Living in Tech City: 50+ Technology Trends and Innovations Transforming Workplace Learning, Education, and Our Lives

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

"**The log-on degree**"
March 14, 2015
The Economist

Audience Poll #1:
Has learning technology has ever transformed your life?

Remembering Charles M. Vest
Former MIT president and advocate for openness.

1728: 1st correspondence course advertised Boston
(learn shorthand from Caleb Phillips thru weekly mailed lessons)
The First University Correspondence Course
(University of London, External Program, 1858)
1728-1990s – Generally postal system based
1930s – phonograph and radio
1950s and 1960s – television
1970s and 1980s – VHS tapes
1980s and 1990s – DVD

The Problem with Learning Technology
Karen Wilcox, November 7, 2014, Chronicle of Higher Education
https://chroniclevitae.com/news/792-the-problem-with-learning-technology?cid=at&utm_source=at&utm_medium=en

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May 20, 2015
Tech Woes at Small Colleges: If it's broken, and it probably is, then adapt, Chronicle of Higher Education, Jon Nichols
http://chronicle.com/article/Tech-Woes-at-Small-Colleges/230245/?cid=at&utm_source=at&utm_medium=en

Mimeograph machine, Wikimedia Commons

The Personal Computer Era...

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/

Poll#2: Read any good books lately?
Creativity, Inc. (2014)
http://www.creativityincbook.com/

The Innovators:
How a group of hackers, geniuses, and geeks created the digital revolution. New York: Simon & Schuster.
Walter Isaacson (2014)
http://books.simonandschuster.com/The-Innovators/Walter-Isaacson/9781476708690

Fall 2014, On Wisconsin
MOOC, Meet MORC (Massive Open Radio Course)
WHA, UW Madison, College of the Air,1933,
Vocational Training dedicated to Agriculture,
and later Home Economics and Typing

MOOC, Meet MORC

Poll #3: Listen to the Radio Lately?
November 14, 2014
School lessons by radio in Sierra Leone, Liberia, IRIN
(Humanitarian News and Analysis), MONROVIA/FREETOWN/DAKAR
http://www.irinnews.org/report/100838/school-lessons-by-radio-in-sierra-leone-liberia
http://www.pce.uw.edu/about/Leadership/

Poll #4: Turn on the TV Lately?
November 14, 2014 (2:25)
Why online ed disrupts the traditional model,
Fareed Zakaria GPS, CNN, On GPS, Stuart Butler & Anant Agarwal explain why students are drawn to
online higher education: tuition debt & exciting new technologies
http://www.cnn.com/video/data/2.0/video/bestoftv/2014/11/15/exp-gps-moocs-sot.cnn.html

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

Knowledge Navigator (1987)
Apple Computer
http://www.youtube.com/watch?v=hb4AzF6wEoc

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

SKILLSHARE   LEARN   TEACH

Learn anything from anyone, anywhere.

Join us! Start learning and discover unique classes in your city.

Thirty Ways
Learning is Changing...
(i.e., it's more informal, video-based, ubiquitous, collaborative, self-directed, global, mobile, open, massive, etc.)

Two Cheers for Web U!

From Instructor as Credit Manager

To Instructor as Orchestra Conductor and Concierge

Learning is Technology Based
New Technologies =
New Delivery Methods...

I. Learning is More Mobile
(e.g., mobile courses on smartphone)

April 2, 2015
Review: Samsung rises to challenge with Galaxy S6 and S6 Edge, Edward Baig, USA Today
http://www.usatoday.com/story/tech/columnist/baig/2015/03/31/samsung-rises-to-challenge-with-galaxy-s6-s6edge/70727752/

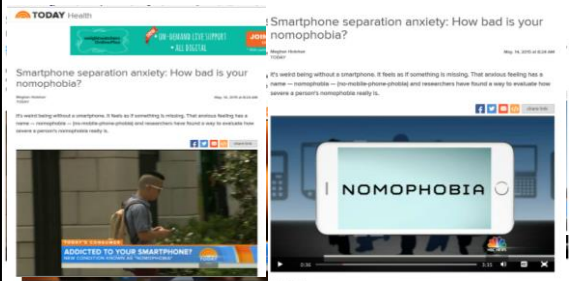**April 9, 2015**
I'll Buy the Apple Watch, Ed Baig, USA Today
http://www.usatoday.com/story/tech/columnist/baig/2015/04/08/baig-buying-the-apple-watch/25436885/
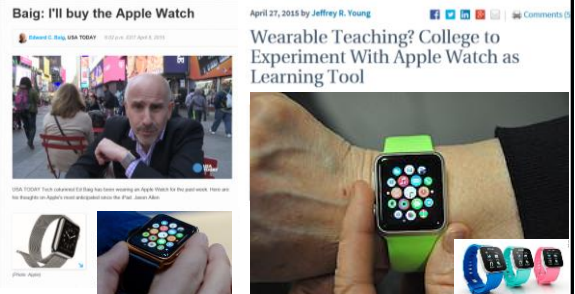
May 14, 2015
Smartphone separation anxiety: How bad is your nomophobia?, Today Health, Meghan Holohan
http://www.today.com/health/smartphone-separation-anxiety-how-bad-yours-t20786

