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

#### **Curtis J. Bonk, Professor, Indiana University**

cjbonk@indiana.edu

http://mypage.iu.edu/~cjbonk/





# Poll #1: Are you interested in Education 3.0?

A = Yes B = No C = Not sure







The genesis and emergence of Education 3.0 in higher education and its potential for Africa

by Derek Keats and J. Philipp Schmidt

#### **Education 3.0**

http://firstmonday.org/ojs/index.php/fm/article/view/1625/1540

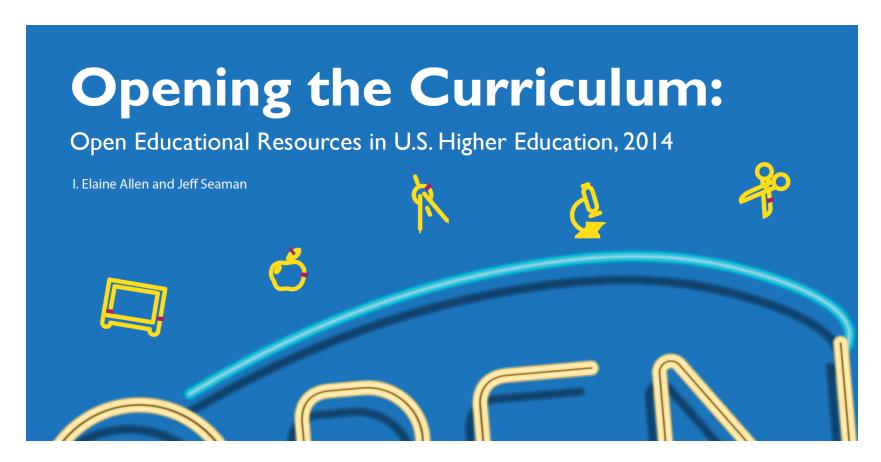
Table 1: Educational generations in higher education			
Characteristics	Education 1.0	Education 2.0	Education 3.0
Primary role of professor	Source of knowledge	Guide and source of knowledge	Orchestrator of collaborative knowledge creation
Content arrangements	Traditional copyright materials	Copyright 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

#### October 25, 2014

Opening the Curriculum: Open Educational Resources in U.S. Higher Education, 2014

I. Elaine Allen and Jeff Seaman

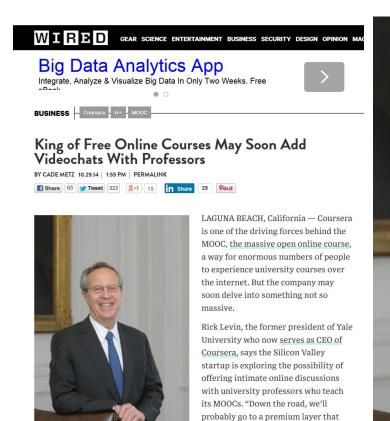
http://www.onlinelearningsurvey.com/reports/openingthecurriculum2014.pdf



#### October 29, 2014

### King of Free Online Courses May Soon Add Videochats With Professors, Cade Metz, Wired

http://www.wired.com/2014/10/king-free-online-courses-may-soon-add-videochats-professors/



you could pay for that would give you live interaction with a professor by video or something like that—a

seminar within a MOOC," Levin told

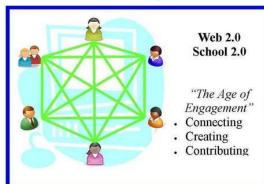


# Poll#2: Read any good books lately?

A = Yes

B = No

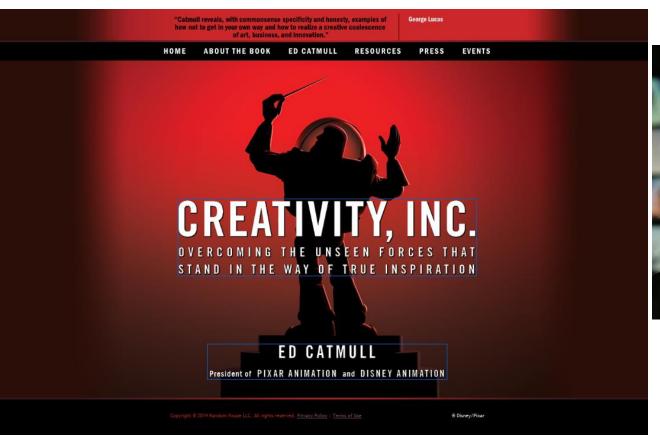




#### 1. Creativity, Inc.

### Ed Catmull, President of Pixat Animation and Disney Animation

http://www.creativityincbook.com/





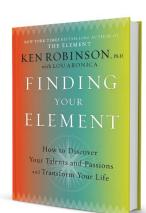
#### 2. Finding Your Element:

## How to Discover Your Talents and Passions and Transform Your Life Sir Ken Robinson and Lou Aronica (2013)

http://www.inventtolearn.com/



New Book: Finding Your Element



The New York Times bestselling author of The Element gives readers an inspirational and practical guide to self-improvement, happiness, creativity, and personal transformation.

Sir Ken Robinson's TED talk video and groundbreaking book, The

Element, introduced readers to a new concept of se through the convergence of natural talents and persona The Element has inspired readers all over the worl created for Robinson an intensely devoted following. If the long-awaited companion, the practical guide that he find their own Element. Among the questions that this answers are:

- How do I find out what my talents and passions are?
- · What if I love something I'm not good at?
- · What if I'm good at something I don't love?
- What if I can't make a living from my Element?
- · How do I do help my children find their Element?

#### CONNECT

Facebook Twitter Youtube

CHANGING PARADIGMS

CHANGING PARADIGMS

EUERY COUNTRY
ON EARTH, AT THE MOMENT, IS REFORMING PUBLIC EDUCATION

PUBLIC EDUCATION

REASONS
FOR IT

NEW YORK TIMES BESTSELLING AUTHOR OF THE ELEMENT KEN ROBINSON with LOU ARONICA FINDING YOUR ELEMENT How to Discover Your Talents and Passions and Transform Your Life

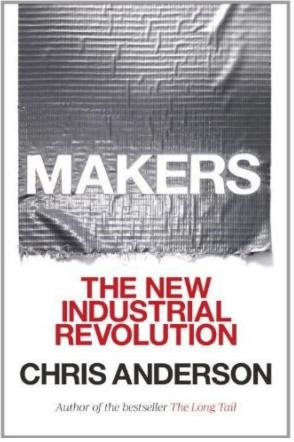
#### 3. Makers:

#### The New Industrial Revolution (DIY Culture)

**Chris Anderson (2012)** 

http://www.inventtolearn.com/





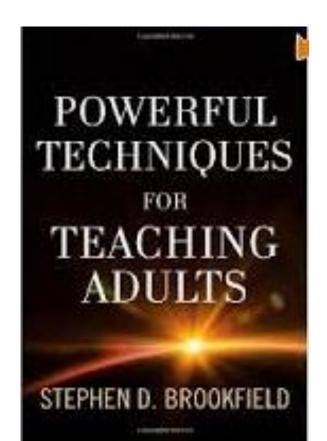
# 4. Creating Innovators: The Making of Young People Who Will Change the World Tony Wagner (2012)

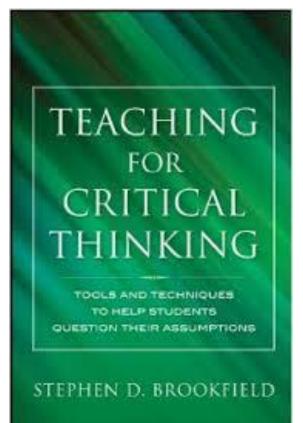
http://creatinginnovators.com/



#### 5. Powerful Techniques for Teaching Adults

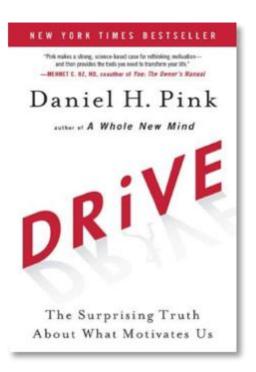
Stephen Brookfield (2013)
Teaching for Critical Thinking (2012)

