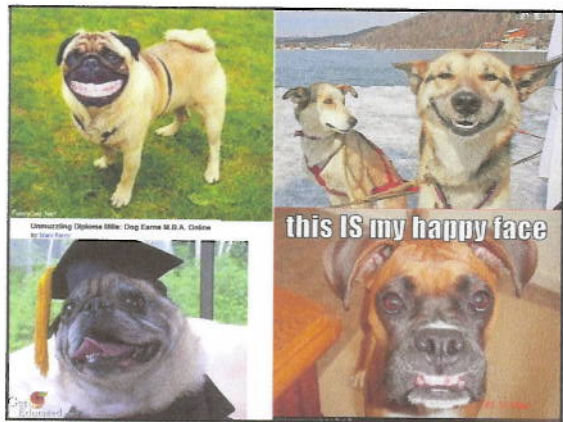
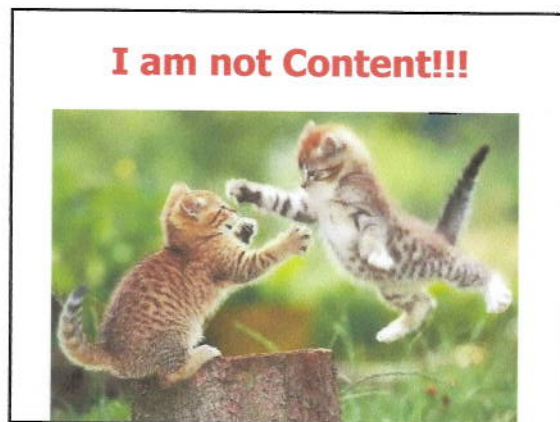
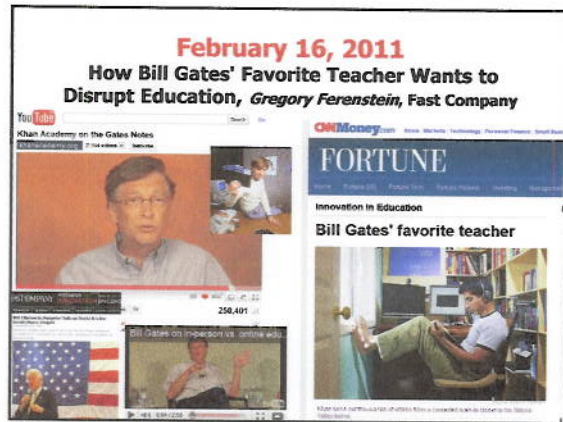


**Active Learning with Technology:
Myths, Magic, and Mucho Motivation**

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





Those in hurricanes!
(Katrina, August 2005; Ike, Sept 2008; Irene, August 2011)

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

What about those in Lovely Kansas...?

Is the World Flat?

Or is it Open?

It is very open!
(Korea, the Philippines, Norway, etc.)



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

- **W**eb Searching in the World of e-Books (i.e., Darwin)
- **E**-Learning and Blended Learning
- **A**vailability of Open Source and Free Software (e.g., Moodle)
- **L**everaged Resources and OpenCourseWare (e.g., MIT)
- **L**earning Object Repositories and Portals (i.e., shared content)
- **L**earner Participation in Open Info Communities (YouTube)
- **E**lectronic Collaboration and Interaction (sync and async)
- **A**lternate Reality Learning (Online Massive Gaming, Simulations, and Virtual Worlds; e.g., 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!!!

Triple Learning Technology
 Convergence of
"WE-ALL-LEARN"

1. **Pipes:** The availability of tools and infrastructure for learning.
2. **Pages:** The availability of free educational content and resources (OER—Open Educational Resources).
3. **Participatory Learning Culture:** A move towards a culture of open access to information, international collaboration, and global sharing.

Question:
What is the Web?

- An entertainment system?
- A writing aid?
- A communications system?
- A means to handle commercial transaction?
- A social networking device?