Readers: Are we headed for a smartphone zombie apocalypse?, CNN, Nicole Saidi, October 4, 2012
http://www.cnn.com/2012/10/03/tech/smartphone-zombie-apocalypse-comments/index.html?iid=article_sidebar

II. Learning is More Flipped
January 7, 2015
When a Flipped-Classroom Pioneer Hands Off His Video Lectures, This Is What Happens, Jeffrey R. Young, The Chronicle of Higher Education
http://chronicle.com/article/When-a-Flipped-Classroom/151031/
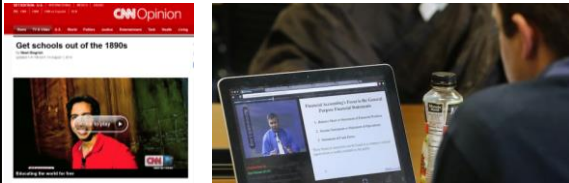
A student watches a video of Norman Nemrow's accounting class. Mr. Nemrow started the video lectures nearly 15 years ago at Brigham Young U. He is now retired, but students still watch him on the screen.

III. Learning is More Video-Based
February 15, 2015
Lynda.com Excel Training, IU
http://www.lynda.com/Excel-tutorials/Excel-2010-Essential-Training/61219-2.html

IV. Learning is More Visual
September 22, 2014
110 Foot Engagement,
Elliott Masie's Learning 2014
http://www.learning2014.com/index.php/item/110-foot-screen-engagement.html

October 6, 2014
Stanford U Display Wall Takes Visualization to a Higher Level,
Dian Schaffhauser, Campus Technology

V. Learning is More Touch Sensored
October 16, 2013
Corporate Classrooms: Adapting to Change
Chief Learning Officer, Frank Kalman
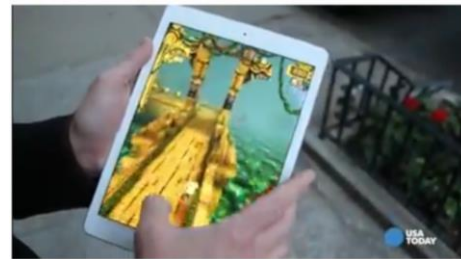http://www.clomedia.com/articles/corporate-classrooms-adapting-to-change

VI. Learning is More Game-Based
October 21, 2014
Sexy iPad Air 2 is fabulous but not a must upgrade, Edward Baig, USA Today
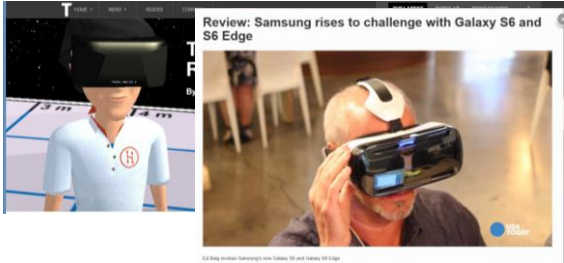http://www.usatoday.com/story/tech/columnist/baig/2014/10/21/ipad-air2-fabulous-tablet-is-not-must-upgrade/17658295/

VII. Learning is More Immersive
April 2, 2015
***The Quest to Put More Reality in Virtual Reality*,**
**Review: Samsung rises to challenge with Galaxy S6
and S6 Edge, Edward Baig, USA Today**
http://www.usatoday.com/story/tech/columnist/baig/2015/03/31/samsung-rises-to-challenge-with-galaxy-s6-s6edge/70727752/

March 30, 2015
Virtual reality is coming to sex, sports and Facebook,
**Marco delia Cava, USA Today**
http://www.usatoday.com/story/tech/2015/03/27/virtual-reality-oculus-rift-facebook-vr-will-be-everywhere/70547882/
https://soundcloud.com/usatodaytech

**A technician uses virtual reality to test out new military
hardware before it's ever put into production.**

VIII. Learning also is More Collaborative
March 26, 2014
**Flat Connections: Welcome to Flat Connections - Learning
about the world, with the world**
http://www.flatconnections.com/

Global Collaboration Projects that Go Way Beyond Skype
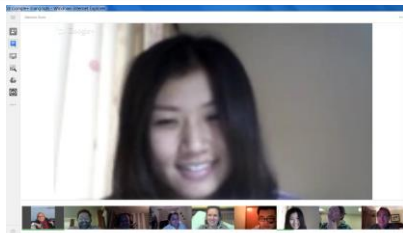
October 7, 2013
**6 collaborative writing applications for group
projects or papers, Casey Brown, Elon University**
http://blogs.elon.edu/technology/6-collaborative-writing-applications-for-group-projects-or-papers/
MeetingWords, Google Docs, NowComment, MixedInk
(http://www.mixedink.com/#/_how_it_works)

IX. Learning is More Social
October 24, 2014
**Facebook launches Rooms app for
anonymous sharing of interests,**
USA Today, Jessica Guynn
http://www.usatoday.com/story/tech/2014/10/23/facebook-rooms-josh-miller-branch-mobile-app-creative-labs/17769167/

X. Learning is More Adventurous
Aaron Doering, Chasing Seals, TEDx
http://chasingseals.com/

Speaking for Change and Humanity

XI. Learning is More Direct from Experts
February 2, 2015
Here Comes Professor Everybody: The 'sharing economy' meets higher education,
Chronicle of Higher Education, Jeffrey R. Young
http://chronicle.com/article/Here-Comes-Professor-Everybody/151445/?cid=at

Kevin deLaplante, an associate professor at Iowa State U., makes an average of $2,500 per month teaching from his home studio (above) on sites like Udemy.

