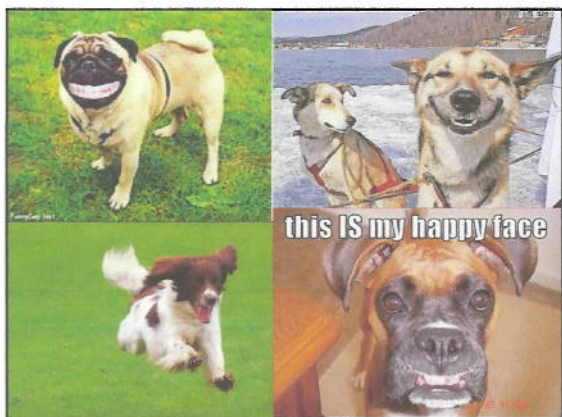
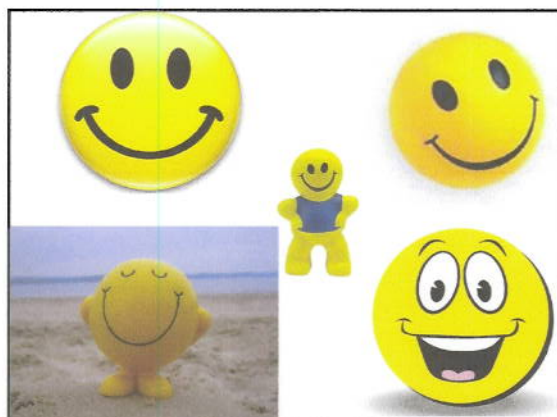


**"Stretching the Edges of Technology-Enhanced Teaching: From Tinkering to Tottering to Totally Extreme Learning"**

**Curtis J. Bonk, Professor, Indiana University**  
 cjbonk@indiana.edu  
<http://mypage.iu.edu/~cjbonk/>



**Dog Gets MBA,**  
**The Chronicle of Higher Ed, Unmuzzling Diploma Mills: Dog Earns M.B.A. Online, Marc Parry**

Unmuzzling Diploma Mills: Dog Earns M.B.A. Online  
 By Marc Parry

**June 2010**  
**Clay Shirky, NYU: How cognitive surplus will change the world, TED**  
[http://www.ted.com/talks/clay\\_shirky\\_how\\_cognitive\\_surplus\\_will\\_change\\_the\\_world.html](http://www.ted.com/talks/clay_shirky_how_cognitive_surplus_will_change_the_world.html)

**September 5, 2010**  
**Open Source goes to High School (Utah)**  
<http://www.youtube.com/watch?v=sovve-j3xGk>

**September 2011**  
**Meta-Analysis Update: Blended and Fully Online Still Best!**

U.S. DEPARTMENT OF EDUCATION  
 Evaluation of Evidence-Based Practices in Online Learning: A Meta-Analysis and Review of Online Learning Studies

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

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

Revised September 2010

**October 31, 2010**  
**Online Learning: By the Numbers, Chronicle of Higher Education**

Online Learning: By the Numbers

GROWTH AND TYPE OF ONLINE ENROLLMENT

Growth and Forecast for Online-Only Enrollment

Enrollment of Online-Only Students Pursuing Bachelor's Degrees, by Field, 2009

Growth in Enrollment of Students Taking at Least One Online Course

SELECTED DEMOGRAPHICS

Age of students

Gender

Percentage of Students Enrolled by Type of College, 2009

**October 31, 2010**  
**Online Education vs. Traditional Learning: Time to End the Family Feud**  
 Mark David Milliron, Chronicle of Higher Education

THE CHRONICLE of Higher Education

Online Learning

Online Education vs. Traditional Learning: Time to End the Family Feud

Bill & Melinda Gates Foundation

**December 15, 2010**  
**Mark Zuckerberg, Time Magazine, Person of the Year**

Person of the Year

TIME

Photos

FACEBOOK ACTIVE USERS

SOCIAL NETWORKING

Top social networking sites

Facebook.com: 82.2 million

MySpace sites: 64.2 million

Twitter.com: 20.8 million

Diigo.com: 17.4 million

Chatterbox.com site: 13.9 million

Between Friends (partial list): 12.1 million

Me4.com site: 11.4 million

Windows Live Profile: 10.3 million

**February 16, 2011**  
**How Bill Gates' Favorite Teacher Wants to Disrupt Education, Gregory Ferenstein, Fast Company**

YouTube

Khan Academy on the Gates Notes

ONMONEY.com

FORTUNE

Innovation in Education

Bill Gates' favorite teacher

**February 16, 2011**  
**Bill Clinton in Surprise Talk on Tech: It's the Institutions, Stupid, David Zax, Fast Company**

FAST COMPANY

INNOVATION UNCENSORED

Bill Clinton in Surprise Talk on Tech: It's the Institutions, Stupid



**March 3, 2011**  
**Bill Gates Promotes Professor's Online Course at TED, Chronicle of HE, Jeff Young, The History of Everything**  
<http://www.bighistoryproject.com/>

Big History: An Introduction to Everything

**March 13, 2011**  
**Online Public University Plans to Turn Indiana Dropouts Into Graduates, Chronicle of HE, Eric Kelderman**

Mr. Desormeaux, whose children, too, have homework, shares a mentor in the Western Governors U. Indiana program with 79 other students, each of whom receives a weekly call to discuss his or her progress in the online program.

**March 16, 2011**  
**California student from Japan finds family alive on YouTube**

California student from Japan finds family alive on YouTube

California student from Japan finds family alive on YouTube

**But I am not Content!!!**

**Shovelware**

Wii

SHOVELWARE

You paid \$200 to play gimmicky ports of free online flash games. How dumb are you?

