

**Learning is Changing Part 1:  
Education 3.0:  
My, Our Learning World is Changing!**


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**(Circa Confucius 551–479 BCE)**




**Academos  
Plato Circa 428–347 BCE**

**Poll #1:  
Are you interested in  
Education 3.0?**

**A = Yes  
B = No  
C = Not sure**



**March 2015  
America's Skills Challenge:  
Millennials and the Future**

Madeline Goodman, Anita Sands, and Richard Coley, ETS  
<http://www.ets.org/s/research/30079/index.html>

**AMERICA'S SKILLS CHALLENGE:  
MILLENNIALS AND THE FUTURE**

BY MADELINE J. GOODMAN, ANITA M. SANDS, RICHARD J. COLEY,  
EDUCATIONAL TESTING SERVICE

OVERVIEW

## Education 3.0

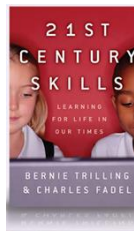
**The Genesis and Emergence of Education 3.0 in Higher Education and its Potential for Africa, First Monday, by Derek Keats and J. Philipp Schmidt, March 2007**  
<http://firstmonday.org/ojs/index.php/fm/article/view/1625/1540>

### EDUCATION 3.0

Characteristics	Education 1.0	Education 2.0	Education 3.0
Primary role of professor	Source of knowledge	Guide and source of knowledge	Orchestrator of collaborative knowledge creation
Content arrangements	Traditional copyright materials	Copyright and free/open educational resources for students within discipline, sometimes across institutions	Free/open educational resources created and reused by students across multiple institutions, disciplines, nations, supplemented by original materials created for them
Learning activities	Traditional, essays, assignments, tests, some groupwork within classroom	Traditional assignment approaches transferred to more open technologies; increasing collaboration in learning activities; still largely confined to institutional and classroom boundaries	Open, flexible learning activities that focus on creating room for student creativity; social networking outside traditional boundaries of discipline, institution, nation

## What skills do we need in the 21<sup>st</sup> Century?

**Bernie Trilling, 21st Century Skills: Learning for Life in Our Times (2006, Toward Learning Societies)**  
<http://21stcenturyskillsbook.com/>  
<http://toped.svefouadation.org/2011/08/05/the-digital-natives-are-coming/>



The Seven Cs – 21 <sup>st</sup> Century Lifelong Skills	
<b>Seven Cs</b>	<b>Component Skills</b>
<b>Critical Thinking-and-Doing</b>	Problem-solving, Research, Analysis, Project Management, etc.
<b>Creativity</b>	New Knowledge Creation, "Start-Up" Design Solutions, Artful Storytelling, etc.
<b>Collaboration</b>	Cooperation, Cooperation, Communities, Community-building, etc.
<b>Cross-cultural Understanding</b>	Across Diverse Ethnics, Knowledge and Organizational Cultures
<b>Communication</b>	Crafting Messages and Using Media Effectively
<b>Computing / ICT Literacy</b>	Effective Use of Electronic Information and Knowledge Tools
<b>Career &amp; Learning Self-reliance</b>	Managing Change, Lifelong Learning and Career Readiness

## Poll#2: Read any good books lately? Ten Books About Education 3.0

### EDUCATION 3.0



## 1. Drive: The Surprising Truth About What Motivates Us

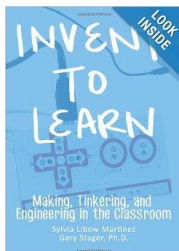
Daniel Pink (2009)

### Motivation 3.0



## 2. Invent to Learn: Making, Tinkering, and Engineering in the Classroom

Sylvia Libow Martinez & Gary Stager (2013)  
<http://www.inventtolearn.com/>



## 3. Finding Your Element: How to Discover Your Talents and Passions and Transform Your Life

Sir Ken Robinson and Lou Aronica (2013)  
<http://www.inventtolearn.com/>



## Finding Your Element:

How to Discover Your Talents and Passions and Transform Your Life

By Lou Aronica and Ken Robinson (2013)