January 22, 2015
Noodle, Google Helpouts, Gooru
When Can I Skip Taking the GRE or GMAT?
https://www.noodle.com/articles/when-can-i-skip-taking-the-gre-or-gmat
https://www.noodle.com/
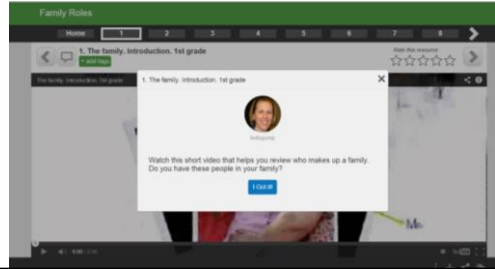
XII. Learning is More Synchronous
Dubai to Puerto Rico (Edgar Leon)
https://www.youtube.com/watch?v=Imxw0YwTh2Y&list=UUClhO-jnvl1pEXd9Skv-_Iw

XIII. Learning is More Digital
October 23, 2014
New Amazon Kindle is a Voyage into eReader luxury, USA Today, Edward C. Baig
http://www.usatoday.com/story/tech/columnist/baig/2014/10/23/amazon-kindle-voyage-is-voyage-into-ereader-luxury/17781255/

XIV. Learning is Resource Rich
January 28, 2015
Discovery Education Techbook
http://www.discoveryeducation.com/what-we-offer/techbook-digital-textbooks/index.cfm

XV. Learning is More Informal
October 13, 2013
A Dozen Ways To Promote Informal Learning
Chief Learning Officer, Saul Carliner
http://www.clomedia.com/articles/a-dozen-ways-to-promote-informal-learning

XVI. Learning is More Competency-Based
July 31, 2014
Hire Education: Mastery, Modularization, and the Workforce Revolution, Michelle R. Weise and Clayton M. Christensen, The Christensen Institute
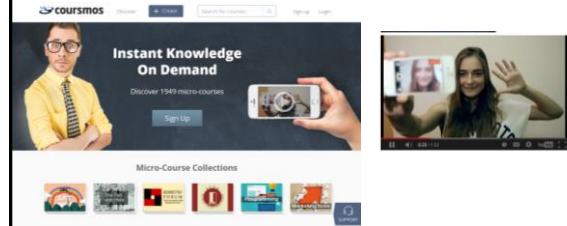http://www.christenseninstitute.org/publications/hire/

XVII. Learning is More On Demand
May 5, 2014
Mobile MOOCs: New platform challenges conventional MOOCs
eCampus News (https://coursmos.com/)
http://www.ecampusnews.com/top-news/new-platform-challenges-conventional-moocs/print/

XVIII. Learning is More Hands-On
February 2, 2015
Makey Makey and the Kano
http://makeymakey.com/
https://vimeo.com/60307041

XIX. 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/
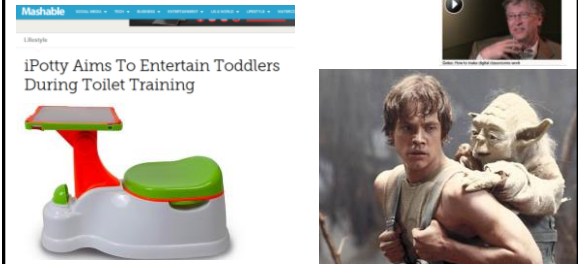
Learning is More Personal
Localization and Translation of Open Content
Coursera, Global Translator Community, Chronicle of Higher Education
https://www.coursera.org/about/translate
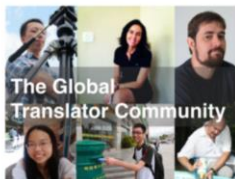
XX. Learning is More Communal
April 30, 2014
New Learning Hubs Locations Hosted by The New York Public Library and Seven Other Int'l Partners, Coursera Learning Hubs
https://www.coursera.org/about/programs/learningHubs
http://blog.coursera.org/post/84322385012/new-learning-hubs-locations-hosted-by-the-new-york
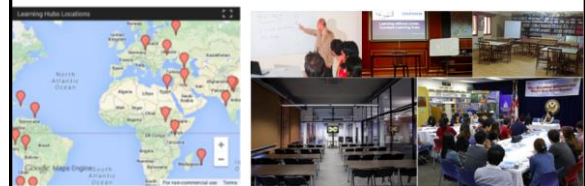
February 5, 2015
XXI. Learning is More Online
2014 Survey of Online Learning
Grade Level: Tracking Online Education in the United States,
2014, Online Learning Consortium (formerly Sloan-C), by I. Elaine Allen and Jeff Seaman
http://www.onlinelearningsurvey.com/reports/gradelevel.pdf
http://edition.cnn.com/videos/business/2015/03/11/wbt-yale-offers-online-degree-2u-ceo.cnn

