

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

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

As presented at  
**CONNECT 2015**  
Online Education Conference

July 9, 2015

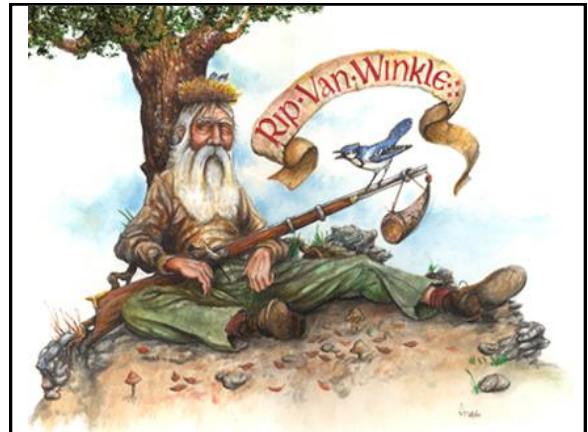
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(Circa Confucius 551–479 BCE)



**Academos**  
**Plato Circa 428–347 BCE**



**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>

Edtech and MOOC Times in China

SUBMITTED BY MICHAEL TRUCANO ON TUE, 05/12/2015



**June 26, 2015**

**In China, Where Everything is a MOOC,**  
Education Week, Justin Reich, HarvardX Research Fellow

[http://blogs.edweek.org/edweek/edtechresearcher/2015/06/in\\_china\\_where\\_everything\\_is\\_a\\_mooc.html?i=284759497](http://blogs.edweek.org/edweek/edtechresearcher/2015/06/in_china_where_everything_is_a_mooc.html?i=284759497)

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."



## 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/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

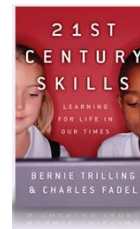
The Genesis and Emergence of Education 3.0 in Higher Education and its Potential for Africa, First Monday, by Derek Keats and J. Philipp Schmidt, March 2007  
<http://firstmonday.org/ojs/index.php/fm/article/view/1625/1540>

### 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 disciplines, 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.svefoundation.org/2011/08/05/the-digital-natives-are-coming/>



### The Seven Cs – 21<sup>st</sup> Century Lifelong Skills

Seven Cs	Component Skills
Critical Thinking and Doing	Problem-solving, Research, Analysis, Project Management, etc.
Creativity	New Knowledge Creation, "Real-World" Design Solutions, Artistic Storytelling, etc.
Collaboration	Cooperation, Compromise, Consensus, Community-building, etc.
Cross-cultural Understanding	Active Global Ethics, Knowledge and Organizational Culture
Communication	Crafting Messages and Using Media Effectively
Computing / ICT Literacy	Effective Use of Electronic Information and Knowledge Tools
Career & Learning Self-reliance	Managing Change, Lifelong Learning and Career Realization

## 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

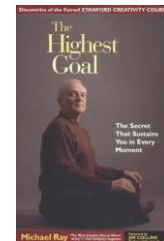
By Lou Aronica and Ken Robinson (2013)  
<http://www.inventtolearn.com/>

- 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>



## 9. The Influence of Technology and Globalization on the Lives of Students.

Maguth, Brad M. (Ed.). (2012). *New Directions in Social Education Research: The Influence of Technology and Globalization on the Lives of Students*. Charlotte, NC: Information Age Publishing, Charlotte, NC. (book review, Mimi Lee, Ed Tech Magazine, 2013)



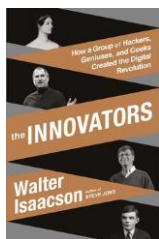
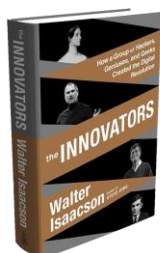


## 10. The Innovators:

How a group of hackers, geniuses, and geeks created the digital revolution. New York: Simon & Schuster.