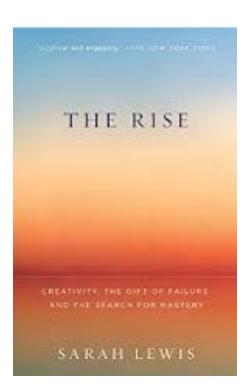




# 6. The Rise: Creativity, The Gifts of Failure, and the Search for Mastery

Sarah Lewis (2014)



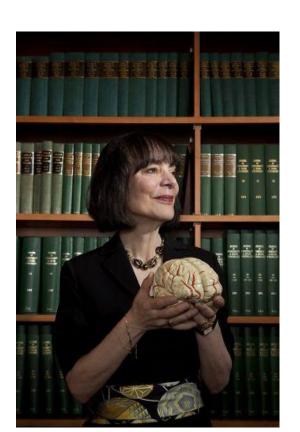




#### 7. Mindset:

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

http://mindsetonline.com/index.html http://mindsetonline.com/testyourmindset/step1.php



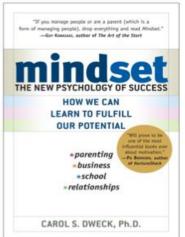


#### Carol Dweck on Growth Mindsets and Fixed Mindsets

Change Your Mindset

66 What a wonderfully elegant idea, beautifully and usefully explicated... It is a great book >>

About The Author





- Ned Hallowell, best selling Author

Forum

# What skills do we need in the 21<sup>st</sup> Century?

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



Seven Cs	Component Skills	
Critical Thinking-and-Doing	Problem-solving, Research, Analysis, Project Management, etc.	
Creativity	New Knowledge Creation, "Best Fit" Design Solutions, Artful Storytelling, etc.	
Collaboration	Cooperation, Compromise, Consensus, Community-building, etc.	
Cross-cultural Understanding	Across Diverse Ethnic, Knowledge and Organizational Cultures	
Communication	Crafting Messages and Using Media Effectively	
Computing / ICT Literacy	Effective Use of Electronic Information and Knowledge Tools	
Career & Learning Self-reliance	Managing Change, Lifelong Learning and Career Redefinition	

# Part I. Learning is Changing New Technologies = New Delivery Methods...





# Audience Poll #3: Has learning technology has ever transformed your life?





### Looking to the Past...







#### 1728: 1st correspondence course advertised Boston

(learn shorthand from Caleb Phillips thru weekly mailed lessons)

The First University Correspondence Course (University of London, External Program, 1858)

1728-1990s – Generally postal system based 1930s – phonograph and radio 1950s and 1960s – television 1970s and 1980s – VHS tapes

1980s and 1990s - DVD





THE RESIDENCE OF MAY DESCRIPE THE TAKEN PROPERTY MAY DESCRIPE THE TAKEN THE

#### **September 15, 2014**

### Open, Distance and Online Learning: A Brief History, Sir John Daniel

International Conference on Emerging Technologies in Education and Computer Science, Universidad Da Vinci, Cancun, Mexico

http://vimeo.com/106002761 (password knou)

Notes and Slides: http://sirjohn.ca/wordpress/?page\_id=29

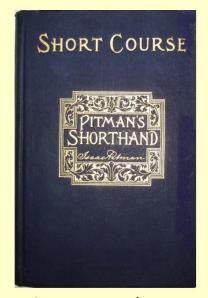


Lord Geoffrey Crowther
Inauguration of the Open University
1969



Postal systems



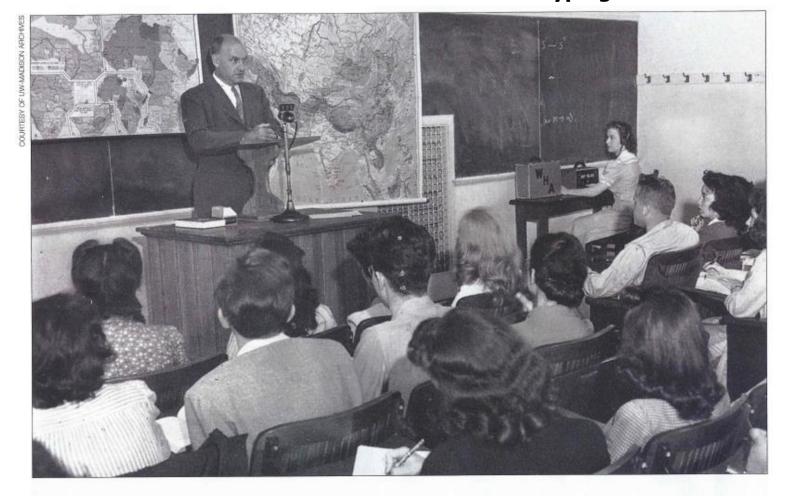


Correspondence course – 1841

#### Fall 2014, On Wisconsin

#### MOOC, Meet MORC (Massive Open Radio Course)

WHA, UW Madison, College of the Air,1933, Vocational Training dedicated to Agriculture, and later Home Economics and Typing