=====

No, it is a learning tool!

Answer:
The Web of Learning

The Web of Learning

The Web of Learning

WEB 2.0

Google

PBWORKS

Blogger

slideshare

LIVEJOURNAL

NING

The Networked Teacher

BLOGG

WIKIS

PBWORKS

We are entering a jumping off point...

Elements of the Web's Next Generation

Elements of the Web's Next Generation

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

BORED

MOTIVATION

A Vision of Today's Students

YouTube

Home Videos Channels Community

A Vision of Students Today

My average score is 115

mvesch

Jumbo Motivation is Needed!

Jumbo Motivation is Needed!

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

ONE BILLION DOLLARS


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

Motivation Research Highlights (Jere Brophy, Michigan State University)

1. Supportive, appropriate challenge, meaningful, moderation/optimal.
2. Teach goal setting and self-reinforcement.
3. Offer rewards for good/improved performance.
4. Novelty, variety, choice, adaptable to interests.
5. Game-like, fun, fantasy, curiosity, suspense, active.
6. Higher levels, divergence, dissonance, peer interaction.
7. Allow to create finished products.
8. Provide immediate feedback, advance organizers.
9. Show intensity, enthusiasm, interest, minimize anxiety.
10. Make content personal, concrete, familiar.




I even reflected on this for a moment...and then something magical happened...



Framework #2: TEC-VARIETY 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: Social Ice Breakers

A. Public Commitments:
Have students share how they will fit the coursework into their busy schedules



B. Favorite Websites


1. Everyone posts 1-2 of their favorite Websites and explain why.
2. Peers comment on or rate them.



1. Tone/Climate: Social Ice Breakers


C. 8 nouns (adjectives, verbs)

- List of nouns: (e.g., pirate, computer, traveler, roadrunner, wind, bookworm, musician, mentor, etc.)
- <http://www.momswhothink.com/reading/list-of-nouns.html>
- List of adjectives: (e.g., lazy, powerful, shy, bored, exotic, cooperative, sloppy, rebel, etc.)
- <http://www.momswhothink.com/reading/list-of-adjectives.html>
- List of verbs: (e.g., coordinate, entertain, amuse, push, unite, beg, dream, publicize, etc.)
- <http://www.momswhothink.com/reading/list-of-verbs.html>



1. Tone/Climate: D. 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 vocabulary, anatomy, chemistry, dissection, etc.)

2. Encouragement, Feedback, etc.:
B. Tutorials with Screen Capture (e.g., Jing, Screnr, GoView, etc.)

2. Encouragement, Feedback, etc.:
C. Vocab Sushi (\$25 for 3 months)
<http://www.vocab sushi.com/>

2. Encouragement, Feedback, etc.:
D. Online Accounting Lessons (e.g., Lyryx; <https://lifa.lyryx.co>)

Still, I graduated
May 16, 1981, 10:00 am,
Warhawk Stadium

2. Encouragement, Feedback, etc.:
E. Blog and Website Polling (e.g., BlogPolls, BlogPoll, MicroPoll, etc.)

3. Curiosity, Fun: A. Online News (Politics, Giant jellyfish, Tiny T. rex, and Ardi)

This screenshot shows a news website layout with several articles. The main headline is "After mob violence, Washington targets violence". Other visible headlines include "Their final sacrifice: The men we lost", "Human origin takes a new track", and "Complicated relationship". There are images of a man, a dinosaur, and a jellyfish.

3. Curiosity, Fun: B. Online Social Networking Games (e.g., scrabble, hangman, etc.)

Google takes swing at Facebook in social games

This screenshot shows a collection of social networking games. It includes "ANGRY BIRDS", a Scrabble game with the word "WOWEIIJA" on the board, and "Drills 5.7". The text above the games says "Google takes swing at Facebook in social games" and "By Mike Stone and Scott Martin, USA TODAY August 12, 2011".