Walter Isaacson (2014)

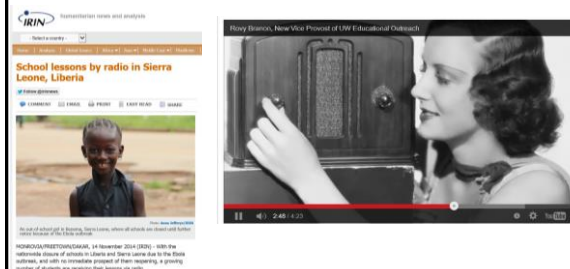
<http://books.simonandschuster.com/The-Innovators/Walter-Isaacson/9781476708690>



## 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/106838/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)**

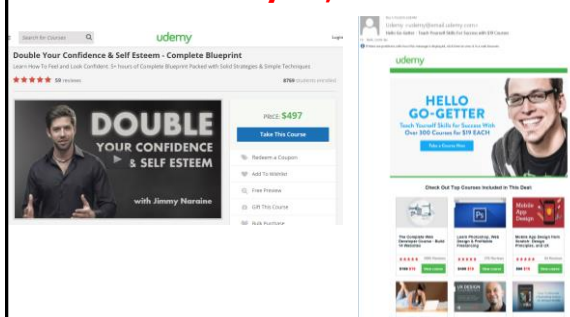
Why online ed disrupts the traditional model, Fareed Zakaria GPS, CNN, On GPS, Stuart Butler & Anant Agarwal explain why students are drawn to online higher education: tuition debt & exciting new technologies

<http://www.cnn.com/video/data/2.0/video/bestoftv/2014/11/15/exp-gps-moocs-sot.cnn.html>



## 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/238245/2cid=at&utm\\_source=at&utm\\_medium=en](http://chronicle.com/article/Tech-Woes-at-Small-Colleges/238245/2cid=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**

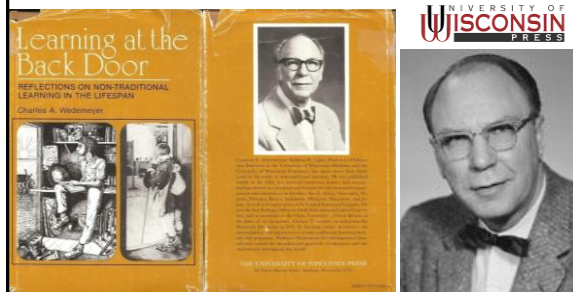
eSchool News, Meris Stansbury

<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."**


SKILLSHARE LEARN TEACH

Learn anything from anyone, anywhere.




Join and start learning and discover unique classes in your city.

**Poll #9: Any Visions of Education 3.0?**  
**Knowledge Navigator (1987)**  
**Apple Computer**  
<http://www.youtube.com/watch?v=h4kZF6wEoc>



**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 2.0!



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

**Prehistoric Googling**



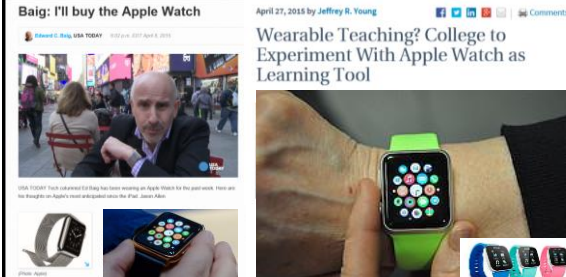
**I. Learning is More Mobile**  
 (e.g., mobile courses on smartphone)  
**April 2, 2015**  
 Review: Samsung rises to challenge with Galaxy S6 and S6 Edge



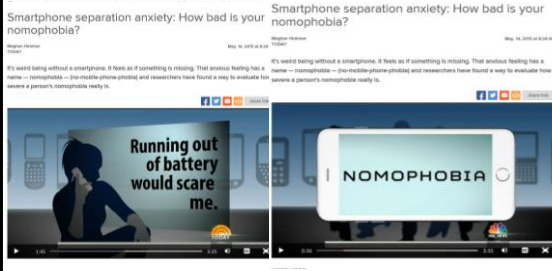
**April 9, 2015**  
**I'll Buy the Apple Watch, Ed Baig, USA Today**  
<http://www.usatoday.com/story/tech/columnist/baig/2015/04/08/baig-buying-the-apple-watch/25436885/>

