

Masterclass #1

Engage Number One:

Models for Motivating and Retaining Online Learners (TEC-VARIETY AND R2D2)

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

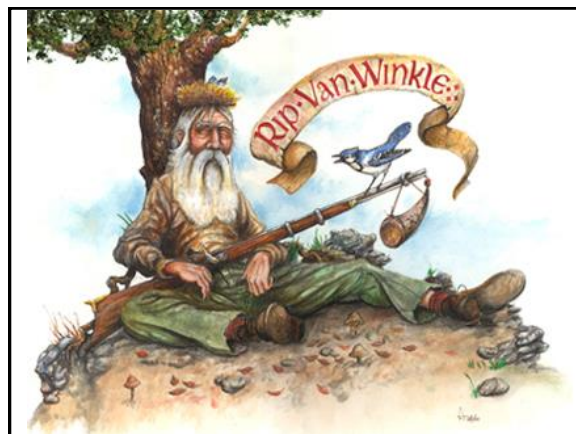


(Circa Confucius 551–479 BCE)

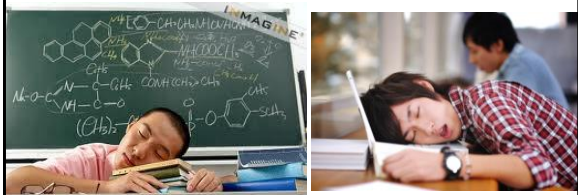


Academos

Plato Circa 428–347 BCE



Motivation and Engagement



June 4, 2015

AspirEDU

<http://aspiredu.com/solutions/>

Identify At-Risk Students

AspirEDU's Canvas integration allows you to identify at-risk students in your Canvas LMS every night and integrate data to your student performance system. The data is automatically integrated into your Canvas LMS, allowing you to identify at-risk students and take action. This allows AspirEDU to calculate a risk index score for each student across all courses that student is taking. This gives your advisors and instructors an easy way to find those struggling students and help them succeed.

“*Our system was able to help students the way I can help them.*”
 — John Doe, Student

Canvas Integrates AspirEDU Retention Tools

By Joshua Bolten | 06/04/15

AspirEDU and Instructure have teamed up to integrate the former's student retention analysis tools with the latter's Canvas learning management system (LMS) for joint customers.

April 23, 2015

**Can Behavioral Tools Improve Online Student Outcomes?
Experimental Evidence from a Massive Open Online Course,**
Richard W. Patterson

http://www.ilr.cornell.edu/sites/ilr.cornell.edu/files/cheri_wp165_0.pdf



Learning is More Video-Based Online Learning Polyglots

Adventures of a Teenage Polyglot



**Timothy posts videos of himself speaking
several languages on YouTube.**

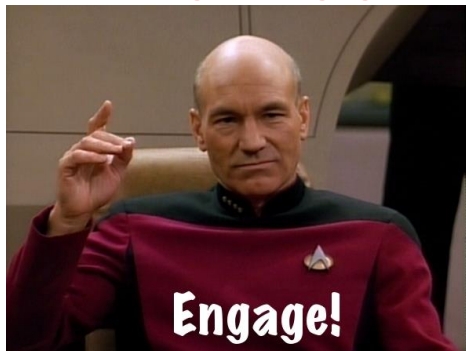
**How do
we engage
online?**



What did Jean-Luc Picard say?



That's right, Engage!



**Poll #1: Million Dollar Question:
What words come to mind when I say
that I want to motivate learners?**



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.



Intrinsic Motivation

“...innate propensity to engage one's interests and exercise one's capabilities, and, in doing so, to seek out and master optimal challenges

(i.e., it emerges from needs, inner strivings, and personal curiosity for growth)

See: Deci, E. L., & Ryan, R. M. (1985). *Intrinsic motivation and self-determination in human behavior*. NY: Plenum Press.



Framework: 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

Education 3.0?

Introducing the free “TEC-VARIETY” Framework...

<http://tec-variety.com/>

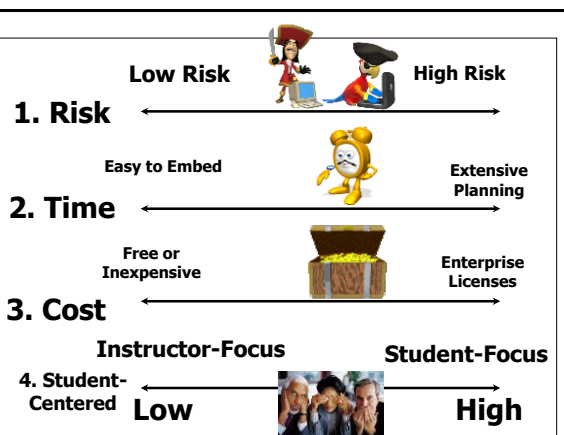
<http://tec-variety.com/TEC-VARIETY-Chinese.pdf>



