E-Learning: It's about Nature (technology) AND Nurture (pedagogy)

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Dog Gets MBA,
Unmuzzling Diploma Mills: Dog Earns M.B.A. Online
#1 Marc Perry

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

September 5, 2010
Open Source goes to High School (Utah)
http://www.youtube.com/watch?v=soove-T5xGk
Open Source goes to High School

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

Examinations of Evidence-based Practices in Online Learning: A Meta-Analysis and Review of Online Learning Studies
Prepared by
Barbara Means
U.S. Department of Education
Office of Educational Technology, Policy, and Program Support
Katie Jones
Center for Technology in Learning
October 31, 2010
Online Education vs. Traditional Learning:
Time to End the Family Feud
Mark David Milliron, Chronicle of Higher Education

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

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

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

February 16, 2011
Bill Clinton in Surprise Talk on Tech: It's the Institutions, Stupid, David Zax, Fast Company

But I am not Content!!!
Shovelware

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

July 23, 2010
India unveils $35 computer for students, CNN World, Harmeen Shah Singh

Dec 30, 2010
The year we stopped talking
Sharon Jayson, USA Today

January 23, 2011
As the Web Goes Mobile, Colleges Fail to Keep Up
Chronicle of Higher Ed, Josh Keller
http://chronicle.com/article/As-the-Web-Goes-Mobile/115388/

"I used it to sign up for classes. I used it to check e-mails," says Laura Patterson, a junior at Nevada State College, about her iPhone. "I used it all the time, for everything." More than 40 percent of all college students, like Nevada State's Laura Patterson, used mobile devices to get on the Internet away day last year, compared with 10 percent in 2008.

February 17, 2011
US internet access still a problem: Gov't says up to 10 pct in US lack good Internet, Joel Tassiar, AP Technology Writer
Some Educational and Psychological Heroes:
John Dewey, Seymour Papert, John Seely Brown, Ivan Illich, Stephen Heppell, Henry Jenkins

Our New Heroes are not Theoretical or Psychological

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!

Answer:
The Web of Learning

The Web of Learning

Today we have the Web 2.0

WEB 2.0
- Ejournal
- Google
- Facebook
- Pbox
- Blogger
- Slideshare
- Photobucket
Feb 1, 2011: Self-Organized Learning
from Sugata Mitra, Teacher-Replacing Tech: Friend or Foe?, Gregory Ferrence, Fast Company

Nature AND Nurture:
Technology

Technology
Pedagogy
People,
Society, Culture,
etc.

Nature: 13 Emerging Learning Technology Trends

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

1. Online Language Learning
January 27, 2010 and Feb 5, 2010: The Web Way to Learn a Language, NY Times, ERIC A. TAUB (e.g., EnglishCentral, iTalki, Palabaa, Babbel)

2. Tablet Computers Hit (iPad)
April 10, 2010: Seton Hill Univ, 2,100 students an iPad and freshmen a 13-inch MacBook laptop
August 10, 2010: Can college students learn as well on iPads, e-books?, USA Today, Beth Marklein

Samsung: Galaxy Tab has leg up on Apple iPad, By Stephen Shankland, CNET, September 3, 2010
Feb 8, 2011: CNN HP unveils TouchPad tablet, two phones, Mark Milian, CNN.
Feb 9, 2011: Apple iPad 2 now in production, Chris Taylor, CNN Tech News

Feb 15, 2011: Widescreen tablets are coming soon, Mark Milian, CNN
Feb 15, 2011: iPhone 5 rumor round-up, Julie O'Dell, CNN

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

3. Inexpensive Laptops and Tablet Computers
May 27, 2010: OLPC, Marvell Join Forces, Announce sub-$100 Tablet by December 2010, Mike Prospero

4. Pocket Dictionaries
September 9, 2010: Campus Tech in China: Impressions From 3 Campuses, Jeff Young
http://chronicle.com/chsppt/Campus-Tech-In-China/123012

I didn’t see any laptops in use here, though the three Korean exchange students I sat with proudly produced their favorite educational gadgets: portable electronic dictionaries that can hunt down words in Chinese, Korean, English, and Japanese. Language learning has the best use of technology here, according to some professors I’ve talked to this week, and electronic stores sell what seems like hundreds of varieties of digital dictionaries.

5. Digital Textbook Projects (Korea), Sept. 21, 2010: What South Korean Schoolchildren Can Teach Colleges About E-Textbooks; By Jeff Young, Chronicle of HE. Korea E-Learning Week, Coex, Seoul, Sept. 16-17, 2010
6. Mobile Music

December 10, 2010: Virtual Bands, Choirs, Singers, etc. iBand Rocks Tunes on iPads and iPhones; PadGadget.

7. Video Calling/Conferencing/Webcamming

December 20, 2010: Skype for iPhone adds two-way video calling, CNet Reviews

8. Social Networking Gaming

December 24, 2010: CityVille 16.8 million daily users, FarmVille 16.4 million, CityVille 61.7 million monthly users, FarmVille 56.8 million users. Mashable.

“CityVille” is now bigger than “FarmVille”

9. E-Book Readers

January 28, 2011: Amazon: Kindle Books Finally Eclipse Paperbacks, Doug Aamoth


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

10. iPad News

Aug 10, 2010: Flipboard pretties up social-media updates Facebook statuses and tweets feed into magazine-like format in free app for iPad; Jefferson Graham, USA TODAY

Feb 1, 2011: A peek at The Daily’s iPad news app ($40/year); CNN Tech, Mark Milian

11. Pocket School and Mobile Empowerment

12. New Interfaces
Feb 18, 2011: Telekinesis 2.0, David Sax, Fast Company

13. 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 Perguso, USA Today.