**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/)

Atlantic

Google is Stupid?

Author Nicholas Carr: The Web Shatters Focus, Rewires Brains

WHAT THE INTERNET IS DOING TO OUR BRAINS

THE SHALLOWS

### July 25, 2010

## Professors' Use of Technology in Teaching, Jeffrey Young, Chronicle of Higher Education

Percent of faculty who:

- Never use it
- Use it a lot
- Use it a little
- Do not know what it is

**Course management systems** (Blackboard, Canvas, etc.)

**Presentation software** (PowerPoint, etc.)

**Collaborative editing software** (Blackboard, etc.)

**Blogs**

**Student response systems** (Clickers, etc.)

**Videoconferencing or Webinars** (Zoom, etc.)

**Video games, simulations, or virtual worlds** (Second Step, etc.)

### August 9, 2010

## Bill Gates Predicts Technology Will Make 'Place-Based' Colleges Less Important in 5 Years, By Jeff Young, Chronicle of HE

**Wired Campus**

**Bill Gates Predicts Technology Will Make 'Place-Based' Colleges Less Important in 5 Years**

**Bill Gates on in-person vs. online edu...**

### September 15, 2010

## Study: Online learning might be less effective for some, eSchool News, Dennis Carter

**Classroom students scored 84.5 percent on the first exam in the economics course, and online students scored 83.3 percent.**

### December 30, 2010

## The year we stopped talking Sharon Jayson, USA Today

[http://www.usatoday.com/printedition/news/20101230/1year30\\_cv.art.htm](http://www.usatoday.com/printedition/news/20101230/1year30_cv.art.htm)

### January 23, 2011

## As the Web Goes Mobile, Colleges Fail to Keep Up, Chronicle of Higher Ed, Josh Keller

<http://chronicle.com/article/Colleges-Search-for-Thair/126016/>

**"I used it to sign up for classes. I used it to check e-mails," says Laura Patterson, a junior at Nevada State College, about her iPhone. "I used it all the time, for everything." More than 40 percent of all college students, like Nevada State's Laura Patterson, used mobile devices to get on the Internet every day last year, compared with 10 percent in 2008.**

### February 17, 2011

## US internet access still a problem: Gov't says up to 10 pct in US lack good Internet, Joelle Tessier, AP Technology Writer

**US internet access still a problem**

Gov't says up to 10 pct in US lack good internet



Updated Thursday, 17 Feb 2011, 4:04 PM EST  
 Published Thursday, 17 Feb 2011, 4:04 PM EST

**JOELLE TESSIER**, AP Technology Writer

As many as one in 10 Americans can't get internet connections that are fast enough, consistent, secure and secure, video and pages, as well as many of the services that are important to consumers and are the keys to their health, are some of the conclusions from the Commerce Department on Thursday's detailed, interactive and showing what types of high-speed internet connections are available — or missing — in every last corner of the country.

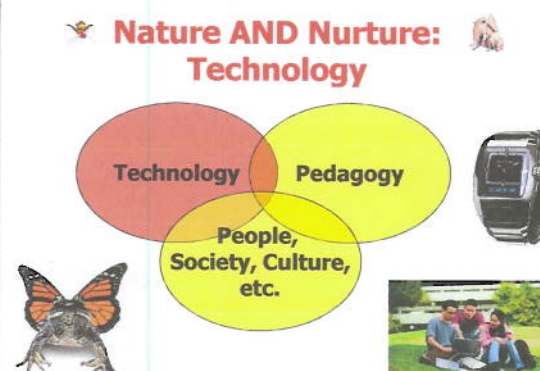


**February 27, 2011**  
**Actually Going to Class, for a Specific Course? How 20th-Century.** New learning technologies prompt a rethinking of traditional course structure, Chronicle of HE, Jeffrey R. Young

**"There's not really much need for teachers anymore," since so much material is online, says Dekunle Somade, a senior at the U. of Maryland at College Park.**

**Nature AND Nurture: Technology**



**But new technologies hit us now everyday!**




**September 15, 2010**  
**Timeline of Technology for Teaching, NY Times**  
<http://www.nytimes.com/interactive/2010/09/15/magazine/classroom-technology.html?ref=magazine>




**Technology of the 1980s**



**Radio Shack TRS-80 Model III**  
 Introduced: July 1980  
 Price: US \$680 base model, US \$2495 w/ 32K, dual drives, 280p x 80, 2.03 MHz  
 CPU: 4K, 48K max.  
 Ports: Cassette tape, expansion, serial  
 Display: 12-inch B&W monitor: 64 x 16 text  
 Storage: 0, 1, or 2 internal 110K floppy drives  
 External cassette @ 500 / 1500 baud  
 OS: BASIC in ROM, TRS-DOS on disk

**Things That Became Obsolete This Decade**  
 December 11, 2009, Silicon Alley Insider



## Gadgets that Changed Everything This Decade

December 9, 2009, Jay Yarow, Silicon Alley Insider

## 15 Learning Technology Trends

December 10, 2009

**Another Benefit of Robot Teachers: No 'Moral Problems'**  
By Jeff Young

## 1. Inexpensive Laptops and Netbooks

## 2. Online Language Learning

January 27, 2010 and Feb 5, 2010: The Web Way to Learn a Language, NY Times, ERIC A. TAUB (e.g., EnglishCentral, iTalki, Palabea, Babbel)

## 3. Tablet Computers Hit (iPad)

April 10, 2010: Seton Hill Univ, 2,100 students an iPad and freshmen a 13-inch MacBook laptop  
Feb 1, 2011: An Android Tablet Made Just for School, David Zax, Fast Company

