

## Education 3.0:

My, Our Learning World is Changing!

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

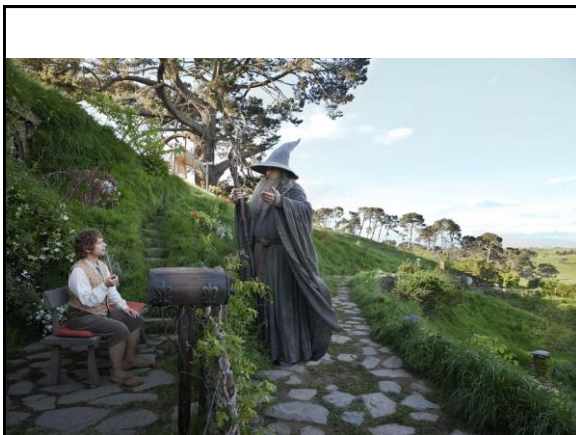


(Circa Confucius 551–479 BCE)



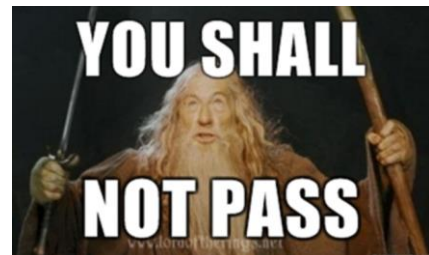
## Academos

Plato Circa 428–347 BCE



## Poll #1:

Do you really remember those  
 days of the lecture?



**This is a new age of  
learning and instruction...!**



**From Instructor as Credit  
Manager...to...**



**1. Instructor as Concierge**



**2. Instructor as Consultant**



**3. Instructor as Conductor**



**5. Instructor as Curator**



## Age of Instructor as Curator, Concierge, Counselor, etc.



## Poll #2: 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



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



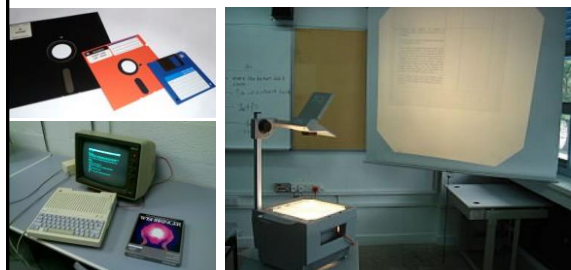
Mimeograph machine.

May 10, 2013

10 ed-tech tools of the 70s, 80s, and 90s

eSchool News, Meris Stansbury

<http://www.eschoolnews.com/2013/05/10/10-ed-tech-tools-of-the-70s-80s-and-90s/print/>



## Poll #3: Remember education 2.0?



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






**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 #4: Do you really remember what was to be education 2.0?**



**IF YOU DON'T STUDY**  
*You shall not pass!*

**Poll #5:**  
**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>

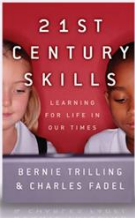
**AMERICA'S SKILLS CHALLENGE:**  
**MILLENNIALS AND THE FUTURE**

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

OVERVIEW

**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.avefoundation.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 Fit" Design Solutions, Intel Storytelling, etc.
Collaboration	Cooperation, Compromise, Consensus, Community-building, etc.
Cross-cultural Understanding	Across Service Ethics, Knowledge and Organizational Cultures
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 Readiness

**What is 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>

**Table 1: Educational generations in higher education**

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

**Poll #6:**  
**Read any good books lately?**



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

Daniel Pink (2009)

Pinkcast 2.

Advice from Adam Grant: Look for "disagreeable givers"



**2. Grit: The Power of Passion and Perseverance**  
Angela Duckworth (2016)



**3. Mindset:**

**The New Psychology of Success**  
Carol Dweck (2006)

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

- 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?



