

### I am Not Content: The Future of Education Must Come Today...!!!

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September 17, 2012

### Education 2022: A 360 Degree View Ten predictions of 2022

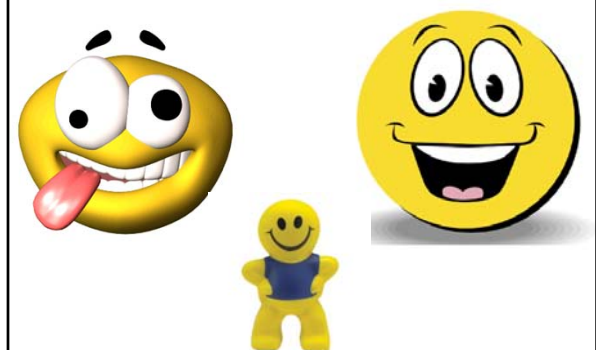
John Mayerhofer & Alex Zhu, SAP Training & Educ.

[https://docs.google.com/document/d/1Tf9Wv\\_a8FC7Aa4F9Vv0547W0y3A8A2UmP0T-9y90j487/edit](https://docs.google.com/document/d/1Tf9Wv_a8FC7Aa4F9Vv0547W0y3A8A2UmP0T-9y90j487/edit)

- |                      |                           |
|----------------------|---------------------------|
| 1. Learner-Driven    | 6. Holistic               |
| 2. Openly Accessible | 7. Teaching Redefined     |
| 3. Personalized      | 8. Policy Redefined       |
| 4. Social            | 9. Industry Engaged       |
| 5. Ubiquitous        | 10. Achievement Redefined |



### I'm Happy...Are you Happy?



### Shovelware



### Audience Poll #1: Has learning technology has ever transformed your life.



## Change not possible as an accountant...

(Life as a CPA, 1981-1986)

Property of Museum of History & Industry, Seattle

## Technology of the 1980s

**Radio Shack TRS-80 Model III**

**Introduced:** July 1980

**Price:** US \$699 base model  
US \$2495 w/ 32K, dual drives.

**CPU:** Zilog Z-80, 2.03 MHz

**RAM:** 4K, 48K max.

**Ports:** Cassette tape, expansion, serial

**Display:** 12-inch B&W monitor 64 x 16 text

**Storage:** 0, 1, or 2 internal 170K floppy drives  
External cassette @ 500 / 1500 baud

**OS:** BASIC in ROM, TRS-DOS on disk

## Decided to Read, Read, Read...

(e.g., People like Albert Bandura, Howard Gardner, Roger Schank, Elliot Soloway, etc.)

## Took Correspondence & TV Courses

(thanks to Bob Clasen and Charles Wedemeyer, the University of Wisconsin)

## Looking to the Past...

## Fast Forward 25-30 Years...

"Anyone can now learn anything from anyone at any time."

Join us! Start learning and discover unique classes in your city

**Sept. 2011 (CLO): Learning is More Tech-Driven  
New Technologies =  
New Delivery Methods...**

Learning Delivery  
How Do You Deliver Learning?

**May, 2012  
Robots teaching English and Virtual Worlds  
Dr. Meeyong Kim, Dajeon, Korea**

**Oct. 3, 2012: Learning is More Personal  
Episode 99: What Wearable Computers Could Mean for  
Campuses, Jeffrey R. Young, Chronicle of HE**

<http://techtherapy.com/blog/techtherapy/2012/10/03/episode-99-what-wearable-computers-could-mean-for-campuses/>

Tech Therapy think

Episode 99: What Wearable Computers Could Mean for Campuses  
October 3, 2012, 4:41 pm  
By Jeffrey R. Young

Wearable computers may be coming to campus sooner than you think. Google recently announced "Project Glass" - "suggested reality" devices. The Tech Therapy described cyborg anthropologist, about what the Links discussed in this episode: Google's P

**June 2011: Learning is More Collaborative  
Aces of Spaces, Campus Technology, Jennifer Demski**

CAMPUS TECHNOLOGY LIGHTS! CAMERA! ACTION!

at Lehigh University from students like "spright students" performing, allowing them to use their own computers to control digital content in the room.

**Learning is More Active  
University of Minnesota  
Active Learning Classrooms (ALC)**

UNIVERSITY OF MINNESOTA  
Driven to Discover

Office of Classroom Management  
Office of Undergraduate Education

Home • Planning and Projects • U of M Active Learning General Purpose Class

**Active Learning Classroom (ALC)**  
Student centered, interactive, integrated, flexible, active learning spaces.

Watch how ALCs in STSS are utilized.  
Video credits: produced by Robin Wright, created by Andy Underwood-Bultmann.

**Learning is More Social**



**October 19, 2012**  
**Facebook to help overhaul ICT curriculum, Money, Andrew Marszal, Telegraph**  
<http://www.ashorath.com/Education/educationnews/2643725/Facebook-to-help-overhaul-ict-curriculum.html>  
 (Facebook reached 1 billion users, Oct 4, 2012, CNN Money)  
[http://money.cnn.com/2012/10/04/technology/facebook/?hpid=hp\\_hp\\_biz](http://money.cnn.com/2012/10/04/technology/facebook/?hpid=hp_hp_biz)

**April 12, 2011: Learning is More Free**  
**NCTM Conference, Free Online Degrees; Integration of Science, Mathematics, and Reflective Teaching (iSMART) University of Houston**

You see the big picture. You find the connections.  
 Make it official - become iSMART.