3. Curiosity, Fun: C. Online Database Activities (e.g., WolframAlpha) <http://www.wolframalpha.com/>

This screenshot shows the WolframAlpha search engine interface. It features a search bar and a "Quick Introduction to Wolfram Alpha" by Stephen Wolfram. The interface is clean and white with yellow accents.

3. Curiosity, Fun: D. Track a Scientist, Scholar, Celebrity, Writer (e.g., Biography.com, biography online, FamousPeople.com)

This screenshot shows the Biography.com website. It features a navigation bar with "Home", "Browse", and "Search". The main content area is titled "Welcome to Biography Online" and lists various biographies. There are small portraits of famous people.

4. Variety, Novelty: A. Cool Resource Provider or Tech Demos

PS41 Cool Resource Provider and Moderator Sign Up Sheet

This block contains a sign-up sheet for a resource provider and moderator. The sheet has columns for "Name", "Email", "Phone", and "Comments". Below the sheet is a photograph of a classroom with students sitting at desks.

4. Variety, Novelty, Fun, Fantasy: B. Random Lists (Random.org—clocks, coins, playing cards, dice, integers, passwords, jazz scales, lists, sequences, etc.)

RANDOM.ORG RANDOM.O

This screenshot shows the Random.org website. It features three main tools: "Coin Flipper" (showing two coins), "Dice Roller" (showing two dice), and "List Randomizer" (showing a list of 10 items). The website is white with blue and red accents.

4. Variety, Novelty, Fun, Fantasy:
C. Timers (Stopwatches, Countdown Timers, Stopwatch Bombs, etc.; <http://www.online-stopwatch.com/countdown-timer/>)

5. Autonomy, Choice: A. Online Literature Search (Class Google Jockeys)
 (links to text, soundtracks, video clips, etc.)

5. Autonomy, Choice:
B. 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://globalextext.org/>
7. iBerry (Open Courseware Directory): <http://iberry.com/>
8. Jane Austen: <http://www.janeausten.org/>
9. The Jane Goodall Institute: <http://www.janegoodall.org/>
10. Timeless Hemmingway: <http://www.timelesshemingway.com/>

6. Relevance, Meaningfulness:
A. Online Cases (e.g., Mark Braun, IU)

6. Relevance, Meaningfulness:
B. 60 Second Recap, Jenny Sawyer
<http://www.60secondrecap.com/>
 Access to students: Lend me your earbuds!
 English major, 24, rambunctiously recaps the classics in 60-second Web videos; By Greg Toppo; USA TODAY, September 2009

6. Relevance, Meaningfulness:
C. Tour an Online Oil Drilling Site or Role Play Situations (i.e., BP)
<http://www.youtube.com/watch?v=ts45BkAnqTs>

Open newsroom learning

7. Interactive, Collaborative:
A. Working In Virtual Teams
 (e.g., Collanos, Ning, Groove, SharePoint, Google Docs)

Ning

7. Interactive, Collaborative:
B. Collaborative Video Annotation
 Creating-annotated discussions: An asynchronous alternative, Craig Howard and Rodney Myers, *International Journal of Designs for Learning*, 1(1)
<http://scholarworks.lv.edu/journals/index.php/ijdl/article/view/853/912>

7. Interactive, Collaborative:
C. Dr. Monica Rankin's class, UT Dallas, Cuban Revolution (April/May 2011)
<http://www.youtube.com/watch?v=ocQMf1kPo98>

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

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

8. Engagement, Effort:
C. Time Tracker (e.g., Indy Race Tracker, May 29, 2011)
<http://www.indytracker.com/track/track.html?track=2011%20Indy%20500>

8. Engagement, Effort: D. Arab spring: an interactive timeline of Middle East protests, The Guardian, Garry Blight, and Sheila Pulham, July 12, 2011
<http://www.guardian.co.uk/world/interaction/2011/mar/12/middle-east-protest-interactive-timeline>