<http://www.inventtolearn.com/>

- Find your zone (deep in the throes of exploration and personal passion)
- Think differently (make fresh connections and analogies; avoid groupthink)
- Do something, develop your creative ideas
- Use your imagination, play with ideas
- Free and open exchange of ideas
- Encourage expression of personal ideas/feelings

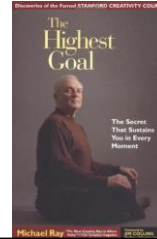


## 4. The Highest Goal:

The Secret That Sustains You in Every Moment

Michael Ray (2004)

<http://creatinginnovators.com/>



## The Highest Goal:

The Secret That Sustains You in Every Moment

Michael Ray (2004)

<http://creatinginnovators.com/>

- Find real meaning
- Become a generative leader
- What makes you feel connected, motivated, sustained
- Travel your own path
- Go beyond passion and success
- Relate from your heart
- Turn fears into breakthroughs



## 5. Creating Innovators: The Making of Young People Who Will Change the World

Tony Wagner (2012)

<http://creatinginnovators.com/>



## Creating Innovators

Tony Wagner (2012)

<http://creatinginnovators.com/>

- Play
- Passion
- Purpose and life goals
- Open cultures of innovation and interdisciplinary problem solving
- Collaboration
- Intrinsic motivation



## 6. Mindset:

The New Psychology of Success

Carol Dweck (2006)

<http://mindsetonline.com/index.html>

<http://mindsetonline.com/testyourmindset/step1.php>



## Mindset:

The New Psychology of Success  
Carol Dweck (2006)

- Growth vs. fixed (i.e., entity) theories of intelligence
- Intelligence is not fixed
- Practice, practice, practice
- Do not blame others
- Learning goals over performance goals
- Asks: What can I learn from this?
- Asks: How can I improve?



## 7. Creativity, Inc.

Ed Catmull, President of Pixar Animation and Disney Animation

<http://www.creativityincbook.com/>



## 8. Reinventing Schools: It's Time to Break the Mold.

Charles M. Reigeluth & Jennifer R. Karnopp. (2013).  
NY: Rowman and Littlefield

<http://reigeluth.wix.com/paradigmchange>

Paradigm Change | Education 3.0



The purpose of this website is to offer information and insights about why paradigm change is the only way to appropriately measure student learning in schools.

The page objectives:

1. The nature of the current state of our education system (public and private) from one level through the grade.
2. The evidence to support that evidence.
3. The evidence to the contrary.

How does one provide an online page, but this is the best place to start.

What is the best evidence to the contrary to the paradigm change?

## 9. Big Magic:

Creative Living Beyond Fear (2015)

Elizabeth Gilbert

<http://www.elizabethgilbert.com/>

[https://www.ted.com/talks/elizabeth\\_gilbert\\_success\\_failure\\_and\\_the\\_drive\\_to\\_keep\\_creating?language=en](https://www.ted.com/talks/elizabeth_gilbert_success_failure_and_the_drive_to_keep_creating?language=en)

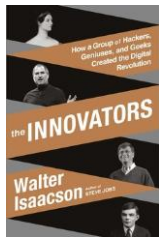
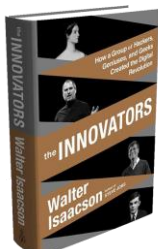