**Samsung: Galaxy Tab has leg up on Apple iPad, By Stephen Shankland, CNET, September 3, 2010**

**Feb 8, 2011: CNN HP unveils TouchPad tablet, two phones, Mark Millan, CNN,**  
**Feb 15, 2011: Widescreen tablets are coming soon, Mark Millan, CNN**



### 4. Mobile (e.g., iPad) News


**August 10, 2010:** Flipboard pretties up social-media updates Facebook statuses and tweets feed into magazine-like format in free app for iPad; Jefferson Graham, USA TODAY

**February 1, 2011:** A peek at The Daily's iPad news app (\$40/year); CNN Tech, Mark Milian




### 5. Pocket Dictionaries




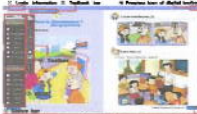
**September 9, 2010: Campus Tech in China: Impressions From 3 Campuses, Jeff Young**  
<http://chronicle.com/MyCampus/Campus-Tech-In-China-288127>



I didn't see any laptops in use here, though the three Korean exchange students I sat with proudly produced their favorite educational gadgets: portable electronic dictionaries that can hunt down words in Chinese, Korean, English, and Japanese. Language learning has the best use of technology here, according to some professors I've talked to this week, and electronic stores sell what seems like hundreds of varieties of digital dictionaries.

### 6. Digital Textbook Projects (Korea)

**Sept. 21, 2010: What South Korean Schoolchildren Can Teach Colleges About E-Textbooks; By Jeff Young, Chronicle of HE. Korea E-Learning Week, Coex, Seoul, Sept. 16-17, 2010**

### 7. Mobile Music

**December 10, 2010: Virtual Bands, Choirs, Singers, etc. iBand Rocks Tunes on iPads and iPhones; PadGagget.**






### 8. Video Calling/Conferencing/Webcaming

**December 20, 2010: Skype for iPhone adds two-way video calling, CNet Reviews**



**WATCHING VIDEO ONLINE**

Google's YouTube dominates video viewing, here's how competitors compare last month.

Top video content streams	Viewers
Google (YouTube)	14.3 billion
Hulu	787 million
Vevo	546 million
Vevo	516 million
Vevo	497 million
Microsoft	445 million
AOL	345 million
Bing	247 million
Fox Interactive (iFlick)	209 million
CBS	187 million

**Free music video site Vevo eyes iPad, other mobile possibilities**




### 9. Social Networking Gaming



**December 24, 2010: CityVille 16.8 million daily users, FarmVille's 16.4 million. CityVille 61.7 million monthly users, FarmVille 56.8 million users. Mashable.**

"CityVille" Is Now Bigger than "FarmVille"



### 10. E-Book Readers



**January 28, 2011: Amazon: Kindle Books Finally Eclipse Paperbacks, Doug Aamoth**  
[http://www.usatoday.com/life/books/news/2011-01-05-1Aebooksales05\\_ST\\_N.htm](http://www.usatoday.com/life/books/news/2011-01-05-1Aebooksales05_ST_N.htm)

Whether a surge in e-book sales can be sustained and what effect it could have on traditional bookstores remains to be seen.

### March 2, 2011: Why Amazon would be smart to give away the Kindle, March 4, 2011, CNN Tech, Amy Gahran

<http://articles.cnn.com/2011-03-04/tech/amazon.free.kindle.1?hpid=hp%3Atech%3Aamazon-free-kindle%3Ahomepage%2Fstory>

### 12. New Interfaces

**February 18, 2011: Telekinesis 2.0, David Zax, Fast Company**

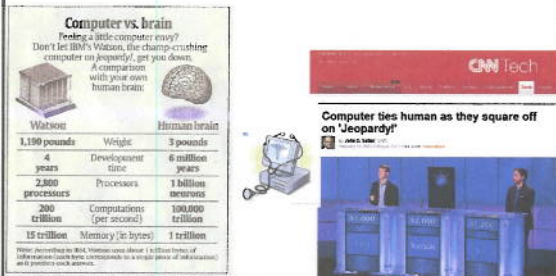


### 13. Artificially Intelligent Computers

**February 18, 2011: Watson dominated at 'Jeopardy!' — but what else can it do? As IBM seeks new uses, man still has edge over machine, Dan Fergano, USA Today.**

Computer vs. brain	
Watson	Human brain
1,190 pounds	3 pounds
4 years	6 million years
2,800 processors	1 billion neurons
200 trillion computations (per second)	100,000 trillion
15 trillion Memory (in bytes)	1 trillion


Photo: According to IBM, Watson uses about 1 million bytes of RAM and has a hard drive with 200 million bytes of data. Watson is a generalist and can answer a wide range of questions. It is not a specialist.



### 14. Group Video Chat, February 28, 2011: SocialEyes delivers group video chat, USA Today, Feb 28, 2011, Jon Swartz, <http://www.socialeyes.com/>

**SocialEyes delivers group video chat**

SAN FRANCISCO — The brains behind digital media pioneer [socialeyes.com](http://www.socialeyes.com/) are all at it again — with a new, two-way video service on Facebook.