8. Engagement, Effort: E. National Geographic Prehistoric Timeline
<http://science.nationalgeographic.com/science/prehistoric-world/prehistoric-time-line.html>

8. Engagement, Effort: F. Touch, Highlight, and Take Notes on the Tablet Computer (e.g., Apple starts selling interactive iPad textbooks, Yahoo! News, Peter Svensson, Assoc Press, Sat, Jan 21, 2012)
<http://www.slashgear.com/apple-starts-selling-interactive-ipad-textbooks-27994897.html>
<http://www.videofor.com/explorers/sasadost/videos/3837/>

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


10. Yields Products, Goals: A. More Student YouTube Products
 Miguel Lara (Web 2.0 FREEDOM): <https://www.youtube.com/watch?v=8emC7V98V8>
 Shinya Xu and Yue Ma (Blog my online frng): <http://www.youtube.com/watch?v=im7GQM9fshc>
 Julie Reed (Participatory Learning): http://www.youtube.com/watch?v=cHx_SbRWV0M
 Cesar Dagli (Animal perspectives on course): <http://www.youtube.com/watch?v=cDeT32405ic>

10. Yields Products, Goals: B. Photo Festivals and Competitions (e.g., COFA at UNSW, Scrapblog, flickr, etc.)
<http://www.youtube.com/watch?v=im7GQM9fshc>

TEC-VARIETY Model for Online Motivation and Retention

Tone/Climate
Encouragement, Feedback
Curiosity


Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products



Do you feel Jumbo Motivation?

Poll #1: How many ideas did you get so far?

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


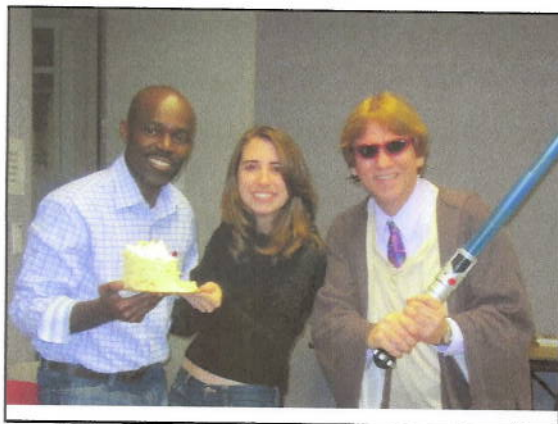


Cards and Commitments:

Stop and Share:
 Which principle of TEC-VARIETY do you use?

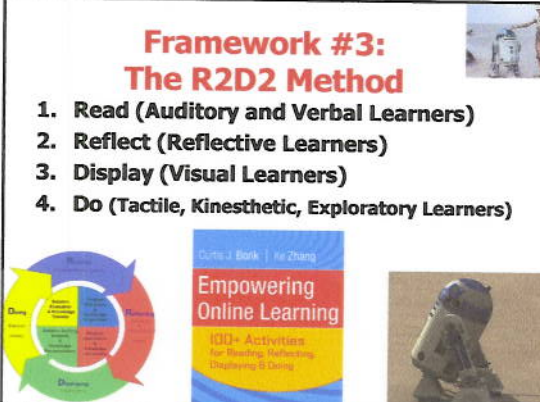


Where Are You R2D2?: Introducing Read, Reflect, Display, and Do Model



Framework #3: 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.

Read 1a. Learning Planet: Interactive Glossary

Umida Khikmatillaeva, Dec. 2011, P540
<http://learningplanet.shutterfly.com/>





Read 1b. Listen or Read to Open Access Expert Podcast Shows and Blogs



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

Reflect 2a. Cultural Blogs (e.g., Dr. Kim Foreman, San Fran State University, Come and See Africa Blog; <http://comeandseeafrica.blogspot.com/>)



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



3. Visual Learners

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

Display 3a. Wordle

APedagogy of Abundance or a Pedagogy to Support Human Beings? Participant Support on Massive Open Online Courses, IRRODL, Kop, Fournier, & Sul Fal Mak, November 2011
<http://www.irrodl.org/index.php/irrod/article/view/1041/2025>

Figure 4. PLENK2010 Wordle.