## 10. The Innovators:

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/9781476798690>



## Poll #3: Listen to the Radio Lately?

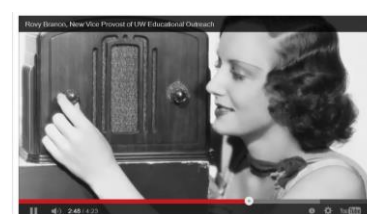
November 14, 2014

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/>

Humanitarian news and analysis

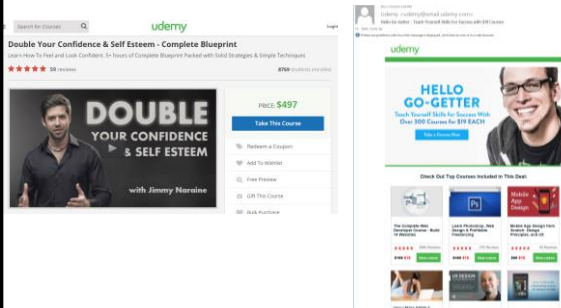


HOMERUN/FREETOWN/DAKAR - 14 November 2014 (IRIN) - With the referendum of school in Liberia and Sierra Leone due in the days ahead, an effort to revitalize a project of their respective primary number of students are receiving their lessons by radio.


**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/bestof/2014/11/15/exp-gps-moocs-sot-cnn.html>



**Poll #5: Read Your Email Lately?**  
**January 15, 2015**




**Poll #6: Read Any Research Lately?**  
**October 25, 2014**




OER Evidence Report  
 2013-2014  
 Building Understanding of Open Education

**Poll #7: Remember Education 1.0**  
**1728: 1<sup>st</sup> 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



**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](http://chronicle.com/article/Tech-Woes-at-Small-Colleges/230245/?cid=at&utm_source=at&utm_medium=en)



Mimeograph machine, Wikimedia Commons

**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

**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/>

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

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


**Poll #8: Remember what was to be education 2.0?**

**Fast Forward 30+ Years...**  
 "Anyone can now learn anything from anyone at any time."

**Poll #9: Any Visions of Education 3.0? Knowledge Navigator (1987) Apple Computer**  
<http://www.youtube.com/watch?v=h4AZ5wEoc>

## 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!

## Learning is Technology Based

### New Technologies = New Delivery Methods...



Prehistoric Googling

## 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



Review: Samsung rises to challenge with Galaxy S6 and S6 Edge

## April 9, 2015

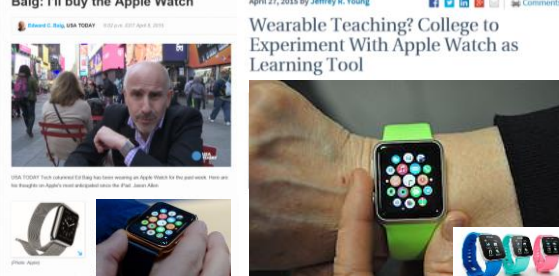
### I'll Buy the Apple Watch, Ed Baig, USA Today

<http://www.usatoday.com/story/tech/columnist/baig/2015/04/08/baig-buying-the-apple-watch/2543688/>

Baig: I'll buy the Apple Watch

April 27, 2015 by Jeffrey R. Young

Wearable Teaching? College to Experiment With Apple Watch as Learning Tool




## 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-your-nomophobia>

Smartphone separation anxiety: How bad is your nomophobia?

Smartphone separation anxiety: How bad is your nomophobia?



ADDICTED TO YOUR SMARTPHONE?

Running out of battery would scare me.


## March 2, 2015

### Beware the smartphone zombies blindly wandering around Hong Kong, Mark Sharp, South China Morning Post

<http://www.scmp.com/lifestyle/technology/article/1725001/smartphone-zombies-are-putting-your-life-and-theirs-danger>

Beware the smartphone zombies blindly wandering around Hong Kong

Beware the smartphone zombies blindly wandering around Hong Kong

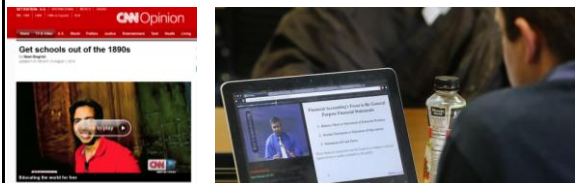


The zombies are everywhere. They wander the streets, shopping malls and MTR corridors. Unable to hear and blind to the world around them.

