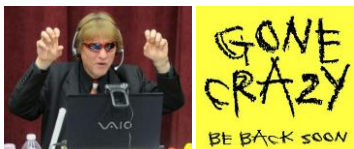


Living in Tech City: 50+ Technology Trends and Innovations Transforming Workplace Learning, Education, and Our Lives

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



Audience Poll #1:

Has learning technology has ever transformed your life?



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



September 15, 2014

Open, Distance and Online Learning: A Brief History, Sir John Daniel

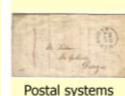
International Conference on Emerging Technologies in Education and Computer Science, Universidad Da Vinci, Cancun, Mexico

<http://vimeo.com/106602761> (password know)

Notes and Slides: http://sirjohn.ca/wordpress/?page_id=29



Lord Geoffrey Crowther
Inauguration of the Open University
1969



Postal systems



Correspondence course – 1841

Looking to the Past...



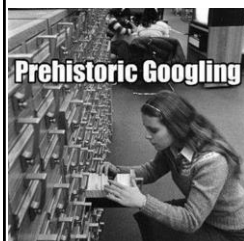
Fall 2014, On Wisconsin MOOC, Meet MORC (Massive Open Radio Course)

WHA, UW Madison, College of the Air, 1933,
Vocational Training dedicated to Agriculture,
and later Home Economics and Typing



MOOC, Meet MORC

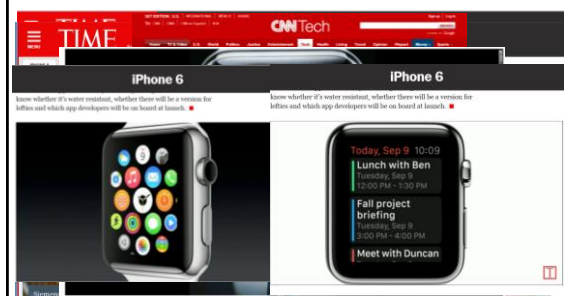
Part I. Learning is Changing New Technologies = New Delivery Methods...



I. Learning is More Technology-Based



September 9, 2014 I. Learning is More Technology-Based



II. Learning is More Mobile August 5, 2014

Timex enters smartwatch category. No phone needed, Edward C. Baig, USA Today,

<http://www.usatoday.com/story/tech/columnist/2014/08/05/timex-smartwatch-category-no-phone-needed/1289723/>



Audience Poll #2:

I. Who remembers what they were
doing on 911?

II. Who remembers what they were
doing on April 4, 2001?



Charles Vest (April 4, 2001)

<http://web.mit.edu/newsoffice/2001/ocw.html>

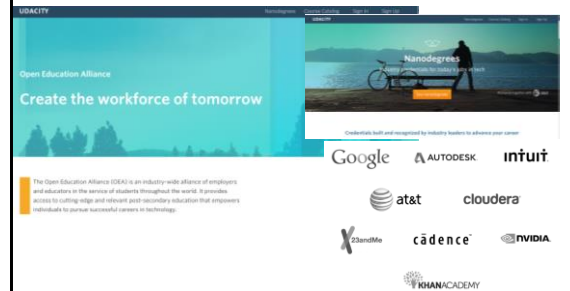
"This is about something bigger than MIT. I hope other universities will see us as educational leaders in this arena, and we very much hope that OpenCourseWare will draw other universities to do the same. We would be delighted if -- over time -- we have a world wide web of knowledge that raises the quality of learning -- and ultimately, the quality of life -- around the globe."



III. Learning is More Open (80-Year-Old WGU Texas Grad Keeps His Promise, November 30, 2012, Reeve Hamilton, Texas Tribune)



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



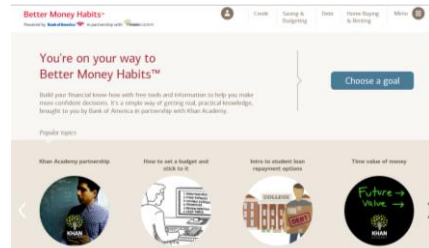
Aquent Gymnasium (e.g., Web design, Coding, JavaScript, etc.)