**Jen Chauvot and Mimi Lee, Univ of Houston**

**April 29, 2012: Learning is More Open**  
**Open Education's Wide World of Possibilities, Chronicle of Higher Education, Katherine Mangan**  
[http://chronicle.com/article/Open-Education's-Wide-World-of-Possibilities/1316727?cid=at&utm\\_source=at&utm\\_medium=cn](http://chronicle.com/article/Open-Education's-Wide-World-of-Possibilities/1316727?cid=at&utm_source=at&utm_medium=cn)

**Aug 22, 2011: Learning is More Inclusive**  
**Worldreader: What Makes Ed Tech Successful in the Developing World?, ReadWriteWeb, David Risher**  
[http://www.readwriteweb.com/archives/what\\_makes\\_educational\\_technology\\_successful\\_in\\_the\\_developing\\_world/](http://www.readwriteweb.com/archives/what_makes_educational_technology_successful_in_the_developing_world/)  
<http://www.worldreader.org/>

**Mobile Lorm Glove - A communication device for deaf-blind people.**  
<http://www.youtube.com/watch?v=FLfa9ni7X3I>

**Feb. 21, 2012: Learning is More Flipped**  
**Rethinking Learning with Salman Khan**  
 Stanford Graduate School of Business  
<http://www.youtube.com/watch?v=Wvj68H0a5w>  
**Khan Academy Founder Finds Simplicity Appeals in Online Education Experimentation**  
<http://www.pbs-stanford.edu/news/theaffairs/khan-academy.html>  
**Let's use video to reinvent education, TED, March 2011**  
[http://www.ted.com/talks/salman\\_khan\\_let\\_s\\_use\\_video\\_to\\_reinvent\\_education.html](http://www.ted.com/talks/salman_khan_let_s_use_video_to_reinvent_education.html)


### August 14, 2012: Learning is More Ubiquitous

**"Some universities require students to use e-textbooks,"**  
**Yasmeen Abutaleb, USA Today**  
<http://www.usatoday.com/story/money/markets/story/2012-08-13/e-textbooks/57039872/1>

**Some universities require students to use e-textbooks**

By Yasmeen Abutaleb, USA TODAY

Students don't seem to want to buy e-textbooks. So some schools are simply forcing them.



While several colleges across the country are pushing electronic textbooks, touting them as more efficient and less cumbersome than regular textbooks, students are reluctant. E-textbooks still account for only 3% of textbook purchases, says Student Monitor, which researches college student behavior.

**STORY:** Students, families, seek ways to trim college costs  
**STORY:** Credit cards and college students can be a dangerous mix  
**STORY:** "How excited can you expect to get about an e-textbook?" Student Monitor President Eric Wood says. "It's not a billion dollars, it's not a dollar spend. It has to measure the advantages that students see (in) a printed textbook."

### August 31, 2012: Learning is More in the News

**Digital Tools, Chronicle of HE**  
<http://chronicle.com/article/Almanac-2012-Technology/133769/>

**Venture-Capital Investment in Education-Technology Companies, 2002-11**

Investments in education-technology companies nationwide tripled in the last decade, shooting up even during the recent economic recession. Such investments grew to \$4.29-billion in 2011 from \$1.49-billion in 2002.



Year	Sum of equity invested (Millions of dollars)	Number of deals (Thousands)
2002	~150	~20
2003	~150	~20
2004	~150	~20
2005	~150	~20
2006	~150	~20
2007	~150	~20
2008	~250	~30
2009	~350	~40
2010	~450	~50
2011	~429	~50

### August 17, 2012: Learning is More Online

**NFL gets serious about fan conduct (disruptive fans must take online courses), ESPN.com, Darren Rovell,**  
[http://espn.go.com/nfl/story/\\_/id/9278886/nfl-require-ejected-fans-take-online-fan-conduct-course](http://espn.go.com/nfl/story/_/id/9278886/nfl-require-ejected-fans-take-online-fan-conduct-course)



**NFL gets serious about fan conduct**

The NFL is getting more serious about conduct in the stadium this year, its teams are requiring any fan who gets ejected from a game to take an online course before they are permitted to come back to the stadium, designed by ESPN.com's Darren Rovell. An NFL security director stated that the course will be mandatory for fans who have been ejected from the stadium. As part of a review of their best practices, the NFL is offering fans this option.

This program was designed to be easy for people. We want you to have fun when you come to a game, but you have to follow the rules.

### August 27, 2012

**Online University For All Balances Big Goals, Expensive Realities, Claudio Sanchez, NPR**  
<http://www.npr.org/blogs/alltechconsidered/2012/08/27/160116814/online-university-for-all-balances-big-goals-expensive-realities>  
**Audio:** <http://www.npr.org/player/v2/mediaPlayer.html?action=1&cat=1&fileId=160116814&w=160135903>

Students work at the University of the People student computer center in Haiti. Students from 129 countries are currently enrolled with the institution



**Online University For All Balances Big Goals, Expensive Realities**

Naylea Omayra Villanueva Sanchez, 26, lives on the edge of the Haitian rain forest in Yauco, near Port-au-Prince.

