

## Learning is Changing:

A (TEC-) Variety of Strategies for the  
Open Educational World

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

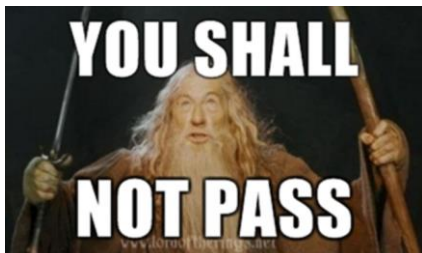


This is a new age of  
learning and instruction...!



## Poll #1:

Do you really remember those  
days of the lecture?



From Instructor as Credit Manager  
and Content Lecturer...to...



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



## Poll #2: Do you remember these computers from the 1980s?



## 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 us! Start learning and discover unique classes in your city

## 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...\\_tn\\_=%26e](https://m.facebook.com/hashtag/launched?refid=528..._tn_=%26e)  
[https://m.facebook.com/story.php?story\\_fbid=1015339600123157&id=102532930797](https://m.facebook.com/story.php?story_fbid=1015339600123157&id=102532930797)  
<http://gadgets.ndtv.com/videos/freedom-251-launched-as-world-s-cheapest-smartphone-at-rs-251-4048z>



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



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

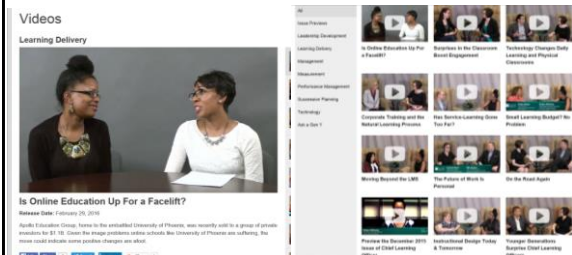
<http://sports.ndtv.com/golf/news/246551-shubham-jaglan-overwhelmed-by-dream-return-home-after-double-world-championship>  
<http://www.ndtv.com/video/player/news/india-s-golf-prodigy-shubham-jaglan-returns-home-to-hero-s-welcome/377844>



## 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

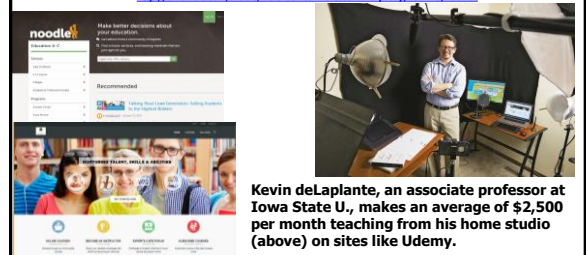
<http://www.usatoday.com/story/tech/news/2016/04/12/zuckerberg-criticizes-trump-call-border-wall-f8-conference/82940466>**May 7, 2015****IX. Learning is More Adventurous**

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>

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 Udemy.

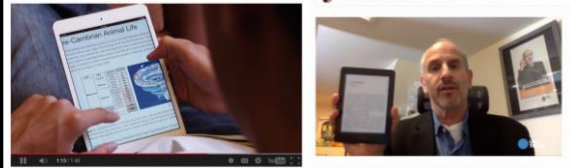
**January 26, 2016**  
**XI. Learning is More Synchronous**  
**Weekly Sync Guests in Zoom**

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/>



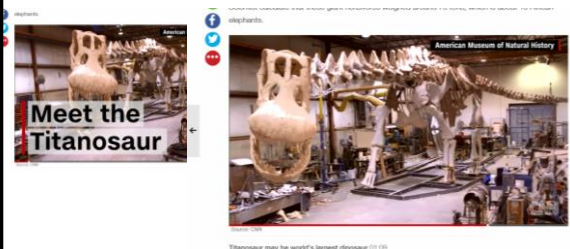
**January 20, 2016**  
**XIII. Learning is More Blended**  
**Universities tap growth of craft beer, offer classes, Chicago Tribune**

<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)



