

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



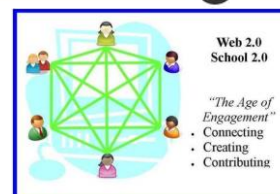
Poll#2: Read any good books lately?

A = Yes
B = No



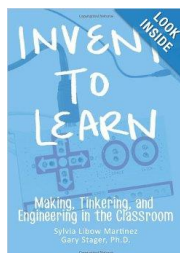
Nine Books About Education 3.0

EDUCATION 3.0



1. Invent to Learn: Making, Tinkering, and Engineering in the Classroom

Sylvia Libow Martinez & Gary Stager (2013)
<http://www.inventtolearn.com/>



Invent to Learn:

Making, Tinkering, and Engineering in the Classroom
Sylvia Libow Martinez & Gary Stager (2013)
<http://www.inventtolearn.com/>

Using technology to:

- Making,
- Tinkering
- Repairing,
- Inventing,
- Customizing
 - the things we need brings engineering, design, and computer science to the masses.

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/>



Finding Your Element: How to Discover Your Talents and Passions and Transform Your Life

By Lou Aronica and Ken Robinson (2013)

<http://www.inventtolearn.com/>

- Find your zone (deep in the throes of exploration and personal passion)
- Think differently (make fresh connections and analogies; avoid groupthink)
- Do something, develop your creative ideas
- Use your imagination, play with ideas
- Free and open exchange of ideas
- Encourage expression of personal ideas/feelings



3. Out of Our Minds: Learning to be Creative

By Sir Ken Robinson (2011)

<http://www.inventtolearn.com/>



4. Makers: The New Industrial Revolution (DIY Culture)

Chris Anderson (2012)

<http://www.inventtolearn.com/>



Makers: The New Industrial Revolution (DIY Culture)

Chris Anderson (2012)

- People make products (and from home)
- Technology (e.g., 3-D printing) makes us all manufacturers
- Instant connections to potential customers
- Hold up things you personally design
- Desktop fabrication
- Do-it-yourself (DIY) industry



5. Drive: The Surprising Truth About What Motivates Us

Daniel Pink (2009)

RSA Animate:

<http://www.youtube.com/watch?v=u6XAPnuFjlc>

http://www.ted.com/talks/dan_pink_on_motivation

<http://www.danpink.com/books/drive/>



Drive: The Surprising Truth About What Motivates Us

Daniel Pink (2009)

Motivation 3.0

- Freedom, challenge, purpose
- Creative, interesting, and self-directed work
- Intrinsic motivation
- Life as play and possibility
- Engagement and mastery
- Autonomy

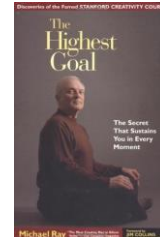


6. The Highest Goal:

The Secret That Sustains You in Every Moment

Michael Ray (2004)

<http://creatinginnovators.com/>



The Highest Goal:

The Secret That Sustains You in Every Moment

Michael Ray (2004)

<http://creatinginnovators.com/>

- Find real meaning
- Become a generative leader
- What makes you feel connected, motivated, sustained
- Travel your own path
- Go beyond passion and success
- Relate from your heart
- Turn fears into breakthroughs



7. Creating Innovators: The Making of Young People Who Will Change the World

Tony Wagner (2012)

<http://creatinginnovators.com/>



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



8. Mindset:

The New Psychology of Success

Carol Dweck (2006)

<http://mindsetonline.com/index.html>

<http://mindsetonline.com/testyourmindset/step1.php>



Mindset:

The New Psychology of Success Carol Dweck (2006)

- 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?



9. Creativity, Inc.

Ed Catmull, President of Pixar Animation and Disney Animation

<http://www.creativityincbook.com/>



9. Creativity, Inc.

Ed Catmull, President of Pixar Animation and Disney Animation

<http://www.creativityincbook.com/>

- Give a good idea to a mediocre team, and they will screw it up. But give a mediocre idea to a great team, and they will either fix it or come up with something better.
- If you don't strive to uncover what is unseen and understand its nature, you will be ill prepared to lead.
- It's not the manager's job to prevent risks. It's the manager's job to make it safe for others to take them.

What skills do we need in the 21st Century?

The Seven Cs – 21st 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

What's unique about these 2 people on the left?



If you had to give a word or phrase to describe "21st Century Skills," what would that word be?