**MOOC, Meet MORC** 

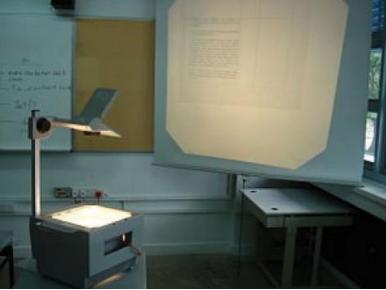
#### May 10, 2013

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

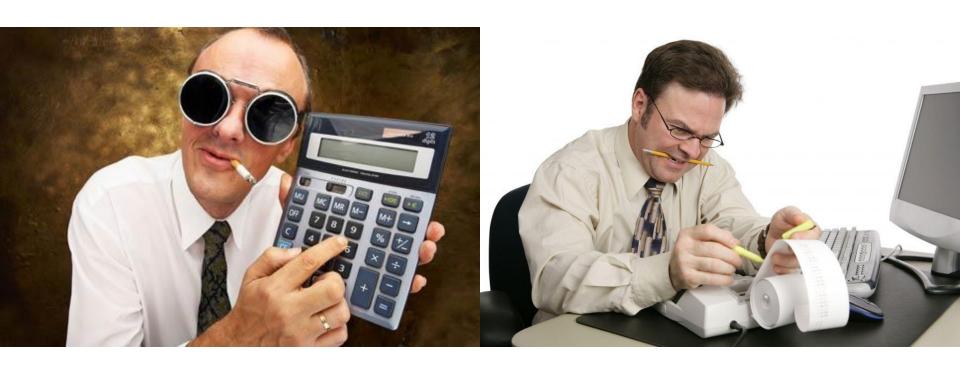
#### **eSchool News, Meris Stansbury**

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

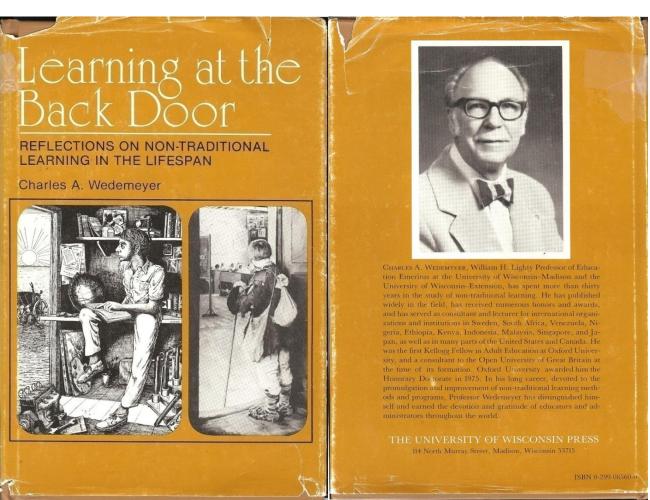




## Life as an accountant/CPA in a high tech company in the 1980s...



#### Took Correspondence & TV Courses (thanks to Bob Clasen and Charles Wedemeyer, the University of Wisconsin)







## **Knowledge Navigator (1987) Apple Computer**

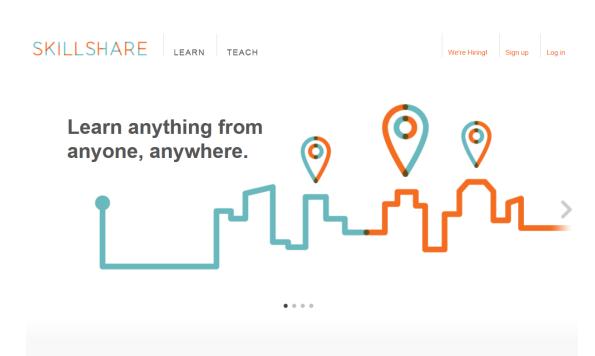
http://www.youtube.com/watch?v=hb4AzF6wEoc





### Fast Forward 25+ Years...

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



## September 9, 2014 I. Learning is More Technology-Based



know whether it's water resistant, whether there will be a version for lefties and which app developers will be on board at launch.  $\blacksquare$ 

know whether it's water resistant, whether there will be a version for lefties and which app developers will be on board at launch. ■



### II. Learning is More Mobile August 5, 2014

### Timex enters smartwatch category. No phone needed, Edward C. Baig, USA Today,

http://www.ucatoday.com/story/tech/columnist/baig/2014/08/05/timex-enters-smartwatch-category-no-phone-needed/13597331/









#### **Audience Poll #4:**

- I. Who remembers what they were doing on 911?
- II. Who remembers what they were doing on April 4, 2001?





#### Charles Vest (April 4, 2001)

http://web.mit.edu/newsoffice/2001/ocw.html

"This is about something bigger than MIT. I hope other universities will see us as educational leaders in this arena, and we very much hope that OpenCourseWare will draw other universities to do the same. We would be delighted if -- over time -- we have a world wide web of knowledge that raises the quality of learning -- and ultimately, the quality of life -- around the globe."







#### III. Learning is More Open

(80-Year-Old WGU Texas Grad Keeps His Promise, November 30, 2012, Reeve Hamilton, Texas Tribune)

An 8o-Year-Old Graduate With an Online Marketing Degree Kept His Promise



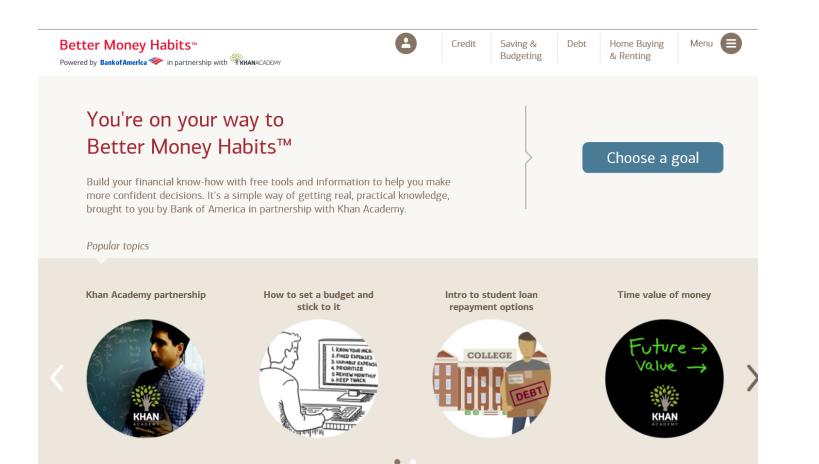




#### **Better Money Habits**

### (personal finance, money habits, financial literacy) (Bank of America and the Khan Academy)

The MOOC Marketplace Takes Off, Forbes, November 30, 2013, Josh Bersin <a href="http://www.forbes.com/sites/joshbersin/2013/11/30/the-mooc-marketplace-takes-off/">http://www.forbes.com/sites/joshbersin/2013/11/30/the-mooc-marketplace-takes-off/</a>



## IV. Learning is More Informal October 13, 2013

A Dozen Ways To Promote Informal Learning Chief Learning Officer, Saul Carliner

http://www.clomedia.com/articles/a-dozen-ways-to-promote-informal-learning



## V. Learning is More Flipped August 1, 2014

Get schools out of the 1890s, Newt Gingrich, CNN

http://www.cnn.com/2014/08/01/opinion/gingrich-schools-blended-teachingtechnology/index.html?hpt=hp\_t3



#### More on classroom flipping in colleges



View Photo Gallery — 'Flipping' the classroom: University of Virginia professor Philip Zelikow is teaching a course called "The Modern World: Global History Since 1760." It's a massive open online course, which offers the world a free sample of education from the elite public university. The public is able to register for the course and watch the online lectures for free, and Zelikow's U-Va. students can watch his lectures on their own time, freeing up precious classroom hours for in-depth discussion. This technique is known as "flipping" the classroom.

#### **Onboarding New Employees**

(Employee Blended Orientation, Flipping the Classroom—give access to course materials)
Putting MOOCs to Work Recap

September 8, 2014, Chris Hilger, Extension Engine

https://www.udemy.com/organizations/blog/2013/12/23/seven-ways-to-corporate-mooc/

7 WAYS THAT CORPORATIONS ARE USING MOOCS







### VI. Learning is More Video-Based October 15, 2014

#### **Videos: Performance Management**

How Disney Develops Culture, Chief Learning Officer

Doug Lipp, former Disney University leader and author of "Disney U," discusses how Disney teaches employees to do their jobs and exude the company's culture.

http://http://www.clomedia.com/media/videos/play/195

Home » Multimedia » Videos » How Disney Develops Culture

#### **Videos**

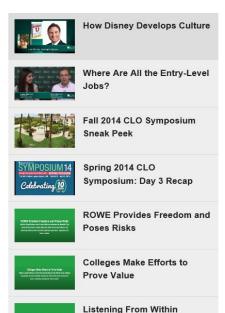
#### **Performance Management**

Box RETY
DISNEY

**How Disney Develops Culture** 

Release Date: October 15, 2014

Doug Lipp, former Disney University leader and author of "Disney U," discusses how Disney teaches employees to do their jobs and exude the company's culture.



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

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



### October 6, 2014

Stanford U Display Wall Takes Visualization to a Higher Level, Dian Schaffhauser, Campus Technology



# VIII. Learning is More Touch Sensored October 16, 2013

### Corporate Classrooms: Adapting to Change Chief Learning Officer, Frank Kalman

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







# IX. Learning is More Gesture-Based September 12, 2014

Intel Says Laptops and Tablets with 3-D Vision Are Coming Soon, Your next laptop or tablet may have 3-D sensors that let it recognize gestures or augment a real scene with virtual characters.