January 23, 2015
Gates Newsletter
http://www.gatesnotes.com/2015-annual-letter?page=0&lang=en&WT.mc_id=01_21_2015_AL2015-BG_PFPL_Img1_Top_20

Learning is More Online
June 15, 2014
Starbucks offers workers 2 years of free college, CNN Money, Gregory Wallace
(from Arizona State online programs)
http://money.cnn.com/2014/06/15/news/economy/starbucks-schultz-education/index.html?hpt=hp_t2
http://www.nytimes.com/2014/06/16/us/starbucks-to-provide-free-college-education-to-thousands-of-workers.html

XII. 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

XIII. Learning is More Comfortable
Design for Students, with Students, "Hub Central", the $42 million University of Adelaide learning hub opened in October 2011, May 8, 2012, Mike Roberts
http://designbuildsource.com.au/design-for-students-with-students

XIV. Learning is More Ubiquitous
September 23, 2014
Elliott Masie's (i-Beacon; *Bluetooth low energy proximity sensing)*
http://www.learning2014.com/index.php/learning-trends-and-challenges-webinar.html

XV. Learning is More Instantaneous
April 9, 2013
HER Computer fashions face social test: Can wearable computers fit in? Scott Martin, USA Today
http://www.usatoday.com/story/tech/2013/04/06/google-apple-iwatch-glass-jawbone-iphone-nike-microsoft-samsung/1979419/
(i.e., magnify moles or injuries, see vital signs, live stream surgeries, access previous PT sessions, access research and drug info, etc.)
http://www.fiercemobilehealthcare.com/story/google-glasses-could-have-strong-potential-healthcare-use/2013-03-18

XVI. Learning is More Free
August 5, 2014
OpenStax Aims To Bring Free Digital Textbooks to High Schools, David Nagel, THE Journal
http://thejournal.com/articles/2014/08/05/openstax-aims-to-bring-free-digital-textbooks-to-high-schools.aspx

New mobile app helps a Cambridge press offer free digital monographs even to those without computers

Screen saviours: books can now be read on almost any mobile phone

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January 8, 2015
Obama Plan Would Help Many Go to Community College Free
JULIE HIRSCHFELD DAVIS and TAMAR LEWIN, The New York Times
http://www.nytimes.com/2015/01/09/us/politics/obama-proposes-free-community-college-education-for-some-students.html?_r=0

President Obama running onto the stage before delivering remarks at Central High School in Phoenix on Thursday. Credit Doug Mills/The New York Times

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Want something FREE?
Introducing the "TEC-VARIETY" book...
http://tec-variety.com/
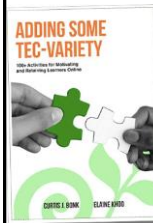
ADDING SOME TEC-VARIETY
100+ Activities for Motivating and Retaining Learners Online
CURTIS J. BONK   ELAINE KHOO

What motivates?
1. **Tone/Climate:** Psychological Safety, Comfort, Sense of Belonging
2. **Encouragement:** Feedback, Responsiveness, Praise, Supports
3. **Curiosity:** Surprise, Intrigue, Unknowns
4. **Variety:** Novelty, Fun, Fantasy
5. **Autonomy:** Choice, Control, Flexibility, Opportunities
6. **Relevance:** Meaningful, Authentic, Interesting
7. **Interactivity:** Collaborative, Team-Based, Community
8. **Engagement:** Effort, Involvement, Investment
9. **Tension:** Challenge, Dissonance, Controversy
10. **Yielding Products:** Goal Driven, Purposeful Vision, Ownership

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1. Tone/Climate: A. Threaded Video Discussions, e.g., Flipgrid
http://flipgrid.com/#429f88c5

Teachers ask   Students respond   Everyone shares

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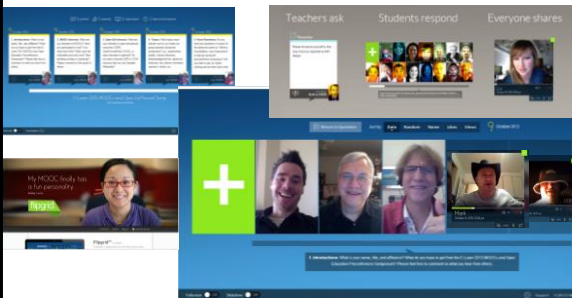
2. Encouragement, Feedback, etc.: A. Voice/Audio Feedback
Vocaroo: http://vocaroo.com/
http://vocaroo.com/i/s1vGImGXxw9y
(Recorded April 23, 2015 by Curt Bonk for Penn State)

Vocaroo - The premier voice recording service.   Or upload?