### September 12, 2012

**How online courses will revolutionize college,**  
**Mary Beth Marklein, USA TODAY**  
<http://www.wtsp.com/news/article/2732431/81/How-online-courses-will-revolutionize-college>

**How online courses will revolutionize college**

© 12 PM, Sep 12, 2012 | 0 comments



Students are taking more online courses, and that's changing the way college is taught. Mary Beth Marklein, USA Today, reports that online courses are becoming a more popular option for students. The article discusses how online learning is revolutionizing the traditional college experience.

### More than six million post-secondary students are taking online classes in the USA; growing by 10% per year.

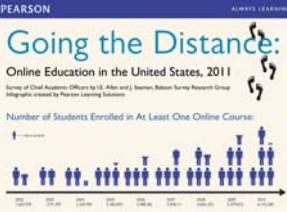
[http://sloanconsortium.org/publications/survey/going\\_distance\\_2011](http://sloanconsortium.org/publications/survey/going_distance_2011)

**PEARSON ALWAYS LEARNING**

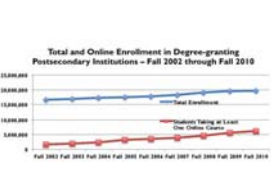
**Going the Distance: Online Education in the United States, 2011**

Survey of Chief Academic Officers by V. Allen and J. Sorenson, Sloan Survey Research Group. Infographic created by Pearson Learning Solutions.

**Number of Students Enrolled in At Least One Online Course:**




**Total and Online Enrollment in Degree-granting Postsecondary Institutions - Fall 2002 through Fall 2010**



Year	Total Enrollment	Students Taking at Least One Online Course
Fall 2002	~15,000,000	~1,500,000
Fall 2003	~15,000,000	~1,800,000
Fall 2004	~15,000,000	~2,100,000
Fall 2005	~15,000,000	~2,400,000
Fall 2006	~15,000,000	~2,700,000
Fall 2007	~15,000,000	~3,000,000
Fall 2008	~15,000,000	~3,300,000
Fall 2009	~15,000,000	~3,600,000
Fall 2010	~15,000,000	~3,900,000

**U.S. DEPARTMENT OF EDUCATION**

Evaluation of Evidence-Based Practices in Online Learning  
A Meta-Analysis and Review of Online Learning Studies




U.S. Department of Education  
Office of Planning, Evaluation, and Policy Development  
Policy and Program Studies Service

Revised September 2010



Prepared by  
Barbara Means  
Yukie Toyama  
Robert Murphy  
Marianne Bakia  
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Center for Technology in Learning

**Poll #2: Is this a revolution in education today?**

**A. Yes...**  
**B. No...**



**The Web of Learning**

**The World is Open...  
It is very open!**



**Framework #1: WE-ALL-LEARN:  
Ten Forces that Opened the Learning World**

- W**eb Searching in the World of e-Books
- E**-Learning and Blended Learning
- =====
- A**vailability of Open Source and Free Software
- L**everaged Resources and OpenCourseWare
- L**earning Object Repositories and Portals
- =====
- L**earner Participation in Open Info Communities
- E**lectronic Collaboration and Interaction
- A**lternate Reality Learning (e.g., MMOG, Second Life)
- R**ead-Time Mobility and Portability (e.g., iPhone)
- N**etworks of Personalized Learning (Blogs, RSS)



**Audience Participation!**

**1. WE**

**2. ALL**

**3. LEARN!!!**






**My dog is content....**



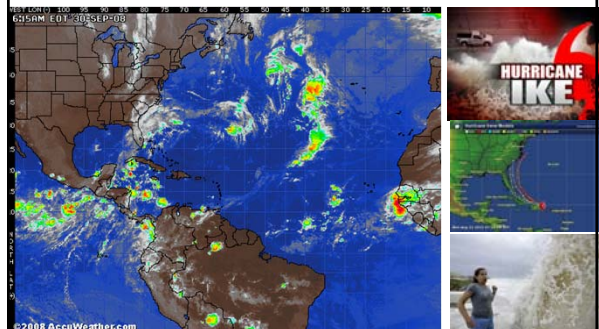
**I am not Content!!!**



**The Potential Result...**



**Who needs online and blended learning?  
(Katrina, August 2005; Ike, Sept 2008; Irene,  
August 2011; Isaac, August 2012)**



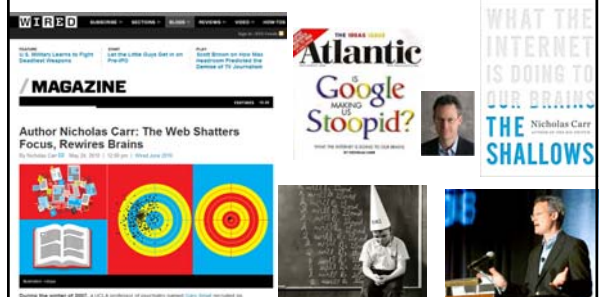
**Those where there  
are diseases and  
outbreaks...(SARS,  
2003; H1N1, 2009-  
2010)**



**May 24, 2010**

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

[http://www.wired.com/magazine/2010/05/ff\\_nicholas\\_carr/](http://www.wired.com/magazine/2010/05/ff_nicholas_carr/)





**September 27, 2012**  
**The Crisis in Higher Education, Nicholas Carr, Technology Review**  
<http://www.technologyreview.com/featured-story/429376/the-crisis-in-higher-education/>

**September 27, 2012**  
**The Crisis in Higher Education, Nicholas Carr, Technology Review**  
<http://www.technologyreview.com/featured-story/429376/the-crisis-in-higher-education/>

Undergraduate enrollment in the United States

1970	1980	1990	2000	2010
7.4m	10.5m	12m	13.9m	18.3m

Average cost of a year on campus **\$27,435**

Percentage of people who say the value is fair or poor **57%**

Data from Institute of Education Sciences and Pew Research Center.

