

Education 20/20 meets Education 3.0: Visions of Our Changing Learning World!

Curtis J. Bonk, Professor, Indiana University

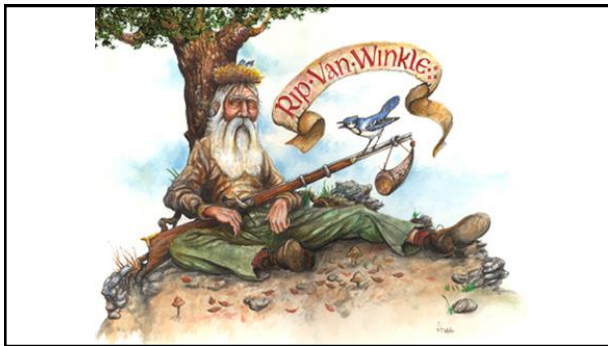
cjbonk@indiana.edu

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

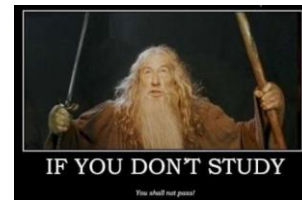


Talk Overview

1. Education 20/20 and Education 3.0
2. Artificial Intelligence vs. Intelligence Augmentation
3. The Evolution of E-Learning
4. Megatrends of Learning: Engagement, Access, and Customization
(30 ways that learning is changing...)
5. Future Trends and Ideas

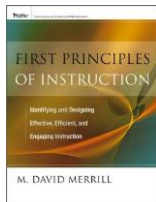
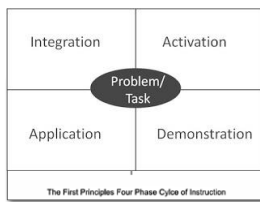


What happens to sleeping students?



Bonk's Last Principles of Teaching/Instruction

<http://travelandman.blogspot.com/2011/05/bonk-last-principles-of-instruction.html>



Education 20/20





1. The Principle of Flexibility

<http://travellinedman.blogspot.com/2011/05/books-last-principles-of-instruction.html>



2. The Principle of Convenience

<http://travellinedman.blogspot.com/2011/05/books-last-principles-of-instruction.html>



5. The Principle of High Expectations

<http://travellinedman.blogspot.com/2011/05/books-last-principles-of-instruction.html>



6. The Principle of Choice and Options

<http://travellinedman.blogspot.com/2011/05/books-last-principles-of-instruction.html>



8. The Principle of Support and Feedback

<http://travelinedman.blogspot.com/2011/05/books-last-principles-of-instruction.html>



11. The Principle of Sharing

<http://travelinedman.blogspot.com/2011/05/books-last-principles-of-instruction.html>



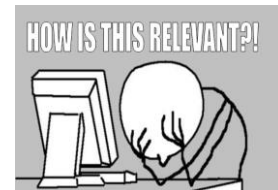
12. The Principle of Nontraditional Learning

<http://travelinedman.blogspot.com/2011/05/books-last-principles-of-instruction.html>



14. The Principle of Relevance and Meaningfulness

<http://travelinedman.blogspot.com/2011/05/books-last-principles-of-instruction.html>



15. The Principle of Trial and Error (i.e., it is ok to fail)

<http://travelinedman.blogspot.com/2011/05/books-last-principles-of-instruction.html>



16. The Principle of Expanded Resources

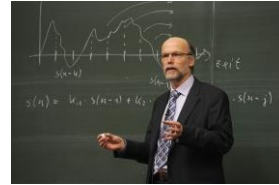
<http://travelinedman.blogspot.com/2011/05/books-last-principles-of-instruction.html>



Learning is Changing...



Education 3.0?