1. Locate info, synthesize it,
2. Use and communicate effectively and ethically,
3. Evaluate products,
4. Producers and consumers of visual info,
5. Sensitive to bias and cultural differences,
6. Sets own goals,
7. Willing to make mistakes,
8. Comparison and contrast skills, inferencing skills,
9. Participate in a team, exercise leadership
10. Make decisions

April 20, 2014 Surging Seas, Climate Central

<http://sealevel.climatecentral.org/>
Climate changes visible by ZIP code with new online tools

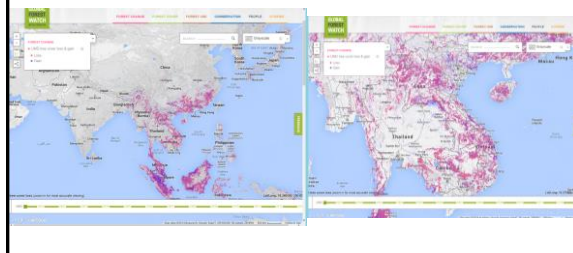
Wendy Koch, USA Today

<http://www.usatoday.com/story/news/nation/2014/04/20/climate-change-new-online-tools/7739415/>



Global Forest Watch

<http://www.globalforestwatch.org/map/3/-3.72/27.00/ALL/grayscale/loss/596>



April 23, 2014 Shakespeare's Dictionary? Skepticism Abounds

Chronicle of Higher Education, Jennifer Howard

<http://shakespearesbeehive.com/barets-alvearle>

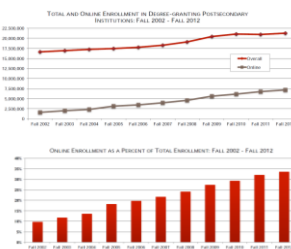


January 2014 II. Learning is More Online Grade Change: Tracking Online Education in the United States, 2013, The Sloan Consortium, I. Elaine Allen & Jeff Seaman,

2013 Survey of Online Learning Report

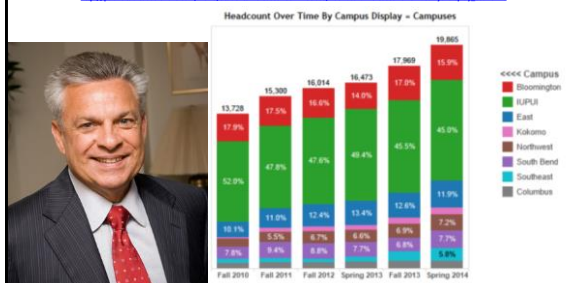
<http://sloanconsortium.org/publications/survey/grade-change-2013>

Direct connect: <http://www.onlinelearningurvey.com/reports/gradechange.pdf>



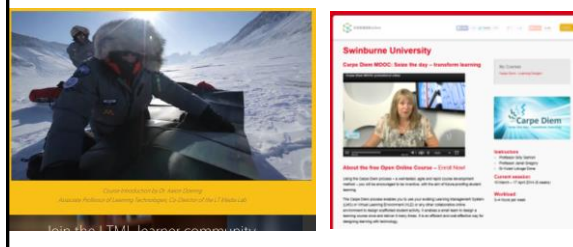
February 2014 IU Online Enrollments (at least one class online)

http://public.salisbury.edu/~www/Views/Studytools/AtLeastOneOnlineClass/Dashboard/AtLeastOne?embed=cy&display_count=50



January 2014 III. Learning is More Massive Designing for Experiences: Principles for Technology

Transformation,
Aaron Doering, U of Minnesota
<http://lt.umn.edu/nexted/>



November 4, 2012

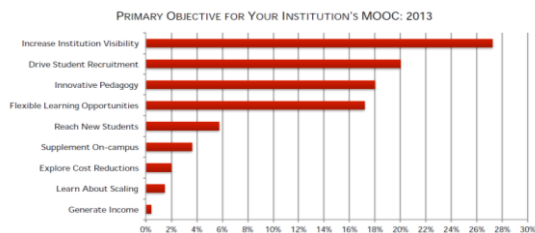
Udemy (professors create own courses)
(e.g., "Planning Your Online Course")
<https://www.udemy.com/courses/>



January 2014

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

<http://sloanconsortium.org/publications/survey/grade-change-2013>
Direct connect: <http://www.onlinelearningurvey.com/reports/gradechange.pdf>