**4. Creativity, Inc. (2014)**  
Ed Catmull, President of Pixar Animation and Disney Animation  
<http://www.creativityincbook.com/>



**5. Big Magic (2015): Creative Living Beyond Fear**  
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)



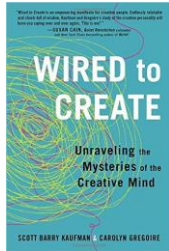
## 6. Wired to Create (2015):

Unraveling the Mysteries of the Creative Mind

Scott Barry Kaufman & Carolyn Gregory

<http://www.amazon.co.uk/Wired-Create-Unraveling-Mysteries-Creative/dp/0339174109>

<http://www.scientificamerican.com/article/how-to-cultivate-your-creativity-book-excerpt/>



## 7. 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

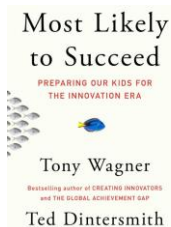


## 8. Most Likely to Succeed (2015):

Preparing Our Kids for the Innovation Era

Tony Wagner and Ted Dintersmith

<http://www.tonywagner.com/1933>



## Poll #7:

What if you read these books?



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

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



## Thirty Ways Learning is Changing...

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



## 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



**February 17, 2016**

**World's Cheapest Smartphone at \$3.67**

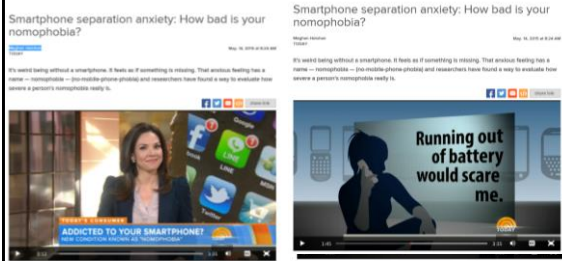
[https://m.facebook.com/hashtag/launched?refid=528...\\_in...=5246](https://m.facebook.com/hashtag/launched?refid=528..._in...=5246)  
[https://m.facebook.com/story.php?story\\_fbid=10153396901231579&id=102522030792](https://m.facebook.com/story.php?story_fbid=10153396901231579&id=102522030792)  
<http://gadgets.ndtv.com/videos/freedom-251-launched-as-world-s-cheapest-smartphone-at-rs-251-404082>



**May 14, 2015**

**Smartphone separation anxiety: How bad is your nomophobia?**, Today Health, Meghan Holohan

<http://www.today.com/health/smartphone-separation-anxiety-how-bad-yours-120786>



**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-their-danger>

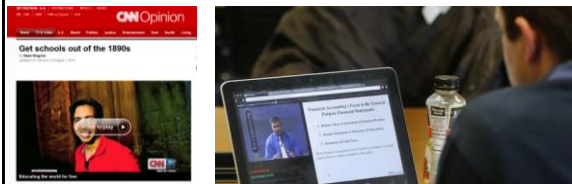


**January 7, 2015**

## II. Learning is More Flipped

**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/13303/>



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.

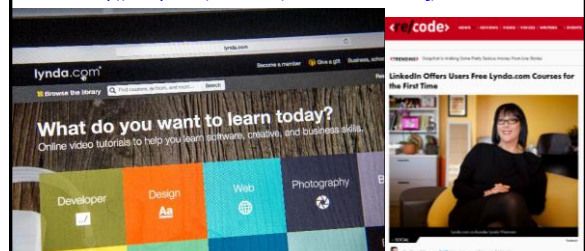
**June 16, 2015**

## III. Learning is More Video-Based

**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 31, 2015**  
**Short Educational Video Anchors:**  
 CNN, BBC, TED, TED-Ed, ForATV  
 BBC One-Minute World News  
<http://www.bbc.com/news/business-34105708>



Can Indian GDP continue to outstrip China?

31 August 2015 Last updated at 00:44 BST

**August 5, 2015**

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

<http://sports.ndtv.com/golf/news/24653-shubham-jaglan-overwhelmed-by-dream-return-home-after-double-world-championship>  
<https://www.ndtv.com/video/player/news/india-s-golf-prodigy-shubham-jaglan-returns-home-to-hero-a-welcome/277564>



**April 5, 2016**  
**Association for the Advancement of Computing in Education (AACE), YouTube Channel**

Featured Interview

Videos

Learning Delivery

Is Online Education Up For a Facelift?

Release Date: February 29, 2016

Audio: Deborah Quaresima, Ph.D., is an assistant professor at the University of Phoenix, who recently led a group of students in a study on the use of online education. She is also a member of the Association for the Advancement of Computing in Education (AACE).

