

## Education 3.0:

My, Our Learning World is Changing!

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

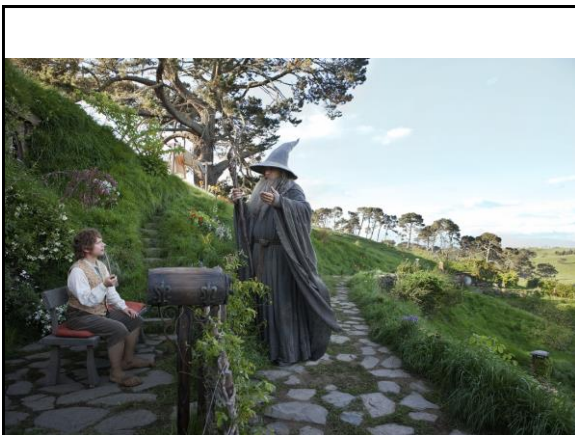
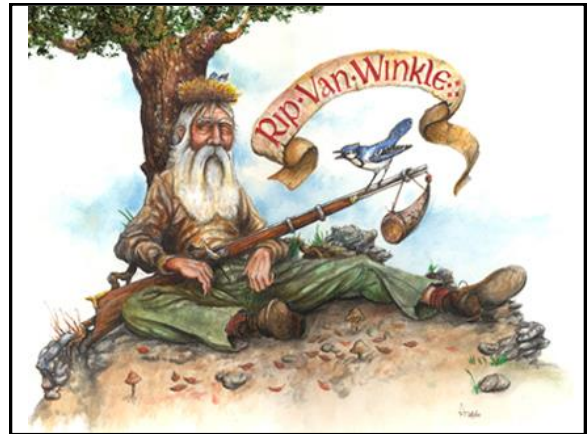


(Circa Confucius 551–479 BCE)



## Academos

Plato Circa 428–347 BCE



## Poll #1: 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

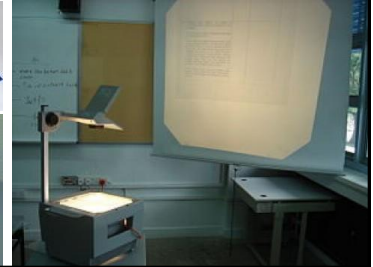


Mimeograph machine.

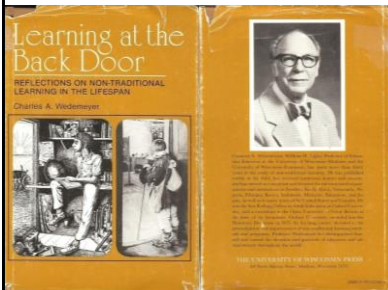
**May 10, 2013**

**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/>



**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 #2: Remember  
 education 2.0?**



**Poll #3: Do you really  
 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 #4:**  
**Are you interested in Education 3.0?**

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



**Poll #5: Does anyone remember the Knowledge Navigator (1987) Apple Computer**  
<http://www.youtube.com/watch?v=hb4AzF6wEoc>



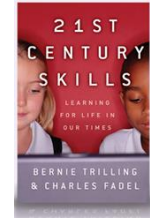
**March 2015**  
**America's Skills Challenge: Millennials and the Future**  
 Madeline Goodman, Anita Sands, and Richard Coley, ETS  
<http://www.ets.org/s/research/30079/index.html>

**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.zeffoundation.org/2011/08/05/the-digital-natives-are-coming/>



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

Seven Cs	Component Skills
<b>Critical Thinking-and-Doing</b>	Problem-solving, Research, Analysis, Project Management, etc.
<b>Creativity</b>	New Knowledge Creation, "Real Fit" Design Solutions, Intel Storytelling, etc.
<b>Collaboration</b>	Cooperation, Compromise, Consensus, Community-building, etc.
<b>Cross-cultural Understanding</b>	Across Service Ethics, 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

**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 (2009):**  
**The Surprising Truth About What Motivates Us**  
Daniel Pink

Pinkcast 2.  
Advice from Adam Grant: Look for "disagreeable givers"