## 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/>

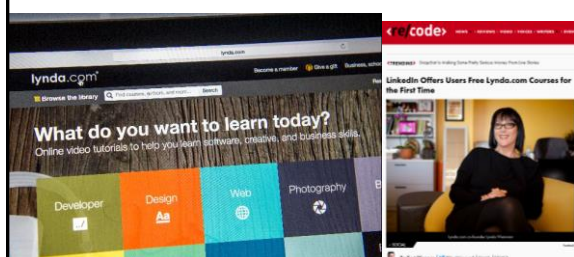


A student watches a video of Norman Nemrow's accounting class. Mr. Nemrow started the video lectures nearly 15 years ago at Brigham Young U. He is now retired, but students still watch him on the screen.

## III. Learning is More Video-Based June 16, 2015

Lynda.com Excel Training, IU Acquired for \$1.5 Billion, April 23, 2015

<http://www.lynda.com/Excel-tutorials/Excel-2010-Essential-Training/61219-2.html>



## August 5, 2015

Shubham Jaglan Overwhelmed by "Dream" Return Home After Double World Championship  
Disha Chopra, NDTV Sports

<http://sports.ndtv.com/golf/news/246551-shubham-jaglan-overwhelmed-by-dream-return-home-after-double-world-championship>  
<http://www.ndtv.com/video/player/news/246551-mia-a-golf-prodigy-shubham-jaglan-returns-home-to-heroic-welcome/377614>



## 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>



## 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-air-2-fabulous-but-not-must-upgrade/12758295/>





## 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/columnists/baig/2015/03/31/samsung-100x-1c-challenge-with-galaxy-s6-2606pe/7072752/>



Review: Samsung rises to challenge with Galaxy S6 and S6 Edge



NextVR crewmembers set up their virtual reality cameras at an NBA game, allowing viewers of the live event to see the game from a variety of positions in the arena.

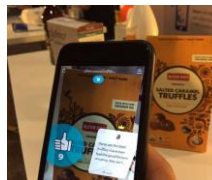
July 23, 2015

Meet Osterhout and its \$2,700 AR glasses

June 10, 2015

Augmented reality promises 'superpowers', and people are listening  
The USA Today, Marco della Cava

<http://www.usatoday.com/story/tech/2015/07/23/meet-osterhout-and-its-2700-ar-glasses/3642761/>  
<http://www.usatoday.com/story/tech/2015/06/10/01-tech-super-powers-are-augmented-reality/3275463/>



Letsee is an AR app from a South Korea consumer to scan a product and see a reviews instantly overlaid overtop.



April 19, 2015

Mini's Augmented Vision concept puts navigation, safety in your glasses, CNET, Wayne Cunningham and Shara Tibken

<http://www.cnet.com/news/mini-augmented-vision-concept-puts-navigation-safety-in-your-glasses/>  
<http://www.theverge.com/2015/4/19/8379353/mini-augmented-vision-ar-augmented-reality>

**Mini's Augmented Vision concept puts navigation, safety in your glasses**

The smaller screen of a concept augmented reality system based on a pair of high-tech glasses that give information about the world around the navigation and safety system.

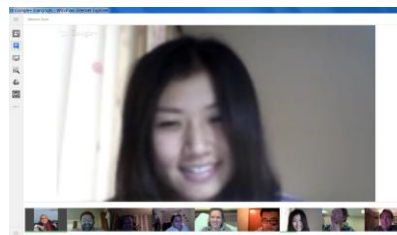
The Mini's Augmented Vision glasses were designed to be used in your vision field of view, rather than the small display area of Google Glass.