Display 3b. Videos for clinical education

(Sungkyunkwan University School of Medicine, www.mededu.or.kr)

Display 3c. Concept Mapping and Timeline Tools

(VUE, Bubbl.us, Cmap, Freemind, Glify, Mindmeister, or Mindomo)

Display 3d. Interactive Biology

<http://www.interactive-biology.com/2659/062-pressure-change-during-breathing/>

GI Biology

- 001 How ATP is used in cells
- 002 How ATP is used in cells
- 003 How ATP is used in cells
- 004 How ATP is used in cells
- 005 How ATP is used in cells
- 006 How ATP is used in cells
- 007 How ATP is used in cells
- 008 How ATP is used in cells
- 009 How ATP is used in cells
- 010 How ATP is used in cells

The Respiratory System

- 001 Respiratory System
- 002 Respiratory System
- 003 Respiratory System
- 004 Respiratory System
- 005 Respiratory System
- 006 Respiratory System
- 007 Respiratory System
- 008 Respiratory System
- 009 Respiratory System
- 010 Respiratory System

Display 3e. Interactive Maps

(e.g., New USDA climate zone map reflects northward warming trends, By Janice Lloyd, USA TODAY, January 26, 2012)
<http://www.usda.gov/newsroom/story/2012-01-26/USDA-climate-zone-map/322871621>

New USDA climate zone map reflects northward warming trends

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. Singing YouTube Summaries

Daniel Halluska, P540, Fall 2011
<http://www.youtube.com/watch?v=TOL7rGsqnvw>

Do 4b. Prezi Summaries

Dylan Wajda-Levie, P540, Fall 2011
<http://prezi.com/Chouh6w4d/chemistry-the-world-is-not-as-it-seems/>
<http://prezi.com/215K3L731uL178u0465/6a72/>
<http://prezi.com/2W7u3xv7m7/2he-world-is-not-as-it-seems/>

Do 4c. Podcast Productions and Shows

Do 4d. 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
Albrecht, J.B. (2007). Dead in the Community of Inquiry: Frameworks' Premier Outcomes in Online MBA Courses?	Stephanie Mason Cristina Parnell Lin Yi Alex Bielew	Lorraine Ryan Karen Leonard Flora Liu Lori Alderson
Moser, K.A. (2005). Face-to-Face versus Threaded Discussions: The Role of Time and Higher-Order Thinking	Lorraine Ryan Nancy Arora Karna Lippard Francine Strickland	Paul Anderson Yvonne Toney Cristina Parnell Lin Yi Alex Bielew
Shea, P., L., C.S. and Pickett, A. (2005). A study of teaching presence and student sense	Heather Stewart David Wilson	Sofia Rutenich Nancy Arora

Do 4e. Virtual Microscopes

(Sungkyunkwan University School of Medicine, www.mededu.or.kr)

Stomach, endoscopic examination and biopsy.
 Poorly differentiated tubular adenocarcinoma

First colonoscopy
 Advanced gastric carcinoma with multiple large polyps and with lymphatic spread

Do 4f. Virtual Quizzes
 (Sungkyunkwan University School of Medicine, www.mededu.or.kr)

Do 4g. Wikibook or Wikipedia Editing or Critiques

- Ask students to critique a wikibook or page from Wikipedia

Try the R2D2 and TEC-VARIETY!
Poll #2: Is your brain mush?

1. Yes.
2. No.
3. Not sure yet...

Framework #4:
From Tinkering to Tottering to Totally Extreme Learning...

