Learning is Changing: MOOCs, The Open World, and Beyond
Curtis J. Bonk, Professor, Indiana University
cjbonk@indiana.edu
http://mypage.iu.edu/~cjbonk/

(Circa Confucius 551–479 BCE)

Academos
Plato Circa 428–347 BCE

Poll #1:
Do you prefer this type of education--lectures?
A = Yes
B = No
C = Not sure

Poll #2:
Do you really remember those days of the lecture?

This is a new age of learning and instruction...!
From Instructor as Credit Manager...to...

1. Instructor as Concierge

2. Instructor as Consultant

3. Instructor as Conductor

5. Instructor as Curator

Age of Instructor as Curator, Concierge, Counselor, etc.
Poll #3: Read any good books lately?

1. Drive: The Surprising Truth About What Motivates Us
   Daniel Pink (2009)
   - Freedom, challenge, purpose
   - Creative, interesting, etc.
   - Self-directed work
   - Intrinsic motivation
   - Life as play and possibility
   - Engagement and mastery
   - Autonomy

2. Grit: The Power of Passion and Perseverance
   Angela Duckworth (2016)
   - Growth vs. fixed (i.e., entity) theories of intelligence
   - Intelligence is not fixed
   - Practice, practice, practice
   - Do not blame others
   - Learning goals over performance goals
   - Asks: What can I learn from this?
   - Asks: How can I improve?

   Carol Dweck (2006)
   [link](http://mindsetonline.com/index.html)
   - Growth vs. fixed (i.e., entity) theories of intelligence
   - Intelligence is not fixed
   - Practice, practice, practice
   - Do not blame others
   - Learning goals over performance goals
   - Asks: What can I learn from this?
   - Asks: How can I improve?

   Ed Catmull, President of Pixar Animation and Disney Animation
   [link](http://www.creativityincbook.com/)

Poll #5:
What if you read these books?
Poll #6: Do you remember these computers from the 1980s?

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

Fast Forward 30+ Years...
“Anyone can now learn anything from anyone at any time.”

We are entering a jumping off point...
(South University of Science and Technology of China, Wednesday June 10, 2015)

Thirty Ways Learning is Changing...
(i.e., it’s more informal, video-based, ubiquitous, collaborative, self-directed, global, mobile, open, massive, etc.)

I. Learning is More Mobile
(e.g., mobile courses on smartphone)
April 2, 2015
Review: Samsung rises to challenge with Galaxy S6 and S6 Edge
February 17, 2016
World’s Cheapest Smartphone at $3.67
https://m.facebook.com/hashtag/launched?refid=52&__tn__=%2As

May 14, 2015
Smartphone separation anxiety: How bad is your nomophobia?, Today Health, Meghan Holohan
http://www.today.com/health/smartphone-separation-anxiety-how-bad-20786

March 2, 2015
Beware the smartphone zombies blindly wandering around Hong Kong, Mark Sharp, South China Morning Post

June 22, 2015
Students’ Mobile Learning Practices in Higher Education: A Multi-Year Study
Baiyun Chen, Ryan Seilhamer, Luke Bennett and Sue Bauer, EDUCAUSE Review
http://er.educause.edu/articles/2015/6/students-mobile-learning-practices-higher-education-multiyear-study

January 7, 2015
II. Learning is More Flipped
When a Flipped-Classroom Pioneer Hands Off His Video Lectures, This Is What Happens, Jeffrey R. Young, The Chronicle of Higher Education
http://chronicle.com/article/When-a-Flipped-Classroom/151031/

March 31, 2016
How Sal Khan Hopes to Remake Education, Jeffrey R. Young, The Chronicle of Higher Education
http://chronicle.com/article/How-Sal-Khan-Hopes-to/235895/?cid=trend_au&elqTrackId=a0a5398da05649cdae32e7eabff86f29&elq=673847fe13b64eae8f356b14ec6ec82e&elqaid=8505&elqat=1&elqCampaignId=2808
June 16, 2015
III. Learning is More Video-Based
Lynda.com Excel Training, IU
Acquired for $1.5 Billion, April 23, 2015

August 31, 2015
Short Educational Video Anchors:
CNN, BBC, TED, TED-Ed, ForaTV
BBC One-Minute World News

August 5, 2015
Shubham Jaglan Overwhelmed by “Dream” Return Home After Double World Championship
Disha Chopra, NDTV Sports

April 5, 2016
Association for the Advancement of Computing in Education (AACE), YouTube Channel
https://www.youtube.com/channel/UCTB7tSqnI1VhADciWb_sl9g