#### **Tom Simonite, MIT Technology Review**

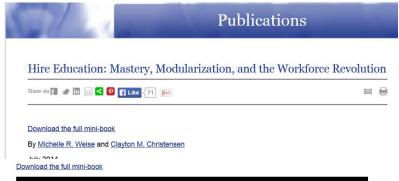
http://www.technologyreview.com/featuredstory/531751/the-quest-to-put-more-reality-in-virtual-reality/?utm\_campaign=newsletters&utm\_source=newsletter-daily-all&utm\_medium=email&utm\_content=20141022



# X. Learning is More Competency-Based July 31, 2014

Hire Education: Mastery, Modularization, and the Workforce Revolution, Michelle R. Weise and Clayton M. Christensen, The Christensen Institute

http://www.christenseninstitute.org/publications/hire/





College, on Your Own: Competency-based education can help motivated students. But critics say it's no panacea

Dan Berrett, The Chronicle of Higher Ed, July 14, 2014 <a href="http://chronicle.com/article/College-On-Your-Own/147659/?cid=at">http://chronicle.com/article/College-On-Your-Own/147659/?cid=at</a>

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



# XI. Learning also is More Collaborative March 26, 2014

Flat Connections: Welcome to Flat Connections - Learning about the world, with the world

http://www.flatconnections.com/

Collaboration & Social Networking | Feature

#### Global Collaboration Projects that Go Way Beyond Skype

Here's how one program is engaging Web 2.0 skills to bridge cultures and classrooms — one project at a time.

By Stephen Noonoo • 03/26/14





### XII. Learning is More Modifiable

Inside Look: Learning Spaces, Meeting classroom teaching and collaboration expectations, University Business, Feb. 22, 2013

http://www.universitybusiness.com/article/inside-look-learning-spaces



### XIII. Learning is More Comfortable

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





# XIV. Learning is More Ubiquitous September 23, 2014

Elliott Masie's (i-Beacon; Bluetooth low energy proximity

<u>sensing</u>)

http://www.learning2014.com/index.php/learning-trends-and-challenges-webinar.html

On September 23, 2014 Elliott Masie hosted a webinar discussing Leaning Trends and Challenges in 2014. Below is the video from this dialogue.



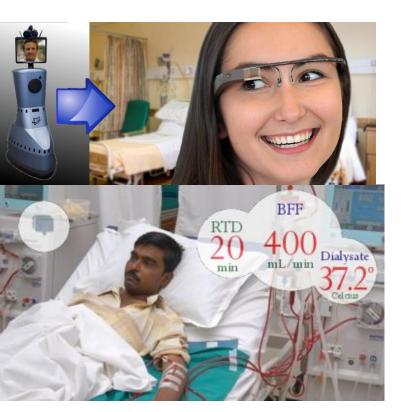


### XV. Learning is More Instantaneous April 9, 2013

HER Computer fashions face social test: Can wearable computers fit in? Scott Martin, USA Today <a href="http://www.usatoday.com/story/tech/2013/04/06/google-apple-iwatch-glass-jawbone-iphone-nike-microsoft-samsung/1979419/">http://www.usatoday.com/story/tech/2013/04/06/google-apple-iwatch-glass-jawbone-iphone-nike-microsoft-samsung/1979419/</a>

(i.e., magnify moles or injuries, see vital signs, live stream surgeries, access previous PT sessions, access research and drug info, etc.)

http://www.fiercemobilehealthcare.com/story/google-glasses-could-have-strong-potential-healthcare-use/2013-03-18





### XVI. Learning is More On Demand May 5, 2014

### **Mobile MOOCs: New platform** challenges conventional MOOCs

eCampus News (<a href="https://coursmos.com/">https://coursmos.com/</a>)



Discover



Sign up Login





Micro-Course Collections















### XVII. Learning is More Personal

# iPotty Aims To Entertain Toddlers During Toilet Training, Mashable, Kate Freeman (January 10, 2013)

http://mashable.com/2013/01/10/ipotty/



# Bill Gates' classroom of the future By Laurie Segall and Erica Fink @CNNMoney March 8, 2013: 9:34 AM ET Print Recommend 1.6k Tweet 506 in Share 1.73 Email Print

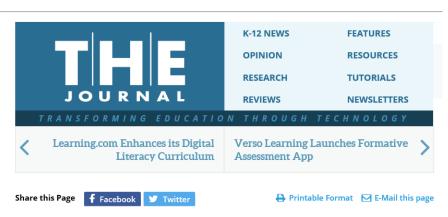




# Learning is More Personal August 5, 2014

OpenStax Aims To Bring Free Digital Textbooks to High Schools, David Nagel, THE Journal

http://thejournal.com/articles/2014/08/05/openstax-aims-to-bring-free-digital-textbooks-to-high-schools.aspx



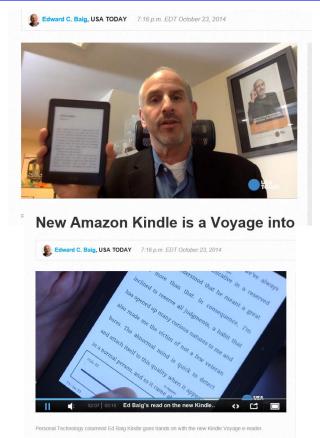
#### OpenStax Aims To Bring Free Digital Textbooks to High Schools



# XVIII. Learning is More Digital October 23, 2014

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

http://www.usatoday.com/story/tech/columnist/baig/2014/10/23/amazon-kindle-voyage-is-voyage-into-ereader-luxury/17781255/

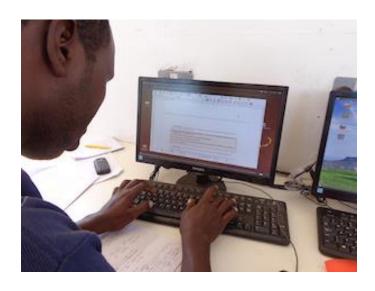




# XIX. Learning is More Global August 1, 2014

#### Can You Really Teach a MOOC in a Refugee Camp?, Chronicle of Higher Education, Steve Kolowich

http://chronicle.com/blogs/wiredcampus/can-you-really-teach-a-mooc-in-a-refugeecamp/54191?cid=at&utm\_source=at&utm\_medium=en



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)

### June 16, 2014

Metra Mehran is a college student in Political Science and Public Administration in Afghanistan.

Afghanistan Student Keynote, by Elliott Masie Learning 2014, October 26-29, 2014

http://www.learning2014.com/blog/item/afghanistan-student



# XX. Learning is More Synchronous Dubai to Puerto Rico (Edgar Leon)

https://www.youtube.com/watch?v=Imxw0YwTh2Y&list=UUClhO-jnvl1pEXd9Skv- Iw



# XXI. Learning is More Online January 10, 2014

### The New-School Virtual Leader Chief Learning Officer, Sharat Sharan

Hotel chain Marriott created a leadership program with a goal to provide training to 733 hotels in 23 countries.

Certified 5,000 managers trained; and 10,000 more given big picture training <a href="http://www.clomedia.com/articles/the-new-school-virtual-leader">http://www.clomedia.com/articles/the-new-school-virtual-leader</a>



# January 2014 Learning is More Online

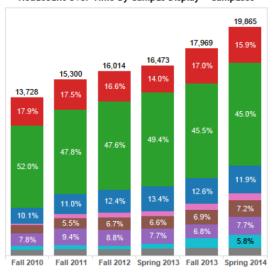
### Grade Change: Tracking Online Education in the United States, 2013, The Sloan Consortium, I. Elaine Allen & Jeff Seaman,

2013 Survey of Online Learning Report and 2014 data from Indiana University

http://sloanconsortium.org/publications/survey/grade-change-2013

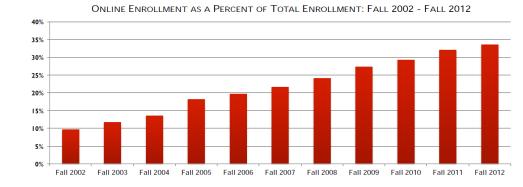
Direct connect: <a href="http://www.onlinelearningsurvey.com/reports/gradechange.pdf">http://www.onlinelearningsurvey.com/reports/gradechange.pdf</a>

#### Headcount Over Time By Campus Display = Campuses









### June 15, 2014

# Starbucks offers workers 2 years of free college, CNN Money, Gregory Wallace (from Arizona State online programs)

http://money.cnn.com/2014/06/15/news/economy/starbucks-schultz-education/index.html?hpt=hp t2
http://www.nytimes.com/2014/06/16/us/starbucks-to-provide-free-college-education-to-thousands-of-workers.html

### Starbucks offers workers 2 years of free college

By Gregory Wallace @gregorywallace June 15, 2014: 9:15 PM ET





State University, the company and the university will announce Monday.