● Retry   ▶ Listen

Happy with this recording? Click here to save >>
© 2007-2013 Vocaroo | Help | Info | Widgets | @vocaroo

3. **C**uriosity, Fun:

A. Tracking the Life of a Computer Scientist (bio.com)

http://www.biography.com/people/steve-jobs-9354805
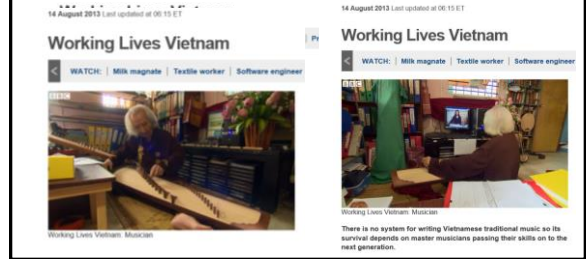http://www.biography.com/people/ada-lovelace-20825323
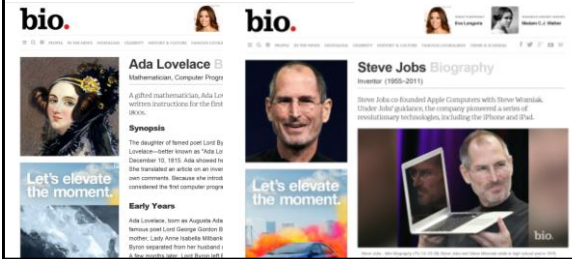
4. **V**ariety, Novelty, Fun:

A. Teach from Vietnam to the World

BBC News Asia, August 14, 2013

Even though he is now very elderly Vinh Bao (age 96) still teaches music, using his computer to coach pupils across the globe.

http://www.bbc.com/news/world-asia-23497559

5. **A**utonomy, Choice:

A. Design Article Database in Pinterest, Jenny Webeck

https://www.pinterest.com/jennifertwebeck/emerging-learning-technologies/

6. **R**elevance, Meaningfulness:

A. Guest Chats (e.g., Emily Hixon, January 20, 2015)

https://connect.iu.edu/p259wpiabg9/

January 27, 2015
7. **I**nteractive, Collaborative:

A. Backchannel Chat (TodaysMeet)

https://todaysmeet.com/

R678_Emerging_Learning_Technologies

https://todaysmeet.com/R678_Emerging_Learning_Technologies
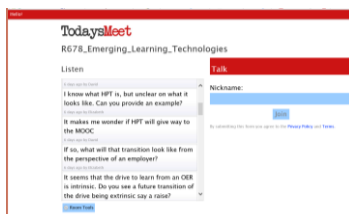
8. **E**ngagement, Effort:

A. Guest Speaker Quotes

(Rey Junco, February 25, 2013)
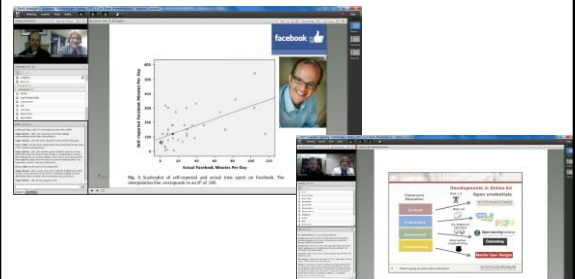
March 13, 2015
9. Tension, Challenge, etc.:
A. Controversial Issue Debates
R511 Midterm Video How to Create an Authentic Environment in a Content-Driven School?, R511, Nick and Nik
https://www.youtube.com/watch?v=Bcr3_aZT_xQ&feature=youtu.be

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10. Yields Products, Goals:
A. Student Created Mobile Apps

Videos: Watch selected videos from scholars and educators.

Benefits:
• Can easily watch YouTube videos without having to open a separate application

Limitations:
• Only accepts YouTube urls

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

COMMITMENT

Framework #2: The R2D2 Model

Read 1a. Collect and Listen to Interactive Stories
(e.g., Meograph: http://www.meograph.com/)

January 28, 2015
Read 1b. Twitter Fed Class Discussions
Live-Tweeting Assignments: To Use or Not to Use?
he Chronicle of Higher Education, Adeline Koh
http://chronicle.com/blogs/profhacker/live-tweeting-assignments-to-use-or-not-to-use/58949

Reflect 2a. Big Issue Reflections
(Big Questions Online (BQO)), Feb 3, 3015
(e.g., Is curiosity essential for human flourishing?)
https://www.bigquestionsonline.com/content/do-we-have-souls

Reflect 2b.
Interpreting Infographics
July 24, 2014
Woman in Computer Science
http://graduatedegrees.online.njit.edu/mscs-resources/mscs-infographics/women-in-computer-science/

Display 3a. Virtualize Words Used
(e.g., Wordle, Tagzedo, Tagul,
WordSift, Word It Out)
http://shellyterrell.com/2010/02/14/12-word-cloud-resources-tips-tools/

Display 3b. (April 28, 2015)
Concept Mapping and Timeline Tools
(Bubbl.us, Cmap, Gliffy, Spicynodes, or Mindomo)
http://www.spicynodes.org/index.html

Do 4a. Student Class Documentaries
Umida's R546 Documentary Project
http://www.youtube.com/watch?v=EMLTzgCV_5A
Troy Cockrum, R711, April 26, 2015
http://troy-cockrum.com/instructional-systems-technology/

Do 4b. Student Music Recording
April 26, 2015
IST Groove Song, Jeffrey Jenkins, R511
https://soundcloud.com/jeffjenkins25/ist-groove
The World is Open , Jill Kaufman, R678
https://www.youtube.com/watch?v=ZRGV0Mg5Vmw&feature=youtu.be

Poll #5: Which do you prefer...
(A) TEC-VARIETY or (B) R2D2?