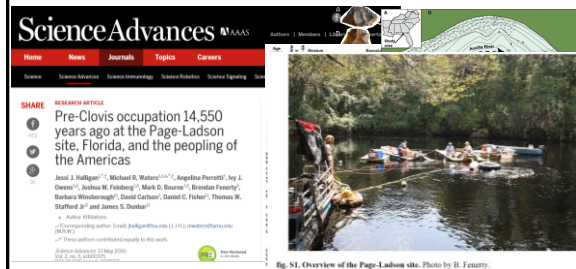
**May 13, 2016**  
**Pre-Clovis occupation 14,550 years ago at the Page-Ladson site, Florida, and the peopling of the Americas, Science Advances, Vol 2(5)**

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 McLeod, Inside Higher Ed

[http://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-17726104](http://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-17726104)



Wikipedia at 15



WIKIPEDIA 15

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

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

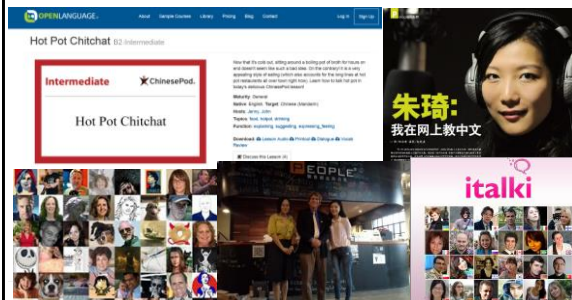
**New Learning Hubs Locations Hosted by The New York Public Library and Seven Other Int'l Partners, Coursera Learning Hubs**

<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

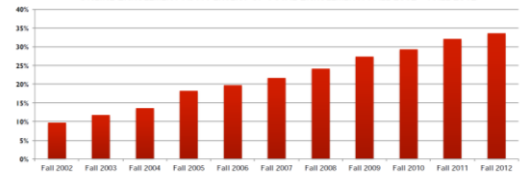
**Online Report Card – Tracking Online Education in the United States**

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: GETTY IMAGES

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Getting a College Degree, With Help From Starbucks

BY GREGORY WALLACE FOR CNN MONEY

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PHOTO: GETTY IMAGES

**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 Transmitter Collins

## October 30, 2015

### Migrants get help through German online university

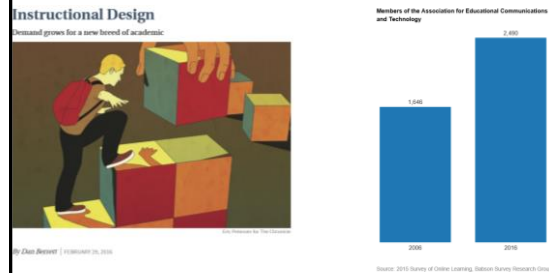
Mihret Yohannes and Jabeen Bhatti, Special for USA TODAY, USA Today  
<http://www.usatoday.com/story/news/world/2015/10/29/migrants-get-help-through-german-online-university/24472260/>  
 "Kiron (University) relies on existing "mass open online courses," or MOOCs, and works with eight academics from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

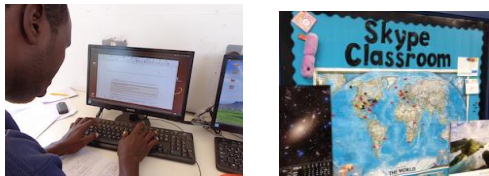


## May 26, 2015

### 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-mgilltc-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/234892?cid=at>  
<http://www.chronicle.com/article/As-an-Open-Access-Megajournal/234892?cid=at>

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	156,388	7.5%
2011	2,196,768	163,960	7.5%
2012	2,368,358	176,982	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 certificate programs are changing the educational pathway to success in certain industries.

By John K. Waters | 08/05/15



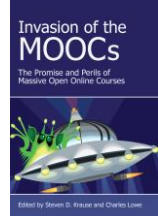
## September 2, 2014 XXX. Learning is More Massive Sample Course: Open Knowledge: Changing the Global Course of Learning

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)



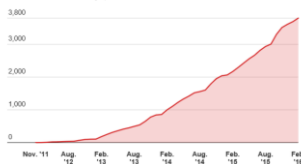
## State of the MOOC 2016: A Year of Massive Landscape Change For Massive Open Online Courses, Online Course Report

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

<http://chronicle.com/blogs/mooc/moocs-are-400-rising-at-least-in-october/236362>

### 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](#)



## 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/>

### The Career Benefits of MOOCs

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



SOURCE: COURSEVA SURVEY DATA



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## 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."