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



**3. 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)

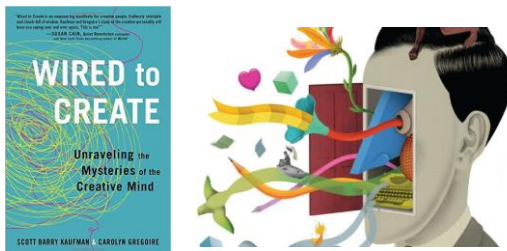


**4. Wired to Create (2015):**  
**Unraveling the Mysteries of the Creative Mind**

Scott Barry Kaufman & Carolyn Gregory

<http://www.amazon.co.uk/Wired-Create-Unraveling-Mysteries-Creative/dp/0293174109>

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



**5. Originals (2016):**  
**How Non-Conformists Move the World**

Adam Grant

<http://www.adamgrant.net/#!/originals/click>

Pinkcast 2. Advice from Adam Grant: Look for "disagreeable givers" (March 2, 2016)





## 6. The Innovators (2014):

How a group of hackers, geniuses, and geeks created the digital revolution.

New York: Simon & Schuster.

Walter Isaacson

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



## 7. Mindset (2006):

The New Psychology of Success

Carol Dweck

<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?



May 11, 2016

## Carol Dweck Says Theory of Educational Mind-Set Is Often Misunderstood

Goldie Blumenstyk, Chronicle of Higher Education

<http://www.chronicle.com/article/Carol-Dweck-Says-Theory-of-Educational-Mind-Set-Is-Often-Misunderstood/238452>

THE CHRONICLE OF HIGHER EDUCATION

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### Carol Dweck Says Theory of Educational Mind-Set Is Often Misunderstood

By Goldie Blumenstyk | May 11, 2016



Carol Dweck, a psychologist at Stanford U., examines "the whole question of why some people take on challenges and see them through."

## 8. Creativity, Inc. (2014)

Ed Catmull, President of Pixar Animation and Disney Animation

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



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

Preparing Our Kids for the Innovation Era

Tony Wagner and Ted Dintersmith

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

Most Likely to Succeed

PREPARING OUR KIDS FOR THE INNOVATION ERA

Tony Wagner

Bestselling author of CREATING INNOVATORS and THE GLOBAL ACHIEVEMENT GAP

Ted Dintersmith

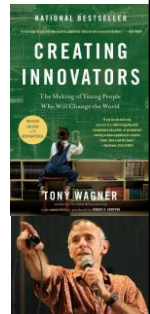


## Previous: Creating Innovators

Tony Wagner (2012)

<http://creatinginnovators.com/>

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





## 10. Creative Schools (2015): The Grassroots Revolution That's Transforming Education

Sir Ken Robinson

<http://sirkenrobinson.com/creative-schools-the-grassroots-revolution-thats-transforming-education/>



## Previous: 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



## 11. Bonus Book: The Hobbit: An Unexpected Journey



## Poll #7: What if you read these books?



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

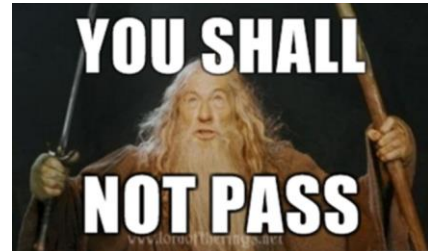




### From Instructor as Credit Manager and Course Lecturer...



### Poll #8: Do you really remember those days of the lecture?



### 1. Instructor as Concierge



### 2. Instructor as Consultant



### 3. Instructor as Conductor



### 5. Instructor as Curator





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



## 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/jashobh/launches?id=526...in...%26e>  
[https://m.facebook.com/story.php?story\\_fbid=10153960012315798&id=102527030797](https://m.facebook.com/story.php?story_fbid=10153960012315798&id=102527030797)  
<http://gadgets.ndtv.com/videos/freedom-251-launched-as-world-s-cheapest-smartphone-at-rs-251-40402>



**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-120786>

Smartphone separation anxiety: How bad is your nomophobia?

May 14, 2015 at 12:00 PM

It's weird being without a smartphone. It feels as if something is missing. That anxious feeling has a name -- nomophobia -- pre-mobile phone phobia and researchers have found a way to evaluate how severe a person's nomophobia really is.



Smartphone separation anxiety: How bad is your nomophobia?

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It's weird being without a smartphone. It feels as if something is missing. That anxious feeling has a name -- nomophobia -- pre-mobile phone phobia and researchers have found a way to evaluate how severe a person's nomophobia really is.





**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/1725093/smartphone-zombies-are-putting-your-life-and-their-danger>

**Beware the smartphone zombies blindly wandering around Hong Kong**

"Stranded walking" as the experts call it, is a growing consequence to the MTR and the streets of Hong Kong. Experience education where it can be deadly.

