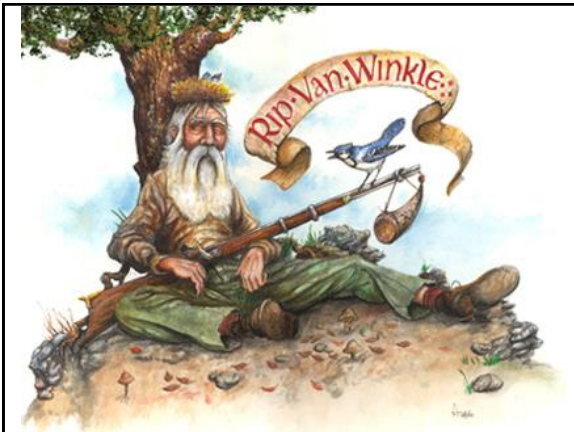


## Living in Tech City: 50+ Technology Trends and Innovations Transforming Workplace Learning, Education, and Our Lives

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

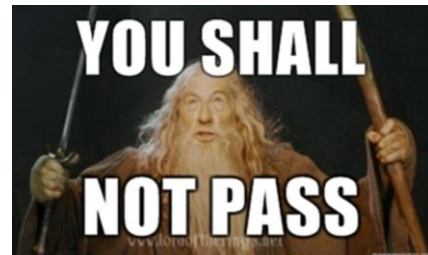


## (Circa Confucius 551–479 BCE)



## Poll #1:

**Do you really remember those days of the lecture?**



## Audience Poll #2:

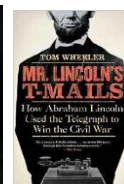
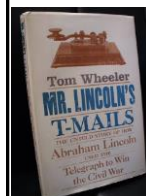
**Has learning technology ever transformed your life?**



## 1862-1864 The Telegraph

Mr. Lincoln's T-Mails: How Abraham Lincoln Used the Telegraph to Win the Civil War, Tom Wheeler (2008).

<http://www.amazon.com/Mr-Lincolns-T-Mails-Abraham-Telegraph/dp/0061129801>



**January 25, 1915**

## How about the Transcontinental Telephone?

AT&T President Theodore Vail (with telephone) joined the opening ceremony for the first transcontinental telephone line from his home in Jekyll Island, Ga. (with Alexander Graham Bell in New York)

<http://www.jekyllislandhistory.com/transcontinental.shtml>  
<https://hiightechistory.com/2011/01/23/10m-ws-the-master-switch-at-the-berkman-center-harvard-law-school/>



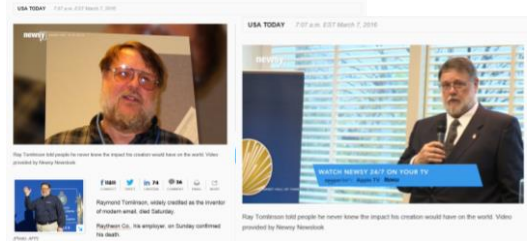
**1971**

## How about email?

**Raymond Tomlinson, inventor of modern email, dies, USA Today (March 7, 2016)**

<http://www.usatoday.com/story/tech/2016/03/07/tomlinson-inventor-modern-email-dies/81413414/>

Raymond Tomlinson, inventor of modern email, dies



## November 7, 2014 The Problem with Learning Technology

Karen Wilcox, Chronicle of Higher Education

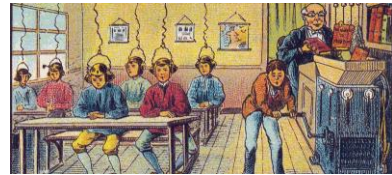
<https://chronicle.com/article/2014-the-problem-with-learning-technology/2014-11-07>



## October 21, 2014 Teaching and the University of Tomorrow.

Chronicle of Higher Education, Kelly J. Baker

[https://chronicle.com/news/788-teaching-and-the-university-of-tomorrow/id=article\\_source=chronicle\\_medium](https://chronicle.com/news/788-teaching-and-the-university-of-tomorrow/id=article_source=chronicle_medium)



*Image: France in 2000 year (XXI century). Future school. From a postcard by Villemard, 1910.*