**Baig: I'll buy the Apple Watch**

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



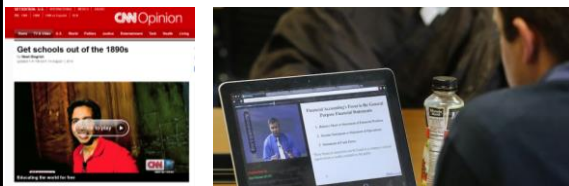


**May 14, 2015****Smartphone separation anxiety: How bad is your nomophobia?, Today Health, Meghan Holohan**<http://www.today.com/health/smartphone-separation-anxiety-how-bad-are-you-120788>**March 2, 2015****Beware the smartphone zombies blindly wandering around Hong Kong, Mark Sharp, South China Morning 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**

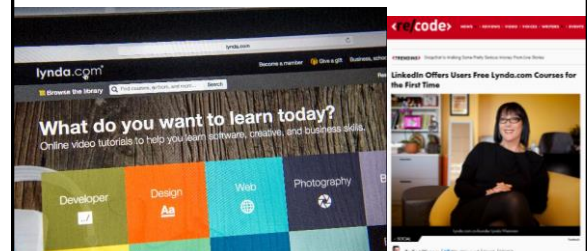
Distraction walking — as the experts call it, is a growing occurrence in the MTR and has the effects of being drugged. Experience elsewhere shows it can be deadly.

Mark Sharp  
Tech-Entrepreneur

PUBLISHED: March 02, 2015  
UPDATED: March 02, 2015

**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-Pioneer-Hands-Off-His-Video-Lectures/131032/>

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>**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.chmedia.com/articles/corporate-classroom-adapting-to-change>

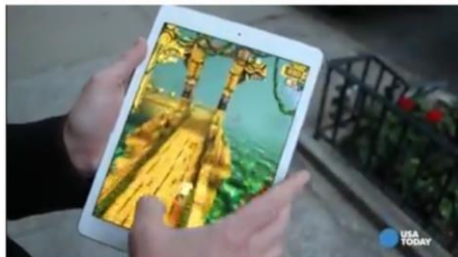


## VI. Learning is More Game-Based

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/12568295/>



## 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/7972752/>



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



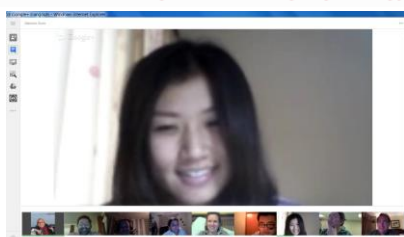
NextVR crewmembers set up their virtual reality cameras at an NBA game, allowing viewers of the live event to see the game from a variety of positions in the arena.

## 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

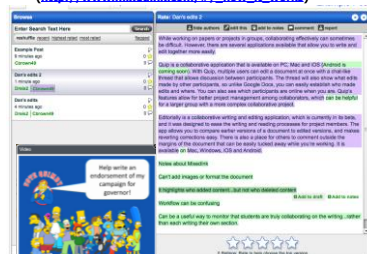


## October 7, 2013

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](http://www.mixedink.com/#/_how_it_works))

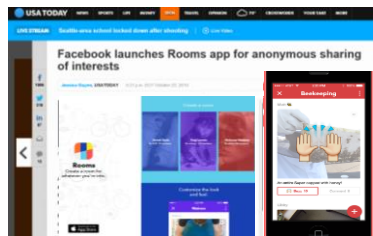


## IX. Learning is More Social

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-launches-app-for-anonymous-sharing-of-interests/12789167/>



## X. Learning is More Adventurous

May 7, 2015

Aaron Doering, Chasing Seals, TEDx

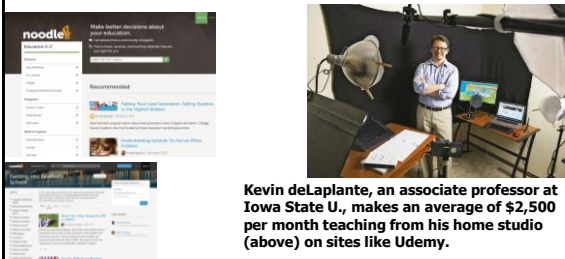
<http://chasingseals.com/>

<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/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 Udemu.