"In Education 3.0, classrooms would move away from lectures, such as this one, to having class time be spent on discussions and projects, using digital technology."
(Per Wikipedia: https://en.wikipedia.org/wiki/Education_3.0)

Education 3.0

The Genesis and Emergence of Education 3.0 in Higher Education and its Potential for Africa
First Monday, by Derek Keats and J. Philipp Schmidt, March 2007
<http://firstmonday.org/issue/index.php/fm/article/view/1625/1540>

EDUCATION 3.0

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

January 14, 2016

The Fourth Industrial Revolution: What it means, how to respond

Klaus Schwab, Founder and Executive Chairman, World Economic Forum
<https://www.weforum.org/agenda/2016/01/the-fourth-industrial-revolution-what-it-means-and-how-to-respond/>
(Unemployment, machine super-computing, artificial intelligence, self-driving cars, smart technological tools and networks, genetic editing, etc.)
<http://www.trainingshare.com/fourth-industrial-revolution-video-clip-short.php>

Navigating the next industrial revolution

Revolution Year Information

- | Revolution | Year | Information |
|------------|------|--|
| 1 | 1784 | Steam, water, mechanical production equipment |
| 2 | 1870 | Division of labour, electricity, mass production |
| 3 | 1909 | Electronics, IT, automated production |
| 4 | ? | Cyber-physical systems |



April 13, 2016

The Fourth Industrial Revolution: What it means, how to respond

Klaus Schwab, Founder and Executive Chairman, World Economic Forum
<https://www.weforum.org/agenda/2016/01/the-fourth-industrial-revolution-what-it-means-and-how-to-respond/>
<http://trainingshare.com/fourth-industrial-revolution-video-clip.php>
<http://www.tubechop.com/watch/828981>



The world is really open to learning.

August 21, 2016

ST Future Economy Roundtable: Is Asia ready for the Fourth Industrial Revolution?

The Straits Times
<http://www.straitstimes.com/asia/is-asia-ready-for-the-fourth-industrial-revolution>



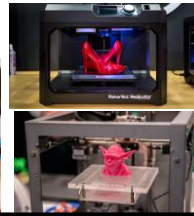
"It's quite clear that the established models of education have to change and adapt to the new environment."

August 17, 2016**Research: 3D Printing Market to Double by 2020**

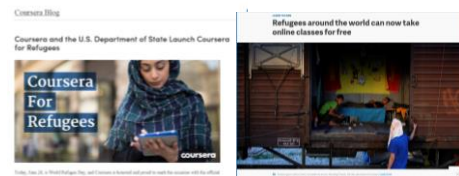
Joshua Bolkan, Campus Technology

<https://campustechnology.com/articles/2016/08/17/research-3d-printing-market-to-double-by-2020.aspx>**Research: 3D Printing Market to Double by 2020**

By Joshua Bolkan · 08/17/16

**May 19, 2016****Pepper the robot needs U.S. programmers, Marco della Carva, USA Today**<http://www.usatoday.com/story/tech/news/2016/05/19/pepper-robot-needs-us-programmers/84461728/>Usual internal link: <http://trainingshars.com/usa2.html>New download link: <https://www.dropbox.com/s/hxcuwqgva20oiv/pepper-the-robot2.mp4?dl=0>**June 7, 2016****Teaching refugees how to code, CNN Money**<http://money.cnn.com/videos/technology/2016/06/07/recorded-future-refugees-code.cnnmoney/index.html>**June 20, 2016****Coursera on a Mission to Help Refugees**

Lauren Camera, US News and World Report

<http://www.usnews.com/stories/articles/2016-06-20/coursera-on-a-mission-to-help-refugees>**July 28, 2016****Knod**

(Per Dr. Michael Mayrath: work with employers to diagnose skills gaps, then provide a platform to deliver content to build those skills in a learn by doing experiences, real projects with employers)

<http://www.knod.net/>**September 21, 2016****Udacity Unveils Nanodegree Program for Self-Driving Car Engineers**

Sri Raviapati, Campus Technology

<https://campustechnology.com/articles/2016/09/21/udacity-unveils-nanodegree-program-for-self-driving-car-engineers.aspx>**Udacity Unveils Nanodegree Program for Self-Driving Car Engineers**

By Sri Raviapati · 09/21/16



Poll:
Read any good books lately
detailing this shift?