### 15. iPad 2, March 2, 2011: Steve Jobs' surprise appearance a 'big deal', CNN Tec, Mark Milian, March 2, 2011, <http://www.cnn.com/2011/TECH/gaming.adopts/03/02/steve.jobs.ipad2/index.html?ref=MS1>





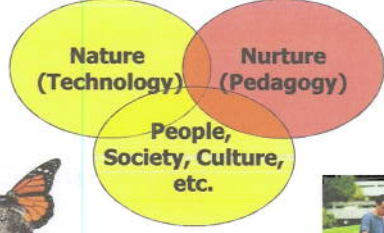
**16. Mobile Expert Tutors, April 7, 2011:  
Tutor.com Releases First Ed App that  
Connects Students to an Expert Tutor**



**Tutor.com To Go™ Releases the First Education App that Connects Students to an Expert Tutor**

**Tutor.com To Go™**  
for iPhone, iPad & iPod Touch

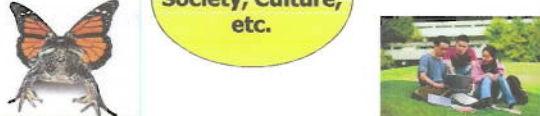
**Nature AND Nurture:  
Pedagogy**




**Nature (Technology)**

**Nurture (Pedagogy)**

**People, Society, Culture, etc.**


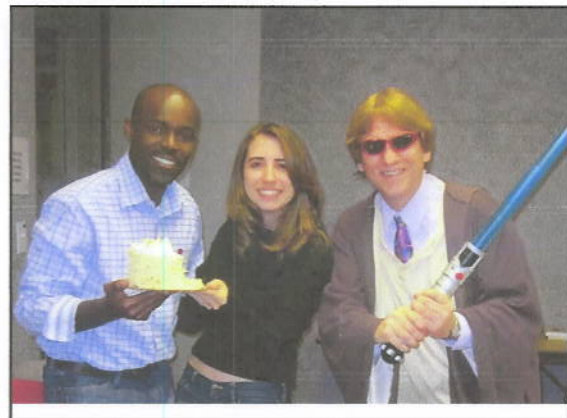


**Magic #2:  
The R2D2 Model**




**Empowering Online Learning**

100+ Activities for Reading, Reflecting, Displaying & Doing


**The R2D2 Method**

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



**1. Auditory or Verbal Learners**

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



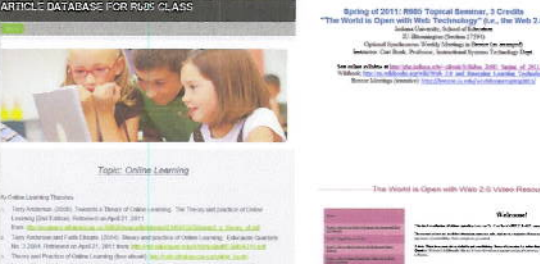
### Poll: Podcast Questions

- a. Who has listened to a podcast?
- b. Who listens to a certain podcast on a regular basis?
- c. Who has created a podcast?
- d. Who has created a vodcast?
- e. Who thinks podcasting is simply more talking heads?



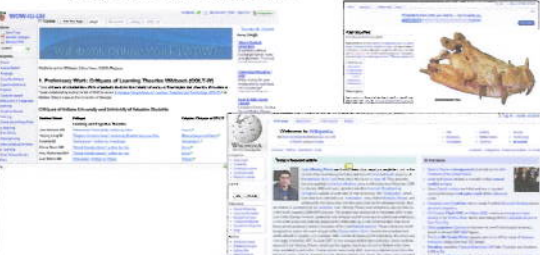
### Read 1a. Online Article Portals and Databases

<http://r685articledatabase.weebly.com/>  
<http://ella.sils.indiana.edu/~bahallo/r685/>  
[http://php.indiana.edu/~cjbok/Syllabus\\_R685\\_Spring\\_of\\_2011.htm](http://php.indiana.edu/~cjbok/Syllabus_R685_Spring_of_2011.htm)




### Read 1b. Wikibook or Wikipedia Editing or Critiques

- Ask students to critique a wikibook or page from Wikipedia



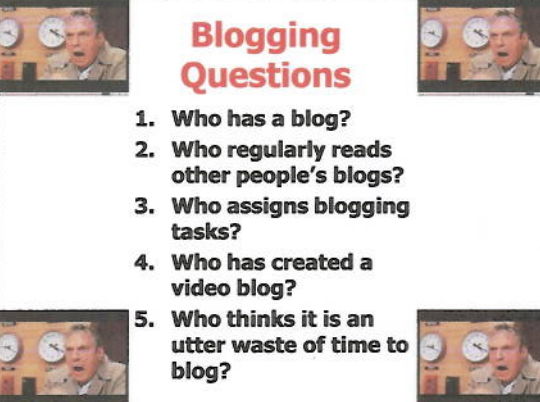
### 2. Reflective and Observational Learners

- Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives



### Blogging Questions

1. Who has a blog?
2. Who regularly reads other people's blogs?
3. Who assigns blogging tasks?
4. Who has created a video blog?
5. Who thinks it is an utter waste of time to blog?



### Reflect 2a. Critical Friend Blog Postings (Kristen and Susan)





### Reflect 2b. Scenario Learning (Option 6, Bloomington, IN)

### Reflect 2c. Workplace and Field Reflections...MM

### 3. Visual Learners

- Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.

### Display 3a. Concept Mapping and Timeline Tools (VUE, Bubbl.us, Cmap, Freemind, Glify, Mindmeister, or Mindomo)

### Display 3b. Visual presentations (e.g., Prezi)

<http://prezi.com/ihmhh159xd46/is-the-world-open/>  
<http://prezi.com/8h7grxyaymv/the-world-is-open/>

### Display 3c. World Trends and Indices (e.g. Worldmapper)

### Display 3d. Download and Use Online 3D Sketches (Google SketchUp; download <http://sketchup.google.com/3dwarehouse>)

Google 3D warehouse  
 Search for models: Roosevelt Island Bridge & Motorgate Parking  
 Roosevelt Island Bridge & Motorgate Parking

Made with Google SketchUp  
 This model was made with SketchUp, a 3D modeling tool from Google. Learn more »

Collections containing this model  
 Related items  
 More models by user

### Display 3e. Videos for clinical education (Sungkyunkwan University School of Medicine, [www.mededu.or.kr](http://www.mededu.or.kr))

환자의 앞쪽에서, 왼손으로 환자의 오른쪽 갈상생을 반대편으로 밀고.