## 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."

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

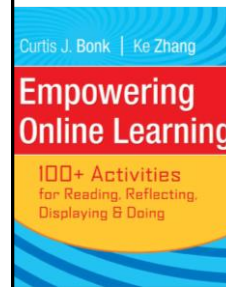
(South University of Science and Technology of China, Wednesday June 10, 2015)



## Poll #3: Question: Ok, what can you do?



## One Approach: The R2D2 Model



## The R2D2 Method

1. Read (Auditory and Verbal Learners)
2. Reflect (Reflective Learners)
3. Display (Visual Learners)
4. Do (Tactile, Kinesthetic, Exploratory Learners)



## 1. Auditory or Verbal Learners

- Auditory and verbal learners prefer words, spoken or written explanations.



## Read 1A. Grammer Checkers (e.g., Grammarly, Ginger, GrammarCheck, PaperRater, and SpellCheckPlus)

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



## 2. Reflective and Observational Learners

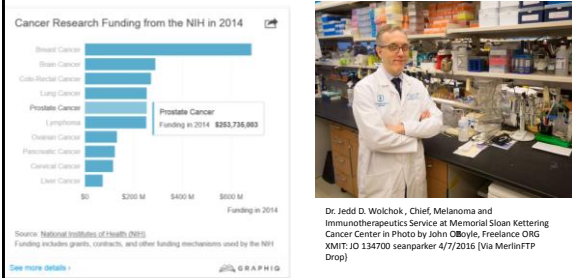
- Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives



## April 13, 2016 Reflect 2A. Interactive Graphs

Tech billionaire announces \$250 million in cancer immunotherapy funding,  
Jayne O'Donnell, USA Today

<http://www.usatoday.com/story/news/2016/04/13/billionaire-announces-250-million-cancer-immunotherapy-funding/82821198/>



## August 5, 2015 Read 2B. More Interpreting Infographics

How much rainforest in that chocolate bar?  
Global Forest Watch, Nancy Harris, Octavia Payne and Sarah Mann

<http://blog.globalforestwatch.org/2015/08/how-much-rainforest-is-in-that-chocolate-bar/>



## 3. Visual Learners

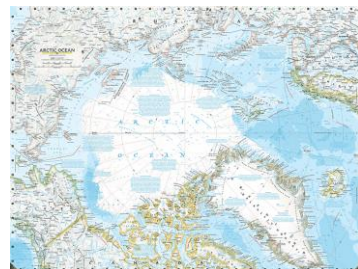
- Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.



## Display 3A. Map Animations Yes, Mr. President, We Remade Our Atlas to Reflect Shrinking Ice

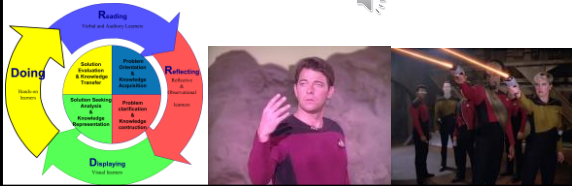
Christine Dell'Amore, National Geographic, August 3, 2015

<http://www.nationalgeographic.com/science/2015/08/03/yes-mr-president-we-remade-our-atlas-to-reflect-shrinking-ice/>



#### 4. Tactile/Kinesthetic Learners

- Tactile/kinesthetic senses can be engaged in the learning process are role play, dramatization, cooperative games, simulations, creative movement and dance, multi-sensory activities, manipulatives and hands-on projects.



**December 8, 2015**

#### Do 4A. Student Final Project Videos

P540 Final Assignment: Learning Theories and Psychotherapy ,  
Shu-Yi Wang

<https://www.youtube.com/watch?v=PNMpGinXAJM>



**March 12, 2016**

#### Do 4B. Timeline

R678 John Falchi, Timeglider, An Abbreviated History of  
Distance Education

[http://timeglider.com/?/50843d8903a48008?min\\_zoom=18max\\_zoom=100](http://timeglider.com/?/50843d8903a48008?min_zoom=18max_zoom=100)