A staffing agency for the marketing and creative industries, a MOOC provider that offers technology courses for creative professionals.
<http://gymnasium.aquent.com/>



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/>



openSAP MOOC platform to educate its ecosystem of developers and partners on SAP technologies <https://open.sap.com/>



IV. 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>



V. Learning is More Flipped August 1, 2014

Get schools out of the 1890s, Newt Gingrich, CNN

http://www.cnn.com/2014/08/01/opinion/gingrich-schools-blended-teaching-technology/index.html?hpt=hp_13



Onboarding New Employees

(Employee Blended Orientation, Flipping the Classroom—give access to course materials)

Putting MOOCs to Work Recap

September 8, 2014, Chris Hilger, Extension Engine

<https://www.udemy.com/organizations/blog/2013/12/23/seven-ways-to-corporate-mooc/>

7 WAYS THAT
CORPORATIONS ARE
USING MOOCs

2 ONBOARDING EMPLOYEES.
McAfee



VI. Learning is More Video-Based October 15, 2014

Videos: Performance Management

How Disney Develops Culture, Chief Learning Officer
Doug Lipp, former Disney University leader and author of "Disney U," discusses how Disney teaches employees to do their jobs and exude the company's culture.
<http://www.cnn.com/media/videos/play/135>



VII. 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>



Video Walls of Experts (IQ Wall)



October 6, 2014

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

<http://campustechology.com/articles/2014/10/06/stanford-u-display-wall-takes-visualization-to-a-higher-level.aspx>



VIII. 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>



IX. Learning is More Gesture-Based September 12, 2014

Intel Says Laptops and Tablets with 3-D Vision Are Coming Soon, Your next laptop or tablet may have 3-D sensors that let it recognize gestures or augment a real scene with virtual characters.

Tom Simonite, MIT Technology Review
http://www.technologyreview.com/futureoflearning/531751/the-quest-for-pull-more-reality-into-virtual-reality/?utm_campaign=crowdfunder&utm_source=newsletter&utm_medium=email&utm_content=C53141022



X. Learning is More Competency-Based July 31, 2014

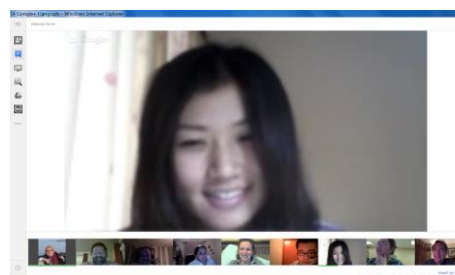
Hire Education: Mastery, Modularization, and the Workforce Revolution, Michelle R. Weise and Clayton M. Christensen, The Christensen Institute
<http://www.christenseninstitute.org/publications/hire/>



College, on Your Own: Competency-based education can help motivated students. But critics say it's no panacea
Dan Berrett, The Chronicle of Higher Ed, July 14, 2014
<http://chronicle.com/article/College-On-Your-Own/147659/tides-at>



XI. Learning also is More Collaborative May 16, 2014



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))

<http://www.learning2014.com/index.php/learning-trends-and-challenges-webinar.html>

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



XV. Learning is More Instantaneous April 9, 2013

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

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

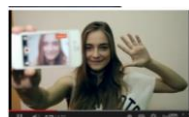
<http://www.fiercehealthcare.com/story/google-glasses-could-have-strong-potential-healthcare-use/2013-03-18>



XVI. 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>



XVII. 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/>



iPotty Aims To Entertain Toddlers During Toilet Training

Learning is More Personal 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>



OpenStax Aims To Bring Free Digital Textbooks to High Schools

By David Nagel | 08/05/14



XVIII. 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/new-amazon-kindle-voyage-is-voyage-into-e-reader-luxury/1782316/>



XIX. 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)

June 16, 2014

Metra Mehran is a college student in Political Science and Public Administration in Afghanistan.