在线学习动机与激励：
TEC-VARIETY 模型

——激励和留住在线学习者的 100 个活动

作者：Curtis J Bonk & Elaine Khoo IU

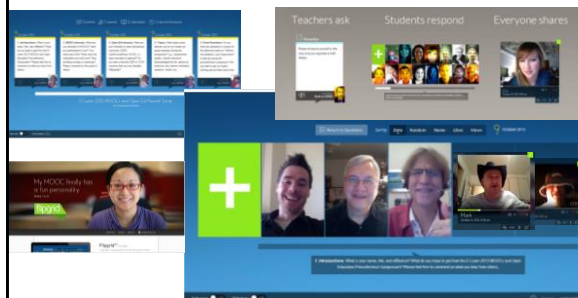


Examples of TEC-VARIETY



1. Tone/Climate: A. Threaded Video Discussions, e.g., Flipgrid

<http://flipgrid.com/#429f88c5>



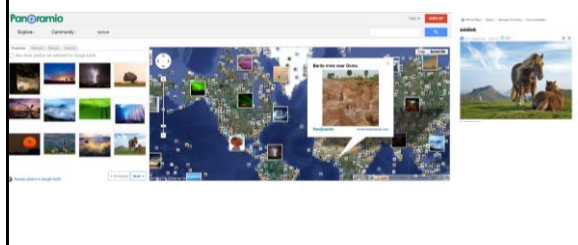
1. Tone/Climate: B. Share links to Favorite Songs (e.g., Royalty-Free Music)

<http://incompetech.com/music/royalty-free/>;
<http://freeplaymusic.com/>



1. Tone/Climate: C. Share Visuals of Favorite Places (e.g., Panoramio)

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



1. Tone/Climate: D. Instructor Course Introductions

(Theatre 10 Intro Video, October 7, 2014, Elizabeth Dale, West Valley College)

<https://www.youtube.com/watch?v=Wzbzc3QjIA>

Chuck Severance, U Michigan/Coursera in Barcelona

<http://www.youtube.com/watch?v=JzNHvmSv8TI>

Chuck Severance, University of Michigan

<https://www.coursera.org/course/pythonlearn>



2. Encouragement, Feedback, etc.: A. Demonstrations and Tutorials

Emerging technology specialist, IU UITs, Nitocris Perez,
May 29, 2014

<http://inside.iub.edu/features/videos/2014-05-29-inub-vid-cib.shtml>



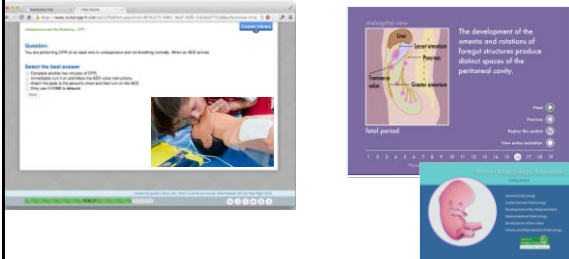
2. Encouragement, Feedback, etc.: B. Voice/Audio Feedback

Vocaroo: <http://vocaroo.com/>

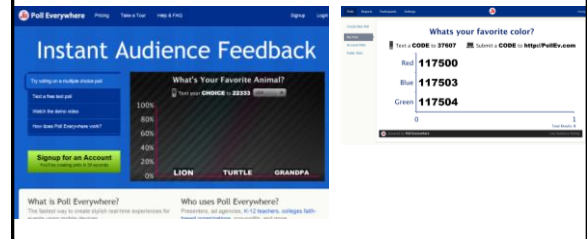
<http://vocaroo.com/delete/s0x8moQAYAiU/a37bbc9408bb8c95>
(Recorded by Curt Bonk for the Open University of China)



2. Encouragement, Feedback, etc.: C. Online Practice Tests and Quizzes (e.g., CPR, Human Embryology Animations)



2. Encouragement, Feedback, etc.: D. Blog and Website Polling (e.g., Poll Everywhere, BlogPolls, BlogPoll, MicroPoll) <http://www.pollerywhere.com/>



3. Curiosity, Fun: Linking Historical Events A. May 25, 2001 Man on the moon: Kennedy speech ignited the dream. Richard Stenger, CNN.com <http://edition.cnn.com/2001/TECH/space/05/25/kennedy.moon/>



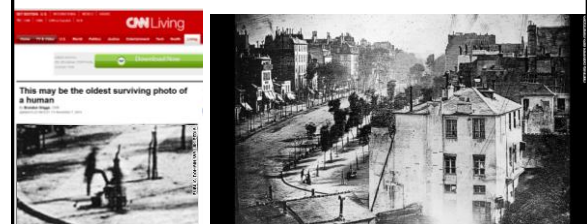
May 25, 2015 3. Curiosity, Fun: B. Something in the News (e.g., Chinese universities move up in world rankings, China Daily) http://www.cnn.com/2014/12/17/health/healthy-aging/index.html?hpt=hp_12 http://espn.go.com/sports/enrurance/story/_/id/8979487/fauja-singh-101-career-10k-hong-kong http://www.chinadaily.com.cn/china/2015-05/25/content_2085854.htm