Ted Mitchell

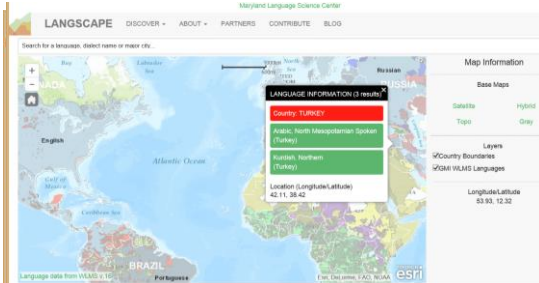
**September 22, 2014**  
**IV. Learning is More Visual**  
**110 Foot Engagement,**  
**Elliott Masie's Learning 2014**

<http://www.learning2014.com/index.php/item/110-foot-screen-engagement.html>



**March 24, 2015**  
**Maps of Languages**  
**Langscape, Language at Maryland**

<https://languagescience.umd.edu/beyond-umd/langscape>  
<http://theweb.com/articles/56786/cool-interactive-map-languages-world-languages>  
<http://langscape.umd.edu/map.php>



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





**April 2, 2015****VI. Learning is More Immersive**

*The Quest to Put More Reality in Virtual Reality,*  
 Review: Samsung rises to challenge with Galaxy S6 and S6 Edge,  
 Edward Baig, USA Today

<http://www.usatoday.com/story/tech/columnist/baig/2015/03/31/samsung-rises-to-challenge-with-galaxy-s6-s6edge/70727752/>



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.

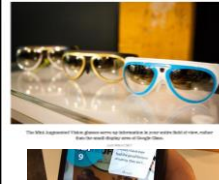
**July 23, 2015**

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-the-2700-ar-glasses/30627961/>  
<http://www.usatoday.com/story/tech/2015/06/09/tech-explains-superpowers-when-augmented-reality/3375453/>



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

**April 10, 2016**

Virtual reality tested by NFL as tool to  
 confront racism, sexism  
 Marco della Cava, USA Today

<http://www.usatoday.com/story/tech/news/2016/04/08/virtual-reality-tested-tool-confront-racism-sexism/82674406/>



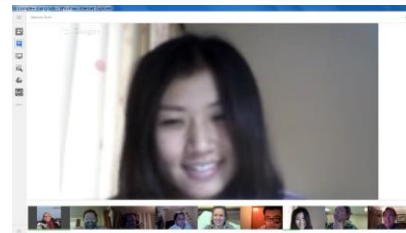
One VR diversity demo places the user in the body of an African-American woman as a white male avatar gets aggressive mere feet away. (In one Stanford VR demo, subjects are made to feel what is like to be homeless, as in this scene where the user is transported into the body of a woman riding the bus with a few possessions.)

**March 26, 2014****VII. Learning also is More Collaborative**

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

**April 28, 2016****Shindig, Video Chat Tool**

Future Trends Forum  
 (with Bryan Alexander)

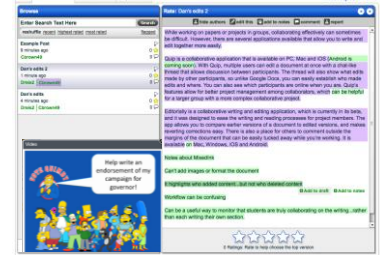
<https://bryanalexander.org/>

**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)



**April 12, 2016**

### VIII. Learning is More Social

**Zuckerberg criticizes Trump's call for border wall at F8 conference,**

Natalie DiBlasio, USA Today

<http://www.usatoday.com/story/tech/news/2016/04/12/zuckerberg-references-trumps-call-border-wall-f8-conference/82940466>

**June 10, 2015**

### VIII. Learning is More Social

**Tencent, Shenzhen, China**

**May 7, 2015**

### IX. Learning is More Adventurous

**Aaron Doering, Chasing Seals, TEDx**

<http://chasingseals.com/>

<https://twitter.com/chasingseals>

**February 2, 2015**

### X. Learning is More Direct from Experts

**Here Comes Professor Everybody: The 'sharing economy' meets higher education,**

Chronicle of Higher Education, Jeffrey R. Young

<http://chronicle.com>

**January 19, 2015**

### XI. Learning is More Synchronous

**(International Open Badges Extravaganza)**

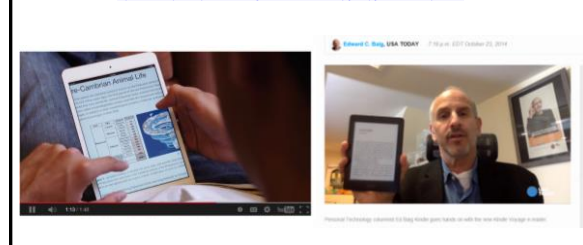
European Meeting in Zoom, November 2015)