Mark Sharp

South China Morning Post



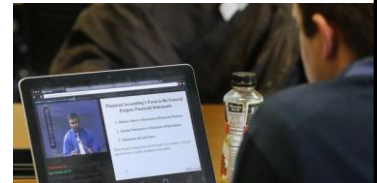
The MTR has warned that passengers checking their phones are endangering vehicles. It is a deadly consequence. This is a deadly consequence. This is a deadly consequence.

**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/131831/>



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 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>



**April 5, 2016**

## Association for the Advancement of Computing in Education (AACE), YouTube Channel

[https://www.youtube.com/channel/UCTB7tSqn11VhAdciWb\\_sl9g](https://www.youtube.com/channel/UCTB7tSqn11VhAdciWb_sl9g)



**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>





**October 16, 2013****V. Learning is More Touch Sensed**

Corporate Classrooms: Adapting to Change

Chief Learning Officer, Frank Kalman

<http://www.domeia.com/articles/corporate-classrooms-adapting-to-change>**March 2, 2016****VI. Learning is More Immersive**

10 AR/VR sets that take you to another world

USA Today, Marco della Cava

<http://www.usatoday.com/story/tech/news/2016/02/23/vr-what-gears-here-and-whats-coming/81112642>**April 28, 2016****VII. Learning also is More Collaborative**

Shindig, Video Chat Tool

Future Trends Forum (with Bryan Alexander)

<https://bryanalexander.org/>**April 12, 2016****VIII. Learning is More Social**

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

Natalie DiBlasio, USA Today

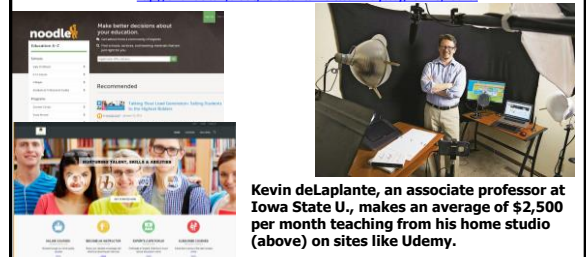
<http://www.usatoday.com/story/tech/news/2016/04/12/zuckerberg-criticizes-trump-call-border-wall-f8-conference/82940466>**May 7, 2015****IX. Learning is More Adventurous**

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/article/Here-Comes-Professor-Everybody/151445?cid=at>



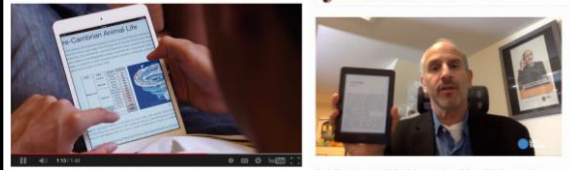
**January 26, 2016**  
**XI. Learning is More Synchronous**  
**Weekly Sync Guests in Zoom**

R511 Chat with Mike Molenda, IU  
 R511 Chat Charles Graham, BYU



**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/columnist/baig/2014/10/23/amazon-kindle-voyage-into-e-reader-luxury/7780252/>



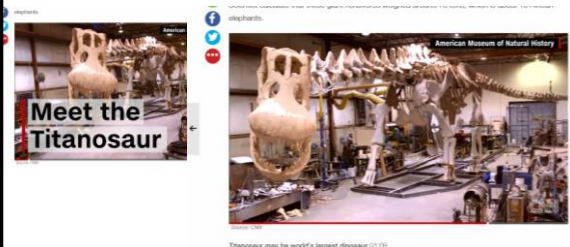
**January 20, 2016**  
**XIII. Learning is More Blended**  
**Universities tap growth of craft beer, offer classes, Chicago Tribune**

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



**January 14, 2016**  
**XIV. Learning is More Immediate**  
**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-1rst/>



**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.DC1>

PDF: [http://advances.sciencemag.org/content/advances/suppl/2016/05/10/2.5.e1600375.DC1/1600375\\_SM.pdf](http://advances.sciencemag.org/content/advances/suppl/2016/05/10/2.5.e1600375.DC1/1600375_SM.pdf)