### Display 3f. Radical Cartography (<http://www.radicalcartography.net/index.htm?chicagodots>)

Boston City Limits annexations and landfill, 1804-1912

1795 South Boston  
 1804 East Boston  
 1836 Weymouth Village  
 1855 Braintree  
 1867 Dorchester  
 1869 West Roxbury  
 1873 Brighton  
 1912 Hyde Park

### 4. Tactile/Kinesthetic Learners

- Tactile/kinesthetic senses can be engaged in the learning process are role play, dramatization, cooperative games, simulations, creative movement and dance, multi-sensory activities, manipulatives and hands-on projects.

### Do 4a. Paired Article Critiques in Blogs

- Students sign up to give feedback on each other's article reviews posted to their blogs.

Article	Student Critique	Student Peer Review
Atwood, J.B. (2007). <i>Does the Community of Inquiry Framework Predict Outcomes in Online IBM Courses?</i>	Stephen Moore	Laraine Ryan
	Carolin Parnell	Karen Lippard
	Lin Yu	Fiona Liu
	Alex Brinkley	Loel Adkinson
Meyer, K.A. (2003). Face-to-Face versus Threaded Discussions: The Role of Time and Higher-Order Thinking	Laraine Ryan	Paul Anderson
	Baril Daniel	Yvonne Toney
	Nora Arora	Carolin Parnell
	Karen Lippard	Lin Yu
Shea, P., Li, C.S. and Pickett, A. (2006) A study of teaching presence and student sense	Francis Wilkinson	Alex Brinkley
	Heather Barnett	Stefan Resporich
	Daniel Wilson	Nora Arora

### Do 4b. Simulation or Animation (e.g., Foldit)

(puzzles that explain the shape that proteins fold into; the results can have huge impacts on scientific discoveries needed for Alzheimer's, AIDS, Cancer, etc.) <http://fold.it/portal/>  
[http://www.youtube.com/watch?v=9e6E5\\_SlF0I](http://www.youtube.com/watch?v=9e6E5_SlF0I) (visual excerpt from interview below: 1:23 minutes)  
<http://www.youtube.com/watch?v=4Z1XoOktuE&feature=free> (Stanford Project interview: 5 minutes)



**Do 4c. Uploading Mobile Books**  
 (e.g., BookRix, <http://www.bookrix.com/>)

BookRix website showing book listings and a mobile device displaying a book page.

**Mobile Devices & Learning**  
 How mobile devices are re-shaping the field of education

**Do 4d. Virtual Microscopes** (Sungkyunkwan University School of Medicine, [www.mededu.or.kr](http://www.mededu.or.kr))

Virtual microscope interface showing a histological slide of the stomach.

Stomach, endoscopic examination and biopsy  
 Poorly differentiated tubular adenocarcinoma

Final observation:  
 Advanced gastric carcinoma with multiple long outpocketings with lymphovascular growth

**Do 4e. Virtual Quizzes**  
 ([www.mededu.or.kr](http://www.mededu.or.kr))

Virtual quiz interface showing a question about a histological slide.

**Do 4f. Create Blogs** (e.g., Dr. Kim Foreman, San Fran State University, Come and See Africa Blog; <http://comeandseeafrica.blogspot.com/>)

Blog post titled 'Come and See Africa (CASA)' featuring photos of a group of people.

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

Collage of images showing students looking bored in a classroom. A sign says 'BORED'.

**Ok, Million Dollar Question: How do you motivate online learners? What Words come to mind?**

A large one-billion-dollar bill with two small figures standing in front of it.

### Magic #1: TEC-VARIETY Model for Online Motivation and Retention

- 1. Tone/Climate: Psych Safety, Comfort, Belonging**
- 2. Encouragement, Feedback: Responsive, Supports**
- 3. Curiosity: Fun, Fantasy, Control**
- ...
- 4. Variety: Novelty, Intrigue, Unknowns**
- 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

(examples from Northern Virginia Community College and Indiana University KD (online MBA) program)

Yun Yun Chow, Open U Malaysia, Making Art Lessons Come Alive with Web 2.0  
<http://www.youtube.com/watch?v=BO9rqJD1GXo>

### 2. Encouragement, Feedback, etc.:

#### A. Online Self-Testing (e.g., self study in accounting, vocabulary, anatomy, chemistry, dissection, etc.)

### 3. Curiosity, Fun:

#### A. Online News (Giant jellyfish, Tiny T. rex, and Ardi)

### 3. Curiosity, Fun:

#### B. March 11, 2011, Tsunami hits Japan

<http://www.cnn.com/video/7/video/world/2011/03/11/nat.nhk.japan.sendai.tsunami.nhk&ieref=NS1>

### 4. Variety, Novelty:

#### A. Cool Resource Provider or Tech Demos

PS40 Cool Resource Provider and Moderator Sign Up Sheet

If multiple people are working with the same students it is possible to connect content that can be shared with one another. Make sure you are working with the best model of the sign-up sheet by utilizing your best model rather than your own and Ask for Update below.