## Poll #3: Read any good books lately?

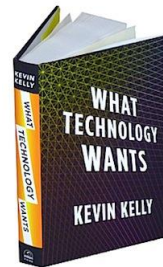


## 1. What Technology Wants

Viking

Kevin Kelly (co-founder of Wired) (2010)

<https://www.amazon.com/What-Technology-Wants-Kevin-Kelly-ebook/dp/B0043EY51W>



## 2. The Master Switch

The Rise and Fall of Information Systems  
Knopf: New York  
Tim Wu (2010)

<http://www.amazon.com/Master-Switch-Rise-Information-Empires/dp/0307290993>



## 3. The Innovators:

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

Walter Isaacson (2014)

<http://books.simonandschuster.com/The-Innovators/Walter-Isaacson/9781475708690>



## 4. Humans are Underrated:

What High Achievers Know that Brilliant  
Machines Never Will Know. Portfolio/Penguin.  
Geoff Colvin (2015)

<http://geoffcolvin.com/books/humans-are-underrated/>



## 5. Machines of Loving Grace:

The Quest for Common Ground Between  
Humans and Robots. HarperCollins.  
John Markoff (2015)

<http://www.amazon.com/Machines-Loving-Grace-Common-Between/dp/0062266683>



## Poll #4:

What if you read these books?



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



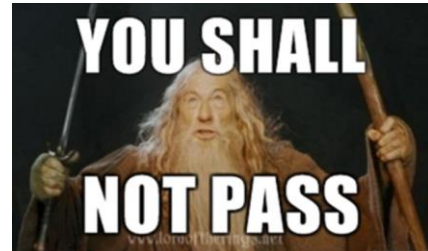


**Poll #5:**

**Remember what technology  
you used to own?**

**Poll #6:**

**Do you really remember  
Educational Technology 1.0???**

**Fast Forward 30+ Years...**

**"Anyone can now learn  
anything from anyone at any  
time."**

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

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

**Thirty-Five 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**



## April 9, 2015

### I'll Buy the Apple Watch

Ed Baig, USA Today



## February 17, 2016

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

[https://m.facebook.com/hashtag/launched?refid=528...&\\_tn=%2A&https://m.facebook.com/story.php?story\\_fbid=1015339601231579&id=102527030797](https://m.facebook.com/hashtag/launched?refid=528...&_tn=%2A&https://m.facebook.com/story.php?story_fbid=1015339601231579&id=102527030797)  
<http://gadgets.ndtv.com/videos/freedom-251-launched-as-world-s-cheapest-smartphone-at-rs-251-904882>



## May 14, 2015

### Smartphone separation anxiety: How bad is your nomophobia?

Today Health, Meghan Holohan



## March 2, 2015

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

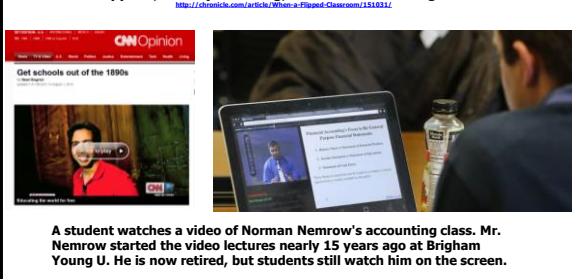
<http://www.scmp.com/lifestyle/technology/article/1723001/smartphone-zombies-are-putting-your-life-and-theirs-danger>



## 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



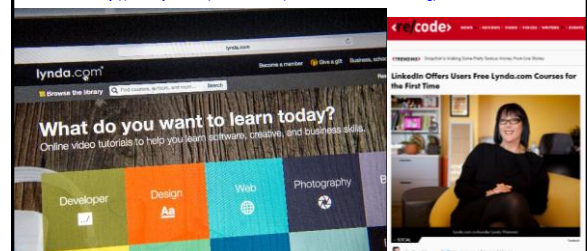
A student watches a video of Norman Nemrow's accounting class. Mr. Nemrow started the video lectures nearly 15 years ago at Brigham Young U. He is now retired, but students still watch him on the screen.