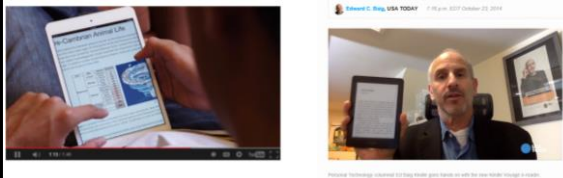
## XII. Learning is More Synchronous May 28, 2015

World Bank Institute workshop on e-learning to finance people in Zhengzhou, China



## 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/columnists/baig/2014/10/23/amazon-kindle-voyage-to-ugly-but-beautiful-smartphone/1734232>



## XIV. Learning is Resource Rich March 22, 2015

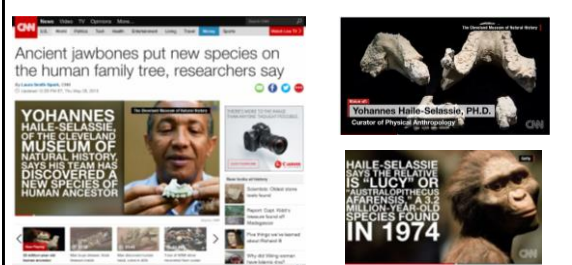
Madagascar marvel:  
Divers find fossils of extinct giant lemurs  
Daisy Carrington, for CNN, March 22, 2015  
<http://www.cnn.com/2015/03/19/africa/underwater-fossil-lemur-graveyard-madagascar/index.html>



May 28, 2015

Something in the news.

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 hominid 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>



## 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/>



## 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/147659/?cid=mat>

Nichele 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/blog/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/>



iPotty Aims To Entertain Toddlers During Toilet Training



## 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

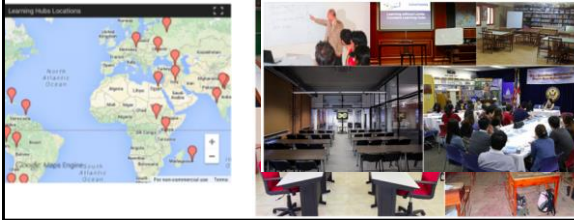




## XX. Learning is More Communal April 30, 2014

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/wbt-yale-offers-online-degree-2u-ceo.cnn>



## January 23, 2015 Gates Newsletter

[http://www.gatesnotes.com/2015-annual-letter?page=5&lang=en&WT.mc\\_id=01\\_21\\_2015\\_AL2015-BG\\_PPFA\\_Top\\_Top\\_20](http://www.gatesnotes.com/2015-annual-letter?page=5&lang=en&WT.mc_id=01_21_2015_AL2015-BG_PPFA_Top_Top_20)



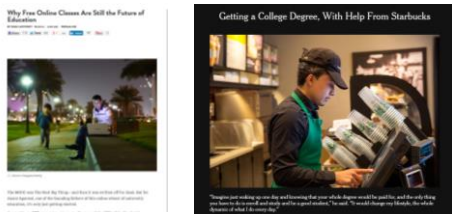
A quick overview of the bet we're making about the next 15 years.