Tinkering

Tinker #1. Video Scenario Learning Accounting Interviews and Preparatory Course Review Modules
 (Franklin University, cost and forensic accounting course)

http://video.franklin.edu/franklin/acct/1/preparecourse/learning_modules/prepare.html
http://video.franklin.edu/franklin/acct/1/preparecourse/learning_modules/prepare.html

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

The screenshot shows a webcast interface with a video player on the left showing a man in a blue shirt. The main content area is titled 'Magnetic Disks' and includes the text 'What are tracks and sectors?' and 'Track is magnetic recording head that moves left to right as disk rotates'. A diagram of a hard drive platter is shown with a red arrow pointing to a track. The Tegrity logo is visible in the bottom left corner.

Tinker #3. Timeline Tools (e.g., USA Today, August 26, 2011)

<http://www.usatoday.com/story/tech/2011/08/26/martin-luther-king-jr-20th-anniversary/486666>

Martin Luther King Jr. Memorial in Washington: A closer look

The screenshot shows a news article with a map of the memorial site and a large image of the King statue. A timeline tool is overlaid on the article, showing a sequence of events related to the memorial's construction and dedication.

Tinker #3. Timeline Tools (e.g., Steve Jobs' career, CNN, August 24, 2011)

http://www.cnn.com/2011/TECH/innovation/08/24/steve.jobs.timeline/index.html?hpt=hp_jen7

The screenshot shows a CNN article with a detailed timeline tool overlay. The timeline is titled 'Timeline: Steve Jobs' career' and shows various milestones in Jobs' life, including his founding of Apple, the launch of the Macintosh, and the introduction of the iPhone.

Tinker #4. Video Animations and Simulations

This block contains a collage of educational content. It includes a video of a person using a microscope, a 3D molecular model, a 3D human anatomy model with labels like '3D Human Anatomy' and 'Crib-Post', and a video of a person using a microscope.

Tinker #5. Collaborative Groups (Google Docs, Ning, Google Groups, MSN Groups, Yahoo Groups)

This block features a collage of collaborative tools. It includes a screenshot of Google Docs, a screenshot of Ning in Education, a Ning logo, a globe with network connections, and a blue network diagram.

Tinker #6. Case Learning and Role Play (Kelley Direct, IU)

This block contains resources for case learning and role play. It includes a screenshot of a video of a man speaking, a screenshot of a Kelley School of Business website, and the Kelley School of Business logo with the text 'KELLEY SCHOOL OF BUSINESS INDIANA UNIVERSITY IUPUI'.

Tinker #7. Online Experiments (e.g., psychology)

PsychExperiments
Psychology Experiments for the Web

Psych Central
Host of the Web

Top Ten Online Psychology Experiments

Tinker #8. Reading from Open Access Journals; Listen to Open Access Podcasts

The International Review of Research in Open and Distance Learning
A refereed e-journal to advance research, theory and best practice in open and distance learning worldwide

Military History Podcast

MILITARY PODCAST

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

<http://www.youtube.com/user/tellymonitor#p/a/u/1/LhGeApsKia8r>

Watch as the BBC fail to recreate the experiments

Infer Micro 2010
Chicago, Illinois
An Evening with iPhone
12 July 2010

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.)

Tottering

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

Totter #2. Global Class
Videoconferencing and Remote Lands
 (e.g., The seminar was structured on a series of videoconferences and virtual classes on e-learning platform, organized by the Major of the Health and Veterinary Corps of Italian Army Lorenzo TIDU, Veterinary of the Task Force South of the Regional Command West, which is strongly involved in the specific field in favor of populations of the villages in the province of Parah.)

