Education 3.0: My, Our Learning World is Changing!
Curtis J. Bonk, Professor, Indiana University
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http://mypage.iu.edu/~cjbonk/

(Circa Confucius 551–479 BCE)

Academos
Plato Circa 428–347 BCE

Poll #1:
Do you really remember those days of the lecture?

YOU SHALL NOT PASS
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
Poll #2: Remember Education 1.0
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

Poll #3: Remember education 2.0?

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.”

Poll #4: Do you really remember what was to be education 2.0?

Poll #5: Are you interested in Education 3.0?
A = Yes  
B = No  
C = Not sure

What skills do we need in the 21st Century?
http://21stcenturyskillsbook.com/
http://www.toped.svefoundation.org/2011/08/05/the-digital-natives-are-coming/

What is Education 3.0?
Poll #6: Read any good books lately?

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

2. Grit: The Power of Passion and Perseverance
   Angela Duckworth (2016)

   Carol Dweck (2006)

   Ed Catmull, President of Pixar Animation and Disney Animation

   Elizabeth Gilbert
Scott Barry Kaufman & Carolyn Gregory
http://www.amazon.co.uk/Wired-to-CreatUnraveling-Mysteries-Creative/dp/0399174109

7. Creating Innovators
Tony Wagner (2012)
http://creatinginnovators.com/
- Play
- Passion
- Purpose and life goals
- Open cultures of innovation and interdisciplinary problem solving
- Collaboration
- Intrinsic motivation

Tony Wagner and Ted Dintersmith
http://www.tonywagner.com/1933

Poll #7: What if you read these books?
YOU
SHALL PASS!

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-yours-t20786

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

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

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

June 16, 2015
III. Learning is More Video-Based
Lynda.com Excel Training, IU
Acquired for $1.5 Billion, April 23, 2015
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

March 24, 2015
Maps of Languages
Langscape, Language at Maryland
http://langscape.umd.edu/map.php

October 16, 2013
V. Learning is More Touch Sensored
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
Reviewer: Samsung rises to challenge with Galaxy S6 and S6 Edge,
Edward Baig, USA Today

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.

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.)

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)

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

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

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 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,
Chronicle of Higher Education, Jeffrey R. Young
http://chronicle.com/article/Here-Comes-Professor-Everybody/151445/?cid=at

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

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

May 28, 2015

XIV. Learning is More Immediate
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

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/

May 14, 2016

Mastodon bones offer clues of earliest humans in North America, Faith Karimi, CNN
Abstract: http://advances.sciencemag.org/content/2/5/e1600375
Full Article: http://advances.sciencemag.org/content/2/5/e1600375.full
Supplemental materials (PDF): http://advances.sciencemag.org/content/suppl/2016/05/10/2.5.e1600375.DC1
PDF: http://advances.sciencemag.org/content/advances/suppl/2016/05/10/2.5.e1600375.DC1/1600375_SM.pdf

May 13, 2016

Abstract: http://advances.sciencemag.org/content/2/5/e1600375
Full Article: http://advances.sciencemag.org/content/2/5/e1600375.full
Supplemental materials (PDF): http://advances.sciencemag.org/content/suppl/2016/05/10/2.5.e1600375.DC1
PDF: http://advances.sciencemag.org/content/advances/suppl/2016/05/10/2.5.e1600375.DC1/1600375_SM.pdf
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 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

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/

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
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

Learning is More
Communal

Coursera Seeks to Create a ‘Global Translator Community’

Bring a great education to the world.
Join the 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 key courses on Coursera into new, online languages.

Join the GTC
Visit our translators!

Learning is More Online

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 E. Elaine Allen and Jeff Seaman

June 15, 2014
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
http://www.fox5atlanta.com/story/50990044

Focused Ga. Mom Completes College Exam While in Labor
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."

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/

April 13, 2016
XIV. Learning is More Ubiquitous
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


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
**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
https://www.youtube.com/watch?v=WNg5LFAMdI

**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.youtube.com/watch?v=WNg5LFAMdI

**April 20, 2015**

XXVIII. Learning is More Open
250 MOOCs and Counting: One Man’s Educational Journey, Chronicle of Higher Education
http://chronicle.com/article/250-MOOCsCounting-One/229397/?cid=at

If the MOOC movement has faded, nobody told Jima Ngei. Mr. Ngei, who lives in Port Harcourt, Nigeria, has completed and passed 250.

**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

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/

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 Zhengan, 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/226362
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-in-education-of-the-future-or-over-hyped-online-fad

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/978138807419/

And coming within reach!

MOOCs and Open Education Around the World
http://routledge-ny.com/books/details/978138807419/
Let’s Review:
Learning is Changing…
(i.e., it’s more informal, video-based, ubiquitous, collaborative, self-directed, global, mobile, open, massive, etc.)

Frank Baile, 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 #8: 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)

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