## 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>



## 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](http://designbuildsource.com.au/design-for-students-with-students) opened in October 2011, May 8, 2012, Mike Roberts



### XIV. Learning is More Ubiquitous September 23, 2014

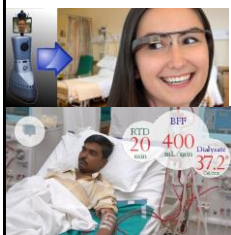
Elliott Masie's (i-Beacon; [Bluetooth low energy proximity sensing](http://www.learning2014.com/index.php/learning-trends-and-challenges-webinar.html))

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-health-glass-pokemon-shine-rite-microsoft-learning/1979112/>  
(i.e., magnify moles or injuries, see vital signs, live stream surgeries, access previous PT sessions, access research and drug info, etc.)  
<http://www.hercmobilehealthcare.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



POWELL GATTY  
Screen savers: books can now be read on almost any mobile phone



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/2015/01/08/us/politics/obama-proposes-free-community-college-education-for-some-students.html?\\_r=0](http://www.nytimes.com/2015/01/08/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

### 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)

**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



## February 11, 2015 Inside the schools that dare to break with traditional teaching The Guardian

<http://www.theguardian.com/teacher-network/2015/feb/11/schools-students-traditional-teaching>



Students at the [Liger Learning Center](#) in Phnom Penh, Cambodia.  
Photograph: Liger Learning Center



Ørestad Gymnasium (Copenhagen, Denmark), a school without classrooms, is designed to fit the ethos of 50% teacher-led learning and 50% independent student-centred learning.

## 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/>

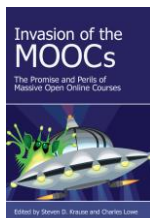
<https://www.facebook.com/Openwords>



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



## 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.advancelarning.com/why-wait-for-others-to-fight-ebola>



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



WHY WAIT FOR OTHERS 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."**

**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 EMPLOYEES CAN EARN CREDITS TOWARD VALUABLE CAREER-RELATED COURSES AT NO COST AS THEY LEARN FROM THEIR OWN KNOWLEDGE AND WORK EXPERIENCE. THE COURSES ARE HOSTED BY GOOGLE AND ARE AVAILABLE TO ALL EMPLOYEES.

BY JIMMY KESTER

**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."

**May 17, 2015****Why Is The University Still Here?**

TechCrunch, Danny Crichton  
<http://techcrunch.com/2015/05/17/why-is-the-university-still-here/#.ccsqnR1s>



Universities are supposed to be dead. These bastions of higher learning have been on Silicon Valley's hit list for much of the past decade, and disruption players targeting the industry have certainly been set to kill in the years since.

**Things are heating up!**

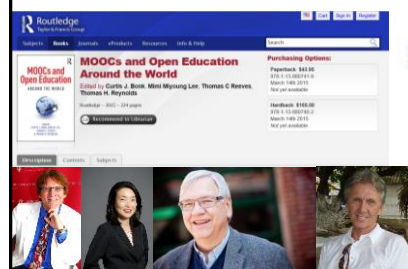
<http://routledge-ny.com/books/details/9781138807419/>



**MOOCs and Open Education Around the World**  
 By Bonk, Lee, Reeves, & Reynolds

**MOOCs and Open Education Around the World**

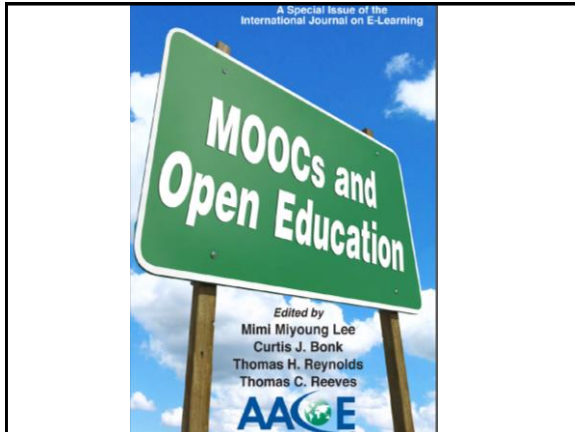
<http://routledge-ny.com/books/details/9781138807419/>