Totter #3. Combining Asynchronous and Synchronous Events

Totter #4. Multi-Site Events
 (e.g., William and Mary, March 3, 2011)

Totter #5. Online Language Learning and Conversations
 (e.g., PalTalk, iTalki, Palabea, Babbel)

Totter #6. Wikibooks, Wikipedia editing, wiki syllabi, wiki glossaries
 (Ron Owston, York University, Toronto)

Web 2.0 and Emerging Learning Technologies

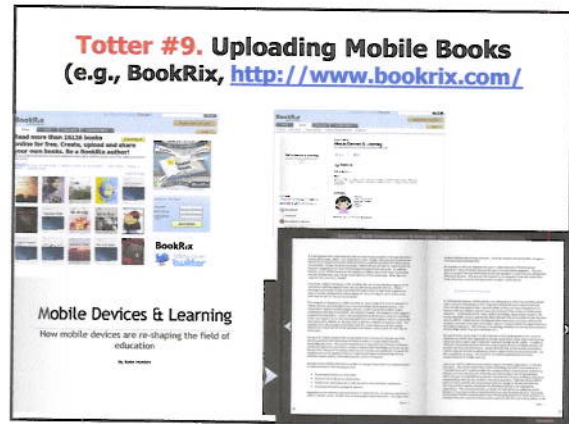
Totter #7. Podcast Productions and Virtual Performances for students of pronunciation class
 (e.g., Tzu-Su Chen, Taiwan)

Totter #8. Video Blogging



A screenshot of a YouTube video player. The video title is "World Is Open Final Project.m4v". The video shows two men sitting at a table, talking. The YouTube interface includes search, upload, and favorites buttons.

Totter #9. Uploading Mobile Books (e.g., BookRix, <http://www.bookrix.com/>)



Two screenshots related to BookRix. The left one shows the BookRix website with a navigation menu and a list of books. The right one shows a mobile book interface with a page of text and a navigation bar.

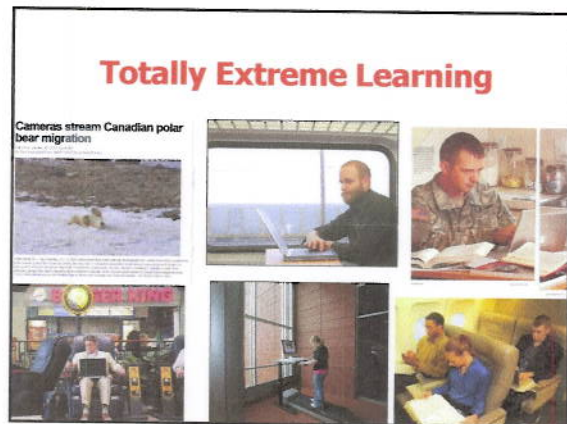
Totter #10. Student Film Competitions

Verily Tan, Recollections from R685, Fall 2011
<http://vimeo.com/33090590/> (Verily)
<http://vimeo.com/33123125> (Anjali)
<http://www.youtube.com/watch?v=IQZHvuz3rbw&feature=youtu.be> (Yue)



A screenshot of a Vimeo video player. The video title is "The World Is Open" by aragel karimian. The video shows a person in a red shirt standing in a dark room.

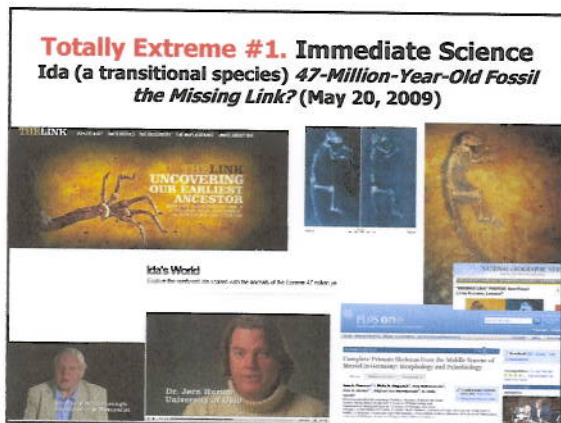
Totally Extreme Learning



A collage of six images illustrating different learning environments and activities. The top left image shows a polar bear in a snowy landscape with the text "Cameras stream Canadian polar bear migration". The other images show people in various settings, including a person at a computer, a person in a military uniform, a person in a wheelchair, a person on a treadmill, and a group of people sitting at a table.