## 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/>

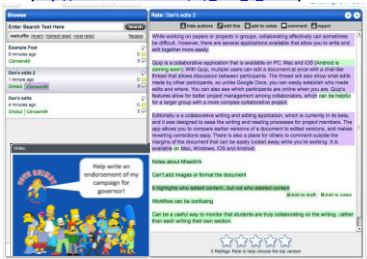
Global Collaboration Projects that Go Way Beyond Skype



October 7, 2013

6 collaborative writing applications for group projects or papers, Casey Brown, Elon University

<http://blogs.elon.edu/technology/collaborative-writing-applications-for-group-projects-or-papers/>  
MeetingWords, Google Docs, NowComment, MixedInk  
[http://www.mixedink.com/#/\\_how\\_it\\_works](http://www.mixedink.com/#/_how_it_works)



September 1, 2015

## IX. Learning is More Social

Facebook says 1 billion people used Facebook on Monday, USA Today

<http://www.usatoday.com/tech/>



Facebook says 1 billion people used Facebook on Monday

Today's "BWest Byte" is 1 billion, for the amount of people who used Facebook on Monday. Bloomberg's Emily Chang reports on "Bloomberg West."

4 of 19 See more video

**X. Learning is More Adventurous**  
**May 7, 2015**  
**Aaron Doering, Chasing Seals, TEDx**  
<http://chasingseals.com/>  
<https://twitter.com/chasingseals>

**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/15144572cid=at>


**January 19, 2015**  
**XII. Learning is More Synchronous**  
**(International Open Badges Extravaganza)**  
**European Meeting in Zoom, November 2015)**

**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/gadgets/2014/10/23/amazon-kindle-fire-hd-8/1733242>

**XIV. Learning is More Blended**  
**March 22, 2015**  
**Madagascar marvel:**  
**Divers find fossils of extinct giant lemurs**  
**Daisy Carrington, for CNN, March 22, 2015**  
<http://www.cnn.com/2015/03/19/africa/underwater-fossil-lemur-graveyard-madagascar/index.html>

**May 28, 2015 (Immediate, Digital, and Resource Rich)**  
**Ancient jawbones put new species on the human family tree, researchers say, Laura Smith-Spark, CNN**  
<http://www.cnn.com/2015/05/28/africa/ethiopia-fossil-hominin-ancestor/index.html>

**May 28, 2015**  
**New species from Ethiopia further expands Middle Pliocene hominin diversity, Nature**  
<http://www.cnn.com/2015/05/28/africa/ethiopia-fossil-hominin-ancestor/index.html>  
<http://www.nature.com/nature/journal/v521/n7553/full/nature14448.html>



**THE DISCOVERY WAS MADE IN ETHIOPIA**

**Human Ancestor Discovered**

**ARTICLE**  
**New species from Ethiopia further expands Middle Pliocene hominin diversity**

**Human Ancestor Discovered**

**XV. Learning is More Informal**  
**June 29, 2015**  
**Is Facebook the next frontier for online learning?**  
 Christine Greenhow, [greenhow@msu.edu](mailto:greenhow@msu.edu), Andy Henion  
<http://msutoday.msu.edu/news/2015/is-facebook-the-next-frontier-for-online-learning/>

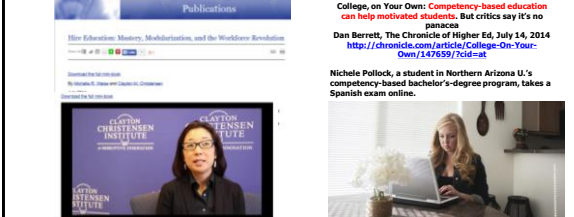


**IS FACEBOOK THE NEXT FRONTIER FOR ONLINE LEARNING?**

**A DOZEN WAYS TO PROMOTE INFORMAL LEARNING**

Professor Says Facebook Can Help 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>




**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/14795975464>

Niche Pollock, a student in Northern Arizona U.'s competency-based bachelor's-degree program, takes a Spanish exam online.

**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/>



**Instant Knowledge On Demand**

Discover 1949 micro-courses

Micro-Course Collections

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



**Banana Piano**

**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/>



**iPotty Aims To Entertain Toddlers During Toilet Training**

Bill Gates' Classroom of the Future

## Learning is More Personal

### Localization and Translation of Open Content

Coursera, Global Translator Community, Chronicle of Higher Education  
<https://www.coursera.org/about/translate>

Coursera Seeks to Create a 'Global Translator Community'

Bring a great education to the world.  
 Join the **Global Translator Community**.