Big Magic (2015):
Creative Living Beyond Fear
 Elizabeth Gilbert

<http://www.elizabethgilbert.com/>
<https://www.facebook.com/ElizabethGilbert/>

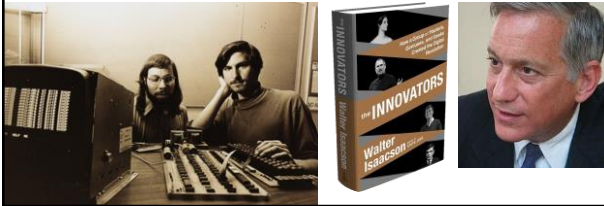


The Innovators:

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/9781476708690>



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-Ground/dp/0062266983>



Artificial Intelligence
John McCarthy, Stanford AI Lab

<http://www.amazon.com/Machines-Loving-Grace-Common-Ground/dp/0062266983>

John McCarthy

- 1955: Develop the phrase "Artificial Intelligence"
- 1959: Programs with Common Sense
- 1960: First LISP implementation
- 1971: Turing Award Recipient



March 14, 2016
Artificial Intelligence and Robots
 Paul Basken, The Chronicle of Higher Education

<https://www.chronicle.com/article/Artificial-Intelligence-and-Robots/238000>
<http://www.wired.com/story/forget-the-robots-heres-where-the-genius-is/>

Behind a Computer's Surprise Victory, Hints of Global Economic Upheaval

By Paul Basken | MARCH 14, 2016



Forget the robots — here come the geniuses!



Intelligence Augmentation and Amplification Douglas Engelbart's "The Mother of All Inventions" (1968) Augmentation Research Center (ARC)

(The live demonstration featured the introduction of the computer mouse, video conferencing, teleconferencing, hypertext, word processing, hypermedia, object addressing and dynamic file linking, bootstrapping, and a collaborative real-time editor.")
<http://www.amazon.com/75c300a-Loving-Grace-Common-Between/dp/0062266883>



Engelbart's prototype of a computer mouse, as designed by Bill English from Engelbart's sketches.



June 10, 2015 Augmented reality promises 'superpowers', and people are listening The USA Today, Marco della Cava

<http://www.usatoday.com/story/tech/2015/06/10/lets-see-what-lets-see-2015/276121>
<http://www.youtube.com/watch?v=aTHCpPaysu>



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



June 3, 2016 Virtual Reality Lets Med Students Experience What It's Like To Be 74 Elyse Wanshel, Huffington Post <http://ht.ly/bSpe300XEPJ>

Virtual Reality Lets Med Students Experience What It's Like To Be 74

These students are in VR for the average med student, who is 24.

VR is not just a game.

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I don't remember what I'm supposed to do

April 10, 2016 Virtual reality tested by NFL as tool to confront racism, sexism Marco della Cava, USA Today <http://www.usatoday.com/story/tech/news/2016/04/10/virtual-reality-tested-nfl-confront-racism-sexism/82624804/>



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


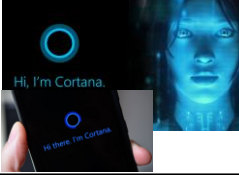
Knowledge Navigator (1987) Apple Computer <http://www.youtube.com/watch?v=chb4A2F6w6c>



October 14, 2011 Siri (co-founder Tom Gruber) <http://www.imore.com/siri>



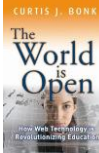
May 9, 2016
Personal Digital Assistants (PDA)
 Personal digital assistants are on the rise (and they want to talk) USA Today, Edward Baig (i.e., Google codename of "Chirp"), Elizabeth Weise, USA Today
<http://www.usatoday.com/story/tech/columnists/baig/2016/05/09/ai-assistant-robots-they-have-answers/8612284/>
<http://www.usatoday.com/story/tech/news/2016/05/12/next-generation-personal-digital-assistants-what-to-expect/8212655/>


The World is Open:
How Web Technology Is Revolutionizing Education

TEN OPENERS: (WE-ALL-LEARN)


1. Web Searching in the World of E-Books
2. E-Learning and Blended Learning
3. Availability of Open Source and Free Software
4. Leveraged Resources and OpenCourseWare
5. Learning Object Repositories and Portals
6. Learner Participation in Open Information Communities
7. Electronic Collaboration
8. Alternate Reality Learning
9. Real-Time Mobility and Portability
10. Networks of Personalized Learning