September 22, 2014
IV. Learning is More Visual
110 Foot Engagement, Elliott Masie’s Learning 2014

Map Animations
Yes, Mr. President, We Remade Our Atlas to Reflect Shrinking Ice
Christine Dell’Amore, National Geographic, August 3, 2015
March 24, 2015
Maps of Languages
Langscape, Language at Maryland
http://langscape.umd.edu/map.php

V. Learning is More Touch Sensored
October 16, 2013
Corporate Classrooms: Adapting to Change
Chief Learning Officer, Frank Kalman

April 2, 2015
VI. 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.cnn.com/2016/01/07/health/google-cardboard-baby-saved/index.html

July 23, 2015
Meet Osterhout and its $2,700 AR glasses
June 10, 2015
Augmented reality promises 'superpowers', and people are listening
The USA Today, Marco della Cava
http://www.cnn.com/2016/01/07/health/google-cardboard-baby-saved/index.html

March 2, 2016
10 AR/VR sets that take you to another world
USA Today, Marco della Cava
http://www.cnn.com/2016/01/07/health/google-cardboard-baby-saved/index.html

Letsee is an AR app from a South Korean company that allows consumers to scan a product and see a series of product reviews instantly overlaid on top.
April 10, 2016
Virtual reality tested by NFL as tool to confront racism, sexism
Marco della Cava, USA Today

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 it 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.)

March 26, 2014
VII. 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

April 28, 2016
Shindig, Video Chat Tool Future Trends Forum (with Bryan Alexander)
https://bryanaalexander.org/

April 12, 2016
VIII. Learning is More Social
Zuckerberg criticizes Trump’s call for border wall at F8 conference,
Natalie DiBlasio, USA Today
http://www.martoong.com/story/natblasio/usa today/03/12/2016/zuckerberg-criticizes-trumps-call-for-border-walls-atf8-conference/

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)

June 10, 2015
VIII. Learning is More Social
Tencent, Shenzhen, China
May 7, 2015
IX. Learning is More Adventurous
Aaron Doering, Chasing Seals, TEDx

February 2, 2015
X. Learning is More Direct from Experts
Here Comes Professor Everybody: The ‘sharing economy’ meets higher education,
Chronicle of Higher Education, Jeffrey R. Young
http://chronicle.com/article/Here-Comes-Professor-Everybody/151445/?cid=at

March 10, 2016
Videostreamed Conferences
Watch SXSWedu Live, Connie Yowell

January 19, 2015
XI. Learning is More Synchronous
(International Open Badges Extravaganza)
European Meeting in Zoom, November 2015)

May 10, 2016
How a telepresence robot is sparking engagement
Laura DeVaney, eCampus News,
http://www.ecampusnews.com/mobile-technology-2/telepresence-robot-engagement/?ps=cjbonk@indiana.edu

October 23, 2014
XII. Learning is More Digital
New Amazon Kindle is a Voyage into eReader luxury, USA Today, Edward C. Baig
XIII. Learning is More Blended
Universities tap growth of craft beer, offer classes, Chicago Tribune

XIV. Learning is More Immediate
Madagascar marvel: Divers find fossils of extinct giant lemurs
Daisy Carrington, for CNN, March 22, 2015

May 28, 2015
Immediate Science!
Ancient jawbones put new species on the human family tree, researchers say, Laura Smith-Spark, CNN
http://www.nature.com/nature/journal/v521/n7553/full/nature14448.html

May 28, 2015
New species from Ethiopia further expands Middle Pliocene hominin diversity, Nature
http://www.nature.com/nature/journal/v521/n7553/full/nature14448.html

April 1, 2016
Learning is More Immediate
Potential Vikings site in North America spotted from space, Jareen Inman, CNN

January 14, 2016
More Immediate Science...
Move over T. rex, new dinosaur unveiled, Amanda Jackson, CNN
April 1, 2016
More Immediate Science…
(e.g., 2,500-year-old slab reveals lost language, CNN)
(A team of scientists have uncovered a 2,500-year-old slab that may reveal details about the ancient Etruscan civilization; found in Temple foundation north of Florence, Italy.)