Afghanistan Student Keynote, by Elliott Masie
Learning 2014, October 26-29, 2014

<http://www.learning2014.com/blog/item/afghanistan-student>



January 16, 2014

Brazil's Home-Grown MOOC, Holly Else for
the Times Higher Education, Inside HE

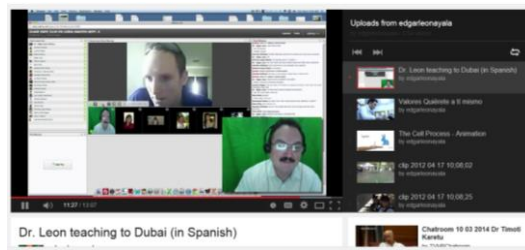
<http://www.timeshighereducation.co.uk/news/brazil/home-grown-mooc-veduca-bra-high/20140406/article>



Home-grown experts: importing talent 'doesn't make sense', argues Veduca chief

XX. Learning is More Synchronous Dubai to Puerto Rico (Edgar Leon)

<https://www.youtube.com/watch?v=3mxw0YwTh2Y&list=UUCb0-Joy13EXd98Kv-1w>



XXI. Learning is More Online January 10, 2014

The New-School Virtual Leader
Chief Learning Officer, Sharat Sharan

Hotel chain Marriott created a leadership program with a goal to provide training to 733 hotels in 23 countries.

Certified 5,000 managers trained; and 10,000 more given big picture training
<http://www.clomedia.com/articles/the-new-school-virtual-leader>



January 2014 Learning is More Online

Grade Change: Tracking Online Education in the
United States, 2013, The Sloan Consortium, I. Elaine Allen & Jeff Seaman,

2013 Survey of Online Learning Report and 2014 data from Indiana University

<http://sloanconsortium.org/publications/survey/grade-change-2013>
Direct connect: <http://www.onlinelearningurvey.com/reports/gradechange.pdf>



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/2014/06/15/us/starbucks-to-provide-free-college-education-to-thousands-of-workers.html>

Starbucks offers workers 2 years of free college

By Gregory Wallace @gregwallace June 15, 2014 9:13 PM ET



Getting a College Degree, With Help From Starbucks



XXII. 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

TED Ideas worth spreading

TALKS Sugata Mitra: Build a School in the Cloud



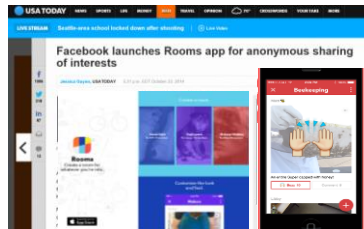
TED Ideas worth spreading

TALKS Sugata Mitra: Build a School in the Cloud



XXIII. 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-launches-rooms-app-anonymous-sharing/17769167/>



XXIV. Learning is More Communal April 30, 2014

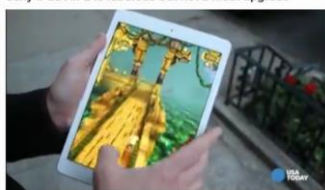
New Learning Hubs Locations Hosted by The New York Public Library and Seven Other Int'l Partners, Coursera Learning Hubs
<https://www.coursera.org/about/programs/learningHubs>
<http://blog.coursera.org/post/94322385012/new-learning-hubs-locations-hosted-by-the-new-york>



XXV. 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/columnists/baig/2014/10/21/ipad-air-2-scholar-tablet-is-not-must-upgrade/1762825/>

Sexy iPad Air 2 is fabulous but not a must upgrade



Simulation Games



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>



XXIX. 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/about2>
Softcover (\$30): http://www.parlorpress.com/invasion_of_the_moocs
Free (PDF): http://www.parlorpress.com/pdf/invasion_of_the_moocs.pdf

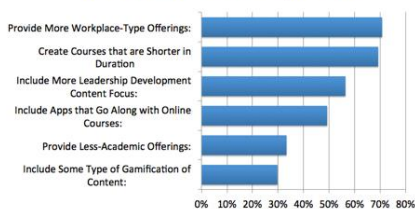


August 13, 2013

How MOOCs Will Revolutionize Corporate Learning And Development, Forbes, Jeanne Meister

<http://www.forbes.com/sites/jeannemeister/2013/08/13/how-moocs-will-revolutionize-corporate-learning-development/>

To Gain Greater Traction In Corporate Learning MOOCs Should Be Adapted To



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>



Disinfecting a room in Monrovia, Liberia: Online courses are providing health advice to fight Ebola.

Channel/Customer Education

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/>

Online retailer 1-800-Flowers and Udemy offer their florists hand-picked courses on everything from operations efficiency, optimizing sales, social media and entrepreneurship, to floral design, finance, and customer service.