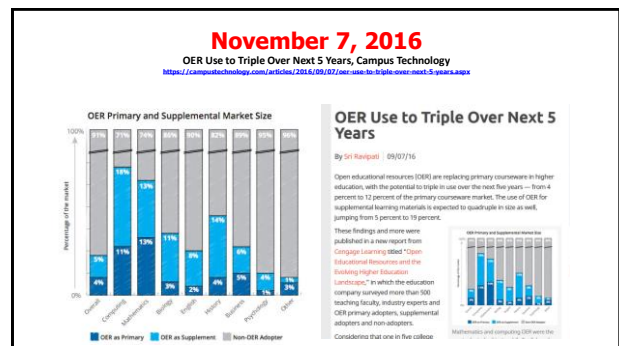
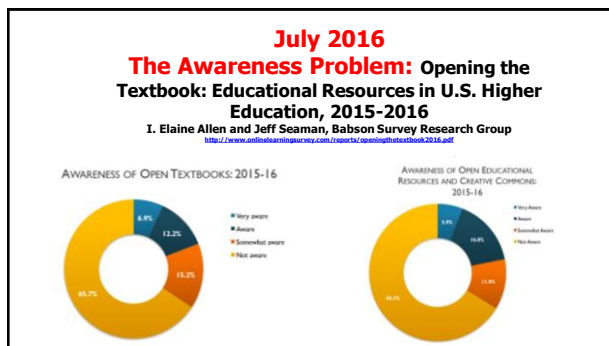
August 5, 2015
Shubham Jaglan (10 years old) Overwhelmed by "Dream" Return Home After Double World Championship
 Disha Chopra, NDTV Sports
<http://sports.ndtv.com/golf/prodigy-shubham-jaglan-overwhelmed-by-dream-returns-home-after-double-world-championship/126751>
<http://www.ndtv.com/video/story/india/2015/08/05/india-shubham-jaglan-returns-home-to-hero-welcome-277363>




April 20, 2015
250 MOOCs and Counting: One Man's Educational Journey, Chronicle of Higher Education
<http://chronicle.com/article/250-MOOCs-Counting-One/228397?cid=at>
 If the MOOC movement has faded, nobody told Jima Ngeli. Mr. Ngeli, who lives in Port Harcourt, Nigeria, has completed and passed 250.



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



January 3, 2017

College is Over

Roger Schank, LinkedIn

<http://www.sandiegouniontribune.com/news/science/sd-me-robots-jobs-20161213-story.html>



College is Over

Published on January 3, 2017

Roger Schank

Professor at University of Texas at Dallas

The Evolution of E-Learning (All 7 year cycles)



Phase I, 1994:
THE AGE OF
PORTALS AND
PAGES (NETSCAPE
GOES PUBLIC).



Phase II, 2001:
THE AGE OF
OPENNESS
(MIT OCW &
WIKIPEDIA BORN).



Phase III, 2008:
THE AGE OF
MOOCs (FIRST
MOOC OFFERED).



Phase IV, 2015
THE AGE OF
PERSONALIZATION.

Other prior significant e-learning dates: 1985: FIRST ONLINE COURSE, LINDA HARASIM, UNIV. OF TORONTO
1987: HYPERCARD FIRST SHIPPED.

January 15, 2016

Wikipedia is 15!

Scott McLemee, Inside Higher Ed

<http://www.insidehighered.com/digital-learning/article/2016/01/15/wikipedia-15>



Wikipedia at 15

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

January 15, 2016
by Scott McLemee

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



WIKIPEDIA 15

April 4, 2016

MIT OpenCourseWare is 15!

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



August 6, 2016

The Web is 25!

Happy (sort of) birthday, World Wide Web!

Erica Fink and Jonathan Tortora, CNN Money (Tech)

<http://info.cern.ch/> (First website)
<http://info.cern.ch/hypertext/WWW/TheProject.html>
<http://money.com.com/2016/08/06/technology/world-wide-web-25-years-old/index.htm#76id=hp-stack-dom>



THE WORLD WIDE WEB
BEGINS ON MARCH 12, 1989

1971

Email is 35 years old!

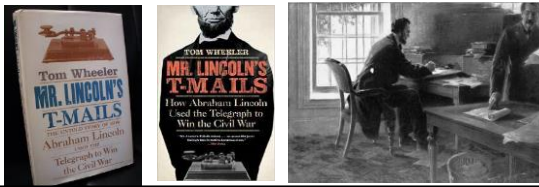
Raymond Tomlinson, inventor of modern email, dies, USA Today (March 7, 2016)

<http://www.usatoday.com/story/tech/2016/03/07/raymond-tomlinson-inventor-modern-email-dies/8142454/>



Invented: May 24, 1844 150 Years since Lincoln needed the Telegraph (T-Mail)

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

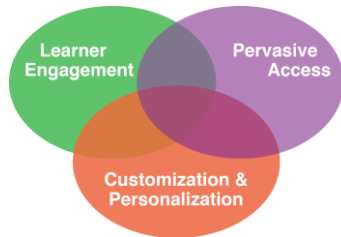


Thirty Ways Learning is Changing...