**October 23, 2014**

### XII. Learning is More Digital

**New Amazon Kindle is a Voyage into eReader luxury, USA Today, Edward C. Baig**

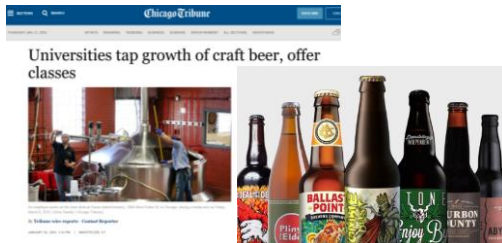
[http://www.usatoday.com/story/tech/news/2014/10/23/amazon-kindle-fire-hd-x-review/1711112](http://www.usatoday.com/story/tech/news/2014/10/23/amazon-kindle-fire-hdx-review/1711112)



## January 20, 2016 XIII. Learning is More Blended

### Universities tap growth of craft beer, offer classes, Chicago Tribune

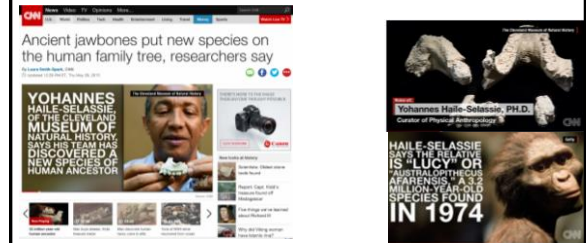
<http://www.chicagotribune.com/business/ct-college-craft-beer-offer-classes-20160120-story.html>



## May 28, 2015 XIV. Learning is More Immediate

### 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>



## January 14, 2016 More Immediate Science...

### Move over T. rex, new dinosaur unveiled, Amanda Jackson, CNN

<http://www.cnn.com/2016/01/14/living/titanosaur-new-dinosaur-on-display-new-york-irpt/>



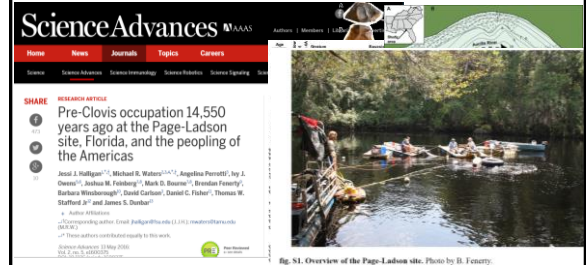
## May 14, 2016 Mastodon bones offer clues of earliest humans in North America, Faith Karimi, CNN

Abstract: <http://advances.sciencemag.org/content/2/5/e1600375>  
Full Article: <http://advances.sciencemag.org/content/2/5/e1600375.full>  
Supplemental materials (PDF): <http://advances.sciencemag.org/content/suppl/2016/05/10/2.5.e1600375.DCI>  
PDF: [http://advances.sciencemag.org/content/advances/suppl/2016/05/10/2.5.e1600375.DCI/1600375\\_SM.pdf](http://advances.sciencemag.org/content/advances/suppl/2016/05/10/2.5.e1600375.DCI/1600375_SM.pdf)



## May 13, 2016 Pre-Clovis occupation 14,550 years ago at the Page-Ladson site, Florida, and the peopling of the Americas, Science Advances, Vol 2(5)

Abstract: <http://advances.sciencemag.org/content/2/5/e1600375>  
Full Article: <http://advances.sciencemag.org/content/2/5/e1600375.full>  
Supplemental materials (PDF): <http://advances.sciencemag.org/content/suppl/2016/05/10/2.5.e1600375.DCI>  
PDF: [http://advances.sciencemag.org/content/advances/suppl/2016/05/10/2.5.e1600375.DCI/1600375\\_SM.pdf](http://advances.sciencemag.org/content/advances/suppl/2016/05/10/2.5.e1600375.DCI/1600375_SM.pdf)





**June 29, 2015**

## XV. Learning is More Informal

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/>



**January 15, 2016**

## Wikipedia at 15

Scott McLemee, Inside Higher Ed

[http://www.insidehighered.com/news/2016/1/15/inside-higher-ed-wikipedia-15th-anniversary?utm\\_source=inside+higher+ed&utm\\_campaign=642a288982-090220161115&utm\\_medium=social&utm\\_term=.2\\_2152a9412c\\_46ba288982\\_177261593](http://www.insidehighered.com/news/2016/1/15/inside-higher-ed-wikipedia-15th-anniversary?utm_source=inside+higher+ed&utm_campaign=642a288982-090220161115&utm_medium=social&utm_term=.2_2152a9412c_46ba288982_177261593)



Wikipedia at 15



WIKIPEDIA 15

Celebrate or hate it as you will, writes Scott McLemee, Wikipedia has metamorphosed from its beginnings as a gangly cultural interloper into the de facto reference work of first resort.