**September/October, 2012**  
**The Siege of Academy**  
**Washington Monthly, Kevin Carey,**  
[http://www.washingtonmonthly.com/magazine/septemberoctober\\_2012/features/\\_its\\_there\\_eidosc\\_4m33373.php?page=all](http://www.washingtonmonthly.com/magazine/septemberoctober_2012/features/_its_there_eidosc_4m33373.php?page=all)

**October 10, 2012**  
**How Australian university can play in the MOOCs market, David Sadler, The Conversation, Australia**  
<http://theconversation.edu.au/how-australian-universities-can-play-in-the-moocs-market-9735>

THE CONVERSATION

10 October 2012, 9:30am AEST

How Australian universities can play in the MOOCs market

**October 11, 2012**  
**MOOC and you're out of a job: uni business models in danger, Mark Gregory, The Conversation, Australia**  
<http://theconversation.edu.au/mooc-and-youre-out-of-a-job-uni-business-models-in-danger-9738>

THE CONVERSATION

Academics and universities might need to be careful of what they wish for with free online education.



**October 12, 2012**  
**Radical rethink: how to design university courses in the online age, Paul, Wappett, The Conversation, Australia**  
<http://theconversation.edu.au/radical-rethink-how-to-design-university-courses-in-the-online-age-9737>

**THE CONVERSATION**

**TRADITIONAL STUDY MODEL – LINEAR**

The diagram shows a grid of 12 columns representing weeks and 4 rows representing different components of a course. The first row is labeled 'Lecture', the second 'Reading', the third 'Assessment', and the fourth 'Feedback'. Each cell in the grid contains a small icon representing a learning activity. The flow is strictly linear from left to right and top to bottom.

**October 12, 2012**  
**Radical rethink: how to design university courses in the online age, Paul, Wappett, The Conversation, Australia**  
<http://theconversation.edu.au/radical-rethink-how-to-design-university-courses-in-the-online-age-9737>

**THE CONVERSATION**

**ONLINE STUDY MODEL – DYNAMIC**

The diagram shows a network of interconnected nodes representing learning activities. The nodes are arranged in a non-linear fashion, with arrows indicating multiple paths and interactions between different activities. Labels include 'LEARNING OBJECTIVES', 'ASSESSMENT', and 'FEEDBACK'. The flow is dynamic and non-linear.

**September 10, 2012**  
**Credentials in the cloud: how will MOOCs deal with plagiarism?, Beverly Oliver,**  
<http://theconversation.edu.au/credentials-in-the-cloud-how-will-moocs-deal-with-plagiarism-8581>

A photograph showing several hands holding up various electronic devices including a tablet, a laptop, a smartphone, and a smartwatch. The background is a bright blue sky with white clouds.

**September 21, 2012**  
**As Online Courses Grow, Sites Offering Unauthorized Academic Help Get More Brazen, Chronicle of Higher Education, Alisha Azevedo**  
<http://chronicle.com/blogs/article/as-online-courses-grow-sites-offering-unauthorized-academic-help-get-more-brazen-80297>

As Online Courses Grow, Sites Offering Unauthorized Academic Help Get More Brazen  
 September 21, 2012, 11:52 am  
 By Alisha Azevedo

Two screenshots of websites. The left one is 'WE TAKE YOUR CLASS' with a call number (917) 300-9820 and a headline 'WE TAKE YOUR ONLINE COLLEGE CLASSES FOR YOU AND GET YOU AN "A"'. The right one is 'UNEMPLOYED PROFESSORS.COM' with a headline 'The one hour you write me makes your papers get done!'.

**How can technology address diverse learner needs?**

A collage of images. On the left, a person is wearing a headset and using a laptop. On the right, there is a collage of various people's faces, some looking at screens, representing diverse learners.

**Framework #2: The R2D2 Method**

- 1. Read (Auditory and Verbal Learners)**
- 2. Reflect (Reflective Learners)**
- 3. Display (Visual Learners)**
- 4. Do (Tactile, Kinesthetic, Exploratory Learners)**

On the left is the book cover for 'Empowering Online Learning' by Curtis J. Beak and Xia Zhang, featuring '100+ Activities for Reading, Reflecting, Displaying & Doing'. On the right is a circular diagram with four quadrants: 'Reading' (top, blue), 'Reflecting' (right, red), 'Displaying' (bottom, green), and 'Doing' (left, yellow). Each quadrant contains specific learning activities.

## 1. Auditory or Verbal Learners

- Auditory and verbal learners prefer words, spoken or written explanations.