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



30+ Ways Learning is Changing: The Mega Trends



How Learning is Changing: Mega Trend #1. Learner Engagement



August 23, 2016 (Engagement) Learning is More Visual

e.g., reef videoconferencing
(Great Barrier Reef, Australia)

<http://www.reef.org.au/education-at-reef-the-aquarium/reef-videoconferencing>



May 7, 2015 (Engagement) Learning is More Adventurous

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



July 22, 2016 (Engagement)

Learning is More Game-like

When Pokémon Goes to Campus:

The Good, the Bad, and the Ugly
Gabriel Sandoval, Chronicle of Higher Education

<http://www.chronicle.com/article/When-Pok%C3%A9mon-Goes-to-Campus/237272>



Pokémon Go players converged last week on the U. of Nebraska at Lincoln's Memorial Stadium, which officials had opened to the animated-monster hunters. The hit augmented-reality game has prompted many colleges to jump on the bandwagon.

April 2, 2015 (Engagement)

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 Balg, USA Today

<http://www.usatoday.com/story/tech/samsung/2015/04/02/samsung-challenge-to-challenge-with-galaxy-s6-s6-edge/237272>



NextVR crewmembers set up their virtual reality cameras at an NBA game, allowing viewers of the live event to see the game from a variety of positions in the arena.

July 14, 2016 (Engagement)

Learning is More Synchronous

(e.g., Shindig)

<http://events.shindig.com/event/ftf-wheeler>



February 17, 2016 (Engagement)

Learning is More Mobile

World's Cheapest Smartphone at \$3.67

https://m.facebook.com/haiting/launched?refid=525..._&_%26
https://m.facebook.com/story.php?story_fbid=10153786001211579&id=102527336797
<http://gadgets.ndtv.com/videos/random-251-launched-as-world-s-cheapest-smartphone-at-rs-251-40404>



Samsung Pay on the Gear S3. (Photo: Eli Blumenthal, USA TODAY)



Samsung is hoping to have 10,000 apps by the time the Gear S3 launches this fall.

September 7, 2016 (Engagement)

Learning Apps - Personalized Interfaces for Performance

Elliott Masie's Learning TRENDS; trends@masie.com

Personalized for an employee based on their development goals, competency gaps and changing skill/information matrix in the workplace. A Learning App could provide a just in time set of content, context, collaboration connections, coaching sets and real time feedback.

Learningpool: <https://www.learningpool.com/services/apps-for-learning>



Want "FREE" engagement?

How about

"Adding Some TEC-VARIETY"?

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



What motivates?

1. TonaClimate: Psychological Safety, Comfort, Sense of Belonging
2. Encouragement: Feedback, Responsiveness, Praise, Supports
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

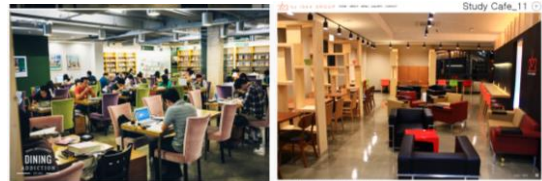


How Learning is Changing: Mega Trend #2. Pervasive Access



August 1, 2016 (Customization) Learning is More Ubiquitous 363 by Idea Group; Study Café Meeting Place; Idea Space (Seoul, Korea)

http://363.co.kr/wp/78w_uanlrcystudy-cafe_11



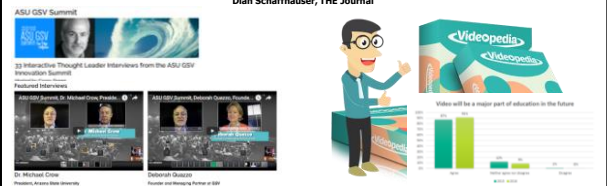
September 28, 2016 (Customization) Learning is More Free Bookshare, An accessibility online library for people with disabilities