Sign Up

The Global Translator Community (GTC) is a community of volunteers and partner organizations working to make great educational content accessible across geographic and linguistic boundaries. GTC participants work together to translate top courses on Coursera into their native languages.

Join the GTC >  
 Meet our translators >



## 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.onlinelearningconsortium.com/reports/gradelevel.pdf>  
<http://edition.cnn.com/videos/business/2015/03/11/ywt-yale-offers-online-degree-2u-ceo.cnn>

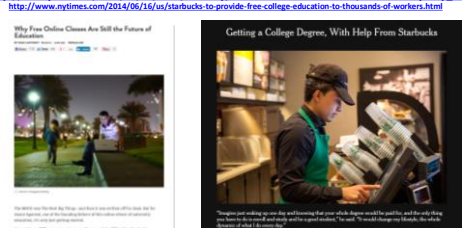


## Learning is More Online

### 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\\_12](http://money.cnn.com/2014/06/15/news/economy/starbucks-schultz-education/index.html?hpt=hp_12)  
<http://www.nytimes.com/2014/06/16/us/starbucks-to-provide-free-college-education-to-thousands-of-workers.html>



## November 18, 2015

Focused Ga. Mom Completes College Exam While in Labor, Fox 5, Atlanta  
<http://www.fox5atlanta.com/news/50990044-story>



Photos provided to FOX 5 News by Tommie Collins.

## 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

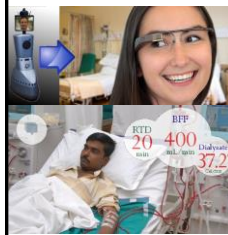
Elliott Masie's (i-Beacon; Bluetooth low energy proximity sensing)  
<http://www.learning2014.com/index.php/learning-trends-and-challenges-webinar.html>

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  
<http://www.usatoday.com/story/tech/2013/04/09/google-apple-tech-class-labware-iphone-nike-zincost-samsung/127414/>  
 (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 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 savours: books can now be read on almost any mobile phone



**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

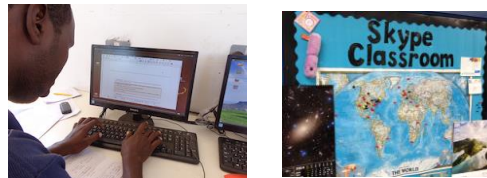
[http://www.ted.com/talks/sugata\\_mitra\\_build\\_a\\_school\\_in\\_the\\_cloud.html](http://www.ted.com/talks/sugata_mitra_build_a_school_in_the_cloud.html)



## XXVIII. Learning is More Global May 26, 2015

Exploring by the Seat of Our Pants  
National Geographic, Jessica Shea

<http://blog.education.nationalgeographic.com/2015/05/26/exploring-by-the-seat-of-our-pants/>



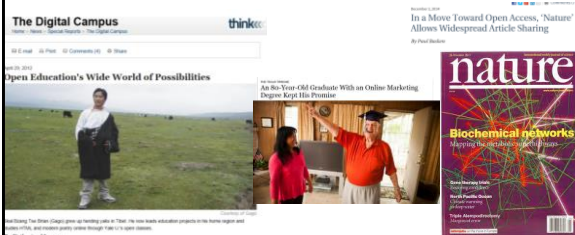
Two men living in Dadaab, a refugee camp in Kenya, would watch lecture videos and take online quizzes at a nearby United Nations compound. (InZone)

## XIX. Learning is More Open (December 2, 2014)

Nature, Openwords, etc.