## 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**

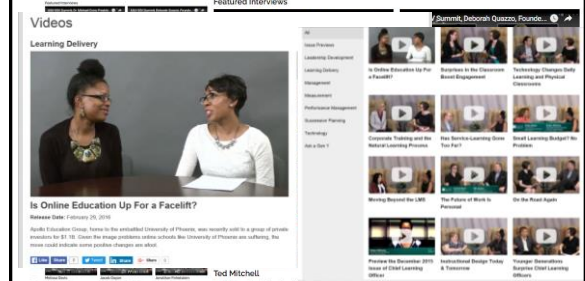
**Shubham Jaglan Overwhelmed by "Dream" Return Home After Double World Championship**  
**Disha Chopra, NDTV Sports**

<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-here-s-welcome/377314>



**April 5, 2016**

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



**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**

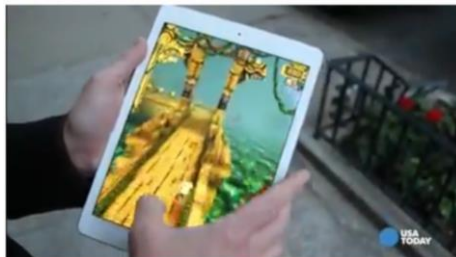
<http://www.clomedia.com/articles/corporate-classrooms-adapting-to-change>



**October 21, 2014**

**VI. Learning is More Game-Based**  
**Sexy iPad Air 2 is fabulous but not a must upgrade, Edward Baig, USA Today**

<http://www.usatoday.com/story/tech/columnist/baig/2014/10/21/ipad-air-2-tablet-is-not-must-upgrade/12588285/>



**April 2, 2015**

**VII. 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/79727752/>



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.



## March 2, 2016

### 10 AR/VR sets that take you to another world

USA Today, Marco della Cava

<http://www.usatoday.com/story/tech/news/2016/02/23/10-ar-vr-sets-that-take-you-to-another-world/81112842/>



Samsung Gear VR offers a virtual reality experience anchored to an Android smartphone.

## February 23, 2016

### A look at the Mobile World Congress in Barcelona, USA Today

People react as they use the new Samsung Gear 360, a 360-degree camera, at the Mobile World Congress wireless show in Barcelona on Feb. 22, 2016.

Visitors test the "Oculus VR" virtual device, at the stand of SK Telecom during the Mobile World Congress in Barcelona. <http://www.usatoday.com/picture-gallery/tech/2016/02/22/a-look-at-the-mobile-world-congress-in-barcelona/80737870/>



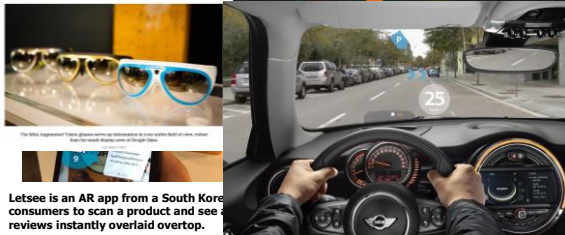
## June 10, 2015

### VIII. Learning is More Augmented

#### Augmented reality promises 'superpowers', and people are listening

The USA Today, Marco della Cava

<http://www.usatoday.com/story/tech/2015/06/09/tech-expo-spotlights-ar-augmented-reality/28724693/>



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

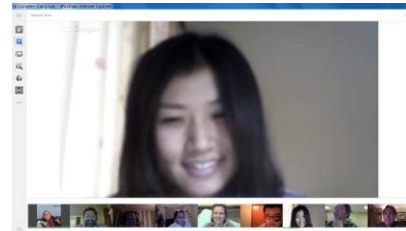
## March 26, 2014

### IX. 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

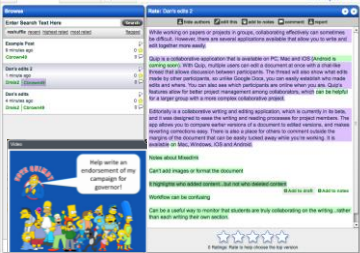


## October 7, 2013

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

MeetingWords, Google Docs, NowComment, MixedInk

[http://www.mixedink.com/#/\\_how\\_it\\_works](http://www.mixedink.com/#/_how_it_works)