May 13, 2016
Abstract:
Full Article:
Supplemental materials (PDF):
PDF:

June 29, 2015
XV. Learning is More Informal
Is Facebook the next frontier for online learning?
Christine Greenhow; greenhow@msu.edu, Andy Henion
http://msutoday.msu.edu/news/2015/is-facebook-the-next-frontier-for-online-learning/

January 15, 2016
Wikipedia at 15
Scott McLemee, Inside Higher Ed

May 14, 2016
Mastodon bones offer clues of earliest humans in North America, Faith Karimi, CNN
Abstract:
Full Article:
Supplemental materials (PDF):
PDF:
May 10, 2016
XVI. Learning is More Competency-Based
Developing a Flexible Degree
Cathy Sandeen, Inside Higher Ed
http://chronicle.com/article/College-On-Your-Own/147659/?cid=at
College, on Your Own: Competency-based education can help motivated students. Nichele Pollock, a student in Northern Arizona U.’s competency-based bachelor’s-degree program, takes a Spanish exam online.

May 5, 2014
XVII. Learning is More On Demand
Mobile MOOCs: New platform challenges conventional MOOCs
eCampus News (https://coursmos.com/)
February 2, 2015
XVIII. Learning is More Hands-On
Makey Makey and the Kano
http://makeymakey.com/
https://vimeo.com/60307041
March 7, 2016
XIX. Learning is More Personal
Personalized Learning: What It Really Is and Why It Really Matters
Michael Feldstein and Phil Hill, EDUCAUSE Review

May 5, 2016
Learning is More Personal
Student-Centered Learning: Functional Requirements for Integrated Systems to Optimize Learning, INACOL

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’

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 courses on Coursera into their native languages.
April 30, 2014
XX. Learning is More Communal
New Learning Hubs Locations Hosted by The New York Public Library and Seven Other Int’l Partners, Coursera Learning Hubs
https://www.coursera.org/about/programs/learninghubs
http://www.coursera.org/about/programs/learninghubs

February 5, 2015
XXI. 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

February 2016
Online Report Card – Tracking Online Education in the United States
Babson Survey Research Group and co-sponsored by the Online Learning Consortium (OLC), Pearson, StudyPortals, WCET and Tyton Partners
http://onlinelearningsurvey.com/reports/onlinereportcard.pdf

March 15, 2015
Learning is More Online
Starbucks offers workers 2 years of free college, CNN Money, Gregory Wallace (from Arizona State online programs)

November 18, 2015
Focused Ga. Mom Completes College Exam While in Labor, Fox 5, Atlanta
October 30, 2015
Migrants get help through German online university

Mihret Yohannes and Jabeen Bhatti, Special for USA TODAY, USA Today

"Kiron (University) relies on existing "mass open online courses," or MOOCs, and works with eight academics from Harvard and MIT to create a two-year course of study. This will provide many refugees with credits that can transfer to 35 traditional, brick-and-mortar universities across Europe that are partners with Kiron."

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

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

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

May 8, 2012
XII. Learning is More Comfortable

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

May 11, 2016
XIII. Learning is More Voice Activated

Google may have its own Echo coming soon (i.e., codename of "Chirp"), Elizabeth Weise, USA Today
http://www.usatoday.com/story/tech/columnist/baig/2016/05/09/siri-creators-think-they-have-smarter-brainchild/84133244/

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

June 17, 2015
XIV. Learning is More Ubiquitous

With Its Invention, This Bengaluru-Based Startup Could Beat Google and Facebook, Kirti Sharma,

"Table comparing the various wireless networks."

April 13, 2016
Facebook debuts terrestrial tech to deliver Internet

Jessica Guynn, USA Today

"Terragraph places small nodes or boxes on lamp posts, buildings, bus stops and the like at distances up to 820 feet apart to bring high-speed Internet to dense urban areas. (Photo: Facebook)"
### August 5, 2014

**XV. Learning is More Free**
OpenStax Aims To Bring Free Digital Textbooks to High Schools, David Nagel, THE Journal

[Link to THE Journal article](http://thejournal.com/articles/2014/08/05/openstax-aims-to-bring-free-digital-textbooks-to-high-schools.aspx)

### February 2013

**XXVI. Learning is More Self-Directed**
TED Talks

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

[Link to Sugata Mitra TED Talk](http://www.ted.com/talks/sugata_mitra_build_a_school_in_the_cloud.html)

### May 26, 2015

**XXVII. Learning is More Global**
Exploring by the Seat of Our Pants

National Geographic, Jessica Shea

[Link to National Geographic article](http://blog.education.nationalgeographic.com/2015/05/26/exploring-the-seat-of-our-pants/)

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

### September 15, 2015

**MOOCs for Social Impact**
Social Learning for Social Impact, edX

Join the world’s first GROOC – a MOOC for groups – to collaborate with others globally and create social change.

