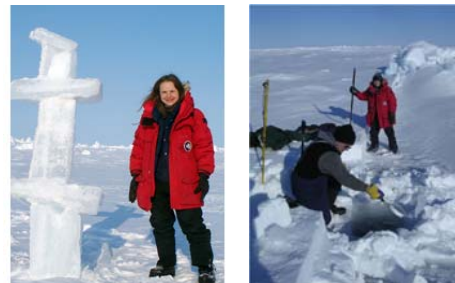


You Want Totally Extreme?

Apple's new 'spaceship' campus: What will the neighbors say?, Doug Gross, CNN, May 22, 2012
http://www.cnn.com/2012/05/22/tech/innovation/new-apple-campus/index.html?hpt=hp_bn11



Totally Extreme #1.
iPod Learning from MIT OCW
 (e.g., Wendy Ermold, University of Washington)



Totally Extreme #2. Remote Animal Streaming

Remote Maine puffin colony up close on HD web cam
Clarke Canfield, The Statesman, June 27, 2012
<http://www.statesman.com/business/technology/remote-maine-puffin-colony-up-close-on-hd-2405257.html>



This still frame from streaming online video, provided by explore.org, the Annenberg Foundation and the National Audubon Society, shows puffins on the shore of Seal Island, Maine, Wednesday, June 27, 2012. The island is the habitat for the largest puffin colony in the U.S.

Totally Extreme #3. February 22, 2013 NASA's spacey Google+ Hangout shows off zero-G antics – and cats!

<http://www.nasa.gov/content/images/content?cid=120788&size=small&format=jpeg&url=http://www.nasa.gov/content/>



Totally Extreme #4. MBAs from War Zones...!



Totally Extreme #5. Blog Adventures

Tracing the fate of Algal Carbon Export in the Ross Sea, Antarctica
TRACERS: The NBP13-02 Cruise, February 12 to April 5, 2013
<http://tracers-nbp1302.blogspot.com/p/the-project.html>
From: Cassandra Brooks [cbrooks1@stanford.edu]
Sent: Thursday, January 31, 2013 12:09 AM
Subject: I'm heading out today to New Zealand, then flying to Antarctica where we pick up our NSF icebreaker. We'll be at sea for about 54 days.



Where are we headed?



1. Video Walls of Experts



2. Mobile Video Connections to Experts and Friends



3. Expert Access from Our Watches



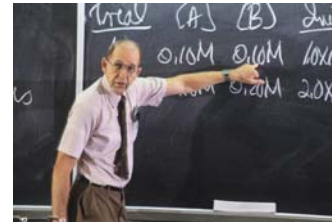
4. Interactive Globes

(e.g., NY Times Interactive Photo Globe)

http://www.nytimes.com/interactive/2010/05/03/blogs/a-moment-in-time.html?_r=0



6. Experts Apprenticeship from the Deported



Duke Flags Lowered: Longtime Duke Chemistry Professor James Bonk Dies, Duke Today, March 15, 2013

<http://today.duke.edu/2013/03/bonkobi>

Stop and Share:

Three Words from Today's Session!



Who is Content Now?

Website: www.Extreme-Learning.com

Slides at: TrainingShare.com

Book: <http://worldisopen.com/>

Dr. Curt Bonk – CJBonk@Indiana.edu

Contentment