January 15, 2016  
by Scott McLemee

Wikipedia came into the world 15 years ago today — and, man, what an ugly baby. The first snapshot of it in the Internet Archive is from late March of 2001, when Wikipedia was already 10 weeks old. At that point, it claimed to have more than 3,000 pages, with an expressed hope of reaching

**May 10, 2016**

## XVI. Learning is More Competency-Based

Developing a Flexible Degree

Cathy Sandeen, Inside Higher Ed

<http://chronicle.com/article/College-On-Your-Own/147659/7cid=at>



College, on Your Own: Competency-based education can help motivated students.

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



**May 5, 2014**

## XVII. Learning is More On Demand

Mobile MOOCs: New platform challenges conventional MOOCs

eCampus News (<https://coursmos.com/>)

<http://www.ecampusnews.com/top-news/2014/may/05/mobile-moocs-challenge-conventional-moocs/print/>



**February 2, 2015**

## XVIII. Learning is More Hands-On

Makey Makey and the Kano

<http://makeymakey.com/>

<https://vimeo.com/60307041>



**March 7, 2016**

## XIX. Learning is More Personal

Personalized Learning:

What It Really Is and Why It Really Matters

Michael Feldstein and Phil Hill, EDUCAUSE Review

<http://er.educause.edu/articles/2016/3/personalized-learning-what-it-really-is-and-why-it-really-matters/>



## 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 >



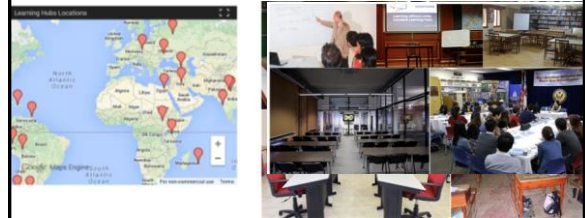
The Global Translator Community

**April 30, 2014**

## XX. Learning is More Communal

**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/84322385912/new-learning-hubs-locations-hosted-by-the-new-york>



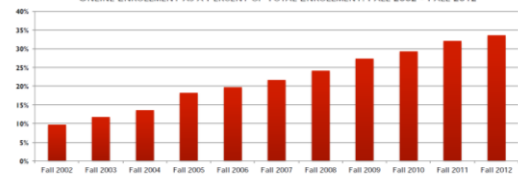
**February 5, 2015**

## XXI. Learning is More Online

**2014 Survey of Online Learning**

**Grade Level: Tracking Online Education in the United States, 2014, Online Learning Consortium (formerly Sloan-C), by I. Elaine Allen and Jeff Seaman**  
<http://www.onlinelearningsurvey.com/reports/gradelevel.pdf>  
<http://edition.cnn.com/videos/business/2015/03/11/yale-offers-online-degree-2u-ceo.cnn>

ONLINE ENROLLMENT AS A PERCENT OF TOTAL ENROLLMENT: FALL 2002 - FALL 2012



**June 15, 2014**

## Learning is More Online

**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>

Why Free Online Classes Are Still the Future of Education



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Getting a College Degree, With Help From Starbucks



"Everyone who works here on any day and knowing that your whole future could be possible, and for the only thing you have to do is just study and be a good student." "I want to thank you for the Starbucks education."

**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 Tamielita Collins.

## October 30, 2015

### Migrants get help through German online university

Mihret Yohannes and Jabeen Bhatti, Special for USA TODAY, USA Today  
<http://www.usatoday.com/story/tech/portal/2015/10/29/migrants-get-help-through-german-online-university/2447226/>  
 "Kiron (University) relies on existing "mass open online courses," or MOOCs, and works with eight academics from Harvard and MIT to create a two-year course of study. This will provide many refugees with credits that can transfer to 35 traditional, brick-and-mortar universities across Europe that are partners with Kiron."