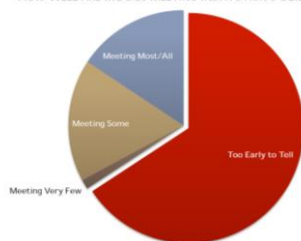


January 2014

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

<http://sloanconsortium.org/publications/survey/grade-change-2013>
Direct connect: <http://www.onlinelearningurvey.com/reports/gradechange.pdf>

HOW WELL ARE MOOCs MEETING INSTITUTION'S OBJECTIVES: 2013



August 18, 2013

Virtual U: Master's Degree Is New Frontier of Study Online
Tamar Lewin, The New York Times
http://www.nytimes.com/2013/08/18/education/masters-degree-is-new-frontier-of-study-online.html?_r=0



September 18, 2013

MIT Will Offer MOOC Curricula, Not Just Single Courses, on edX, Steve Kolowich, Chronicle of HE
<http://chronicle.com/blogs/wiredcampus/mit-will-offer-mooc-curricula-not-just-single-courses-on-edx/66715>

MIT Will Offer MOOC Curricula, Not Just Single Courses, on edX

September 18, 2013, 4:59 am

By Steve Kolowich

MOOC companies are hardly universities unto themselves, but now a provider wants to move beyond offering one-off courses.

MITx, a division of the Massachusetts Institute of Technology that offers courses on the nonprofit edX's platform, announced on Tuesday that it would soon offer special certificates to students who completed a prescribed sequence of massive open online courses from MIT. The sequences will be called XSeries.



But who's taking these MOOCs?

February 20, 2014

Harvard and MIT Release Visualization Tools for Trove of MOOC Data,
Lawrence Biemiller, Chronicle of Higher Education
<http://chronicle.com/article/Harvard-and-MIT-Release-Visualization-Tools-for-Trove-of-MOOC-Data/144444>

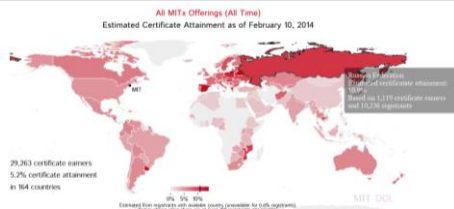
HOME / DATA & RESEARCH / HARVARD INSIGHTS /
World Map of Enrollment



Do they finish? MIT Office of Digital Learning (visualization tools)

<http://ocdl.mit.edu/mitx-insights/world-moc-certificate-attainment/>
All MITx Offerings (All Time)

Estimated Certificate Attainment
as of February 10, 2014



February 5, 2013

Bioelectricity: A Quantitative Approach, Duke University's First MOOC

http://dukespace.lib.duke.edu/dspace/bitstream/handle/10161/6216/Duke_Bioelectricity_MOOC_Fall2012.pdf

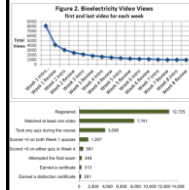
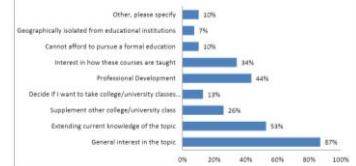


Figure 5. Student motivations for enrolling



May 2013 MOOCs @ Edinburgh 2013– Report #1

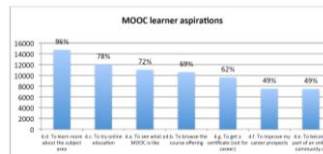
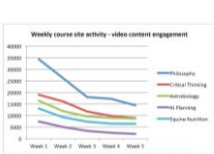


Figure 9: Combined with survey responses to Q4 'What did you hope to get out of the course and did it meet your expectations?' - calculated as a sum of career aspirations, post-expectations, and Self-Directed-expectations responses - with percentage shown of total valid survey respondents.

January 21, 2014

MITx Working Papers (research on MOOCs)

<http://ocdl.mit.edu/mitx-working-papers/>



September 18, 2013 MIT Will Offer MOOC Curricula, Not Just Single Courses, on edX, Steve Kolowich, Chronicle of HE

<http://chronicle.com/blogs/wiredcampus/mit-will-offer-mooc-curricula-not-just-single-courses-on-edx/66715>

MIT Will Offer MOOC Curricula, Not Just Single Courses, on edX

September 18, 2013, 4:30 pm

By Steve Kolowich



Poll #4:

Why would you take a MOOC?