Instructions: Please get your name in the box for the OBE week that you want to be the moderator. Only complete one box (either for K-12 or Adult Learning, NOT both). When complete, please click the green Update button below using the username: [ps40](#)

Week	K-12 Education/Learning	Adult Education/Learning
1. Introduction to the Study of Learning	<input type="checkbox"/>	<input type="checkbox"/>
2. Introduction	<input type="checkbox"/>	<input type="checkbox"/>
3. Social Learning Theory	<input type="checkbox"/>	<input type="checkbox"/>



### 5. Autonomy, Choice: A. Online Cases (e.g., Mark Braun, IU)

**1. Yellow Apple-like Blister (Yellow Blister) on the Neck**  
The subject will give you the history and the laboratory and clinical investigations and will show you each case. There are also an index on you can bookmark your progress through you have a book. The sign at the end of each case will help you find the major cases in each section.

**2. A case of liver**  
3. A man with chronic cough  
4. A man with acute chest pain  
5. A man with acute chest pain  
6. A man with acute chest pain  
7. A man with acute chest pain  
8. A man with acute chest pain  
9. A man with acute chest pain  
10. A man with acute chest pain  
11. A man with acute chest pain  
12. A man with acute chest pain  
13. A young woman with headache  
14. A woman with meningitis  
15. A man with meningitis  
16. A man with meningitis  
17. A man with meningitis  
18. A man with meningitis  
19. A man with meningitis  
20. A man with meningitis  
21. A man with meningitis  
22. A man with meningitis  
23. A man with meningitis  
24. A man with meningitis  
25. A man with meningitis  
26. A man with meningitis

### 6. Relevance, Meaningfulness: A. Tour an Online Oil Drilling Site or Role Play Situations (i.e., BP) <http://www.youtube.com/watch?v=ts458kAnqTs>

Open newsm learning

**About**  
Learn. Create. Share. All for free.  
This site is a collection of open source educational resources. It has been created by...

### 7. Interactive, Collaborative: A. Collaborative Documents (Google Docs)

Google docs Snacks  
File Edit View Insert Format Tools Help

1. Cheese	2. Sausage	3. Crackers
4. Hamster	5. Summer	6. Rizz
7. Cheddar	8. Breakfast	9. Triscuit
10. Swiss	11. Ketchup	12. Saline
13. Mozzarella	14. Mortadella	15. Maltin Toast
16. Edam	17. Salami	18. Wheat Thins
19. Coudis	20. Sweet Italian	21. Goodrich

### 8. Engagement, Effort: A. Flash, 3-D Visualization, & Laboratory Software

YouTube Opening  
TEST1

### 9. Tension, Challenge, etc.: A. Ethical Debates

North Korea demands apology, reparations from Japan over colonization  
Ethical Debates  
BODY WORLDS


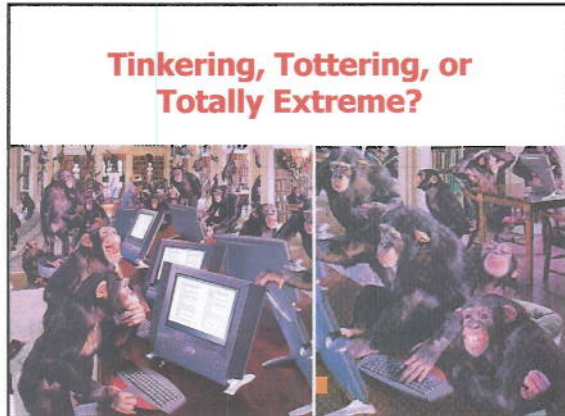
### 10. Yields Products, Goals: A. Photo Festivals and Competitions (e.g., COFA at UNSW, Scrapblog, flickr, etc.) <http://www.youtube.com/watch?v=im7GQH9fzhc>

Flickr Country Crafts  
OMNIUM  
YouTube Blog my online learning-avi

### TEC-VARIETY Model for Online Motivation and Retention

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


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

### Tinkering




### Tinker #1. Reading from Open Access Journals (e.g., PLOS)



### Tinker #2. Webcast Lectures (Tegrity, Echo360, Mediasite, etc.)



### Tinker #3. Timeline Tools (e.g., SIMILE from MIT (<http://simile.mit.edu/>), Learning Tools from UBC)





### Arlington Racetrack



### Jockey's are Important



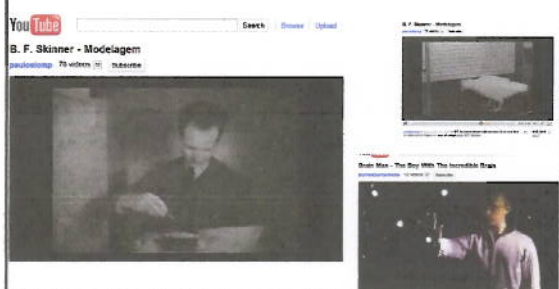
### Tinker #4. Online Literature Search (Class Google Jockeys) (links to text, soundtracks, video clips, etc.)



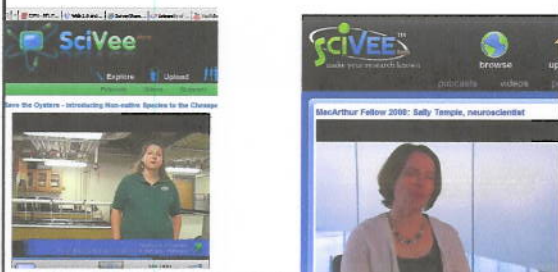
### Tinker #5. Video Animations and Self-Testings



### Tinker #6. Anchored Instruction with Shared Online Video



### Tinker #7. Pubcasts. (videos of authors of scientific papers and science; e.g., SciVee)



**Tinker #8. Collaborative Groups**  
(Google Docs, Ning, Google Groups, MSN Groups, Yahoo Groups)

The image shows two screenshots. On the left is the Google Docs interface with a document titled 'Collaborative Groups' and a list of users. On the right is the Ning in Education interface showing a community page with various posts and a Google logo.

