Learning is Changing: MOOCs, The Open World, and Beyond
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(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

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

4. Instructor as Curator

Poll#2: Read any good books lately?

1. Drive: The Surprising Truth About What Motivates Us
   Daniel Pink (2009)

   - Motivation 3.0
     • 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)

Carol Dweck (2006)
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
http://www.creativityincbook.com/

Poll #3: 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

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
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-in-higher-education-
a-multiyear-study

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.

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-Remake-education/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

Can Indian GDP continue to outstrip China?
5 August 2015 can ordered at 25.-

August 5, 2015

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

Shubham Jaglan returns home to hero’s welcome.
Map Animations
Yes, Mr. President, We Remade Our Atlas to Reflect Shrinking Ice
Christine D'Elia Ficcare, National Geographic, August 3, 2015

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

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.
January 7, 2016
Google Cardboard saves baby's life
CNN, Elizabeth Cohen
http://www.cnn.com/2016/01/07/health/google-cardboard-baby-saved/index.html

Google Cardboard saves baby's life

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

Meet Osterhout and its $2,700 AR glasses

March 2, 2016
10 AR/VR sets that take you to another world
USA Today, Marco della Cava

10 AR/VR sets that take you to another world

April 10, 2016
Virtual reality tested by NFL as tool to confront racism, sexism
Marco della Cava, USA Today

Virtual reality tested by NFL as tool to confront racism, sexism

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/

VII. Learning also is More Collaborative

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

April 12, 2016
VIII. Learning is More Social
Zuckerberg criticizes Trump's call for border wall at F8 conference,
Natalie DiBlasio, USA Today

June 10, 2015
VIII. Learning is More Social
Tencent, Shenzhen, China

May 7, 2015
IX. Learning is More Adventurous
Aaron Doering, Chasing Seals, TEDx
http://chasingseals.com/
https://twitter.com/chasingseals

February 2, 2015
X. Learning is More Direct from Experts
Here Comes Professor Everybody: The 'sharing economy' meets higher education,
Kevin deLaplante, an associate professor at Iowa State U., makes an average of $2,500 per month teaching from his home studio (above) on sites like Udemy.

March 10, 2016
Videostreamed Conferences
Watch SXSWedu Live, Connie Yowell
http://sxswedu.com/live?utm_campaign=Edu+2016&utm_source=hs_email&utm_medium=email&utm_content=27144469&_hsenc=p2ANqtz--ag6U7VJGlpYaciareNq6mryKvA63kCR5O3U8JVQkfAYp7yiTnncHnxw7_PmMpcjioI9V7z1-01hvyCrDPVEARx6HwQ&_hsmi=27144469
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,

October 23, 2014
XII. Learning is More Digital
New Amazon Kindle is a Voyage into eReader luxury, USA Today, Edward C. Baig

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

March 22, 2015
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
May 28, 2015
New species from Ethiopia further expands Middle Pliocene hominin diversity, Nature
http://www.nature.com/2015/05/28/ethiopia-middle-pliocene-hominin-discovery/index.html
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
http://www.cnn.com/2016/01/14/living/titanosaur-new-dinosaur-on-display-new-york-city/

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.

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
Half-Way Point...(Activity #1)
Please Share the Best Two Ideas so Far...

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.
Nichole 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
http://er.educause.edu/articles/2016/3/personalized-learning-what-it-really-is-and-why-it-really-matters

May 5, 2016
X. 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

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

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/onlinelearningreportcard.pdf

June 15, 2014
Learning is More Online
Starbucks offers workers 2 years of free college, CNN Money, Gregory Wallace
(from Arizona State online programs)
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

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
http://www.ted.com/talks/sugata_mitra_build_a_school_in_the_cloud.html

May 26, 2015
XXVII. Learning is More Global
Exploring by the Seat of Our Pants
National Geographic, Jessica Shea
http://blog.education.nationalgeographic.com/2015/05/26/exploring-by-the-seat-of-our-pants/

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

September 15, 2015
MOOCs for Social Impact
Social Learning for Social Impact, edX
Join the world’s first GROOC – a MOOC for groups – to collaborate with others globally and create social change.
https://www.edx.org/course/social-learning-social-impact-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.
https://www.edx.org/course/social-learning-social-impact-mcgillx-groocx

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

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

**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
https://www.euronews.com/2016/03/04/moocs-vital-tools-in-education-of-the-future-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

MOOCs and Open Education Around the World
http://routledge-ny.com/books/details/9781318870419/

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

Poll #4: Does all this give you a headache?

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.”
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 #2: What are 3 things that you learned?

Activity #3: Which learning trend is the most important?

Activity #4: Share Three Words from this Session!

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