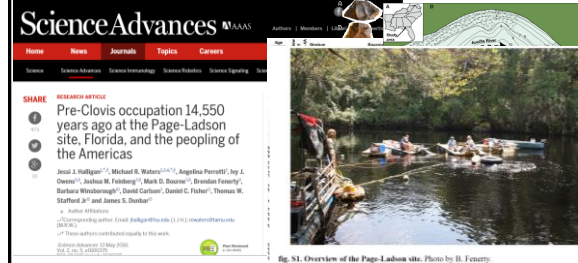
**May 13, 2016**  
**Pre-Clovis occupation 14,550 years ago at the Page-Ladson site, Florida, and the peopling of the Americas, Science Advances, Vol 2(5)**

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.DC1>

PDF: [http://advances.sciencemag.org/content/advances/suppl/2016/05/10/2.5.e1600375.DC1/1600375\\_SM.pdf](http://advances.sciencemag.org/content/advances/suppl/2016/05/10/2.5.e1600375.DC1/1600375_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 McMee, Inside Higher Ed

[https://www.insidehighered.com/news/2016/1/15/wikipedia-15th-anniversary?utm\\_source=insidehighered&utm\\_medium=email&utm\\_campaign=642a2898b-090220161115&utm\\_content=facebook&utm\\_term=.2132c0412c48a2898b-07726109](https://www.insidehighered.com/news/2016/1/15/wikipedia-15th-anniversary?utm_source=insidehighered&utm_medium=email&utm_campaign=642a2898b-090220161115&utm_content=facebook&utm_term=.2132c0412c48a2898b-07726109)



Wikipedia at 15



WIKIPEDIA 15

Celebrate or hate it as you will, writes Scott McMee, 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 McMee

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?cid=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/new-platform-challenges-conventional-mooc/article>



**February 2, 2015**

## XVIII. Learning is More Hands-On

Makey Makey and the Kano

<http://makeymakey.com/>

<https://vimeo.com/60307041>



**March 7, 2016**

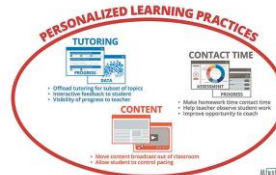
## XIX. Learning is More Personal

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 >



**April 30, 2014**

## XX. Learning is More Communal

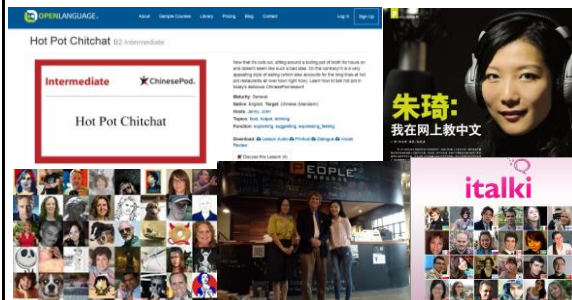
**New Learning Hubs Locations Hosted by The New York Public Library and Seven Other Int'l Partners, Coursera Learning Hubs**

<https://www.coursera.org/about/programs/learningHubs>  
<http://blog.coursera.org/post/84322385912/new-learning-hubs-locations-hosted-by-the-new-york>



## OpenLanguage

<http://openlanguage.com/lessons/278/learn-chinese/hot-pot-chitchat>  
(Jenny Zhu and John)



**February 2016**

## XXI. Learning is More Online

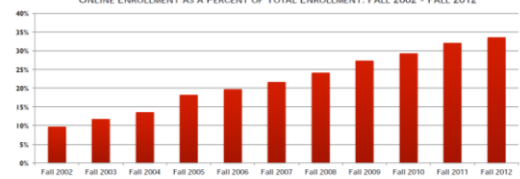
**Online Report Card – Tracking Online Education in the United States**

Babson Survey Research Group and co-sponsored by the Online Learning Consortium (OLC), Pearson, StudyPortals, WCET and Tyton Partners  
<http://onlinelearningconsortium.org/read/online-report-card-tracking-online-education-united-states-2015/>  
<http://onlinelearningconsortium.org/reports/online-report-card.pdf>

Enrollment of Students Taking At Least One Course at a Distance

Fall 2014

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?hpid=hp\\_12](http://money.cnn.com/2014/06/15/news/economy/starbucks-schultz-education/index.html?hpid=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