## Read 1a. Learning Planet: Interactive Glossary Umida Khikmatillaeva, Dec. 2011, P540 <http://learningplanet.shutterfly.com/>



## Reflect 2a. Discuss Videos (e.g., Grockit Answers and Vialogues; <https://vialogues.com/>)



## Display 3a. Segment Video Anchors (e.g., TubeChop of V-PORTAL: Video Primers in an Online Repository of e-Teaching and Learning; "Wikibooks Hooray for Us") <http://www.tubechop.com/watch/378752>



## Do 4a. Negotiate Meanings Online (e.g.m MeetingWords: <http://meetingwords.com/>)

MeetingWords is a simple text editor for the web.  
Your text is saved on the web, and more than one person can edit the same document at the same time. Everybody's changes are instantly reflected on all screens.  
Work together on meeting notes, brainstorming sessions, homework, team programming and more!



## We are not motivating students with the technologies that they love!



**October 9, 2012**

**MOOCs and exercise bikes – more in common than you'd think, Robert Nelson and Phillip Dawson, The Conversation, Australia**

<http://theconversation.edu.au/moocs-and-exercise-bikes-more-in-common-than-you-d-think-9726>

**THE CONVERSATION**




Are you motivated or do you need a social setting and role models to keep you driven?

**Ok, Million Dollar Question:**

**How do you motivate online learners?**


**What Words come to mind?**

**(Please enter in chat window)**



**Framework #3: TEC-VARIETY for Online Motivation and Retention**

1. **Tone/Climate:** Psych Safety, Comfort, Belonging
2. **Encouragement, Feedback:** Responsive, Supports
3. **Curiosity:** Surprise, Intrigue, Unknowns
- ...
4. **Variety:** Novelty, Fun, Fantasy
5. **Autonomy:** Choice: Flexibility, Opportunities
6. **Relevance:** Meaningful, Authentic, Interesting
7. **Interactive:** Collaborative, Team-Based, Community
8. **Engagement:** Effort, Involvement, Excitement
9. **Tension:** Challenge, Dissonance, Controversy
10. **Yields Products:** Goal Driven, Products, Success, Ownership



**1. Tone/Climate:**

**A. Video Course Intros**

**B. Mood Walls**

Yun Yun Chow, Open U Malaysia, Making Art Lessons Come Alive with Web 2.0

<http://www.youtube.com/watch?v=BO9rqJD1GXo>

[http://www.youtube.com/moodwall\\_testtube](http://www.youtube.com/moodwall_testtube)



**2. Encouragement, Feedback, etc.:**

**A. Create Screencasts Website Polling**

**B. GrammarCheck.net**

**(e.g., Poll Everywhere, BlogPolls, BlogPoll, MicroPoll)**

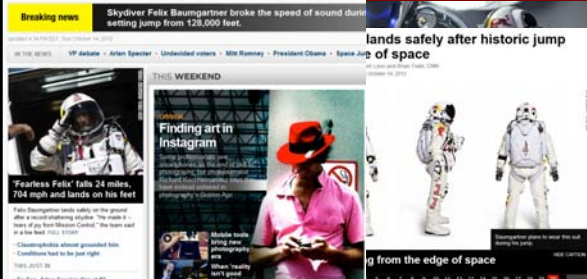
<http://www.pollerywhere.com/>



**3. Curiosity, Intrigue:**

**A. Online News and Live Feeds (Felix Baumgartner's 24 mile freefall)**

(CNN, October 10 & 14, 2012, BBC, June 26, 2012; ESPN.com October 14, 2012)





### 4. Variety, Novelty, Fun:

#### A. Random Lists (Random.org—clocks, coins, playing cards, dice, integers, passwords, jazz scales, lists, sequences, etc.)

The screenshot shows three interactive tools from Random.org: a Coin Flipper showing two heads, a Dice Roller showing two dice, and a List Randomizer with a list of 10 items including names like Bill, Arthur, Thomas, Shelby, Nancy, Sharon, Susan, Stephen, Neil, and Brian.

### 5. Autonomy, Choice:

#### A. Web Exploration Assignments

1. Complete Works of Charles Darwin Online: <http://darwin-online.org.uk/>
2. The Complete Works of William Shakespeare: <http://shakespeare.mit.edu/>
3. Edgar Allan Poe Society of Baltimore: <http://www.eapoe.org/>
4. Einstein Archives Online: <http://www.alberteinstein.info/>
5. Federal Resources for Educational Excellent project: <http://free.ed.gov/>
6. Global Text Project: <http://globaltext.org/>
7. iBerry (Open Courseware Directory): <http://iberry.com/>
8. Jane Austen: <http://www.janeausten.org/>
9. The Jane Goodall Institute: <http://www.jane-goodall.org/>
10. Timeless Hemmingway: <http://www.timelesshemmingway.com/>

### 6. Relevance, Meaningfulness:

#### A. Online Cases (e.g., Mark Braun, IU)

The screenshot shows a medical case presentation with several histology slides. A text box says "I'd like to take the quiz now." Below the slides is a video of a man and a "Final conclusion" section.

### 7. Interactive, Collaborative:

#### A. Collaborative Video Annotations and Discussions (Craig Howard, IU)

<http://scholarworks.iu.edu/journals/index.php/ijid/article/view/853/912>

The screenshot shows a video player with a discussion interface overlaid. A video frame shows a woman presenting, and the interface includes text boxes for annotations and a list of participants.