**Tinker #9. Track Life of a Scientist or Famous People (e.g., Brian J Ford, independent scientist)**

<http://www.youtube.com/user/tellymonitor#p/u/1/LhGeApsKjar>

The image shows a YouTube video player on the left with a video titled 'Brian J Ford' and a promotional poster on the right for 'Inter Micro 2010' featuring Brian J Ford. The poster includes the text 'Watch as the BBC fail to recreate the experiments' and 'The great question - could Brown have started Brownian Movement? On the next page you can see what Brown saw.'

**Tinker #10. Online Portals of Rich Data**  
United Nations Opens World Digital Library, Turning the Pages from the British Library, etc. (history, culture, literature, writing, art, etc.)

The image shows four screenshots of different online digital library portals. The top left shows a world map with data points. The top right shows a document viewer interface. The bottom left shows a search results page. The bottom right shows a collection of historical documents.

**Tinker #11. Online Experiments (e.g., psychology)**

The image shows three screenshots of online psychology experiment websites. The top left is 'perception lab' with a colorful interface. The top right is 'PSYCHEXPERIMENTS' with a blue and white interface. The bottom right is a 'Top Ten Online Psychology Experiments' list featuring a 'Psych Central' logo.

**Tinker #12. Educational Simulations**

The image shows four screenshots of educational simulation environments. The top left is a 3D rendering of a classical building. The top right shows a virtual classroom with students at desks. The bottom left shows a virtual hallway. The bottom right shows a person interacting with a simulation on a computer screen.

**Tinker #13. Online Role Play (e.g., Tulane University, Exercise for Renewable Energy, Freeman Sch. of Business, roles include power traders and utility dispatchers, etc.)**

The image shows a screenshot of an online role-play simulation. It depicts a virtual control room or trading floor with several people sitting at desks with computer monitors, engaged in a simulation.



### Tinker #14. Podcast Reflections

This collage features several elements related to podcasts and digital content. At the top left is a 'Daily Reviews Cancer' logo. In the center is a yellow smiley face logo for 'ENGLISH IN THE REAL WORLD weekly podcasts'. To the right is a photo of a woman with a stethoscope, with 'NursingShow.com' text below it. At the bottom left is a blue 'M' logo. At the bottom right is a photo of a man speaking at a podium with 'INFORMATION TECHNOLOGY' text above it.

### Tinker #15. Expert and Domain Specific Blog Reflections (English, Health, Business, etc. blogs)

This collage shows screenshots of various blogs. On the left is 'The English Blog' with a 'File of the Week: This is It' section. In the center is a 'Google' search bar. On the right is a screenshot of 'THE WALL STREET JOURNAL' with an article titled 'HEALTH BLOGS' and a sub-headline 'University of Pennsylvania Turns to Industry for Medical Research'.

### Tinkering

This collage illustrates the concept of tinkering. It includes a photo of a child's hands creating shadow puppets with the text 'WE WERE REDUCED TO MAKING SHADOW PUPPETS'. Next to it is a colorful illustration of a fairy. Below these is a sign that says 'TINKERING' with a pencil and paper icon. To the right is a word cloud with the word 'tinkering' in large red letters.

### Tottering

This collage shows images of children playing. The main image shows four children sitting on the ground, holding a long blue beam across their laps. To the right is a smaller image of a child on a red beam that is part of a playground structure.

### Totter #1. Bridges to World of Expert and Practitioners (e.g., Watch or Listen to Online Conferences, Expert interviews, blogs, chats, etc.)

This collage represents online expert interactions. It features a video call window with a woman, a map of Australia, and a man in a suit speaking at a podium. There are also smaller images of other people in professional settings.

### Totter #2. Famous Expert Via TED (shared online video), Fast Company, Anya Kamenetz, September 1, 2010

This collage focuses on TED talks. It includes a 'FAST COMPANY' logo, a 'TED' logo, and a screenshot of a video player interface showing a TED talk by Anya Kamenetz. The video title is 'Adora Svitak: What adults can learn from kids'.

**Totter #3. Real World Problems (PBL online): Real-time Cases**

REALTIME CASE STUDY

ABOUT ARTICLES TOUR AWARDS CONTACT

**Supercharging the case method, making it more realistic and engaging**

Professor James Thomas  
Paula Professor of Entrepreneurship,  
University of Massachusetts, Amherst

**Totter #4. Class Synchronous Sessions and Archives (Breeze/Adobe Connect Pro, Elluminate, WebEx, Dim Dim)**

**Totter #5. Global Class Videoconferencing**

Smoothing Borders

**Totter #6. Global Class Collaboration and Problem Solving (e.g., ePals, iEARN, and World Class; Hoa Truong-White, World Vision)**

**World Class Program Learning Cycle**

**think**  
critically about global issues

**act**  
on new understanding

**change**  
perspectives and behaviours

Becomes a **Qualified World Class** by completing the three stages

1000 65

**Totter #7. Combining Asynchronous and Synchronous Events**

PALESTINE

**Totter #7b. Asynchronous and Synchronous Events (e.g., William and Mary, March 3, 2011)**



**Totter #8. Online Language Learning and Conversations**  
(e.g., PalTalk, iTalki, Palabea, Babbel)

**Totter #9. Course Announcements**  
(e.g., Teaching with Twitter; Course announcements and following people (e.g., microblogging))

**Totter #10. Wikibooks, Wikipedia editing, wiki syllabi, wiki glossaries**  
(Ron Owston, York University, Toronto)

Web 2.0 and Emerging Learning Technologies

**Totter #11. Student YouTube Products**

<http://www.youtube.com/watch?v=xivS1ryPzsQ>  
[http://www.youtube.com/watch?v=x3FJy4Pn\\_E](http://www.youtube.com/watch?v=x3FJy4Pn_E)  
<http://www.youtube.com/watch?v=eD1awpaSuP0>  
<http://www.youtube.com/watch?v=BP780N9ycY>

**Totter #12. Podcast Productions and Virtual Performances for students of pronunciation class**  
(e.g., Tzu-Su Chen, Taiwan)

**Totter #13. Video Blogging**

### Totter #14. YouTube as Class

This block shows a collage of images related to using YouTube in a classroom. It includes a screenshot of a YouTube channel page for 'SPRINGFIELD FALLS' with several video thumbnails. To the right is a screenshot of an article from 'THE CHRON' titled 'Technology' with the sub-heading 'From "YouTube Week" From MIT Press Challenge Leads to Classroom'. Below these are three small video thumbnails showing students in a classroom setting.