Nature AND Nurture: Pedagogy

WE-ALL-LEARN:
Ten Forces that Opened the Learning World
- Web Searching in the World of e-Books (I.e., Darwin)
- E-Learning and Blended Learning
- Availability of Open Source and Free Software (e.g.,
  Moodle)
- Leveraged Resources and OpenCourseWare (e.g., MIT)
- Learning Object Repositories and Portals (I.e., shared
  content)
- Learner Participation in Open Info Communities (YouTube)
- Electronic Collaboration and Interaction (sync and async)
- Alternate Reality Learning (Online Massive Gaming,
  Simulations, and Virtual Worlds; e.g., Second Life)
- Real-Time Mobility and Portability (e.g., IPhone)
- Networks of Personalized Learning (Blogs, RSS)

"Video Primers in an Online Repository for
e-Teaching and Learning" V-PORTAL,
TravelinEdMan (27 free/open YouTube videos),
September 2010
http://www.youtube.com/user/TravelinEdMan

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.

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**The R2D2 Method**

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

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**1. Auditory or Verbal Learners**

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

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**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.

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**Read 1. Reading from Open Access Journals (e.g., PLOS)**
Reflect 2. Analyze Online Cases (problems, solutions, etc.)

Display 3. Concept Mapping and Timeline Tools (VUE, Bubbl.us, Cmap, Freemind, Giffy, Mindmeister, or Mindomo)

Do 4. Create Blogs (e.g., Dr. Kim Foreman, San Fran State University, Come and See Africa Blog; http://comeandseeafrica.blogspot.com/)

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

Ok, Million Dollar Question: How do you motivate online learners? What Words come to mind?

I even reflected on this for a moment...and then something magical happened...
TEC-VARIETY Model 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

6. Relevance, Meaningfulness:
A. Tour an Online Oil Drilling Site or Role Play Situations (i.e., BP)

2. Encouragement, Feedback, etc.:
A. Online Self-Testing (e.g., self-study in accounting, vocabulary, anatomy, chemistry, dissection, etc.)

TEC-VARIETY Model for
Online Motivation and Retention
Tone/Climate
Encouragement, Feedback
Curiosity
Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products

Tinkering, Tottering, or Totally Extreme?

Tinkering
Tinker #1. Webcast Lectures
(Tegrity, Echo360, Mediasite, etc.)

Tinker #2. Expert Podcast and Blog Reflections

Tinker #3. Anchored Instruction with Shared Online Video
(track the life of scientists; e.g., Brian J Ford)

Tinker #4. Video Animations

Tinker #5. Online Portals of Rich Data
United Nations Open World Digital Library, Turning the Pages from the British Library, etc. (history, culture, literature, writing, art, etc.)

Tinker #6. Educational Simulations
Tinker #7. Timeline Tools
(e.g., SIMILE from MIT (http://simile.mit.edu/), Learning Tools from UBC)

Tinker #8. Collaborative Groups
(Google Docs, Ning, Google Groups, MSN Groups, Yahoo Groups)

Totter #1. Bridges to World of Expert and Practitioners
(e.g., Watch or Listen to Online Conferences, Expert Interviews, blogs, chats, etc.)
Totter #4. Synchronous and Asynchronous Events (e.g., Breeze + Video + Online Forum + Online Papers)

Totter #5. Wikibooks, Wikipedia editing, wiki syllabi, wiki glossaries (Ron Owston, York University, Toronto)

Totter #6. Student YouTube Products
http://www.youtube.com/watch?v=xwSryFp8uQ
http://www.youtube.com/watch?v=nCiP_yDdFlq
http://www.youtube.com/watch?v=tzsaOrHsUr0

Totter #7. Podcast Productions and Virtual Performances for students of pronunciation class (e.g., Tzu-Su Chen, Taiwan)

Totter #8. Video Blogging

Totter #9. Totally Extreme Learning
Totally Extreme #1. Live Expeditions
(Oceanographer touts deep sea web surfing; Nautilus Live allows people to watch expeditions live & listen to scientists in control rooms as discoveries made, eSchool News, June 2010, Deep-sea images reveal colorful life on ocean's floor, Sept. 2010)

Totally Extreme #2. Adventure Learning,
GeoThentic, Earthducation, Polar Husky,
GoNorth (Aaron Doering, Univ of Minnesota),
Impossible to Possible, Ray Zahab

Totally Extreme #3. The LAST OCEAN
Website and The Last Ocean Project
http://www.lastocean.com/ and http://lastocean-
project.org/; Cassandra Brooks

Totally Extreme #4. Adventure Learning (cars and bikes)
Dan Grec and Mark Beaumont

Totally Extreme #5. South African teens get virtual mentoring from all over the world, By
Danielle Berger, CNN, January 14, 2011
http://www.cnn.com/2011/EXTRM/01/12/conferences.articles/index.html#topTF

Totally Extreme #6. On-Demand Multi-Participant Synchronous Conferencing
Poll #1: How many ideas did you get?

1. 0 if I am lucky.
2. Just 1.
3. 2, yes, 2...just 2!
4. Do I hear 3? 3!!!!
5. 4-5.
6. 5-10.

It is both Nature AND Nurture as well as PEOPLE!!! Technology is just part of the Equation:

- Technology
- Pedagogy
- People, Society, Culture, etc.

Any Extreme Questions and Comments?

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