## May 8, 2012

### XII. Learning is More Comfortable

Design for Students, with Students, "Hub Central", the \$42 million University of Adelaide  
<http://designbuildsource.com.au/design-for-students-with-students>



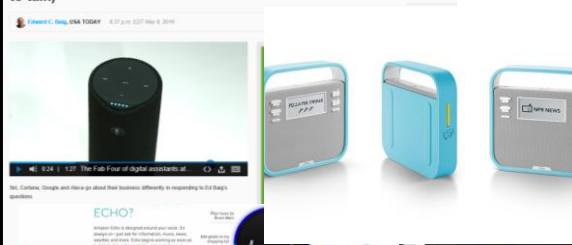
## May 11, 2016

### XIII. Learning is More Voice Activated

Google may have its own Echo coming soon (i.e., codename of "Chirp"), Elizabeth Weise, USA Today

<http://www.usatoday.com/story/tech/news/2016/05/11/google-echo-codename-chirp/84332464/>  
<http://www.usatoday.com/story/tech/news/2016/05/11/google-echo-codename-chirp/84332464/>

Personal digital assistants are on the rise (and they want to talk)



## April 13, 2016

### XIV. Learning is More Ubiquitous

Facebook debuts terrestrial tech to deliver Internet  
 Jessica Guynn, USA Today

<http://www.usatoday.com/story/tech/news/2016/04/13/facebook-terrestrial-tech-deliver-internet/82960846/>



Terragraph places small nodes or boxes on lamp posts, buildings, bus stops and the like at distances up to 820 feet apart to bring high-speed Internet to dense urban areas. (Photo: Facebook)

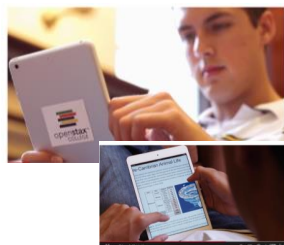
## August 5, 2014

### XV. Learning is More Free

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



### 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>





## February 2013 XXVI. Learning is More Self-Directed 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



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

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)

## September 15, 2015 MOOCs for Social Impact

Social Learning for Social Impact, edX  
Join the world's first GROOC – a MOOC for groups – to collaborate with others globally and create social change.

<https://www.edx.org/course/social-learning-social-impact-mcgill-grooc>

<https://www.youtube.com/watch?v=36&y=WNq-SLFAMdI>

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<https://www.youtube.com/watch?v=36&y=WNq-SLFAMdI>



Maybe you're ready for a global conversation about what you want to do.

## April 20, 2015 XXVIII. Learning is More Open

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."

## August 4, 2015 XXIX. 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>

How Nanodegrees Are Disrupting Higher Education

New "flex" online certification programs are changing the educational pathways to success in certain industries.

By John K. Waters 08/05/15



## September 2, 2014 XXX. Learning is More Massive

### Sample Course: Open Knowledge: Changing the Global Course of Learning

<https://class.stanford.edu/courses/Education/OpenKnowledge/Fall2014/about#>

Softcover (\$30): [http://www.parlorpress.com/invasion\\_of\\_the\\_moocs](http://www.parlorpress.com/invasion_of_the_moocs)

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



## State of the MOOC 2016: A Year of Massive Landscape Change For Massive Open Online Courses, Online Course Report

<http://www.onlinecoursereport.com/state-of-the-mooc-2016-a-year-of-massive-landscape-change-for-massive-open-online-courses/>

<http://classcentral.com/state-of-the-mooc-2016-a-year-of-massive-landscape-change-for-massive-open-online-courses/>

### Growth of MOOCs

Since the first blockbuster MOOCs debuted in 2011, the cumulative number of courses started or scheduled has reached nearly 4,000.



Source: Class Central [Get the data](#)



## January 5, 2016 Use Of MOOCs And Online Education Is Exploding: Here's Why

Josh Bersin, Forbes

<http://www.forbes.com/sites/joshbersin/2016/01/05/use-of-moocs-and-online-education-is-exploding-heres-why/#239acdd57f09>

JAN. 5, 2016 8:00 AM EST

### Use Of MOOCs And Online Education Is Exploding: Here's Why

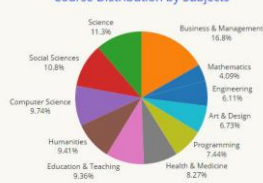


The folks at Class Central just released their data on the growth of online courses (MOOCs) in 2015 and the data is exciting.