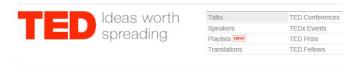
college.

Tammie R. Lopez, center, 22, a Starbucks employee, would be the first in her family to finish

# XXII. Learning is More Self-Directed February 2013 TED Talks

(Build a School in the Cloud; Self-Organized Learning Environments (SOLEs), TED Talk from Sugata Mitra

http://www.ted.com/talks/sugata mitra build a school in the cloud.html



**TALKS** 

Sugata Mitra: Build a School in the Cloud

FILMED FEB 2013 • POSTED FEB 2013 • TED2013





Talks	TED Conferences
Speakers	TEDx Events
Playlists NEW	TED Prize
Translations	TED Fellows

**TALKS** 

Sugata Mitra: Build a School in the Cloud

FILMED FEB 2013 • POSTED FEB 2013 • TED2013



# XXIII. Learning is More Social October 24, 2014

### Facebook launches Rooms app for anonymous sharing of interests, USA Today, Jessica Guynn

http://www.usatoday.com/story/tech/2014/10/23/facebook-rooms-josh-miller-branch-mobile-app-creative-labs/17769167/







# XXIV. Learning is More Communal April 30, 2014

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

https://www.coursera.org/about/programs/learningHubs
http://blog.coursera.org/post/84322385012/new-learning-hubs-locations-hosted-by-the-new-york



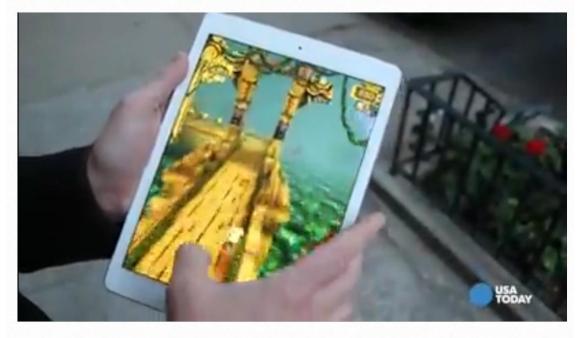


# XXV. Learning is More Game-Based October 21, 2014

## Sexy iPad Air 2 is fabulous but not a must upgrade, Edward Baig, USA Today

http://www.usatoday.com/story/tech/columnist/baig/2014/10/21/ipad-air2-fabulous-tablet-is-not-must-upgrade/17658295/

#### Sexy iPad Air 2 is fabulous but not a must upgrade

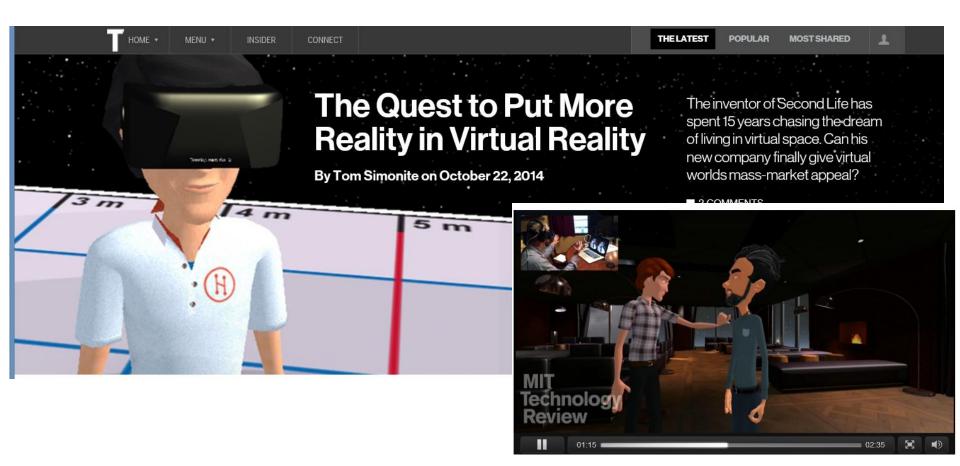


Ed Baig reviews the new Apple iPad Air 2

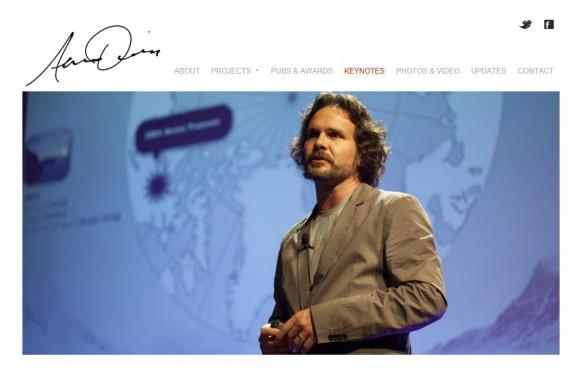
# XXVI. Learning is More Immersive October 22, 2014

### The Quest to Put More Reality in Virtual Reality, Tom Simonite, MIT Technology Review

http://www.technologyreview.com/featuredstory/531751/the-quest-to-put-more-reality-in-virtual-reality/?utm\_campaign=newsletters&utm\_source=newsletter-daily-all&utm\_medium=email&utm\_content=20141022



# XXVII. Learning is More Adventurous Aaron Doering, Chasing Seals, TEDx <a href="http://chasingseals.com/">http://chasingseals.com/</a>



Speaking for Change and Humanity

From the Arctic to Africa, Aaron loves to share his story of how he believes technology, education, and adventure can change how we deliver education throughout the world.

# XXVIII. Learning is More Free August 5, 2014

### OpenStax Aims To Bring Free Digital Textbooks to High Schools, David Nagel, THE Journal

http://thejournal.com/articles/2014/08/05/openstax-aims-to-bring-free-digital-textbooks-to-high-schools.aspx

New mobile app helps a Cambridge press offer free digital monographs even to those without computers



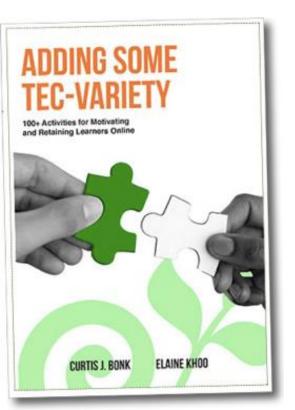


SOURCE: GETTY

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

# Introducing the FREE "TEC-VARIETY book...

http://tec-variety.com/



#### What motivates?

- Tone/Climate: Psychological Safety, Comfort, Sense of Belonging
- Encouragement: Feedback, Responsiveness, Praise, Supports
- Curiosity: Surprise, Intrigue, Unknowns
- Variety: Novelty, Fun, Fantasy
- Autonomy: Choice, Control, Flexibility, Opportunities
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- Interactivity: Collaborative, Team-Based, Community
- Engagement: Effort, Involvement, Investment
- Tension: Challenge, Dissonance, Controversy
- 10. Yielding Products: Goal Driven, Purposeful Vision, Ownership