<https://www.bookshare.org/>



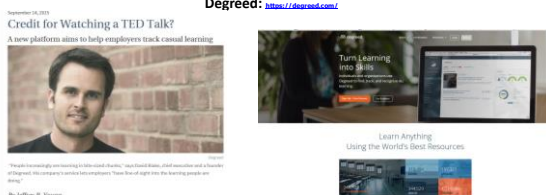
May 4, 2016 (Access) Learning is More Video-Based What I Learned at the ASU GSV Summit Kenneth Green, Inside Higher Ed

July 18, 2016 (Access)
Survey: Video Usage in Ed Continues Ramp-up,
Dian Schaffhauser, THE Journal



September 14, 2015 (Access) Learning is More Video-Based Credit for Watching a TED Talk? A new platform aims to help employers track casual learning Chronicle of Higher Education, Jeffrey R. Young

Degreed: <https://www.degreed.com/>

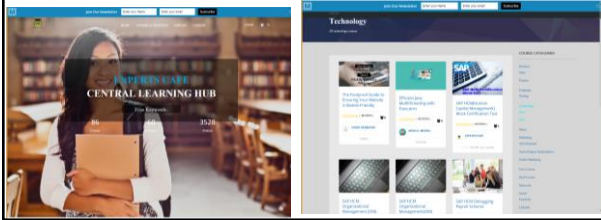


May 14, 2016 (Access) Learning is More Immediate... Mastodon bones offer clues of earliest humans in North America, Faith Karimi, CNN

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/suppl/2016/05/10/2.5.e1600375.DC1/1600375_594.pdf



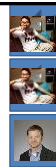
June 20, 2016 (Access)
Learning is More Direct from Experts
 (e.g., The Expert Café)
<http://expertscafe.com/>



June 13, 2016 (Access)
Nine-Year-Old Anvitha Vijay is the Youngest Developer at WWDC (age 9)
 (Apple Worldwide Developers Conference), Gadgets
<http://gadgets.ndtv.com/apps/news/stc-anvitha-vijay-is-the-youngest-developer-at-wwdc-2016-84811576>



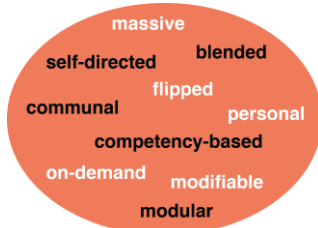
May 4, 2016 (Access)
This Mongolian Teenager Aced a MOOC
Now He Wants to Widen Their Impact
 (140,000 people take the MIT MOOC on Circuits and Electronics, 1 of 300 to get a perfect score)
 The Chronicle of Higher Education, Jeffrey R. Young
<http://chronicle.com/article/This-Mongolian-Teenager-Aced-a-MOOC/236362>



May 19, 2016 (Access)
From MOOC to bootcamp to MIT
MIT News, Office of Digital Learning
 (Jin Wu—from MITx to MIT Global Entrepreneurship Bootcamp to master's student)
<http://news.mit.edu/2016/mooc-bootcamp-mit-0519>

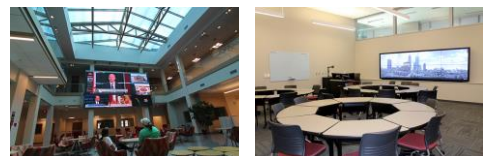


How Learning is Changing:
Mega Trend #3. Customization



September 7, 2016 (Customization)
Learning is More Comfortable

The Future of Collaboration Spaces Encompasses Video
 Interactive, Mobil, Julie Johnston, IU, Campus Technology
<http://campustechnology.com/article.aspx?CID=101276The-Future-of-Collaboration-Spaces-Encompasses-Video-Interactive-Mobil>

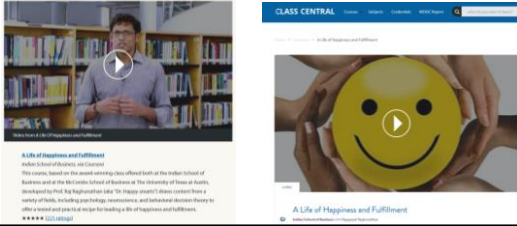


In the Indiana University Media School lobby, a large display will showcase student work and provide interactive sessions. (photo by Allen Major/The Media School @ Indiana University)

August 12, 2016 (Customization)

A Life of Happiness and Fulfillment Indian School of Business, Rajagopal Raghathan

<https://www.class-central.com/mooc/2860/coursera-a-life-of-happiness-and-fulfillment>