A = For fun

B = To get credit

C = To learn something new

D = Curious about it

E = See if you like a topic



Learning is Becoming More Global

Maguth, Brad M. (Ed.). (2012). *New Directions in Social Education Research: The Influence of Technology and Globalization on the Lives of Students*. Charlotte, NC: Information Age Publishing, Charlotte, NC. (book review, Mimi Lee, Ed Tech Magazine, 2013)



March 26, 2014

Global Collaboration Projects that Go Way Beyond Skype (e.g., Flat Connections project)

By Stephen Noonoo, THE Journal

<http://thejournal.com/articles/2014/03/26/global-collaboration-projects-that-go-way-beyond-skype.aspx>

Collaboration & Social Networking | Feature

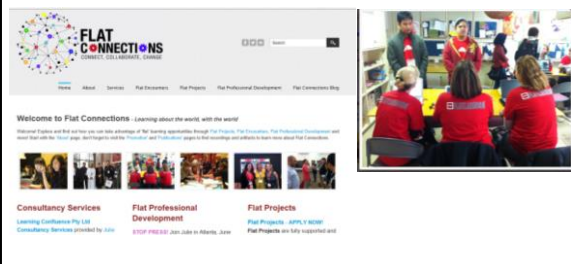
Global Collaboration Projects that Go Way Beyond Skype

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



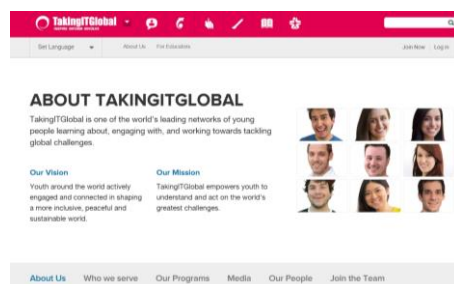
Flat Connections Welcome to Flat Connections - Learning about the world, with the world

<http://www.flatconnections.com/>



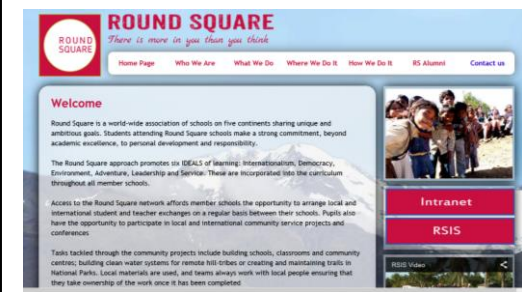
TakingITGlobal

<https://www.tigweb.org/about/>



Round Square

<http://www.roundsquare.org/who.php>

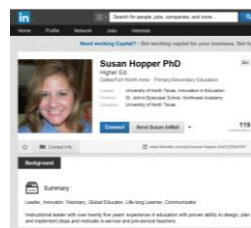


May/June 2014

Hopper, Susan (2014). *Tech Trends*, 58 (3). 78-88.

Bringing the World to the Classroom through Videoconferencing and Project-based Learning

By Susan B. Hopper, University of North Texas



Center for Global Education

Terry Godwaldt founder and director of the Centre for Global Education, located at the Queen Elizabeth High School in Edmonton, Alberta, Canada
<http://tcge.tiged.org/>



World Savvy (global competency matrices)

<http://worldsavvy.org/>



Let's Review: Learning is Changing...

(i.e., it's more open, online informal, video-based, ubiquitous, collaborative, self-directed, global, mobile, 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 #5: Learning is more?

- A = Mobile
- B = Video based
- C = Massive
- D = Collaborative
- E = Open
- F = Global
- G = Online

April 15, 2013 World will soon be "Webified"

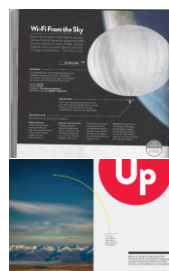
Google boss: Entire world will be online by 2020,
Doug Gross, CNN

http://www.cnn.com/2013/04/15/tech/web/eric-schmidt-internet/index.html?hpt=hp_13



September 2013 Google Wi-Fi from the Sky,

Steven Levy, pp. 126-131, Wired
<http://www.wired.com/gadgetlab/2013/08/googlex-project-loon/>

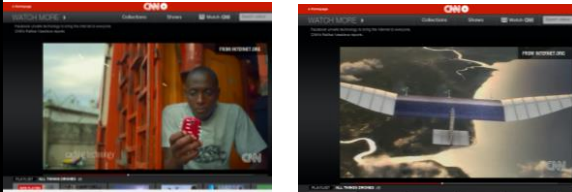


Google X chief Astro Teller (left) and Project Loon's first leader, Rich DeVaul, holding the system's ground-based antennas.