### 8. Engagement, Effort:

#### A. CNN (2011). Map: Impact of Japan tsunami and earthquake. *CNN*.

<http://www.cnn.com/SPECIALS/2011/japan.quake/map/>  
also: Visualizing Emancipation

The screenshot shows an interactive map of the United States with a legend for graduation rates by state. A tooltip for Alaska shows a 26.6% graduation rate.

### 9. Tension, Challenge, etc.:

#### A. Game Show Final Project, April 25, 2011, Kim Seeber

Website: <http://mypage.iu.edu/~kseeber/web2.0technoov.swf>

The screenshot shows a game show interface with a grid of faces and a sidebar titled "Participatory Culture" featuring a video of Henry Jenkins.

**10. Yields Products, Goals:  
A. Student YouTube Products**

Miguel Lara (Web 2.0 FREEDOM): <http://www.youtube.com/watch?v=8cmCFW9iW8>  
 Shuya Xu and Yue Ma (Blog my online lrng): <http://www.youtube.com/watch?v=im7GQM9rzhc>  
 Cesur Dagli (Animal perspectives on course): <http://www.youtube.com/watch?v=cDeTEt050ic>



**10. Yields Products, Goals:  
B. I Done This, Milestone Planner, 43 Things**




**Time for Commitments:**  
Which principle(s) of TEC-VARIETY will you use?

- Tone/Climate**
- Encouragement, Feedback**
- Curiosity**


- Variety**
- Autonomy**
- Relevance**
- Interactive**
- Engagement**
- Tension**
- Yields Products**




**From Tinkering to Tottering to Totally Extreme Learning...**



**Tinkering**



**Tinker #1.**  
Using Online Encyclopedias  
(e.g, the Encyclopedia of Earth:  
<http://www.eoearth.org/>)  
[http://en.wikipedia.org/wiki/Encyclopedia\\_of\\_Earth](http://en.wikipedia.org/wiki/Encyclopedia_of_Earth)



### Tinker #2.

## Educational Videos: TED-Ed

<http://education.ted.com/>

The image shows a screenshot of the TED-Ed website. On the left, there is a large 'TED-Ed' logo with the tagline 'LESSONS WORTH SHARING'. Below the logo is a small video player showing a person on a stage. On the right, there is a video player showing a 3D animated scene of a classroom with a teacher and students. The video title is 'mid•den'.

### Tinker #3. Interactive Event Timeline

## Arab spring: an interactive timeline of Middle East protests,

The Guardian, Garry Blight & Sheila Pulham, July 12, 2011  
<http://www.guardian.co.uk/world/interactive/2011/mar/22/middle-east-protest-interactive-timeline>

The image shows a screenshot of an interactive event timeline. On the left, there is a section titled 'THE AMERICAN PRESIDENTS' with portraits of Barack Obama, George W. Bush, and Bill Clinton. On the right, there is a large, colorful timeline of events from 2011, with various icons representing different types of events. The timeline is labeled '2011' and 'March'.

### Tinker #4. Interactive Maps to predict outcomes (e.g., Interactive Political Maps: Huffington Post, Oct. 13, 2012)

<http://elections.huffingtonpost.com/2012/romney-vs-obama-electoral-map/cartogram>

The image shows a screenshot of an interactive political map. At the top, there is an 'ELECTION DASHBOARD' showing the number of electoral college votes for Barack Obama (277) and Mitt Romney (191). Below the dashboard is a map of the United States with states colored in red and blue. To the right of the map is a legend and a bar chart showing the distribution of electoral college votes.

### Tinkering #5.

## Tracking the Life of a Scientist (e.g., Brian J. Ford, independent scientist)

<http://www.youtube.com/user/tellymonitor#p/a/u/1/LhGeApsKiasr>  
<http://www.labnews.co.uk/news/prehistoric-revolution/>  
<http://www.youtube.com/embed/kjmNnRFHCzk?rel=0>

The image shows a screenshot of the LaboratoryNews website. The main article is titled 'A prehistoric revolution' and features a large image of a dinosaur skull. There are several smaller images and text blocks on the page, including a video player and a section titled 'Our Company'.



### Totter #1.

## Wikibooks, Wiki-Glossaries, Wiki-Syllabi (Ron Owston, York University, Toronto)

Web 2.0 and Emerging Learning Technologies  
 From Wikibooks, the open-content textbooks collection

The image shows a screenshot of Wikibooks content. On the left, there is a book cover for 'Web 2.0 and Emerging Learning Technologies' with a colorful logo. On the right, there is a book cover for 'The Psychology of Learning Technologies' with a lightbulb icon. Below the book covers is a photo of Ron Owston, a man in a blue shirt, holding a large stack of papers.



### Totter #2. Combining Asynchronous and Synchronous Events (flipping classes)

The image shows a screenshot of a TED talk by Salman Khan titled "Let's use video to reinvent education". On the right, there is a video player interface with a list of video thumbnails and a main video window showing a man speaking.

### Totter #3. Uploading Mobile Books (e.g., BookRix, <http://www.bookrix.com/>)

The image shows the BookRix website interface with a grid of book covers. Below it is a screenshot of a mobile book interface showing a page of text with a navigation arrow on the left.