ADDING SOME TEC-VARIETY

What motivates?
1. **Tone/Climate:** Psychological Safety, Comfort, Sense of Belonging
2. **Encouragement:** Feedback, Responsiveness, Praise, Supports
3. **Curiosity:** Surprise, Intrigue, Unknowns
4. **Variety:** Novelty, Fun, Fantasy
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9. **Tension:** Challenge, Dissonance, Controversy
10. **Yielding Products:** Goal Driven, Purposeful Vision, Ownership

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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

XXVII. Learning is More Self-Directed
February 2013
TED Talks
(Build a School in the Cloud; Self-Organized Learning Environments (SOLEs), TED Talk from Sugata Mitra
http://www.ted.com/talks/sugata_mitra_build_a_school_in_the_cloud.html

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XXVIII. Learning is More Global
August 1, 2014
Can You Really Teach a MOOC in a Refugee Camp?, Chronicle of Higher Education, Steve Kolowich
http://chronicle.com/blogs/wiredcampus/can-you-really-teach-a-mooc-in-a-refugee-camp/54191?cid=at&utm_source=at&utm_medium=en

Two men living in Dadaab, a refugee camp in Kenya, would watch lecture videos and take online quizzes at a nearby United Nations compound. (InZone)

XIX. Learning is More Open
(December 2, 2014)
Nature, Openwords, etc.
http://www.openwords.com/
https://www.facebook.com/Openwords
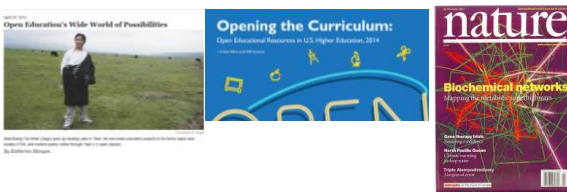
XXX. Learning is More Massive
Sample Course: Open Knowledge: Changing the Global Course of Learning
September 2, 2014 to December 12, 2014, Stanford
https://class.stanford.edu/courses/Education/OpenKnowledge/Fall2014/about#
Softcover ($30): http://www.parlorpress.com/invasion_of_the_moocs
Free (PDF): http://www.parlorpress.com/pdf/invasion_of_the_moocs.pdf

April 20, 2015
250 MOOCs and Counting: One Man's Educational Journey, Chronicle of Higher Education
http://chronicle.com/article/250-MOOCsCounting-One/229397/?cid=at
If the MOOC movement has faded, nobody told Jima Ngei. Mr. Ngei, who lives in Port Harcourt, Nigeria, has completed and passed 250.

Jima Ngei: "I had this unrelenting fear that this miracle of free access might evaporate soon."

Global Health Initiatives
October 7, 2014
Online Mooc courses deliver Ebola health advice, BBC News, Sean Coughlan
http://www.bbc.com/news/education-29521360
http://www.advancelearning.com/why-wait-for-others-to-fight-ebola

WHY WAIT FOR OTHERS TO FIGHT EBOLA?
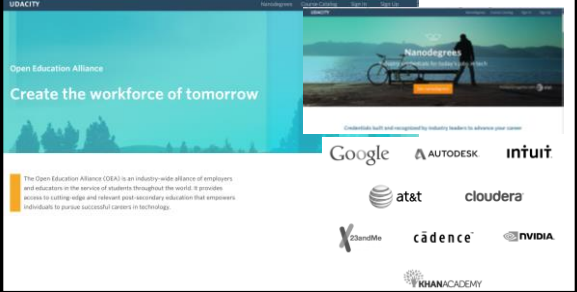
Disinfecting a room in Monrovia, Liberia: Online courses are providing health advice to fight Ebola.
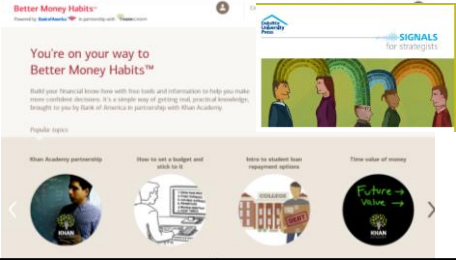
Building Talent Pipeline
Master's Degree Is New Frontier of Study Online, August 17, 2013, The New York Times
By Tamar Lewin
http://chronicle.com/article/MOOCs-May-Not-Be-So-Disruptive/140965/
http://extensionengine.com/putting-moocs-to-work-recap-infographic/#.VExR4o3wtjs

Master's Degree Is New Frontier of Study Online

7 WAYS THAT CORPORATIONS ARE USING MOOCS

Nanodegrees (e.g., Web design, coding, etc.)
(Open Education Alliance)

Better Money Habits
(personal finance, money habits, financial literacy)
(Bank of America and the Khan Academy)
The MOOC Marketplace Takes Off, Forbes, November 30, 2013, Josh Bersin
http://www.forbes.com/sites/joshbersin/2013/11/30/the-mooc-marketplace-takes-off/