March 30, 2014

All Things Drones, CNN
Facebook unveils technology to bring the internet to everyone. CNN's Ralitsa Vassileva reports.)

<http://www.cnn.com/video/data/2.0/video/tech/2014/03/30/vassileva.facebook.drones.cnn.html>



July 16, 2013

"Golden Era of Learning"
Bill Gates Discusses MOOCs at Microsoft Research's Faculty Summit

http://chronicle.com/article/A-Conversation-With-Bill-Gates/1325917?cid=at&utm_source=at&utm_medium=en

On the Meaning of MOOC's

"Even though I only have a high school degree, I'm a professional student."



Bill Gates Discusses MOOCs at Microsoft Research's Faculty Summit

July 16, 2013, 4:05 am

By Steve Grossman

Bill Gates says that this is the "golden era" of learning. Thanks to



Bill Gates' classroom of the future

By Steve Grossman

July 16, 2013, 4:05 am

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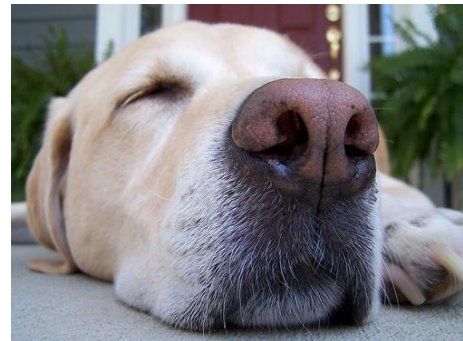
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My dog is content....



I am not Content!!!



May 24, 2010

Author Nicholas Carr, The Web Shatters Focus, Rewires Brains, Wired

http://www.wired.com/magazine/2010/05/ff_nicholas_carr/



WHAT THE INTERNET IS DOING TO OUR BRAINS
THE SHALLOWS
Nicholas Carr
author of THE SHALLOWS


[Sign Up](#)
[Log In](#)


University of Michigan

Turn Down the Heat: Why a 4°C Warmer World Must Be Avoided

This free course will address critical climate change, the world's most pressing environmental problem. This course is part of the [Climate Change Specialization](#), a series of courses that will help you understand the science of climate change, the impacts of climate change, and the solutions to climate change.

What you will learn:

- The science of climate change
- The impacts of climate change
- The solutions to climate change

Who should take this course: Anyone interested in climate change, environmental science, or public policy.



No sessions available

[Add to calendar](#)

Course at a Glance

- **Session 1** - Introduction
- **Session 2** - The Science of Climate Change
- **Session 3** - The Impacts of Climate Change
- **Session 4** - The Solutions to Climate Change

Instructors

[View more courses from University of Michigan](#)

The Global Translator Community

The collage consists of five photographs arranged in a grid-like fashion. The top-left photo shows a male teacher in a brown shirt pointing at a whiteboard with mathematical equations. The top-middle photo shows a classroom with a presentation screen displaying the text 'Learning without Limits' and 'Learners without Limits'. The top-right photo shows a classroom with a presentation screen displaying a list of names. The bottom-left photo shows a large, empty lecture hall with rows of black chairs and a presentation screen at the front. The bottom-right photo shows a group of students sitting around a long table in a meeting or discussion, with a presentation screen displaying a cartoon character in the background.

Learning Hubs Locations

Map showing the global distribution of Learning Hubs locations, marked by red pins across various continents including North America, South America, Europe, Africa, and Asia. The map is sourced from Google Maps.

Professor Auh Yoon-il of Kyung Hee Cyber University explains the upcoming Kyung Hee MOOC 2.0 in an interview with the Korea JoongAng Daily at Kyung Hee University on Wednesday. ("one culture" or ocMOOCs and hMOOCs)

**This is a picture of
my devastated
neighborhood in
Syria.**

January 27, 2014: Maybe it is not so open!
Coursea Support Center,
Why is my country blocked?
 Online education platform Coursea blocks students
 in Syria and Iran, Wamba, by Nina Curley



What about the Instructor
in the Open World?