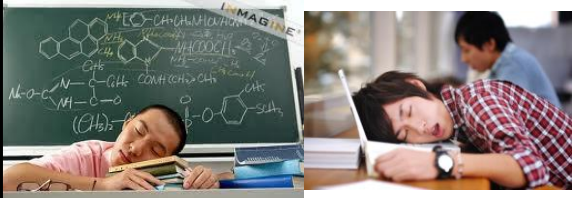


#### Poll #4:

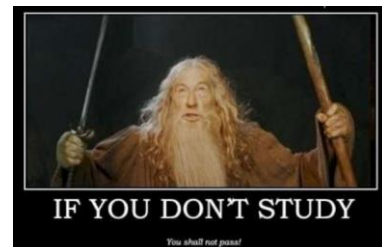
**Any ideas so far?**



#### Needed: New Models of Motivation and Engagement



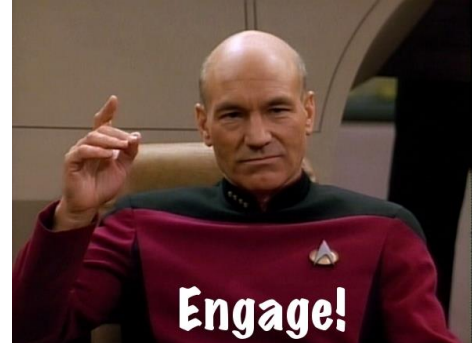
#### Poll #5: Do you know what happens to sleeping students?



## This Generation of Students



## What works today?



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

Daniel Pink (2009)

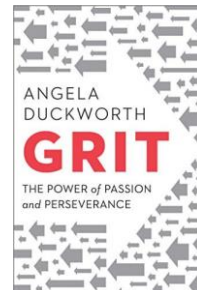
Pinkcast 2.

Advice from Adam Grant: Look for "disagreeable givers"



### 2. Grit: The Power of Passion and Perseverance

Angela Duckworth (2016)



### Poll #6: Million Dollar Question: What words come to mind when I say that I want to motivate learners?



### 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

## Introducing the free "TEC-VARIETY" Framework...

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



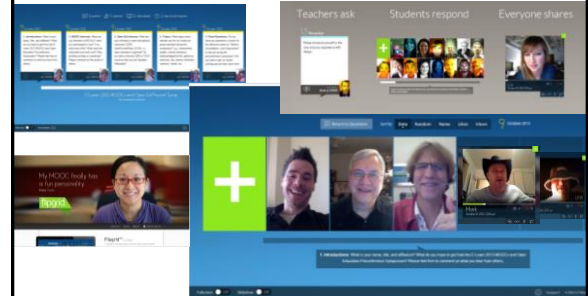
## 在线学习动机与激励: TEC-VARIETY 模型

——激励和留住在线学习者的 100 个活动

作者: Curtis J Bonk & Elaine Khoo IU

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

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



## 2. Encouragement, Feedback, etc.: A. Instructor Course Introductions

(Theatre 10 Intro Video, October 7, 2014, Elizabeth Dale, West Valley College)

<https://www.youtube.com/watch?v=Wzbzc3QiiA>

Chuck Severance, U Michigan/Coursera) in Barcelona

<http://www.youtube.com/watch?v=JzNHvmSv8TI>

Chuck Severance, University of Michigan

<https://www.coursera.org/course/pythonlearn>



April 1, 2016

## 3. Curiosity, Fun:

### A. Something in the News (e.g., Potential Vikings site in North America spotted from space, Jareen Inman, CNN)

<http://www.cnn.com/2016/04/01/world/vikings-site-space-1rst/index.html>



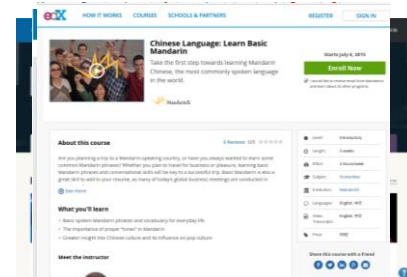
## 4. Variety, Novelty, Fun, Fantasy: A. Voice/Audio Feedback

Vocaroo: <http://vocaroo.com/>

<http://vocaroo.com/delete/s0x8moQAYAi/a37bbc9408bb8c95>  
 (Recorded by Curt Bonk for the Open University of China)



## 5. Autonomy, Choice: A. Enroll in a MOOC and Reflect (e.g., see Class Central)



## 6. Relevance, Meaningfulness:

### A. Guest Chats (e.g., Emily Hixon, January 20, 2015)

<https://connect.iu.edu/p259wpiabg9/>



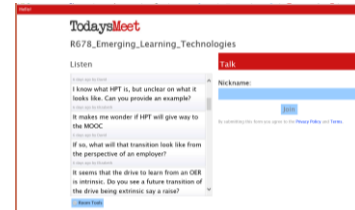
## 7. Interactive, Collaborative:

### A. Backchannel Chat (TodaysMeet)

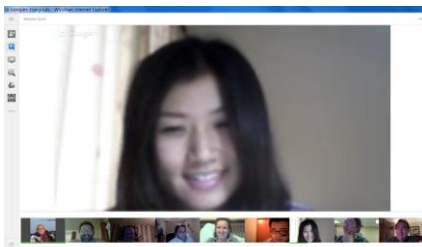
<https://todaysmeet.com/>

R678\_Emerging\_Learning\_Technologies

[https://todaysmeet.com/R678\\_Emerging\\_Learning\\_Technologies](https://todaysmeet.com/R678_Emerging_Learning_Technologies)



## 7. Interactive, Collaborative: A. Optional Sync Chats



## 8. Engagement, Effort:

### A. Interactive Timeline Maps,

**October 22, 2014**, Second immigration wave lifts diversity to record high, Edward Greg Toppo and Paul Overberg, USA Today

<http://www.usatoday.com/story/nation/2014/10/22/second-immigration-wave-lifts-diversity-to-record-high/184118>

Rising diversity, state by state

The USA TODAY Diversity Index shows on a scale from 0-100 the chance that two random people are different by race and ethnicity.



Source USA TODAY analysis by Paul Overberg of data from Census Bureau, NHGIS at University of Minnesota and ProximityOne Frank Pompa, USA TODAY

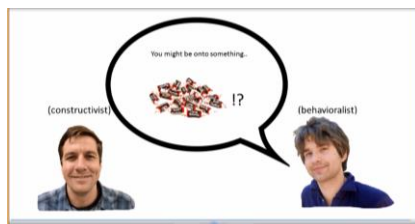
**March 13, 2015**

## 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 Videos

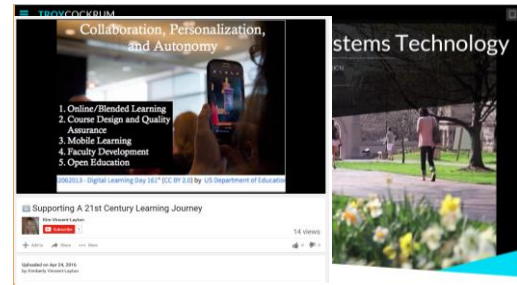
Piercarlo Abate: <http://www.youtube.com/watch?v=-TURzh00aU>

Qi Li, Gangnam: <http://www.youtube.com/watch?v=YQ428opZaU&feature=youtu.be>

Miguel Lara (Web 2.0 FREEDOM): <http://www.youtube.com/watch?v=8cmCFW9iW8>

Kendal Rasnake (Is IT Right For You?): <https://www.youtube.com/watch?v=M3GUDICIGw>

Ronit Vincent-Laplanche: <https://www.youtube.com/watch?v=8G38...>



## 10. Yields Products, Goals: B. Collection Tools

Design Article Database in Pinterest, Meina Zhu  
<https://www.pinterest.com/zhumeina0000/r-678-emerging-learning-technology/>



## Poll #7: Which do you prefer... (A) TEC-VARIETY or (B) R2D2?



What motivates?

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



## Activity #2: Share Three Words from this Session!

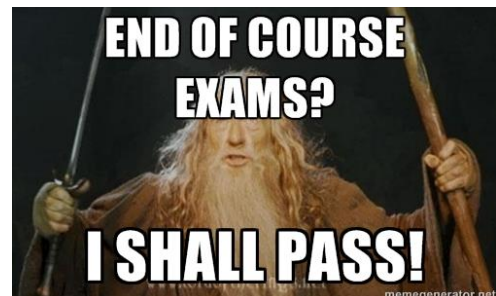


3 3 3



## Poll #8:

What happens next...?



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

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



**Remember:**

Slides at: [TrainingShare.com](http://TrainingShare.com)  
 Papers: [PublicationShare.com](http://PublicationShare.com)  
 Book: <http://tec-variety.com/>  
 Dr. Curt Bonk – [CJBonk@Indiana.edu](mailto:CJBonk@Indiana.edu)