Things are heating up!
http://routledge-ny.com/books/details/9781138807419/

MOOCs and Open Education Around the Word
By Bonk, Lee, Reeves, & Reynolds
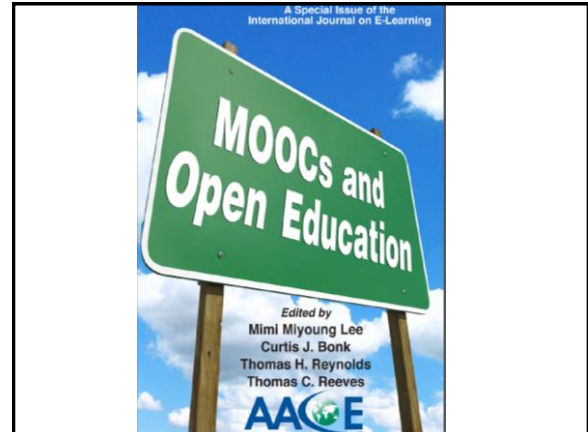
15

MOOCs and Open Education Around the World

http://routledge-ny.com/books/details/9781138807419/

Let's Review:
Learning is Changing...
(i.e., it's more informal, video-based, ubiquitous, collaborative, self-directed, global, mobile, open, massive, etc.)

Frank Basile, an aircraft technician, took an MITx course on circuits and electronics to increase his knowledge.

Joe Alfonso, a financial adviser from Oregon, is taking the online finance course as a "refresher."

Framework: 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**eal-Time Mobility and Portability (e.g., iPhone)
- **N**etworks of Personalized Learning (Blogs, RSS)

The World is very open!
(in Ho Chi Minh City, Vietnam, Wednesday March 12th)

Audience Participation!

WE
ALL
LEARN!!!

The Web of Learning
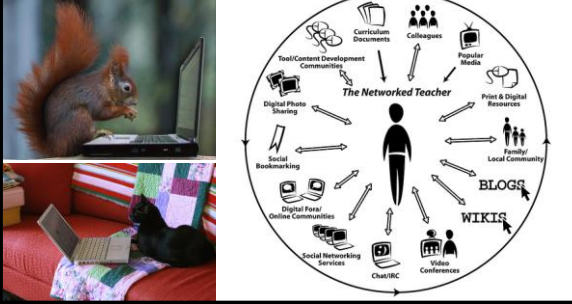
We are entering a jumping off point…
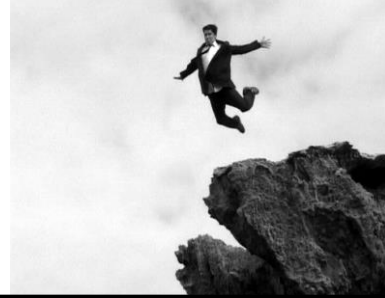
Audience Poll #6:
Are we going crazy yet?

20 More Technologies of Today…

On September 23, 2014 Elliott Masie hosted a webinar discussing Leaning Trends and Challenges in 2014. Below is the video from this dialogue.
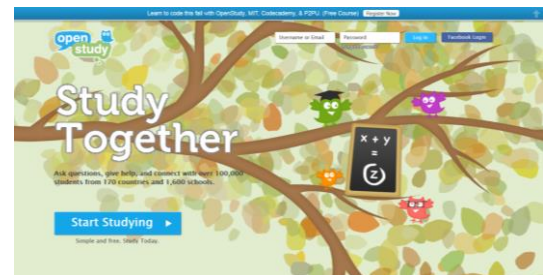

Tech #31. Free Content Portals
MERLOT II: Multimedia Educational Resource for Learning and Online Teaching
http://www.merlot.org/merlot/index.htm?action=find

Tech #32. Online Study Groups
(e.g., Open Study: http://openstudy.com/)

Tech #33. Online Language Learning
May 5, 2014
Technology Provides Foreign-Language Immersion at a Distance,
Danya Perez-Hernandez, Chronicle of Higher Education,
http://chronicle.com/article/Technology-Provides/146369/?cid=at&utm_source=at&utm_medium=en

Portuguese-language students at Virginia Commonwealth U. hold a "teletandem" session with students in Brazil who are learning English. The approach "basically forces you to learn," says one student. "It pushes you to practice the language to make sure you are ready for the next meeting."

October 24, 2014
Raw: Facebook CEO dazzles with Mandarin, USA Today
http://www.usatoday.com/videos/tech/2014/10/23/17766019/