A Dozen "C"
Metaphors of Instructors
(e.g., "Cat Herders")



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



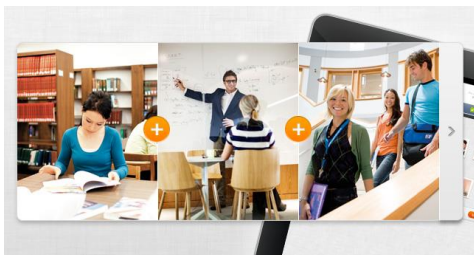
9. Instructor as Camping Trip Guide



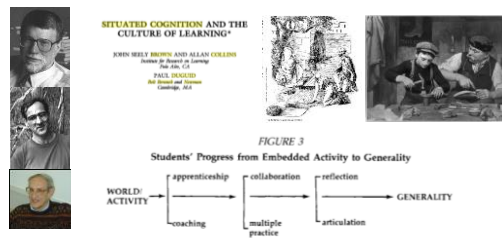
10. Instructor as Cultivator



How About Instruction as a Cognitive Apprenticeship?



Brown, J. S., Collins, A., & Duguid, P. (1988). *Cognitive apprenticeship, situated cognition, and social interaction*. Bolt, Beranek, and Newman, Inc., Technical Report No. 6886.



Why Education 3.0? (Global Education Leaders Program (GELP)) <http://gelponline.org/>

- Globalization
- Demographic Shifts
- Technological Revolution
 - Transfer of ownership to students
 - Collaborative learning technologies
 - Holistic change in complex and interdependent system
 - Higher-order thinking focus



Why Education 3.0? (Global Education Leaders Program (GELP)) <http://gelponline.org/> <http://gelponline.org/http%3A//gelponline.org/resources/gelp-film>



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>

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

Education 3.0: 'Learning Psychology'—Embracing Better Ways to Teach

Jeff Borden, Pearson, October 28, 2013

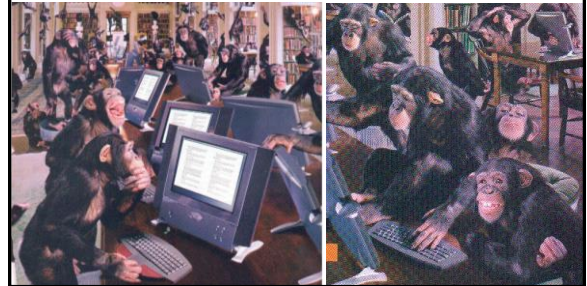
- Calculations (active)
- Compelling questions
- Communication of results
- Critical Thinking
- No single theory, report, or strategy (Vygotsky + McGonigal + Mezirow + Knowles + Pink + Gardner + Wiggins + Etc.

Education 3.0: Embracing Technology to Jump the Curve

Jeff Borden, Pearson, September 24, 2013

- Opportunities for creativity
- Outcomes
- Big data visualization
- Personalization
- On-demand reports
- Machine learning (technology used to empower)

From Tinkering to Tottering to Totally Extreme Learning...



Tinkering



Tinker #1. Supplemental Lectures (e.g., Academic Earth)



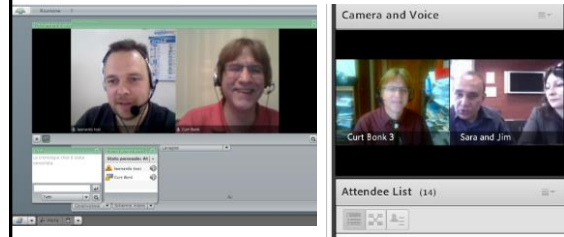
Tottering



Totter #1.

Global Experts via Web Conference

Serious Gaming Institute, Coventry, UK and Leonardo Tosi, Florence, Italy



You Want Totally Extreme?

Apple's new 'spaceship' campus: What will the neighbors say?, Doug Gross, CNN, May 22, 2012

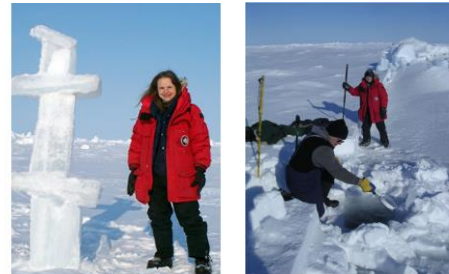
http://www.cnn.com/2012/05/22/tech/innovation/new-apple-campus/index.html?hpt=hp_hp1



Totally Extreme #1.

iPod Learning from MIT OCW

(e.g., Wendy Ermold, University of Washington)



Totally Extreme #2.