### Totter #15. Podcast Productions and Virtual Performances for students of pronunciation class (e.g., Tzu-Su Chen, Taiwan)

This block features the Podomatic logo and a screenshot of a podcast player interface. The player shows a track titled 'Hey Jude, don't make it bad. Take a sad song and make it better'. To the right is a screenshot of a podcast page for 'tsuyi haueh's Podcast' with a 'Get more storage.' banner.

### Totally Extreme Learning

This block is a collage of images illustrating 'Totally Extreme Learning'. It includes a person standing at a computer workstation, a graphic for 'HURRICANE IKE', a student reading a book, a volcanic eruption, a group of students in a classroom, and a map of Haiti with labels for 'St. Marc', 'Port-au-Prince', 'Lakou', and 'Port-au-Prince'.

### Totally Extreme #1. Live Science (Nautilus Live allows people to watch expeditions live & listen to scientists in control rooms a discoveries made)

This block shows a collage of images related to 'Nautilus Live'. It includes a scientist in a lab coat, a screenshot of the Nautilus Live website interface, and various images of marine life and scientists working in a control room.

### Totally Extreme #2. Immediate Science Ida (a transitional species) 47-Million-Year-Old Fossil the Missing Link? (May 20, 2009)

This block features a collage of images related to the fossil 'Ida'. It includes a close-up of the fossil, a scientist, and a snippet of a news article titled 'UNCOVERING OUR EARLIEST ANCESTOR'. Below the main title is a sub-section titled 'Ida's World' with a photo of 'Dr. James Murray' from 'University of Oxford'.

### Totally Extreme #3. Armchair Archeology UCLA Summer Digs Program

This block shows a collage of images related to the 'UCLA Summer Digs Program'. It includes a scientist working at a site, a 3D model of a skeleton, an archaeological site with a building, a group of students in a field, and a close-up of a fossil.



**Totally Extreme #4. Google Earth Archeology** (David Thomas, Archeologist, La Trobe University, Australia)

**Totally Extreme #5. Adventure Learning, GeoThentic, Earthducation, Polar Husky, GoNorth** (Aaron Doering, Univ of Minnesota), Impossible to Possible, Ray Zahab

**What lies beyond effectiveness and efficiency? Adventure learning design** (Doering & Veletsianos, 2008)

**Totally Extreme #6. Learning on the Sea.** (May 2010, Jessica Watson became the youngest person ever to sail solo, non-stop and unassisted around the world.)

**Totally Extreme #7. The LAST OCEAN Website and The Last Ocean Project**  
<http://www.lastocean.com/> and <http://lastocean-project.org/>; Cassandra Brooks

**Totally Extreme #8. Adventure Learning (cars and bikes)**  
 Dan Grec and Mark Beaumont

**Totally Extreme #9. 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/cnheroes.stokes/index.html?hpt=T2>

**Totally Extreme #10. On-Demand Multi-Participant Synchronous Conferencing**

**Totally Extreme #11. International and Global Education and Competitions**  
 (e.g., Global Game Jams, online role play, Global Videoconferencing)

Global Game Jam

**Totally Extreme #12. Learn Anytime, Always On/Mobile.** Will Technology Kill the Academic Calendar? Online, semesters give way to students who set their own schedules, Marc Parry, Chronicle of Higher Ed, October 10, 2010

Robert Johnson, who championed the open-format Learn Anytime program at a two-year college in Louisville, Ky. checks students' e-mail while waiting for a flight. "Everything I need to do today, I can do on my phone," says Robert Johnson...He often grades papers and communicates with students from a cafe near his home.

**Totally Extreme #13. Pocket School and Videoconferencing in Developing World**  
 (Paul Kim, Stanford, Rwanda, August 2010, Kigali Institute of Education linking up with universities in India and Cameroon through Satellite Internet video conferencing system. They were discussing Java programming.)

**Totally Extreme #14. Telepresence and Teleportec Systems (e.g., Cisco and HP)**



**Totally Extreme #15. Space tourism comes closer to fruition, USA Today, April 27, 2011, Charisse Jones**  
[http://www.usatoday.com/travel/flights/2011-04-26-space-tourism-travel\\_n.htm](http://www.usatoday.com/travel/flights/2011-04-26-space-tourism-travel_n.htm)

**Poll #1: How many ideas did you get?**

1. 0 if I am lucky.
2. Just 1.
3. 2, yes, 2...just 2!
4. Do I hear 3? 3!!!!
5. 4-5.
6. 5-10.
7. More than 10.

**It is both Nature AND Nurture as well as PEOPLE!!! Technology is just part of the Equation**

**Any Extreme Questions and Comments?**  
 Slides at: [TrainingShare.com](http://TrainingShare.com)  
 Papers: [PublicationShare.com](http://PublicationShare.com)  
 Book: <http://worldisopen.com/>  
 Email: [curt@worldisopen.com](mailto:curt@worldisopen.com)