Tech #34.
Mobile Apps for the other training and resources

Tech #35. Social Books
(e.g., Subtext; http://subtext.com/**)**
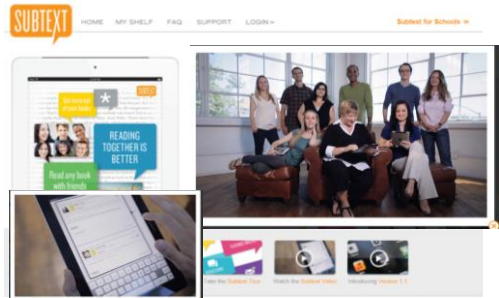
Tech #36.
Web Conferencing
(Adobe Connect, Jabber, iMeet, GoToMeeting, etc.)
https://connect.iu.edu/p259wpiabg9/
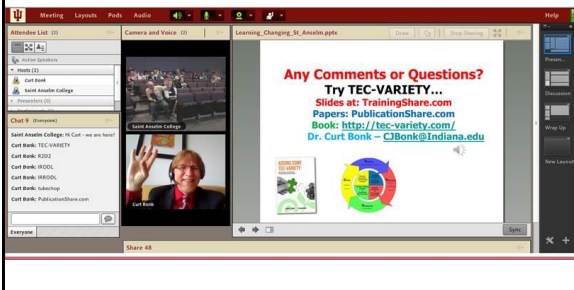
Tech #37.
Videoconferencing and Telepresence Technology
(e.g., Revolve, Kubi)
https://revolverobotics.com/
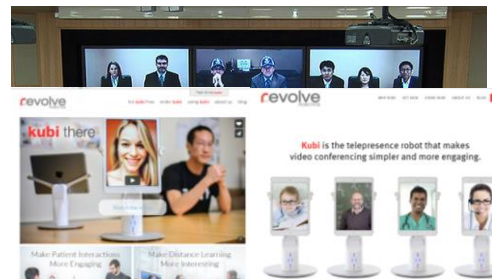
Tech #38.
Goals Setting Tools
(e.g., I Done This, Milestone Planner, and 43 Things)

Tech #39. Shared Online Video Tests and Quizzes (e.g., TED-Ed)
http://education.ted.com/

Tech #40.
Video Editing and Commenting Tools
(e.g., TubeChop)

Tech #41.
Screencasts and Tutorials
(Jing, GoView, Screenr)

Tech #42. Online Testing
(Quizlet; http://quizlet.com/)

Tech #43.
Big Data Visualization Tools
(Harvardx and MITx)
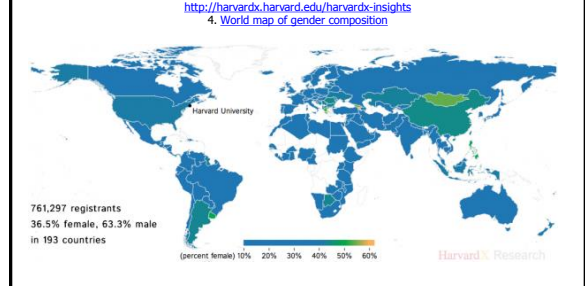
Tech #44. Wikis and Collaborative Technology (negotiate meanings)
(PiratePad, MeetingWords, PBWorks, Wikispaces)

Tech #45.
Crowdsourced Website Donations
(e.g., Scholar Match, Zero Bound, Pave, GoFundMe; http://www.gofundme.com/

Tech #46. Collection Tools
Design Article Database in Pinterest, Jenny Webeck
https://www.pinterest.com/jennifertwebeck/emerging-learning-technologies/

Tech #47. Backchannel Chat
(TodaysMeet)
https://todaysmeet.com/
R678_Emerging_Learning_Technologies
https://todaysmeet.com/R678_Emerging_Learning_Technologies

Tech #48.
Virtual or Augmented Reality Training
(Web-based Land Navigation Trainer Tutorial)
http://www.youtube.com/watch?v=8-WY9nazoGU
See article: http://www.defensenews.com/article/20130619/TSJ/306190025/Land-Nav-Masses

Tech #49. Interactive News and
Science Globes, January 7, 2013, Digital
Globes Offer a Dynamic Vision, NY Times, Mark Vanhoenacker
http://www.nytimes.com/2013/01/08/science/digital-globes-a-new-way-to-view-the-world.html?nl=todaysheadlines&emc=edit_th_20130108&_r=0

Tech #50.
Mobile Health (bio sensors)
7 new smartphone features that will help define your future
February 23, 2014, Stewart Wolpin, CNN
http://www.cnn.com/2014/02/23/business/future-smartphone-mobile-world-congress/index.html?hpt=hp_t3

7 new smartphone features that will help define your future

Tech that will change your life

Bonus: September 16, 2014
Panipat Teen Develops Device to Convert Breath Into Words, NDTV
http://www.ndtv.com/article/offbeat/panipat-teen-develops-device-to-convert-breath-into-words-591199?site=classic

Place the sensor under the nose or mouth as per your convenience.	Make short exhales (sniffs) to send Dots as in the Morse Code.	Make little longer exhales to send Dashes as in the Morse Code.
Wait for a beep from Earclip after completion of word.	Repeat the same steps for other words, phrases and sentences.	Let TALK do its magic and speak out your expression.

How do you now view the instructor in this more Open World?

Poll #7:
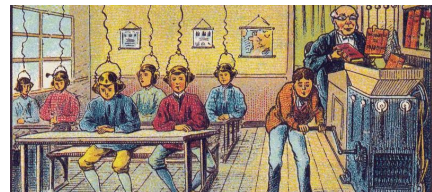# Instructor as Course Ambassador?

Poll #8:
Instructor as Curator?

October 21, 2014
Teaching and the University of Tomorrow.
Chronicle of Higher Education, Kelly J. Baker
https://chroniclevitae.com/news/768-teaching-and-the-university-of-tomorrow?cid=at&utm_source=at&utm_medium=en

Image: *France in 2000 year (XXI century). Future school. From a postcard by Villemard, 1910.*

Poll #9: How many ideas did you get from this talk?

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.
7. More than 10.

Poll #10: Any Questions?

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