Totally Extreme #1. Immediate Science

Ida (a transitional species) 47-Million-Year-Old Fossil the Missing Link? (May 20, 2009)



A screenshot of a website about the fossil Ida. The main headline is "UNEXPECTEDLY UNCOVERING OUR EARLIEST ANCESTOR". The website features several images, including a fossil of Ida, a person in a lab coat, and a person in a military uniform.

Totally Extreme #2. Live Science

(Nautilus Live allows people to watch expeditions live & listen to scientists in control rooms a discoveries made)



A collage of six images illustrating live science expeditions and control rooms. The top left image shows a Nautilus Live control room. The other images show people in various settings, including a person in a military uniform, a person in a lab coat, a person in a control room, a person in a lab coat, and a person in a control room.

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

Post Tagged by Henry Roberts?

Search

UCLA Summer Digs Program

**Totally Extreme #4. Adventure Learning
(e.g., GeoThentic, Earthducation, Polar Husky, GoNorth; Aaron Doering, Univ of Minnesota; cars and bikes--Dan Grec and Mark Beaumont)**

The road chose me

DAILY UPDATE: 1-13-11

Totally Extreme #5. 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

THE LAST OCEAN

ICE STORIES

Totally Extreme #6. 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.stokms/index.html?hpt=hp>

CNN Living

South African teens get virtual mentoring from all over the world

Totally Extreme #7. Open Teaching and Massive Open Online Courses (i.e., MOOC, David Wiley, George Siemens, Ray Schroeder)

eduMOOC
Online Learning Today...and Tomorrow

Welcome to eduMOOC 2011

Accredited (online courses) from the MURCJ open network addressing how common materials can be an

**Totally Extreme #8. International and Global Education and Competitions
(e.g., Global Game Jams, online role play, Global Videoconferencing)**

Global Game Jam

Totally Extreme #9. Telepresence and Teleportec Systems (e.g., Cisco and HP)

Totally Extreme #10. Military Mobile Learning and MBAs from War Zones (u.s. Army Learning Concept for 2015; 2011, January 15).

<http://www.youtube.com/watch?v=KD9NGAV3-3k> (4:26 minutes)

E-learning Website

DREAMS: Design Research for an Engaging and Active Mobile System

- **Online Language Learning Sites:** Babbel, Livemocha, ChinesePod, English Central, BBC-Languages, Moxer, Voxopop, Kan Talk, Ling, Vocab Sushi, InterPals.
- **Outdoor/Adventure Learning:** Polar Husky, Earthducation, the Last Ocean Project, Impossible2Possible, Roadtrip Nation, Explo.tv, Explorers Web, Nautilus Live.
- **Social Change/Global Education:** The Flat Classroom Project, Link TV, Soliya, ePals, IEARN, Free Rice, MGDFive.com, Infinite Family, Omnium Extension Projects.
- **Virtual Education:** Khan Academy, Open Yale, Wolfram Alpha, MIT OCW, Sophia, Peer 2 Peer University, Florida Virtual School, Wikiversity, Open High School of Utah.
- **Learning Portals:** JaneAustin.org, Einstein Archives Online, Shakespeare Online, Jane Goodall Institute, Curriki, MERLOT, Connexions, Encyclopedia of Life, Squidoo.
- **Shared Online Video:** Link TV, Book TV, Current TV, YouTube EDU, School Tube, Big Think, Fora.TV, Clip Chef, WonderHow To, Howcast, TV Lesson, MIT World, AcademicEarth, BBC Video Nation, CNN Presents, History for Music Lovers.

Is this a revolution?

Time to Stretch the Edges?

Slides at: TrainingShare.com
 Papers: PublicationShare.com
 Book: <http://worldisopen.com/>
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