## September 1, 2015

### X. Learning is More Social

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

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



## XI. Learning is More Adventurous



**May 7, 2015**

## XI. Learning is More Adventurous

**Aaron Doering, Chasing Seals, TEDx**  
<http://chasingseals.com/>  
<https://twitter.com/chasingseals>



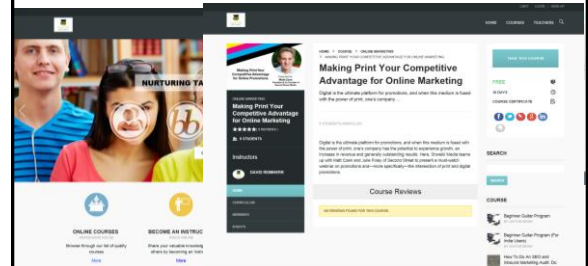
## XII. Learning is More Direct from Experts



**February 2, 2015**

## XII. 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-April, 2016 (Zoom)

## XIII. Learning is More Synchronous

### Weekly Guest Expert Chats

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



## Guest Chats with Former Students

### (in Adobe Connect)

(e.g., Minyoung Doo, Spring 2015)  
<https://connect.iu.edu/p259wpiabg9/>





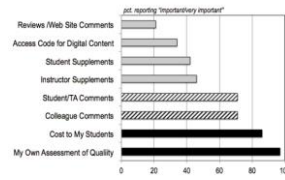
## February 21, 2016

### XIV. Learning is More Digital

#### No Rush to 'Go Digital', Carl Straumsheim, Inside Higher Ed



What Factors Influence Faculty Decisions About Course Materials?



March 22, 2015

## XV. Learning is More Immediate and Resource Rich

### Madagascar marvel:

Divers find fossils of extinct giant lemurs  
Daisy Carrington, for CNN, March 22, 2015

<http://www.cnn.com/2015/03/19/africa/underwater-fossil-lemur-graveyard-madagascar/index.html>



May 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

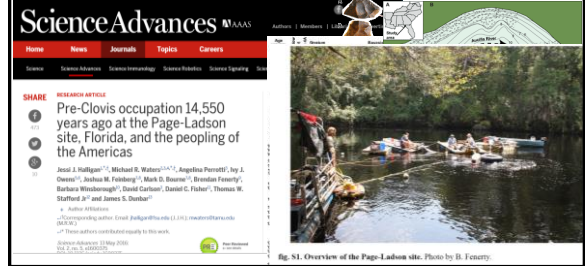
## Pre-Clovis occupation 14,550 years ago at the Page-Ladson site, Florida, and the peopling of the Americas, Science Advances, Vol 2(5)

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)



November 19, 2015

## New Species in the News...!

### New daddy longlegs named after 'Lord of the Rings'



June 29, 2015

## XVI. 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/>



**May 10, 2016**

**XVII. Learning is More Competency-Based**  
**Developing a Flexible Degree**  
**Cathy Sandeen, Inside Higher Ed**

<http://chronicle.com/article/College-On-Your-Own/147609/7cid=at>

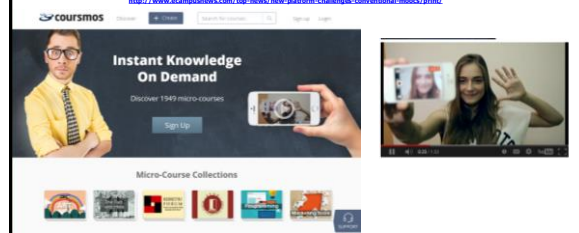


College, on Your Own: Competency-based education can help motivated students.  
 Nichele Pollock, a student in Northern Arizona U.'s competency-based bachelor's-degree program, takes a Spanish exam online.



**May 5, 2014**

**XVIII. Learning is More On Demand**  
**Mobile MOOCs: New platform challenges conventional MOOCs**  
**eCampus News (<https://coursmos.com/>)**



**February 2, 2015**

**XIX. Learning is More Hands-On**  
**Makey Makey and the Kano**  
<http://makeymakey.com/>  
<https://vimeo.com/60307041>



**January 15, 2016**

**XX. Learning is More Participatory**  
**Wikipedia at 15**  
**Scott McLemee, Inside Higher Ed**

[https://www.insidehighered.com/news/2016/1/15/makey-wikipedia-fifteenth-anniversary?utm\\_source=inside+higher+education\\_campaign=44b248982-0002316011&utm\\_medium=news&utm\\_term=.115c06412-44b248982-157362401](https://www.insidehighered.com/news/2016/1/15/makey-wikipedia-fifteenth-anniversary?utm_source=inside+higher+education_campaign=44b248982-0002316011&utm_medium=news&utm_term=.115c06412-44b248982-157362401)