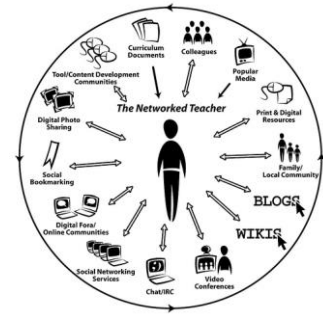
**MOOCs and Open Education Around the World**



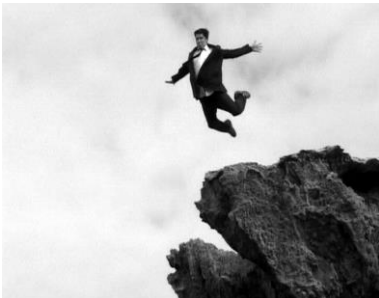
EDITED BY  
 CURTIS J. BONK, NIKKI M. LEE,  
 THOMAS C. REEVES  
 & THOMAS H. REYNOLDS



## The Web of Learning



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



## 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)



## The World is very open!

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



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



### The World is Wide Open! (South University of Science and Technology of China, Wednesday June 10, 2015)



### Audience Participation!

**WE**

**ALL**

**LEARN!!!**



### Ok, how do you now view the instructor in the Open World of Education 3.0?



### From Instructor as Credit Manager...



### To Instructor as Orchestra Conductor or Concierge?





## Instructor as Course Ambassador?



## Instructor as Curator?



**June 4, 2015**  
**AspirEDU**

<http://aspiredu.com/solutions/>

**Identify At-Risk Students**

AspirEDU's unique blend of data gives you the right and wrong data on every student's performance. We do it automatically - no manual digging necessary - and we do it every day. Grades, missing assignments, course usage data, and other data about student behavior are analyzed in real time. So for each student, across all courses that student is taking, they give you a rating that indicates an easy way to find those struggling students and help them succeed.

“...our review team able to help students who were struggling...”  
— John Smith, Director of Student Success

**Canvas Integrates AspirEDU Retention Tools**

By Joshua Seltzer | 06/04/15

AspirEDU and Canvas have teamed up to integrate the former's student retention analytics tools with the latter's Canvas Learning Management System (LMS) for joint customers.

**An Education 3.0 Solution?**  
**Introducing the free “TEC-VARIETY” Framework...**

<http://tec-variety.com/>

<http://tec-variety.com/TEC-VARIETY-Chinese.pdf>



在线学习动机与激励：  
**TEC-VARIETY 模型**

——激励和留住在线学习者的 100 个活动

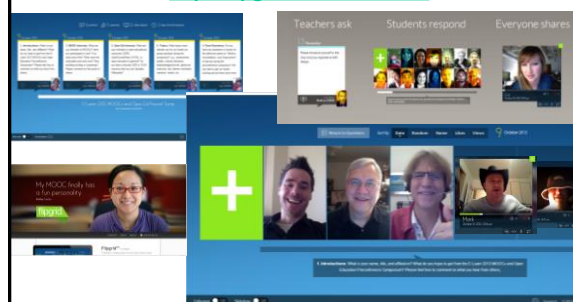
作者：Curtis J Bonk & Elaine Khoo IU

## Framework: TEC-VARIETY for Online Motivation and Retention

- 1. Tone/Climate: Psych Safety, Comfort, Belonging**
- 2. Encouragement, Feedback: Responsive, Supports**
- 3. Curiosity: Fun, Fantasy, Control**
- ...
- 4. Variety: Novelty, Intrigue, Unknowns**
- 5. Autonomy: Choice: Flexibility, Opportunities**
- 6. Relevance: Meaningful, Authentic, Interesting**
- 7. Interactive: Collaborative, Team-Based, Community**
- 8. Engagement: Effort, Involvement, Excitement**
- 9. Tension: Challenge, Dissonance, Controversy**
- 10. Yields Products: Goal Driven, Products, Success, Ownership**