WEB LINKS, EXAMPLES, AND RESOURCES

### 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

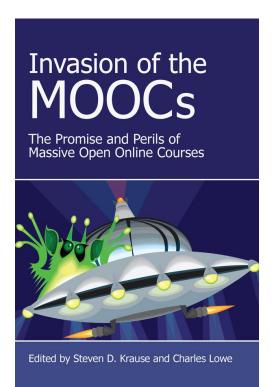


### XXIX. Learning is More Massive

### Sample Course: Open Knowledge: Changing the Global Course of Learning September 2, 2014 to December 12, 2014, Stanford

https://class.stanford.edu/courses/Education/OpenKnowledge/Fall2014/about#
Softcover (\$30): http://www.parlorpress.com/invasion\_of\_the\_moocs
Free (PDF): http://www.parlorpress.com/pdf/invasion\_of\_the\_moocs.pdf





# Global Health Initiatives October 7, 2014

### Online Mooc courses deliver Ebola health advice, BBC News, Sean Coughlan

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

### **Building Talent Pipeline**

#### Master's Degree Is New Frontier of Study Online, August 17, 2013, The New York Times By Tamar Lewin

http://chronicle.com/article/MOOCs-May-Not-Be-So-Disruptive/140965/ http://extensionengine.com/putting-moocs-to-work-recap-infographic/#.VExR4o3wtis

Master's Degree Is New Frontier of Study Online



College of Computing at Georgia Tech

Zvi Galil, the dean of the College of Computing at the Georgia Institute of Technology. The institute plans to offer a master's degree in computer science through massive open online courses, or MOOCs.

By TAMAR LEWIN

Published: August 17, 2013 | 218 Comments



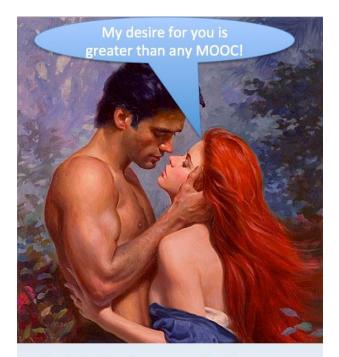


350+ companies are paying Coursera and Udacity to identify the best and brightest students in relevant courses and refer them as possible job candidates. The webinar also cited AT&T as sponsoring the development of an MS in Computer Science at Georgia Tech in which the firm can then enroll employees.



### Things are heating up!

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

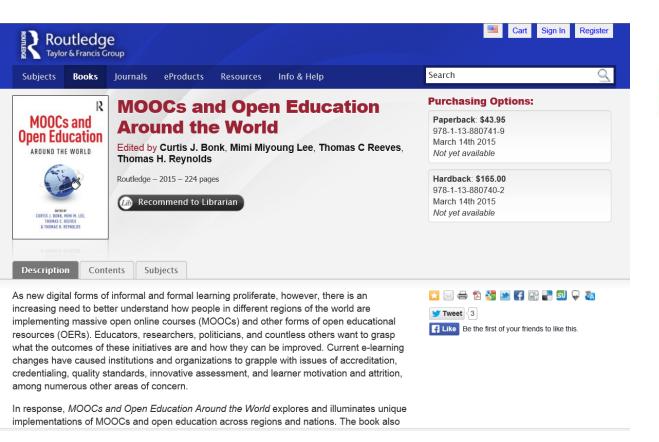


MOOCs and Open Education Around the Word

By Bonk, Lee, Reeves, & Reynolds

# MOOCs and Open Education Around the World

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



# M00Cs and Open Education

AROUND THE WORLD



CURTIS J. BONK, MIMI M. LEE, THOMAS C. REEVES & THOMAS H. REYNOLDS

# XXX. Learning is More Web-Based April 15, 2013

# World will soon be "Webified" Google boss: Entire world will be online by 2020, Doug Gross, CNN

http://www.cnn.com/2013/04/15/tech/web/eric-schmidt-internet/index.html?hpt=hp\_t3

Google boss: Entire world will be online by 2020



updated 1:20 PM EDT, Mon April 15, 2013 | Filed under: Web







### 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.

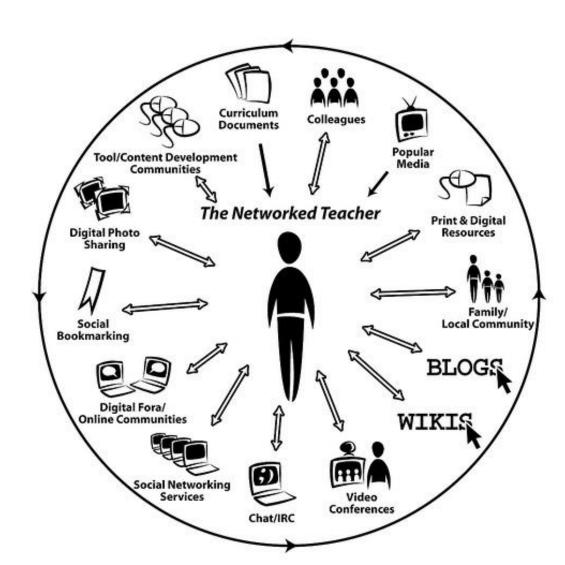


Joe Alfonso, a financial adviser from Oregon, is taking the online finance course as a "refresher."

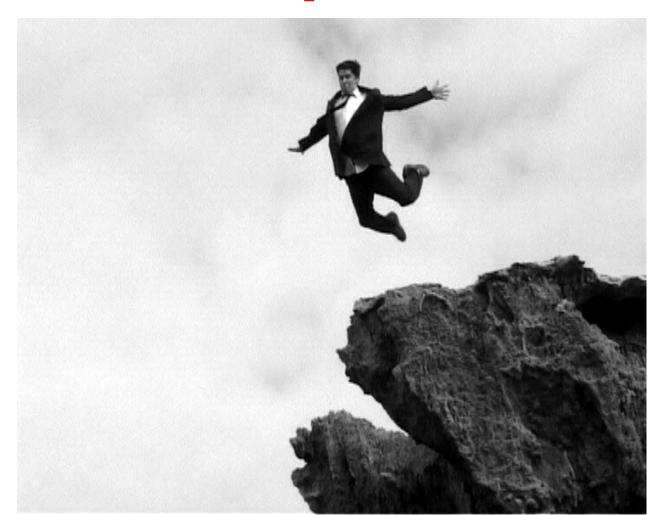
## The Web of Learning







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



## Framework #1: WE-ALL-LEARN: Ten Forces that Opened the Learning World

- Web Searching in the World of e-Books (i.e., Darwin)
- **■ E**-Learning and Blended Learning
- Availability of Open Source and Free Software (e.g., Moodle)
- Leveraged Resources and OpenCourseWare (e.g., MIT)
- Learning Object Repositories and Portals (i.e., shared content)
- Learner Participation in Open Info Communities (YouTube)
- Electronic Collaboration and Interaction (sync and async)
- Alternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., Second Life)
- Real-Time Mobility and Portability (e.g., iPhone)
- Networks of Personalized Learning (Blogs, RSS)