**March 2, 2016**

**XXI. Learning is More Personal**  
**Florida lawmakers push personalized learning**  
**Leslie Postal, Orlando Sentinel (eSchool News)**

<http://www.orlandosentinel.com/news/education/ok-competency-based-education-for-16-like-schultz-20160211-story.html>



**Learning is More Personal**  
**Localization and Translation of Open Content**  
**Coursera, Global Translator Community, Chronicle of Higher Education**

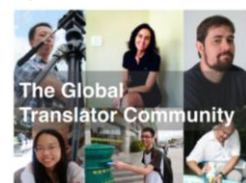
<https://www.coursera.org/about/translate>

**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**

## XXII. 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>



**April 28, 2016**

## Communities Shindig, Video Chat Tool

Future Trends Forum (with Bryan Alexander)

<https://bryanalexander.org/>



**June 15, 2014**

## XXIII. 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>



**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/74472260/>  
 "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."

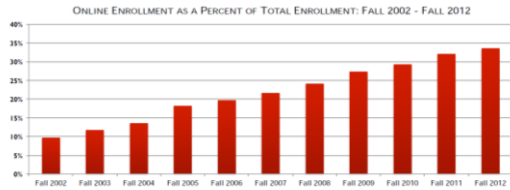




**February 5, 2015****Learning is More Online****2014 Survey of Online Learning**

Grade Level: Tracking Online Education in the United States, 2014, Online Learning Consortium (formerly Sloan-C), by I. Elaine Allen and Jeff Seaman

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

**February 29, 2016****Instructional Design:****Demand grows for a new breed of academic**

Chronicle of Higher Education, Dann Berrett  
<http://chronicle.com/article/Instructional-Design/235425>  
<http://chronicle.com/article/This-Trend-Report-Is-Key-Shifts-in-Higher-Education>  
<http://chronicle.com/article/Chronicle/This-Trend-Report-Is-Key/23>

**Instructional Design**

Demand grows for a new breed of academic

**Succeeding by Design**

As colleges and more universities move online courses, more students are taking them, and the value of instructional design is growing.



Percentage of college students taking at least one online course



By Dann Berrett | 11 FEBRUARY 2016

**January 20, 2016****XXIV. 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>



Universities tap growth of craft beer, offer classes

**February 22, 2013****XV. Learning is More Modifiable**

Inside Look: Learning Spaces, Meeting classroom teaching and collaboration expectations, University Business  
<http://www.universitybusiness.com/article/inside-look-learning-spaces>

**May 8, 2012****XVI. Learning is More Comfortable**

Design for Students, with Students, "Hub Central", the \$42 million University of Adelaide learning hub opened in October 2011, Mike Roberts

<http://designbuildsource.com.au/design-for-students-with-students>

**April 13, 2016****XVII. 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-fb-internet-connectivity-terragraph-project/article/82858846/>



Terragraph places s stops and the like at speed Internet to d



**April 9, 2013****XVIII. Learning is More Instantaneous**

HER Computer fashions face social test: Can wearable computers fit in? Scott Martin, USA Today  
<http://www.fox.com/mobilehealthcare.com/story/google-glasses-could-have-strong-potential-healthcare-use/2013-03-18>  
 (i.e., magnify moles or injuries, see vital signs, live stream surgeries, access previous PT sessions, access research and drug info, etc.)

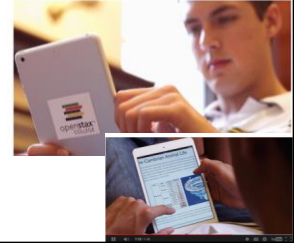
**August 5, 2014****XXIX. Learning is More Free**

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



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



**The V-PORTAL (Bonk, IU)**  
 "Video Primers in an Online Repository for e-Teaching and Learning" V-PORTAL, TravelinEdMan (27 free/open YouTube videos)  
<http://www.youtube.com/user/TravelinEdMan>



**Want something FREE?**  
 Introducing the "TEC-VARIETY" book...



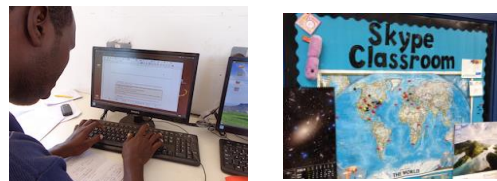
**February 2013**  
**XXX. Learning is More Self-Directed**  
**TED Talks**