Career Development

August 13, 2013

How MOOCs Will Revolutionize Corporate Learning And Development, Forbes, Jeanne Meister

<http://www.forbes.com/sites/jeannemeister/2013/08/13/how-moocs-will-revolutionize-corporate-learning-development/>

coursera | Blog

Yahoo! sponsors employees to earn Verified Certificates on Coursera



We're excited to announce that Yahoo! is enabling its employees to earn Verified Certificates by sponsoring participation in Signature Track on Coursera.



Employee to Employee Training G2g (Googler to Googler) Training

Seven Ways to Corporate MOOC, UdemY blog,
December 23, 2013, Shannon Hughes

<https://www.udemy.com/organizations/blog/2013/12/23/seven-ways-to-corporate-mooc/>

Classes range from management and public speaking, to parenting and mountain climbing.

HERE'S A GOOGLE PERK ANY COMPANY CAN IMITATE:
EMPLOYEE-TO-EMPLOYEE LEARNING

Google's training programs have always been a key part of its success. But now, the company is taking it a step further by offering a new type of training: employee-to-employee learning. This is a program where employees can teach each other on the job. It's a great way to share knowledge and skills, and it's also a great way to build a strong culture of learning.

BY SHANNON HUGHES



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-escape-infographic/#_VEXR4o3wtjs

Master's Degree Is New Frontier of Study Online



For Jack, the dean of the College of Computing at the Georgia Institute of Technology, the online space offers a master's degree in computer science through massive open online courses, or MOOCs.

By Tamar Lewin
Published: August 17, 2013 214 Comments

BUILDING TALENT PIPELINES.

7 WAYS THAT
CORPORATIONS ARE
USING MOOCS

October 26, 2014

Entrepreneurship Curriculum

NovoEd, Amin Saber

<https://novoad.com/courses/entrepreneurship>



Things are heating up!

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



MOOCs and Open
Education Around
the World

By Bonk, Lee, Reeves, & Reynolds

MOOCs and Open Education Around the World

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



MOOCs and
Open Education
AROUND THE WORLD



EDITED BY
CURTIS J. BONK, HIMI M. LEE,
THOMAS C. REEVES,
& THOMAS H. REYNOLDS

XXX. Learning is More Web-Based

April 15, 2013

World will soon be "Webified"
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_t3

Google boss: Entire world will be online
by 2020



September 2013

Google Wi-Fi from the Sky,

Steven Levy, pp. 126-131, Wired

<http://www.wired.com/gadgetlab/2013/08/googlex-project-loon/>



Google X chief Astro Teller (left) and Project Loon's first leader, Rich DeVaul, holding the system's ground-based antennas.

March 30, 2014

All Things Drones, CNN

Facebook unveils technology to bring the internet to everyone. CNN's Ralitsa Vassileva reports.)

<http://www.cnn.com/video/2014/03/30/facebook-technology-technology.shtml>



Let's Review:

Learning is Changing...

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

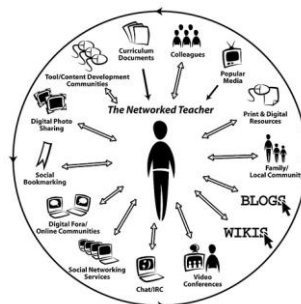


Frank Basile, an aircraft technician, took an MITx course on circuits and electronics to increase his knowledge.

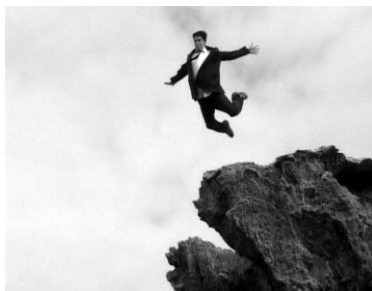


Joe Alfonso, a financial adviser from Oregon, is taking the online finance course as a "refresher."

The Web of Learning



We are entering a jumping off point...