August 5, 2015 (Customization)

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

How "micro" online certificate programs are changing the educational landscape

By John A. Waters

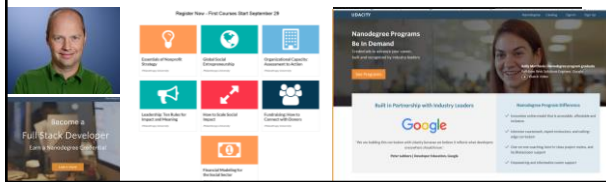


January 13, 2016 (Customization)

Degree gets you a tech job — or your money back

Marco della Cava, USA Today

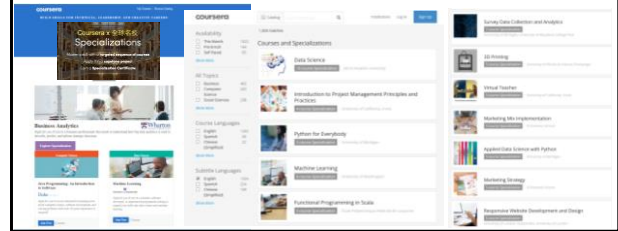
<http://www.usatoday.com/story/tech/news/2016/01/13/degree-gets-you-tech-job-your-money-back/78703230>



July 28, 2016 (Customization)

Coursera Specializations email

Starting Monday August 1st: 9 Top Specializations



MOOCs and Open Education Around the World

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



July 1, 2015 (Customization)

Chapter 14: Creating a Temporary Spontaneous Mini-Ecosystem through a MOOC

Paul Kim and Charlie Chung, Stanford University

Figure 2. Twitter thread announcing the MOOC



June 14, 2016 (Customization)

World First: University of Michigan's Dr. Chuck Holds a Graduation Ceremony for MOOC Students

Anuar Lequerica, Class Central

<https://www.class-central.com/report/dr-chuck-graduation-ceremony-python-specialization/>



August 24, 2016

K-MOOCs (and ocMOOCs and hMOOCs)

Revolutionizing online education

Professor creates courses tailored to cultural differences

Korea JoongAng Daily, Bong-Moon Kim

<http://www.kmooc.kr/>



30+ Ways Learning is Changing: Recapping the Three Mega Trends: Engagement, Access, and Customization



WHAT'S NEXT

September 2, 2016

Humans, the Latest MOOC Feature

Introduction to Philosophy: God, Knowledge and Consciousness (\$300 USD for an identity-verified certificate)

Carl Straumsheim, Inside Higher Ed

<https://www.insidehighered.com/news/2016/09/02/massachusetts-institute-technology-experiments-instructor-grading-massive-open>



October 23, 2016

Ben Gose, The Chronicle of Higher Education

<http://www.chronicle.com/article/When-the-Teaching-Assistant-is-a-Robot/238114>

When the Teaching Assistant Is a Robot

Faculty members experiment with artificial intelligence in the classroom



July 21, 2016
Facebook's Aquila drone completes first test flight

Jessica Gwynn, USA Today

<http://www.usatoday.com/story/tech/news/2016/07/21/facebook-aquila-completes-first-test-flight/87368910/>



An aerial view of Aquila, an autonomous aircraft Facebook is designing to deliver mobile broadband networks to isolated people (mission to fly 60,000 above Earth for up to 3 months at a time; current record for solar-powered unmanned flight is 2 weeks). (Photo: Facebook)

Things are heating up!

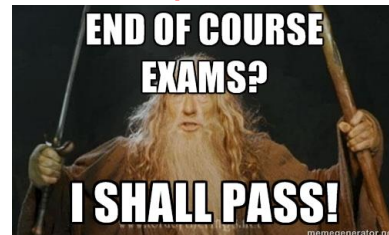


Education 3.0 is coming within reach!



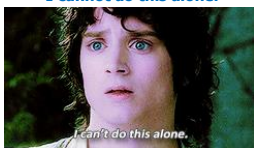
Poll #10:

Who is now interested in Education 20/20...?



Remember for Education 20/20 to meet Education 3.0:
"I cannot do this alone."

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



Any Questions or Comments?

Slides at: TrainingShare.com
 Papers: PublicationShare.com
 Free book: <http://tec-variety.com/>
 Email: curt@worldisopen.com