(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)



**May 26, 2015**  
**XXXI. 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)

**April 20, 2015****XXXII. Learning is More Open****250 MOOCs and Counting: One Man's Educational Journey, Chronicle of Higher Education**

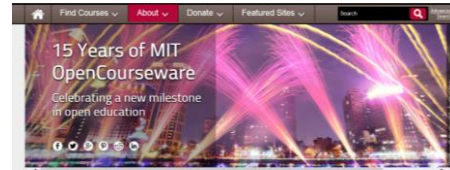
<http://chronicle.com/article/250-MOOCsCounting-One/229397/?cid=at>  
 If the MOOC movement has faded, nobody told Jima Ngei. Mr. Ngei, who lives in Port Harcourt, Nigeria, has completed and passed 250.



**Jima Ngei: "I had this unrelenting fear that this miracle of free access might evaporate soon."**

**February 24, 2016****MIT OpenCourseWare**

<http://ocw.mit.edu/about/15-years/>

**About OpenCourseWare**

MIT OpenCourseWare is a free and open publication of material from thousands of MIT courses, covering the entire MIT curriculum and used by millions of learners and educators around the world.

[READ MORE](#)

**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/234880/?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 format	Percentage
2008	2,086,373	87,132	4.2%
2009	2,153,213	112,155	5.2%
2010	2,086,977	135,588	6.5%
2011	2,196,708	153,965	7.0%
2012	2,308,366	176,862	7.7%
2013	2,450,515	207,024	8.4%
2014	2,376,854	226,617	9.5%
2015	2,014,726	224,238	11.1%

Source: Thomson Reuters Web of Science database of scientific journal articles. [Get the data](#)

**March 14, 2016****XXXIII. Learning is More Modular**

**How Nanodegrees Are Disrupting Higher Education**

**John Waters, Campus Technology**

<http://campustechnology.com/articles/2015/09/05/how-nanodegrees-are-disrupting-higher-education.aspx>

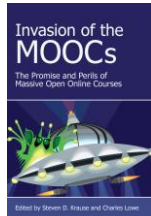
**How Nanodegrees Are Disrupting Higher Education**

New "micro" online certification programs are changing the educational pathways in various industries.

By John K. Waters - 06/02/15

**September 2, 2014****XXXIV. Learning is More Massive****UPenn**

Softcover (\$30): [http://www.palgrave.com/invasion\\_of\\_the\\_moocs](http://www.palgrave.com/invasion_of_the_moocs)  
 Free (PDF): [http://www.palgrave.com/pdf/invasion\\_of\\_the\\_moocs.pdf](http://www.palgrave.com/pdf/invasion_of_the_moocs.pdf)

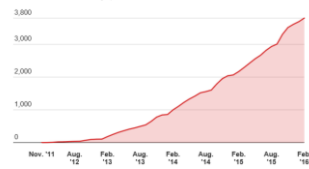


**State of the MOOC 2016:  
 A Year of Massive Landscape Change  
 For Massive Open Online Courses,  
 Online Course Report**

<http://www.andersonreport.com/state-of-the-mooc-2016-a-year-of-massive-landscape-change-for-massive-open-online-courses/>  
<http://chronicle.com/press/2016/09/05/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: Canvas LMS [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/#290acdd47f99>

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

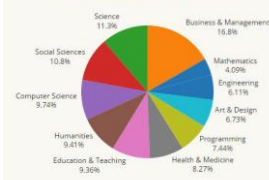


The folks at Class Central just released their data on the growth of online courses (MOOCs) in 2015 and the data is amazing.

More than 25 million people have enrolled in online courses in the last five 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 4,000 MOOC courses available (many more if you include the corporate training programs from companies like IBM, BigThink, Pluralsight, Lynda, Coursera, and Udacity). These academic-oriented programs attract serious learners, and are considered the only serious learners.