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

- **W**eb Searching in the World of e-Books (i.e., Darwin)
- **E**-Learning and Blended Learning
- **A**vailability of Open Source and Free Software (e.g., Moodle)
- **L**everaged Resources and OpenCourseWare (e.g., MIT)
- **L**earning Object Repositories and Portals (i.e., shared content)
- **L**earner Participation in Open Info Communities (YouTube)
- **E**lectronic Collaboration and Interaction (sync and async)
- **A**lternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- **R**ead-Time Mobility and Portability (e.g., iPhone)
- **N**etworks of Personalized Learning (Blogs, RSS)



Audience Participation!

WE

ALL

LEARN!!!



Audience Poll #3: Are we going crazy yet? Any questions?



20 More Technologies of Today...



September 23, 2014

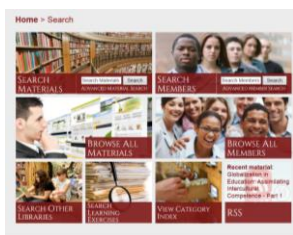
Elliott Masie's Learning 2014 (Drones?)

(no-charge, one hour briefing addressing: Personalization, Compliance, Video in Learning, LearningTech, Wearable, Social Learning, Gamification, 50 Plus and Big Learning Data.)
<http://www.learning2014.com/index.php/learning-trends-and-challenges-webinar.html>

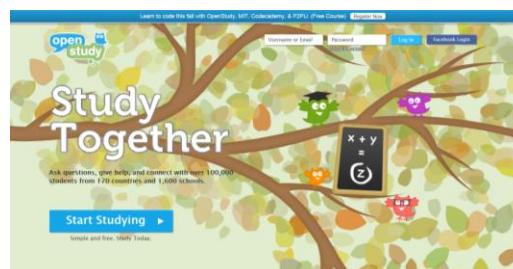
On September 23, 2014 Elliott Masie hosted a webinar discussing Learning Trends and Challenges in 2014. Below is the video from this dialogue.



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/146369/7cid=at&utm_source=at&utm_medium=en

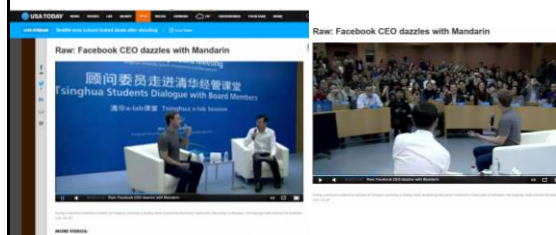


Portuguese-language students at Virginia Commonwealth U. hold a "teletandem" session with students in Brazil who are learning English. The approach "basically forces you to learn," says one student. "It pushes you to practice the language to make sure you are ready for the next meeting."

October 24, 2014

Raw: Facebook CEO dazzles with Mandarin, USA Today

<http://www.usatoday.com/videos/tech/2014/10/23/17766019/>



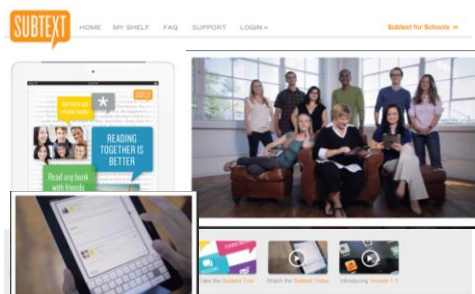
Tech #34.

Mobile Apps for the other training and resources



Tech #35. Social Books

(e.g., Subtext; <http://subtext.com/>)



Tech #36.

Web Conferencing (e.g., Jabber, iMeet)

December 2013



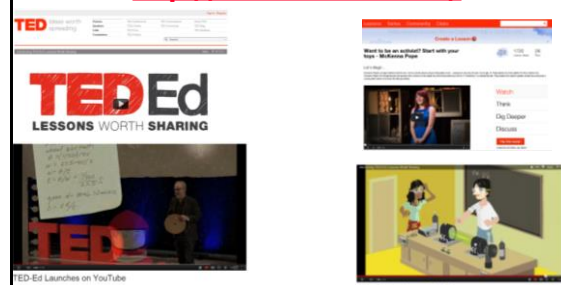
Tech #37.