Blogging Field Archeology Research

(e.g., Lily Henry Roberts, UCLA digging in Hope, BC, Stó:lō First Nation people from 12,000 years ago)



Totally Extreme #5.

Online Learning Polyglots



Timothy posts videos of himself speaking several languages on YouTube.

Where are we headed?



1. Mobile Video Connections to Experts and Friends



2. Expert Access from Our Watches



3. Interactive Globes

(e.g., NY Times Interactive Photo Globe)

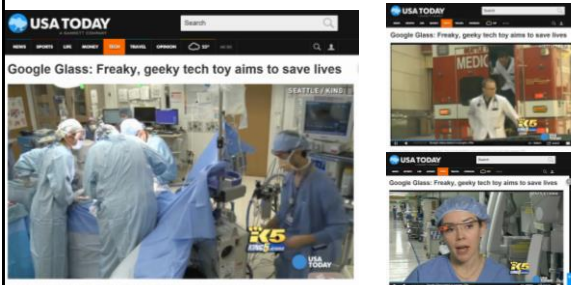
http://www.nytimes.com/interactive/2010/05/03/blogs/a-moment-in-time.html?_r=0



4. Google Glass: Freaky, geeky toy aims to save lives

USA Today, Marco della Cava, March 3, 2014

<http://www.usatoday.com/story/tech/2014/03/28/people-glass-devices-saving-lives/5718577/>



6. Mobile MOOCs

May 5, 2014

New platform challenges conventional MOOCs

eCampus News

<http://www.ecampusnews.com/top-news/new-platform-challenges-conventional-moocs/print/>



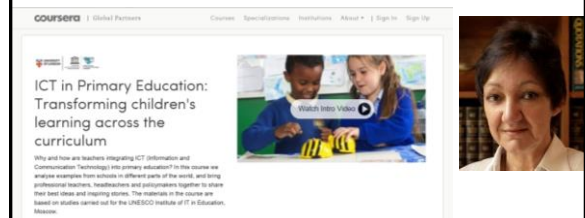
January 27, 2014 What's next for MOOCs?

TED talk, posted by Thu-Huong Ha
<http://blog.ted.com/2014/01/27/whats-next-for-moocs/>



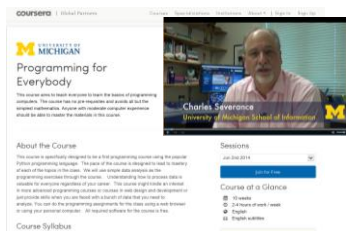
First Some Summer PD... a MOOC?

Starts May 27, 2014 (in Coursera)
MOOC: ICT in Primary Education:
Transforming children's learning across the curriculum
<https://www.coursera.org/course/ictinprimary>
Instructors: Professor Diana Laurillard and others at the University of London
Knowledge Lab in joint collaboration with the UNESCO Institute of IT in Education.



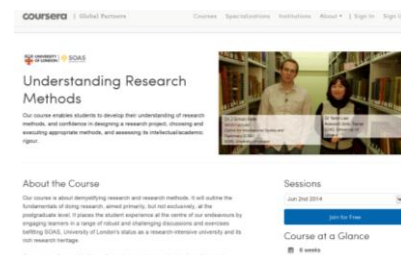
Some more Summer PD... another MOOC?

Starts June 2, 2014 (in Coursera)
Programming for Everyone
Chuck Severance, University of Michigan
<https://www.coursera.org/course/pythonlearn>



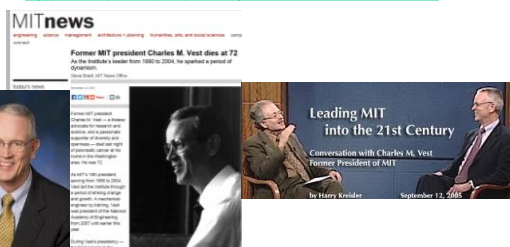
Still some more Summer PD? June 2, 2014

Understanding Research Methods,
Coursera, University of London
<https://www.coursera.org/course/researchmethods>



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



Who is Content Now?

Website: www.Extreme-Learning.com

Slides at: TrainingShare.com

Book: <http://worldisopen.com/>

Dr. Curt Bonk – CJBonk@Indiana.edu