BY GREGORY WALLACE FOR CNN MONEY

PHOTO BY JEFFREY M. HARRIS FOR CNN MONEY



PHOTO BY JEFFREY M. HARRIS FOR CNN MONEY

Getting a College Degree, With Help From Starbucks

BY GREGORY WALLACE FOR CNN MONEY



PHOTO BY JEFFREY M. HARRIS FOR CNN MONEY

**November 18, 2015**

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





## October 30, 2015

### Migrants get help through German online university

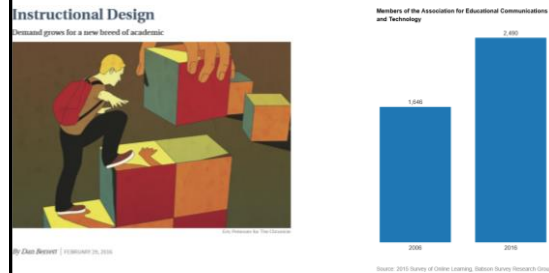
Mihret Yohannes and Jabeen Bhatti, Special for USA TODAY, USA Today  
<http://www.usatoday.com/story/news/world/2015/10/29/migrants-get-help-through-german-online-university/24472260/>  
 "Kiron (University) relies on existing "mass open online courses," or MOOCs, and works with eight academics from 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."



## February 29, 2016

### Instructional Design: Demand grows for a new breed of academic

The Chronicle of Higher Education, Dan Berrett  
<http://chronicle.com/article/Instructional-Design/235425>



## May 8, 2012

### XII. Learning is More Comfortable

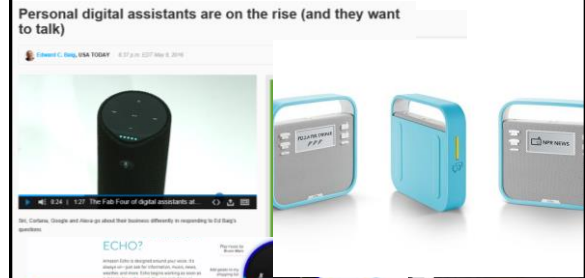
Design for Students, with Students, "Hub Central", the \$42 million University of Adelaide learning hub opened in October 2011, May 8, 2012, Mike Roberts  
<http://designbuildsource.com.au/design-for-students-with-students>



## 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  
<https://www.usatoday.com/story/tech/innovation/2016/05/11/google-echo-codename-chirp/84123244/>  
<http://www.usatoday.com/story/tech/news/2016/05/10/amazon-echo-sonos-alexa-voice-family/8211586/>



## April 13, 2016

### XIV. Learning is More Ubiquitous

#### Facebook debuts terrestrial tech to deliver Internet

Jessica Guynn, USA Today



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 (SOEs), 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)

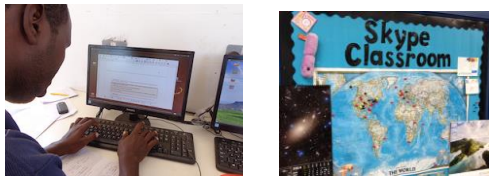


## May 26, 2015

### 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/>

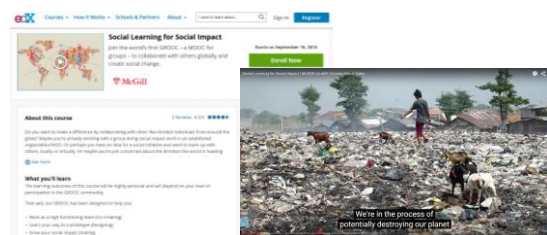


Two men living in Dadaab, a refugee camp in Kenya, would watch lecture videos and take online quizzes at a nearby United Nations compound. (InZone)

## 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-mgillitc-groocx>  
<https://www.youtube.com/watch?v=WNg-SLFAMdI>



## 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."

## January 13, 2016

### As an Open-Access Megajournal Cedes Some Ground, a Movement Gathers Steam

#### Paul Basken, Chronicle of Higher Education

<http://chronicle.com/article/As-an-Open-Access-Megajournal/234899/?cid=at>  
[http://www.ted.com/talks/paul\\_basken\\_why\\_open\\_access\\_matters.html](http://www.ted.com/talks/paul_basken_why_open_access_matters.html)

As an Open-Access Megajournal Cedes Some Ground, a Movement Gathers Steam

Open Access Makes Steady Gains

Year	All published research articles	Articles published in fully open-access journals	Percentage
2008	2,086,373	97,132	4.6%
2009	2,123,313	113,185	5.3%
2010	2,068,077	156,386	7.5%
2011	2,196,768	163,960	7.5%
2012	2,368,358	176,962	7.5%
2013	2,406,515	207,024	8.6%
2014	2,379,824	226,617	9.5%
2015	2,514,726	234,238	10%

Source: Thomson Reuters Web of Science database of scholarly journal articles. <http://dx.doi.org/10.1002/leap.1200>



## 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 "micro" online certification programs are changing the educational pathway to success in certain industries.