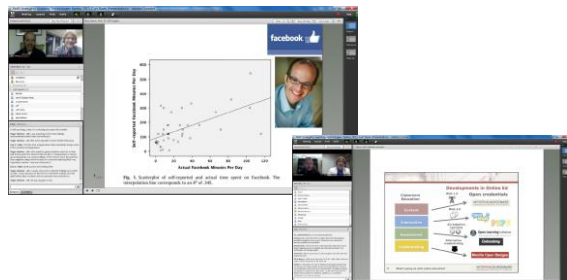
## 1. Tone/Climate: A. Threaded Video Discussions, e.g., Flipgrid

<http://flipgrid.com/#429f88c5>





## 8. Engagement, 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](https://www.youtube.com/watch?v=Bcr3_aZT_xQ&feature=youtu.be)



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

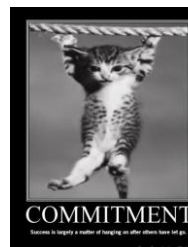


## Commitments:

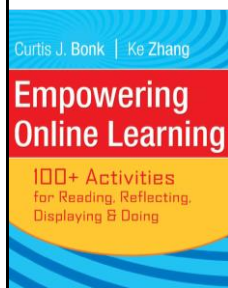
Which principle(s) of TEC-VARIETY will you use?

**T**one/Climate  
**E**ncouragement, Feedback  
**C**uriosity

**V**ariety  
**A**utonomy  
**R**elevance  
**I**nteractive  
**E**ngagement  
**T**ension  
**Y**ields Products



## Also Education 3.0? Framework #2: The R2D2 Model

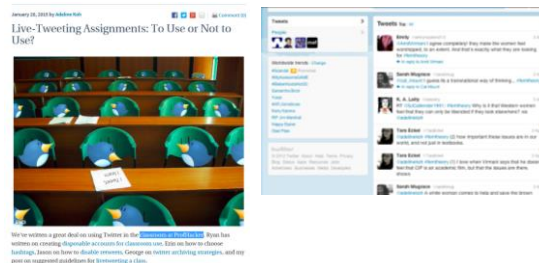


**January 28, 2015**

## Read 1a. Twitter Fed Class Discussions

Live-Tweeting Assignments: To Use or Not to Use?  
he Chronicle of Higher Education, Adeline Koh

<http://chronicle.com/blogs/proftrack/live-tweeting-assignments-to-use-or-not-to-use/58949>





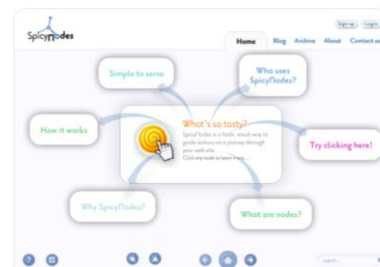
## Reflect 2a. Interpreting Infographics July 24, 2014

Woman in Computer Science

<http://graduatedegreesonline.njit.edu/mcs-resources/mcs-infographics/women-in-computer-science/>



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



## Do 4a. Student Music Recordings on Course Content

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=ZRGVMg5Vmw&feature=youtu.be>



## Poll #10: Which do you prefer... (A) TEC-VARIETY or (B) R2D2?



### What motivates?

1. Tone/Climax: Psychological Safety, Comfort, Sense of Belonging
2. Encouragement: Feedback, Responsiveness, Praise, Supports
3. Curiosity: Surprise, Intrigue, Unknown
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, Investment, Investment
9. Tension: Challenge, Dissonance, Controversy
10. Yielding Products: Goal Driven, Purposeful Vision, Ownership



## Where are we headed? Where is Education 3.0?



## Education 3.0: My, Our Learning World is Changing!

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)



As presented at

**CONNECT 2015**  
Online Education Conference

July 9, 2015

**LEARNINGHOUSE**  
Your Online Education Partner

LearningHouse.com  
(502) 589-9878

## Time for a lunch break...

Slides at: <http://www.trainingshare.com/>



As presented at  
**CONNECT 2015**  
Online Education Conference