More than 25 million people have enrolled in online courses in the last four years, and 2015 enrollment doubled from 2014. (That's equal to one out of five working professionals in the U.S.)

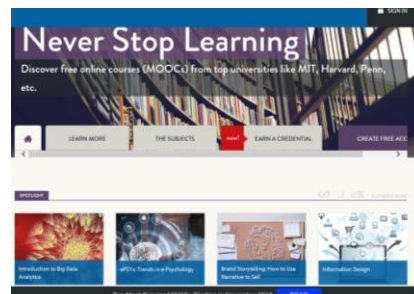
Today there are more than 4,200 MOOC courses available (many more if you include the corporate training programs from companies like Udacity, BigThink, Pluralsight, Lynda, Udacity, and Udacity). These numbers reflect progress, recent course launches, and an increasing focus on business.

### Course Distribution by Subjects



## November 19, 2015 Ten Most Popular MOOCs Starting in November 2015, Class Central Blog

<https://www.class-central.com/>



## September 22, 2015 Who's Benefiting from MOOCs, and Why

Chen Zhenghao, Brandon Alcorn, Gayle Christensen, Nicholas Eriksson, Daphne Koller,

Ezekiel J. Emanuel, Harvard Business Review

<https://hbr.org/2015/09/whos-benefiting-from-moocs-and-why>

### The Career Benefits of MOOCs

As reported by those who stated career benefits as their primary reason for completing a MOOC.



SOURCE: COURSEERA SURVEY DATA

© HBR.ORG

## May 4, 2016 This Mongolian Teenager Aced a MOOC. Now He Wants to Widen Their Impact

The Chronicle of Higher Education, Jeffrey R. Young

<http://chronicle.com/article/This-Mongolian-Teenager-Aced-a-MOOC-Now-He-Wants-to-Widen-Their-Impact/236362>

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TECHNOLOGY

### This Mongolian Teenager Aced a MOOC. Now He Wants to Widen Their Impact.

By Jeffrey R. Young | MAY 04, 2016



This is the latest episode of our new podcast series on the future of higher education. You can subscribe in iTunes to get prior and future episodes.



**March 4, 2016**

**MOOCs: vital tools in education of the future – or over-hyped online fad? (embedded video: 8:01)**

**Euro News, Sarah Chappell**

MOOCs: vital tools in education of the future – or over-hyped online fad?

SPECIAL REPORTS learning world

**MOOCs: vital tools in education of the future – or over-hyped online fad?**

By Sarah Chappell

VIDEO 11:14:27 | 10/09/2015 | 10/09/2015



**June 26, 2015**

**In China, Where Everything is a MOOC**

**Education Week, Justin Reich, HarvardX Research Fellow**

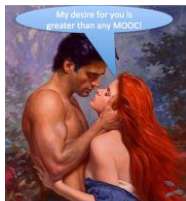
[http://blogs.edweek.org/edweek/edweekresearch/2015/05/in\\_china\\_where\\_everything\\_is\\_a\\_mooc.html?\\_r=204750957](http://blogs.edweek.org/edweek/edweekresearch/2015/05/in_china_where_everything_is_a_mooc.html?_r=204750957)

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."



**Things are heating up!**

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



**MOOCs and Open Education Around the World**

By Bonk, Lee, Reeves, & Reynolds

**Things are heating up!**



**And coming within reach!**



**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, HONG M. LEE,  
THOMAS C. REEVES  
& THOMAS H. REYNOLDS



## 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."

## Poll #8: Does all this give you a headache?



**Not Me...I am happy!  
and...  
My minions are happy!**



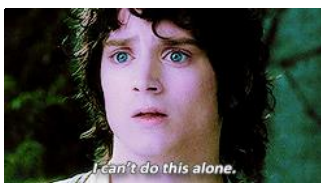
## Remember: We are entering a jumping off point...

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



## Remember: "I cannot do this alone."

"I cannot do this alone."  
"I cannot do this alone."  
"I cannot do this alone."



## Any Comments or Questions?

Slides at: [TrainingShare.com](http://TrainingShare.com)  
Papers: [PublicationShare.com](http://PublicationShare.com)  
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Email: [curt@worldisopen.com](mailto:curt@worldisopen.com)