By John K. Waters | 08/05/15

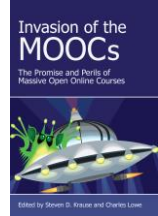


## September 2, 2014 XXX. Learning is More Massive Sample Course: Open Knowledge: Changing the Global Course of Learning

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

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

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



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

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

<http://classcentral.com/blog/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.

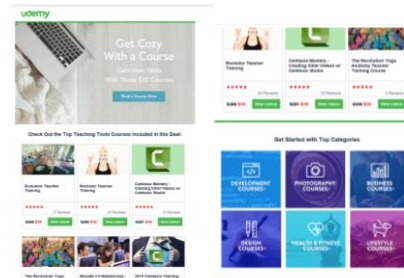


Source: Class Central [Get the data](#)



## January 20, 2016 Udemy: "Get cozy with a class"

[udemy@email.udemy.com](mailto:udemy@email.udemy.com)



## 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-mooc-and-online-education-is-exploding-heres-why/#290acda7709>

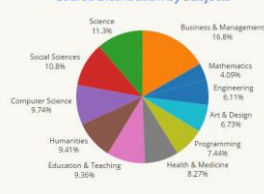
### Use Of MOOCs And Online Education Is Exploding: Here's Why



The folks at Class Central just released their data on the growth of online courses (MOOCs) in 2015 and the data is amazing. More than 35 million people have enrolled in online courses in the last four years, and 2015 enrollments doubled from 2014. (That's equal to one out of five working professionals in the U.S.)

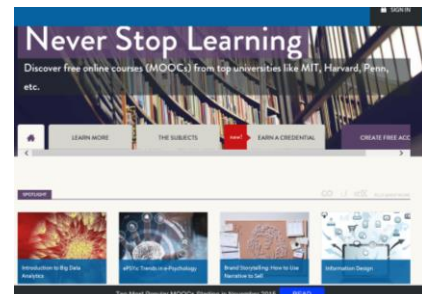
Today there are more than 4,000 MOOC courses available (many more if you include the corporate training programs from companies like Cisco, BigThink, Pluralsight, Lynda, Skillsoft, and Skillsoft). These academic-adjacent programs offer career advice, and are increasingly being used by businesses.

### Course Distribution by Subjects



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

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





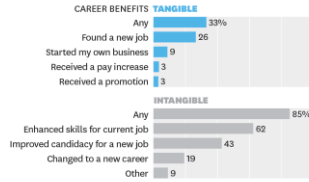
## September 22, 2015

### 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: COURSEWAVE SURVEY DATA

© 1000.000

**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/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 to 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

<https://blogs.worldbank.org/edutech/edtech-and-mooc-times-china>

### SPECIAL REPORTS learning world

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

By Sarah Chappell

REPORT BY SARAH CHAPPELL, EURO NEWS



**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

1 Share 1 Tweet 1 +1 0 1 Sound



The Chinese word for MOOC is...

**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?r=284759497](http://blogs.edweek.org/edweek/edtechresearcher/2015/05/in_china_where_everything_is_a_mooc.html?r=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."



## Things are heating up!

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



MOOCs and Open Education Around the Word

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/>



## 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 #9: 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)



**Activity #1:**

**What are 3 things that you  
learned?**



**Activity #2:**

**Share Three  
Words from this  
Session!**

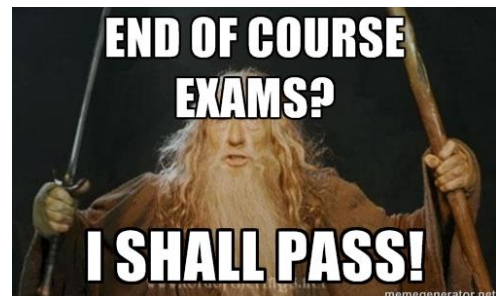


**3 3 3**



**Poll #10:**

**What happens next...?**



**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)

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

Email: [curt@worldisopen.com](mailto:curt@worldisopen.com)