### Totter #4. Student Collaborative Knowledge Building and Sharing (e.g., Popplet: <http://popplet.com/>)

The image shows the Popplet website homepage. It features a blue header with the Popplet logo and the tagline "see what you think together". Below the header are several content boxes, including "What is Popplet?", "Check out these Popplets!", and "Check out our preview video".

### Totter #5. Student Films and Documentaries

<http://vimeo.com/33090590/> (Verily)  
<http://vimeo.com/33173125/> (Anjali)  
<http://www.youtube.com/watch?v=IOZHvuZ3rbw&feature=youtu.be> (Yue)

The image shows two video player interfaces. On the left is a YouTube video player showing a man playing an acoustic guitar. On the right is a Vimeo video player showing a character in a red shirt.

### We are entering a jumping off point...

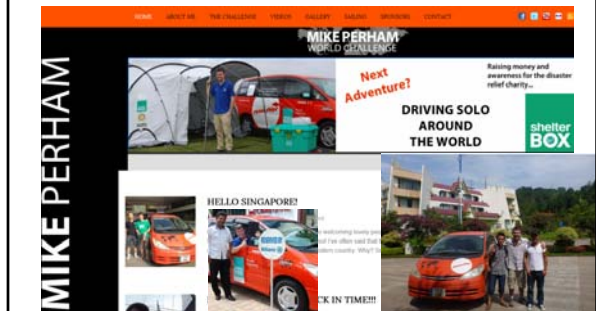
A photograph of a man in a purple jacket and blue jeans jumping joyfully in a park with trees and a path in the background.

### You Want Totally Extreme?

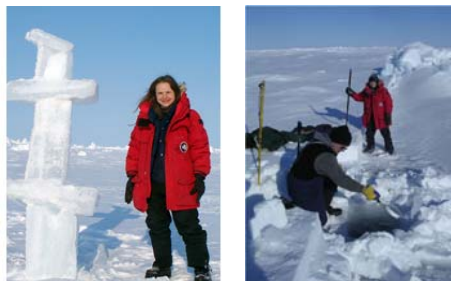
Apple's new 'spaceship' campus: What will the neighbors say?, Doug Gross, CNN, May 22, 2012  
[http://www.cnn.com/2012/05/22/tech/innovation/new-apple-campus/index.html?net=hp\\_bn11](http://www.cnn.com/2012/05/22/tech/innovation/new-apple-campus/index.html?net=hp_bn11)

A collage of images related to Apple's new campus. It includes a man sitting at a desk with a laptop, a man sitting at a desk with a laptop, a man sitting at a desk with a laptop, a large circular building, and a large building with a curved facade.

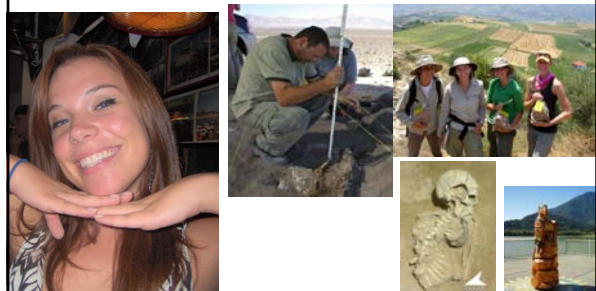
**Totally Extreme #1. Michael Perham Drives around the World (Sept 17, 2012)**  
<http://www.mikeperham.tv/>



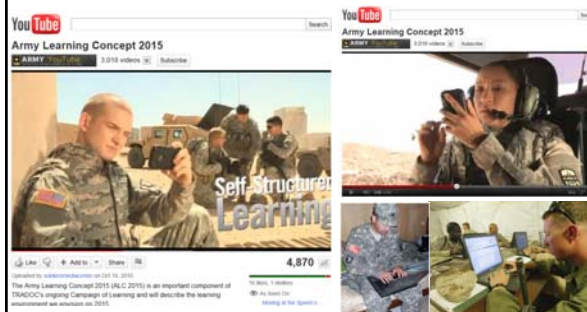
**Totally Extreme #2. iPod Learning from MIT OCW (e.g., Wendy Ermold, University of Washington)**



**Totally Extreme #3. Blogging Field Archeology Research (e.g., Lily Henry Roberts, UCLA digging in Hope, BC, Stó:lō First Nation people from 12,000 years ago)**



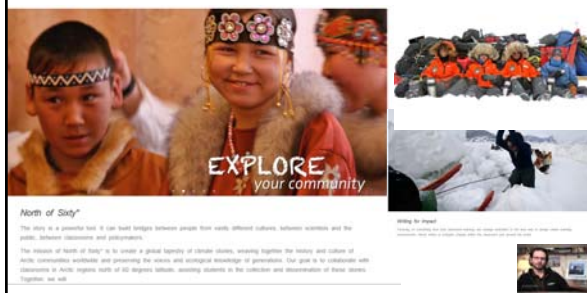
**Totally Extreme #4. MBAs from War Zones...!**



**Totally Extreme #5. Virtual Mentoring South African teens get virtual mentoring from all over the world, By Danielle Berger, CNN, January 14, 2011**  
<http://www.cnn.com/2011/LIVING/01/13/cnnheroes.stokes/index.html?hpt=T2>