Videoconferencing and Telepresence Technology

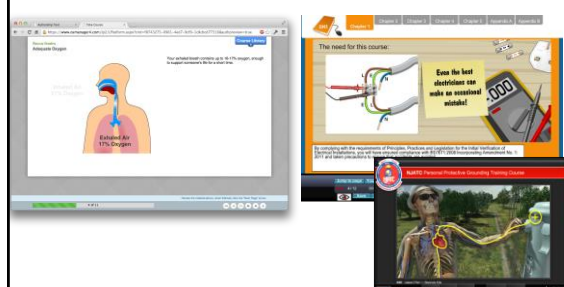


Tech #38.**Goals Setting Tools**
(e.g., I Done This, Milestone Planner, and 43 Things)


43Things is the world's largest goal-setting community. People here want to: work less hard, live less stressed, have fun, get more good habits every week. Design your own future. Be...

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


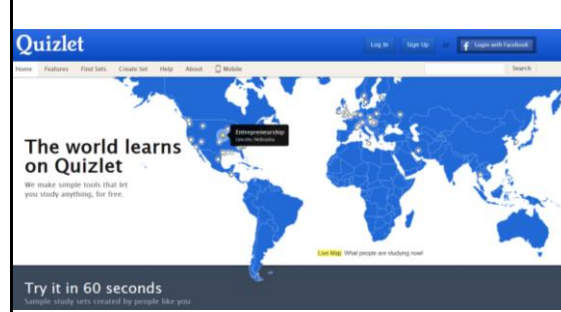
TED-Ed Launches on YouTube

Tech #40.**Concept Animations**

Tech #41.**Video Editing and Commenting Tools**
(e.g., TubeChop)


How TubeChop Works

Tech #42.**Screencasts and Tutorials**
(Jing, GoView, Screnr)


Create Screencasts!

Tech #43. Online Testing
(Quizlet; <http://quizlet.com/>)


The world learns on Quizlet

Tech #46.

Crowdsourced Website Donations

(e.g., Scholar Match, Zero Bound, Pave, GoFundMe; <http://www.gofundme.com/>)

Tech #47. Conversational Robots

Cornell U. Researchers Put Robots in Conversation, and the Result Is Surprisingly Human,
Chronicle of Higher Education, April 17, 2014, Steve Kolowich
<http://chronicle.com/blogs/edtech/cornell-u-researchers-put-robots-in-conversation-and-the-result-is-surprisingly-human/24725>



AI vs. AI2. Two chatbots talking to each other

You were mistaken. Which is odd, since

0:00 / 1:24

Tech #48.

Virtual or Augmented Reality Training

(Web-based Land Navigation Trainer Tutorial)

See article: <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-view-as-view-as-view-the-world.html?r=0&hpid=today%20headline&src=ref_rh_20130108_ref

Digital Globes Offer a Dynamic Vision




EDUCATION. The six-foot-wide "Science on a Sphere" was created by NOAA as a tool to teach earth sciences to diverse audiences around the world.

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_13

7 new smartphone features that will help define your future
By Stewart Wolpin, February 23, 2014
Updated 12:40 PM EST Sun February 23, 2014



7 new smartphone features that will help define your future
By Stewart Wolpin, February 23, 2014
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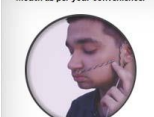


Bonus: September 16, 2014

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.



Wait for a beep from Earclip after completion of word.



Make short exhales (sniffs) to send Dots as in the Morse Code.



Repeat the same steps for other words, phrases and sentences.



Make little longer exhales to send Dashes as in the Morse Code.



Let TALK do its magic and speak out your expression.



May 16, 2014

Defining the Gen Y Leader Chief Learning Officer, Frank Kalman

<http://www.dcmmedia.com/articles/53952-defining-the-gen-y-leader>



Charles Wedemeyer Quote:

"It should be immaterial whether one has learned at the front door or the back door of the Palace of Learning. **What one has learned**—not where, or how, in what sequence, at what institution, or in what period of time—is the only criterion of supreme importance."
(Charles Wedemeyer, 1981, p. 216)



December 13, 2013

Former MIT president Charles M. Vest dies at 72 As the Institute's leader from 1990 to 2004, he sparked a period of dynamism.

Steve Braddt, MIT News Office

<http://web.mit.edu/newsoffice/2013/former-mit-president-charles-m-vest-dies-at-72-1213.html>



Any Questions?



Slides at: TrainingShare.com

Papers: PublicationShare.com

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

Email: curt@worldisopen.com