Course Distribution by Subjects



## Global Health Initiatives October 7, 2014

Online Moco courses deliver Ebola health advice, BBC News, Sean Coughlan

<http://www.bbc.com/news/education-29521360>

<http://www.advancelearning.com/why-wait-for-others-to-fight-ebola>

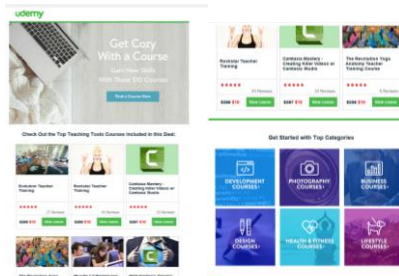


WHY WAIT FOR OTHERS TO FIGHT EBOLA?

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

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

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



## October 7, 2015

MIT Master's Program to Use MOOCs as 'Admissions Test'

Jeffrey R. Young, Chronicle of Higher Education

<http://chronicle.com/article/MIT-Master-s-Program-to-Use-MOOCs-as-Admissions-Test/23305>

THE CHRONICLE OF HIGHER EDUCATION

MIT Master's Program to Use MOOCs as 'Admissions Test'

By Jeffrey R. Young | OCTOBER 7, 2015



## May 26, 2015 Edtech and MOOC Times in China

Michael Trucano On Tue, 05/12/2015, EduTech

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



## June 26, 2015

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

[http://blogs.edweek.org/edweek/edtechresearcher/2015/05/in\\_china\\_where\\_everything\\_is\\_a\\_mooc.html?i=284759497](http://blogs.edweek.org/edweek/edtechresearcher/2015/05/in_china_where_everything_is_a_mooc.html?i=284759497)

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



**May 11, 2016**

## XXXV. 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/columnists/weise/2016/05/05/echo-chirp-think-they-have-amazons-alexa/84133244/>  
<http://www.usatoday.com/story/tech/news/2016/05/10/smartphones-amazon-echo-iphone-android-southbe-family/82719586/>

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



## 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)



## Things are heating up!

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



MOOCs and Open Education Around the Word

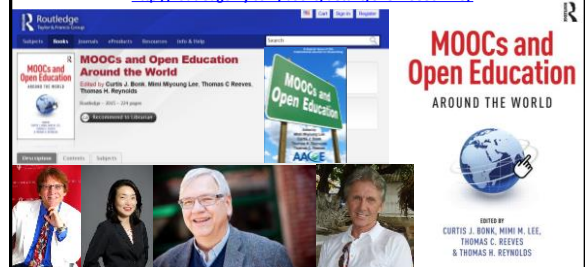
By Bonk, Lee, Reeves, & Reynolds

## Things are heating up!



## Bonk Raffle...Book Raffle: MOOCs and Open Education Around the World

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

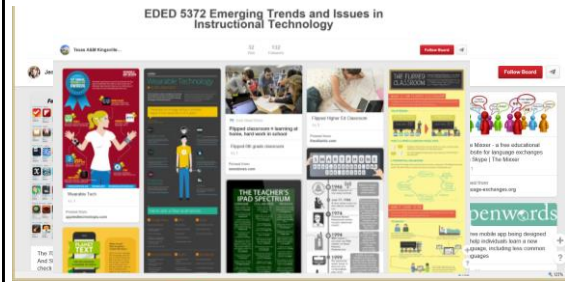




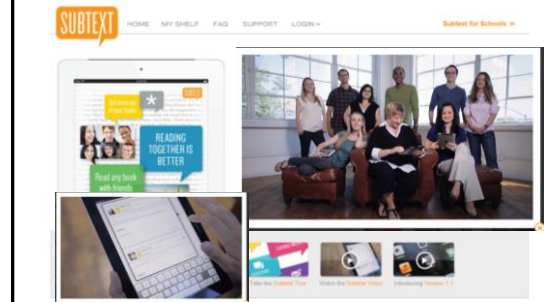


## Tech #41. Social Media Tools

**Design Article Database in Pinterest, Jenny Webeck**  
<https://www.pinterest.com/jennifertwebeck/emerging-learning-technologies/>



**Tech #42. Social Books**  
(e.g., Subtext; <http://subtext.com/>)



## Tech #43.

### Goals Setting Tools

(e.g., I Done This, Milestone Planner, and 43 Things)



43 Things is the world's largest goal-setting community. People here want to:

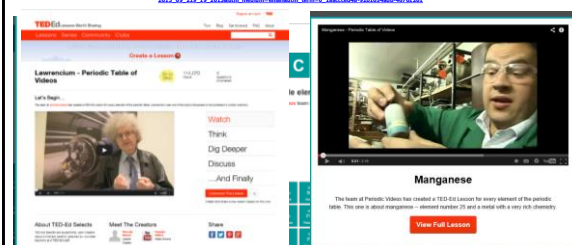
work because I like to, not because I have to • gain one good habit every week • Design my own future

**February 21, 2016**  
**Tech #44. Focusing Technology**  
 (e.g., "Stop Procrastinating", SelfControl, FocusWriter, Freedom, Concentrate, etc.)