### **Audience Participation!**









**LEARN!!!** 

## What about the Instructor in the Open World?

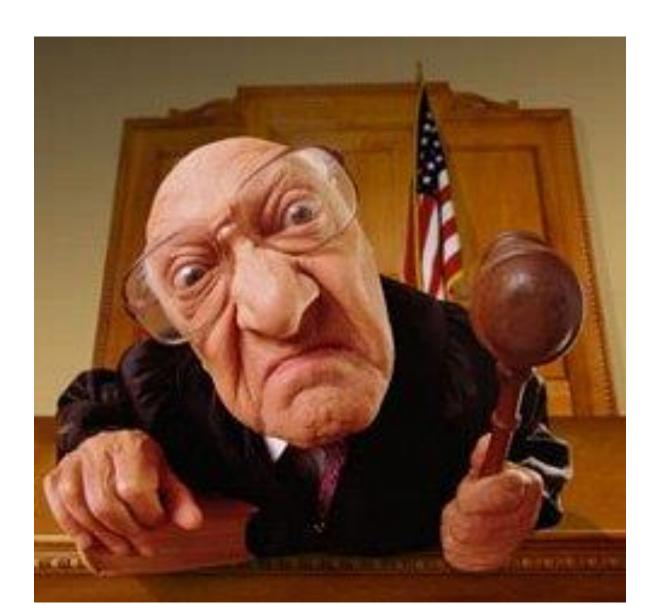




### 1. Instructor as Credit Manager



### 2. Instructor as Court Room Judge

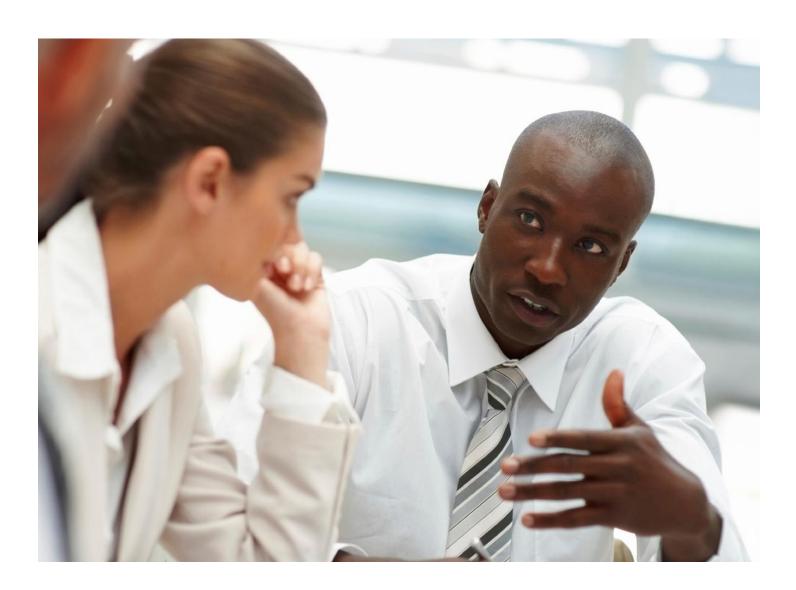


### 3. Instructor as Counselor





### 4. Instructor as Consultant



### **5. Instructor as Conductor**



### 6. Instructor as Course Ambassador



### 7. Instructor as Curator



### 8. Instructor as Concierge





### 9. Instructor as Camping Trip Guide

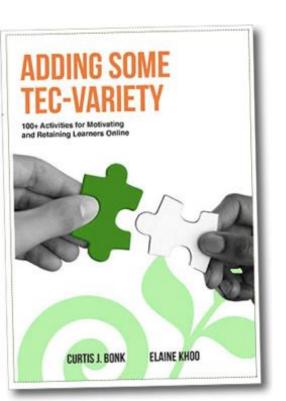


### 10. Instructor as Cultivator



# Framework #2. Introducing the "TEC-VARIETY" book...

http://tec-variety.com/

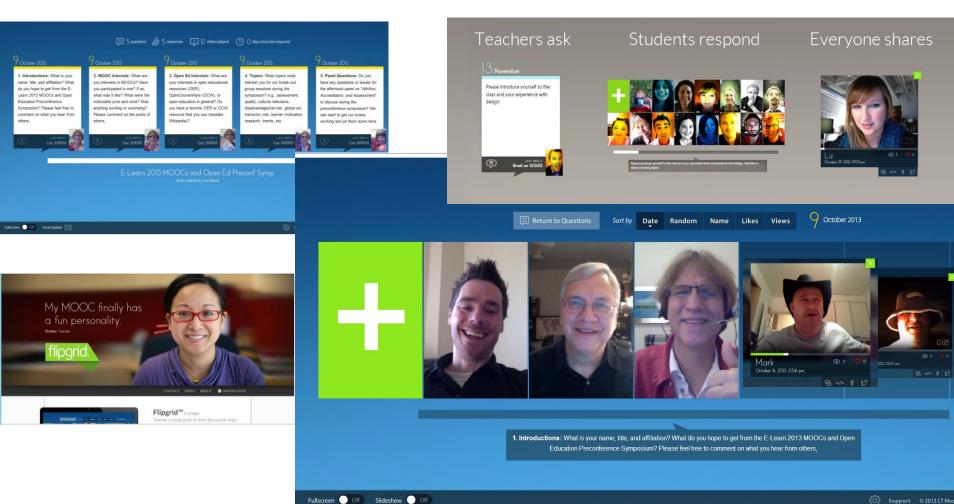


#### What motivates?

- Tone/Climate: Psychological Safety, Comfort, Sense of Belonging
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- Tension: Challenge, Dissonance, Controversy
- Yielding Products: Goal Driven, Purposeful Vision, Ownership

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

http://flipgrid.com/#429f88c5



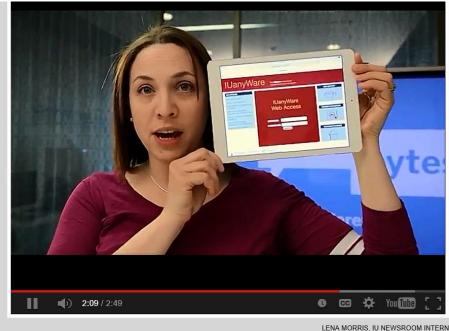
## 2. Encouragement, Feedback, etc.: A. Demonstrations and Tutorials

**Emerging technology specialist, IU UITS, Nitocris Perez,** 

May 29, 2014

http://inside.iub.edu/features/videos/2014-05-29-inub-vid-cib.shtml





May 29, 2014

## 3. Curiosity, Fun: A. Something in the News

New 'massive' dinosaur skeleton discovered, USA Today,

September 5, 2014 (Dreadnoughtus)

http://www.usatoday.com/story/tech/2014/09/04/dinosaur-skeleton-discovered/15031803/

October 23, 2014

Goofy dinosaur blends Barney and Jar Jar Binks, SF Gate, Seth Borenstein

http://www.sfgate.com/news/science/article/Goofy-dinosaur-blends-Barney-and-Jar-Jar-Binks-5840093.php





### 4. Variety, Novelty, Fun:

## **A.** Teach from Vietnam to the World BBC News Asia, August 14, 2013

Even though he is now very elderly Vinh Bao (age 96) still teaches music, using his computer to coach pupils across the globe.

http://www.bbc.com/news/world-asia-23497559

14 August 2013 Last updated at 06:15 ET

**Working Lives Vietnam** 

WATCH: | Milk magnate | Textile worker | Software engineer



Working Lives Vietnam: Musician

14 August 2013 Last updated at 06:15 ET

### **Working Lives Vietnam**

WATCH: | Milk magnate | Textile worker | Software engineer



Working Lives Vietnam: Musician

There is no system for writing Vietnamese traditional music so its survival depends on master musicians passing their skills on to the next generation.

# 5. Autonomy, Choice: A. Enroll in a MOOC and Reflect Programming for Everyone

(Chuck Severance, University of Michigan)
Open Knowledge: Changing the Global Course of Learning

September 2, 2014 to December 12, 2014, Stanford

https://www.class-central.com/ http://oedb.org/open/





### **6.** Relevance, Meaningfulness:

### A. Case-Based Learning: Instructor Cases (e.g., Mark Braun, IU)



lide 106, aorta ith syphilitic ortitis.



Slide 131, colon with pseudomembranous colitis.



Slide 131, colon with pseudomembranous colitis.

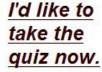


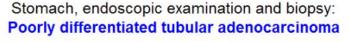
Slide 165, bone marrow with cryptococcus infection.