<http://www.openwords.com/>

<https://www.facebook.com/Openwords>



## August 4, 2015

## XXX. Learning is More Modular How Nanodegrees Are Disrupting Higher Education

John Waters, Campus Technology

<http://campustechnology.com/articles/2015/08/05/how-nanodegrees-are-disrupting-higher-education.aspx>



## 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.palrpress.com/invasion\\_of\\_the\\_moocs](http://www.palrpress.com/invasion_of_the_moocs)

Free (PDF): [http://www.palrpress.com/pdf/invasion\\_of\\_the\\_moocs.pdf](http://www.palrpress.com/pdf/invasion_of_the_moocs.pdf)



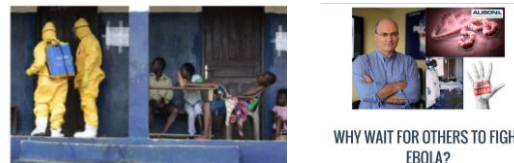
## Global Health Initiatives

October 7, 2014

Online Mocc 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.

**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."**

**May 26, 2015**

**Edtech and MOOC Times in China**  
 Michael Trucano On Tue, 05/12/2015, EduTech  
<https://blogs.worldbank.org/edutech/edtech-and-mooc-times-china>



**June 26, 2015**


**In China, Where Everything is a MOOC, Education Week**, Justin Reich, HarvardX Research Fellow  
[http://blogs.edweek.org/edweek/edtechresearcher/2015/05/in\\_china\\_where\\_everything\\_is\\_a\\_mooc.html?i=38459497](http://blogs.edweek.org/edweek/edtechresearcher/2015/05/in_china_where_everything_is_a_mooc.html?i=38459497)

The most memorable line from my recent visit to China was this: "We have 12 million K-12 teachers in China who need to receive this particular in-service training, so we started with a group of about 200,000."



**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.



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

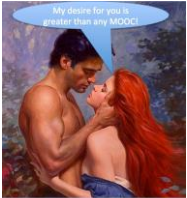


Frank Basile, an aircraft technician, took an MITx course on circuits and electronics to increase his knowledge.



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

**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**

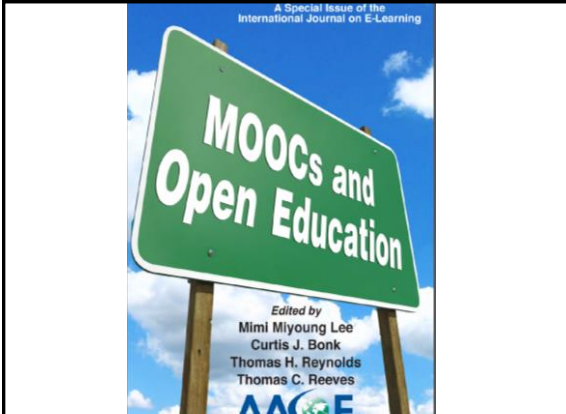
EDITED BY  
CURTIS J. BONK, MIMI H. LEE,  
THOMAS C. REEVES  
& THOMAS H. REYNOLDS

A Special Issue of the  
International Journal on E-Learning

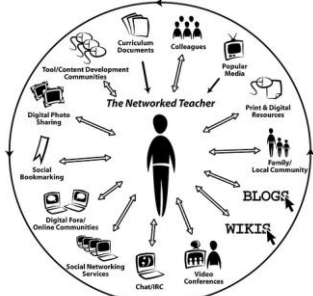

# MOOCs and Open Education

Edited by  
Mimi Miyoung Lee  
Curtis J. Bonk  
Thomas H. Reynolds  
Thomas C. Reeves

**AACE**



## The Web of Learning

## We are entering a jumping off point...

(South University of Science and Technology of  
China, Wednesday June 10, 2015)



## We are entering a jumping off point...

(South China Normal University,  
Friday June 12, 2015)



## Any Comments or Questions?

😊 **Slides at: [TrainingShare.com](http://TrainingShare.com)**  
**Papers: [PublicationShare.com](http://PublicationShare.com)**  
**Book: <http://tec-variety.com/>**  
**Email: [curt@worldisopen.com](mailto:curt@worldisopen.com)**