**Totally Extreme #6. Adventure Learning about the Environment (e.g., North of 60, GeoThentic, Earthducation, see Aaron Doering, Chasing Seals; <http://chasingseals.com/>)**



**October 5, 2012 (Felicity Aston, UK)**  
**First woman to cross Antarctic solo: I've never felt so alone, Ivana Kottasova, CNN**  
[http://www.cnn.com/2012/10/05/travel/felicity-aston-antarctic-explorer/index.html?hpt=hp\\_c1](http://www.cnn.com/2012/10/05/travel/felicity-aston-antarctic-explorer/index.html?hpt=hp_c1)

**Totally Extreme #7. Adventures of a Teenage Polyglot, New York Times, March 9, 2012, John Leland**  
[http://www.nytimes.com/2012/03/09/us/politics/adventures-of-a-teenage-polyglot.html?\\_r=1&hp&page=1](http://www.nytimes.com/2012/03/09/us/politics/adventures-of-a-teenage-polyglot.html?_r=1&hp&page=1)

Timothy posts videos of himself speaking several languages on YouTube.

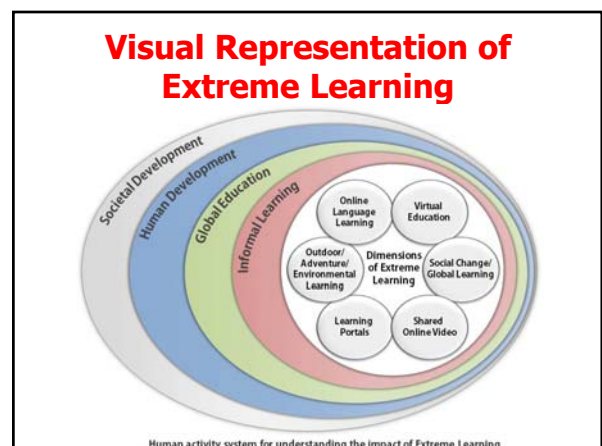
**Totally Extreme #8. Lacking Teachers and Textbooks, India's Schools Turn to Khan Academy to Survive, New York Times, October 15, 2012, Anupama Chandrasekaran**  
<http://india.blogs.nytimes.com/2012/10/15/how-tech-and-textbooks-indian-schools-survive-the-khan-academy-to-survive/>

The New York Times | International Herald Tribune

Students at Sree Karpagavalli Vidhyalaya school in Chennai, Tamil Nadu, watching Khan Academy math videos.

**Totally Extreme #9. The Last Ocean Project, Ice Stories, and Shark Theater (24 foot inflatable screen (and outdoor ocean theater) to tiny island communities) http://www.lastocean.com/ and http://lastocean-project.org/; Cassandra Brooks**

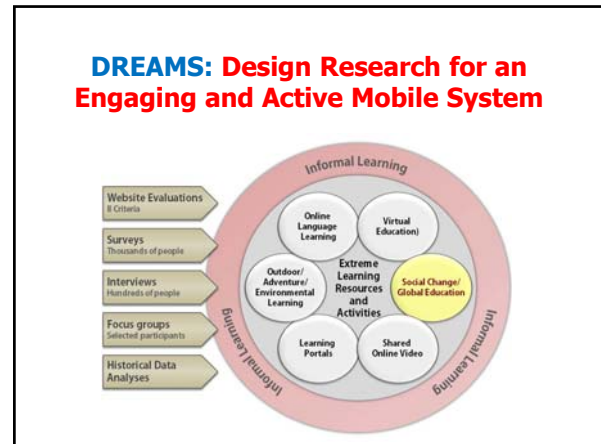
**Extreme Learning Website**  
[www.extreme-learning.com](http://www.extreme-learning.com)





## HOPES: Humanity's Open Platform for the Exchange of Stories

The image shows two screenshots of the HOPES website. The left screenshot features a video player with a man speaking, titled 'Life-changing Story - Open University'. The right screenshot shows a text-based article titled 'Life-changing Stories - Michigan Virtual University' with a photo of a man in a dark shirt.



## Extreme Learning "Stretches the Edges" of Humanity

The image is a collage. On the left, several hands are stacked on top of a globe. In the center, a green sign on a post reads 'Education Just Ahead'. On the right, a globe is shown with a network of blue lines connecting it to other points. Below the globe, the text 'Document, Catalog, Grasp, Connect, Inspire Others,...' is displayed in a stylized font.

## Where are we headed?

The image shows a hand pointing at a glowing blue surface that has ripples, suggesting a digital or virtual environment. Four compass roses are positioned around the central image, pointing in different directions.

## October 17, 2012

### The university campus of the future: what will it look like?, David Lamond, The Conversation, Australia

<http://theconversation.edu.au/the-university-campus-of-the-future-what-will-it-look-like-9769>

**THE CONVERSATION**

The image shows a photograph of a modern, multi-level university building with glass railings and a central atrium.

## Who is Content Now?

Website: [www.Extreme-Learning.com](http://www.Extreme-Learning.com)  
 Slides at: [TrainingShare.com](http://TrainingShare.com)  
 Book: <http://worldisopen.com/>  
 Dr. Curt Bonk – [CJBonk@Indiana.edu](mailto:CJBonk@Indiana.edu)

The image contains a yellow smiley face icon with a wide, happy expression and a photograph of a green frog sitting on a rock.