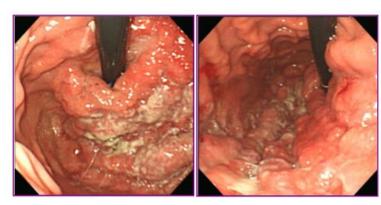


Slide 166, bone marrow with cryptococcus,









#### Final conclusion:

Advanced gastric carcinoma with multiple lung metastasis with lymphangitic growth



table of contents

clinical cases

class handouts

lecture audio files

online quizzes

practice exams

should you take a break. The quiz at the end of each case will help reinforce th

- 2. A man with chronic cough.
- 3. Middle aged man with chest pain. 4 A man presents with cough
- 5. This man complains of dyspepsia.
- 6. Man with abdominal pain
- 7. A middle aged man with confusion.
- 8. This elderly man has chest pain.
- 9. A young woman with a breast mass.
- 13. A young woman with blindness
- 14. A woman with morning stiffnes
- 15. Man with enlarged lymph nodes
- 16. A man with a nose bleed
- 17. A woman with a neck mass
- 19 Leukemia tutorial
- 20. Three-year old girl with a cough
- 22. Urinalysis review

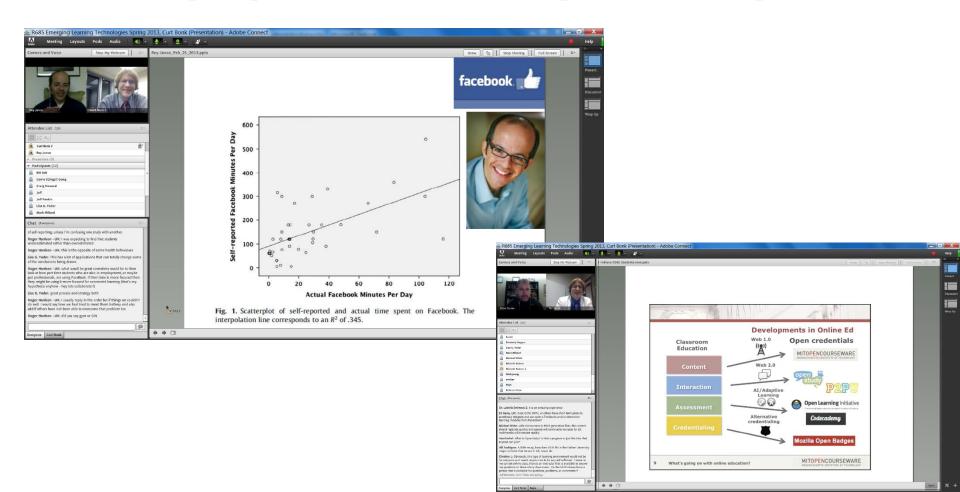


# 7. Interactive, Collaborative: A. Collaboration and Discussion in Google Hangouts, Jabber, Skype, etc (January 29 and February 25, 2013)





# 8. Engagement, Effort: A. Guest Speaker Quotes (Rey Junco, February 25, 2013)



### **July 10, 2014** 9. Tension, Challenge, etc.:

### A. Controversial Issue Debates

Scholarly journal retracts 60 articles, smashes 'peer review ring', Fred Barbash, Washington Post

http://www.washingtonpost.com/news/morning-mix/wp/2014/07/10/scholarly-journal-retracts-60-articles-smashes-peer-review-ring

**Morning Mix** 

### Scholarly journal retracts 60 articles, smashes 'peer review ring'



### Retraction notice

The following article has been included in a multiple retraction:

Chen CY, Chen T-H, Chen Y-H, Yu S-E and Chung P-Y (2013) Information technology system modeling an integrated C-TAM-TPB model to the validation of ocean tidal analyses Journal of Vibration and Control Epub ahead of print 7 May 2013. doi: 10.1177/1077546312472924

### 10. Yields Products, Goals:

### A. Fresh Writing, Interactive Archive of Exemplary First-Year Writing Projects

(University of Notre Dame, September 24, 2014)

https://freshwriting.nd.edu/



## **Commitments: Stop and Share:**

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

**Tone/Climate** 

**Encouragement, Feedback** 

**Curiosity** 

Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products



### Framework #3: The R2D2 Model

Curtis J. Bonk | Ke Zhang **Empowering** Online Learning 100+ Activities for Reading, Reflecting, Displaying & Doing



## Read 1a. Collect and Listen to Interactive Stories

(e.g., Meograph: <a href="http://www.meograph.com/">http://www.meograph.com/</a>)
Timelines with Oral Histories, Slavery and the Making of America
Time and Place, PBS

http://www.pbs.org/wnet/slavery/timeline/1857.html



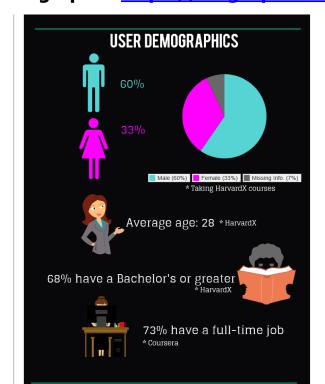


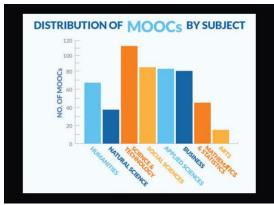
# Reflect 2a. Interpreting Infographics April 17, 2014

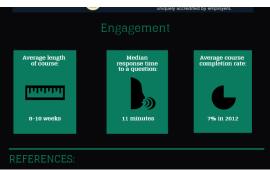
### 3. Issues of Age, Gender, and Course Type

eCampus News, Meris Stansbury

http://www.ecampusnews.com/research/infographic-moocs-global-436/ Inforgraphic: https://magic.piktochart.com/output/1747660-moocs







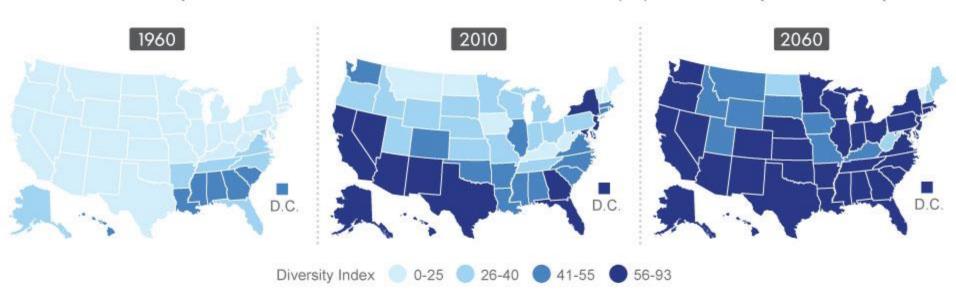
## Display 3a. Interactive Timeline Maps, October 22, 2014

## Second immigration wave lifts diversity to record high: Edward Greg Toppo and Paul Overberg, USA Today

http://www.usatoday.com/longform/news/nation/2014/10/21/diversity-race-ethnicity-change-100-years/16211133/

#### 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

### **Do 4a. Goal Setting Tools**

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

43Things



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

## Poll #5: Which do you prefer... R2D2 or TEC-VARIETY?



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### **Charles Wedemeyer Quote:**

"It should be immaterial whether one has learned at the front door or the back door of the Palace of Learning. What one has learned—not where, or how, in what sequence, at what institution, or in what period of time—is the only criterion of supreme importance."

(Charles Wedemeyer, 1981, p. 216)



### **December 13, 2013**

# Former MIT president Charles M. Vest dies at 72 As the Institute's leader from 1990 to 2004, he sparked a period of dynamism. Steve Bradt, MIT News Office

http://web.mit.edu/newsoffice/2013/former-mit-president-charles-m-vest-dies-at-72-1213.html



## **Any Questions? Try TEC-VARIETY...**



**Papers: PublicationShare.com** 

**Book:** <a href="http://tec-variety.com/">http://tec-variety.com/</a>

Dr. Curt Bonk - CJBonk@Indiana.edu