<http://www.stopprocrastinatingapp.com/>  
<http://www.ecampusnews.com/top-news/apps-media-distractions-947/>



**November 1, 2014**  
**Tech #45. TEDEd**  
 lesson about every single element on the  
 periodic table



### **Tech #46.** **Video Editing and Commenting Tools** (e.g., TubeChop)

## How Does It Work?

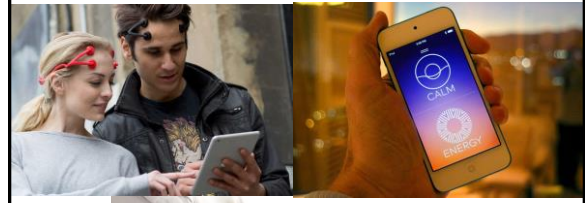


1. Find the video you want to chop.
2. Select & cut interesting part of the video.
3. Share it with friends.

**Watch Examples**

**Tech #47.****Mobile Health (bio sensors)**

7 new smartphone features that will help define your future

**February 23, 2014, Stewart Wolpin, CNN**[http://www.cnn.com/2014/02/23/business/future-smartphone-mobile-world-congress/index.html?hpt=hp\\_t3](http://www.cnn.com/2014/02/23/business/future-smartphone-mobile-world-congress/index.html?hpt=hp_t3)**July 15, 2015****Tech #48. Wearable Vibes****A high-tech high: Wearable gives you good vibes, USA Today, John Shinal**<http://www.usatoday.com/story/tech/columnist/jshinal/2015/07/14/thync-happy-culture/2077482/>**March 14, 2016****Tech #49. Artificial Intelligence and Robots****Paul Basken, The Chronicle of Higher Education**<http://www.chronicle.com/article/Behind-a-Computer's-Surprise-Victory-Hints-of-Global-Economic-Upheaval/23887701>**Behind a Computer's Surprise Victory, Hints of Global Economic Upheaval**

By Paul Basken | MARCH 14, 2016



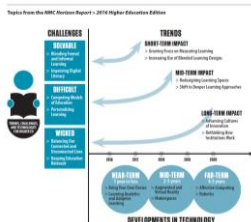
Forget the robots — here come the geminoids!

**May 11, 2016****Tech #50. Not All Inventions Work****Interactive Whiteboards Facing Steep Decline Globally****Richard Chang, THE Journal (\$1.257 billion market is declining 17 percent per year from 2016 to 2016)**<http://thejournal.com/news/2016/05/11/interactive-whiteboards-face-steep-decline-globally.aspx>

By Richard Chang

**Interactive Whiteboards Facing Steep Decline Globally**

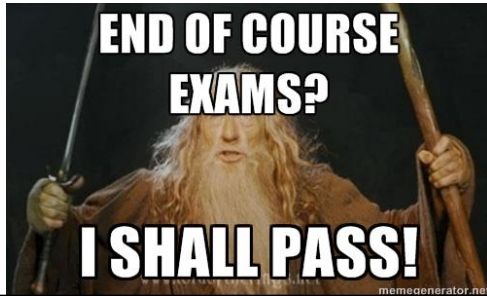
By Richard Chang | 05/11/16

**February 2016****Welcome to Tech City!****NMC Horizon Report > 2016 Higher Education Edition**<http://www.nmc.org/publication/nmc-horizon-report-2016-higher-education-edition/><http://cdm.nmc.org/media/2016-nmc-horizon-report-the-EN.pdf>**Activity #1:****Share Three Words from this Session!**

3 3 3



**Poll #7:**  
**What happens next...?**



**Comments and Questions**

[CJBonk@Indiana.edu](mailto:CJBonk@Indiana.edu)

Slides at: [TrainingShare.com](http://TrainingShare.com)

Papers: [PublicationShare.com](http://PublicationShare.com)

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