[Link to edX course](https://www.edx.org/course/social-learning-social-impact-mcgillx-groocx)

### September 15, 2015

**Social Learning for Social Impact, edX**

Join the world’s first GROOC – a MOOC for groups – to collaborate with others globally and create social change.

[Link to edX course](https://www.youtube.com/watch?v=WNg-5LFAMdI)
April 20, 2015
XXVIII. Learning is More Open
250 MOOCs and Counting: One Man’s Educational Journey, Chronicle of Higher Education
If the MOOC movement has faded, nobody told Jima Ngei. Mr. Ngei, who lives in Port Harcourt, Nigeria, has completed and passed 250.

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

January 13, 2016
As an Open-Access Megajournal Cedes Some Ground, a Movement Gathers Steam
Paul Basken, Chronicle of Higher Education
http://chronicle.com/article/As-an-Open-Access-Megajournal-Cedes-Some-Ground-a-Movement-Gathers-Steam/234890/?key=V9WzHg4QbDkFuXONne07CiwpC5cgiOVgA5_Vr92e1bNrUktRMEhhLXpCT3hONUR3VHN1VWdLUk5ZdFVJUENKVFNWdkpscWJvWmFn

August 4, 2015
XXIX. Learning is More Modular
How Nanodegrees Are Disrupting Higher Education
John Waters, Campus Technology
http://campustechnology.com/articles/2015/08/05/how-nanodegrees-are-disrupting-higher-education.aspx

September 2, 2014
XXX. Learning is More Massive
Sample Course: Open Knowledge: Changing the Global Course of Learning
https://class.stanford.edu/courses/Education/OpenKnowledge/Fall2014/about#
Softcover ($30): http://www.parlorpress.com/invasion_of_the_moocs

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

May 2013
Research Topic #1.
Dropout (i.e., retention) Concerns
MOOCs @ Edinburgh 2013 – Report #1
January 20, 2016
Udemy: “Get cozy with a class”
udemy@email.udemy.com

January 5, 2016
Use Of MOOCs And Online Education Is Exploding: Here’s Why
Josh Bersin, Forbes
http://www.forbes.com/sites/joshbersin/2016/01/05/use-of-moocs-and-online-education-is-exploding-heres-why/290acdda7f09

November 19, 2015
Ten Most Popular MOOCs Starting in November 2015, Class Central Blog
https://www.class-central.com/

September 22, 2015
Who’s Benefiting from MOOCs, and Why
Chen Zhenghao, Brandon Alcorn, Gayle Christensen, Nicholas Eriksson, Daphne Koller, Ezekiel J. Emanuel, Harvard Business Review

May 4, 2016
This Mongolian Teenager Aced a MOOC. Now He Wants to Widen Their Impact
The Chronicle of Higher Education, Jeffrey R. Young
http://chronicle.com/article/This-Mongolian-Teenager-Aced-a/236362

March 4, 2016
MOOCs: vital tools in education of the future – or over-hyped online fad? (embedded video: 8:01)
Euro News, Sarah Chappell
http://www.euronews.com/2016/03/04/moocs-vital-tools-that-are-shaping-the-future-of-education-or-over-hyped-online-fad/
May 26, 2015
Edtech and MOOC Times in China
Michael Trucano On Tue, 05/12/2015, EduTech

June 26, 2015
In China, Where Everything is a MOOC
Education Week, Justin Reich, HarvardX Research Fellow
http://blogs.edweek.org/edweek/edtechresearcher/2015/05/in_china_where_everything_is_a_mooc.html?r=284759497

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

Things are heating up!
http://routledge-ny.com/books/details/9781138807419/

And coming within reach!

MOOCs and Open Education Around the World
http://routledge-ny.com/books/details/9781138807419/
Let’s Review:
Learning is Changing…
(i.e., it’s more informal, video-based, ubiquitous, collaborative, self-directed, global, mobile, open, massive, etc.)

Frank Basile, an aircraft technician, took an MITx course on circuits and electronics to increase his knowledge.

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

Poll #7: Does all this give you a headache?

Not Me…I am happy! and…My minions are happy!

Remember: We are entering a jumping off point…
(South China Normal University, Friday June 12, 2015)

Activity #1:
What are 3 things that you learned?

Activity #2:
Which learning trend is the most important?
Activity #3:
Share Three Words from this Session!

Poll #8:
What happens next…?

Remember:
“I cannot do this alone.”
“I cannot do this alone.”
“I cannot do this alone.”

Any Comments or Questions?
Slides at: TrainingShare.com
Papers: PublicationShare.com
Book: http://tec-variety.com/
Email: curt@worldisopen.com