3. Curiosity, Fun: C. Something in the News New 'massive' dinosaur skeleton discovered, USA Today, September 5, 2014 (Dreadnoughtus) <http://www.usatoday.com/story/tech/2014/09/04/dinosaur-skeleton-discovered/15031803/> October 23, 2014: Goofy dinosaur blends Barney and Jar Jar Binks, SF Gate <http://www.sfgate.com/news/article/Goofy-dinosaur-blends-Barney-and-Jar-Jar-Binks-5486093.php> January 20, 2015: Naomi Ng, for CNN <http://www.cnn.com/2015/01/20/health/dinosaur-photos/index.html>



3. Curiosity, Fun: D. Something in the News (e.g., This may be the oldest surviving photo of a human, November 7, 2014, CNN, Brandon Griggs; But this image, taken in Paris, France, in 1838) http://www.cnn.com/2014/11/06/living/oldest-photograph-human-daguerre/index.html?hpt=hp_14_kong



August 8, 2015

Pure Genius: Building a Culture of Innovation and Taking 20% Time to the Next Level

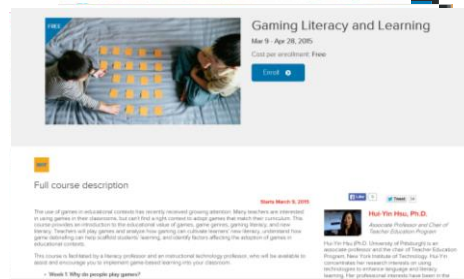
Don Wetttrick, dwetttrick@gmail.com

<http://theinnovationteacher.com/don-wetttrick/#.VcYmU87J8js>

<http://www.amazon.com/Pure-Genius-Building-Culture-Innovation/dp/0988217627>



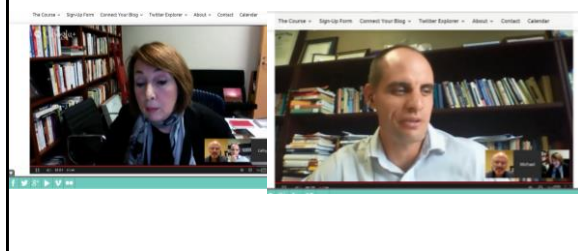
5. Autonomy, Choice: B. Enroll in a MOOC and Reflect (e.g., see Class Central)



5. Autonomy, Choice: C. Attend Webinar (pick weeks and reflect)

Cathy Davidson, The End of Higher Education

<http://connectedcourses.net/thecourse/why-we-need-a-why/>



5. Autonomy, Choice: D. Design Multimedia Glossaries

Ozgur Ozdemir, December 2012

<http://r685glossary.shutterfly.com/>

Umida Khikmatillaeva, Dec. 2011, P540

<http://learningplanet.shutterfly.com/>



5. Autonomy, Choice: E. Open Educational Resources (OER) Digital Public Library of America

<http://dp.la/>



Poll #3:

**Any light bulbs going off in
your head so far...?**

A. Yes definitely***

B. Yes maybe!

C. Not yet (but hopefully soon...)



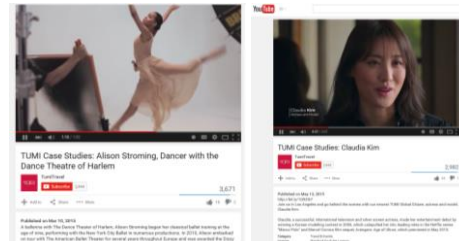
6. Relevance, Meaningfulness:

A. Guest Chats (e.g., Emily Hixon, January 20, 2015) <https://connect.iu.edu/p259wpiabq9/>



6. Relevance, Meaningfulness:

B. Case-Based Learning: TUMI Case Studies: Claudia Kim and Alison Stroming, *Dancer with the Dance Theatre of Harlem* (March 20, 2015 and May 13, 2015) <https://www.youtube.com/watch?v=onhgDnslHgY> <https://www.youtube.com/watch?v=v5c7PT5tEFQ>



6. Relevance, Meaningfulness:

C. Case-Based Learning: Instructor Cases (e.g., Mark Braun, IU)



7. Interactive, Collaborative:

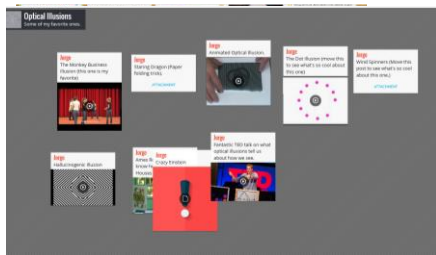
A. Negotiate Meanings Online (e.g., PiratePad: <http://meetingwords.com/>)

<http://blogs.edon.edu/technology/6-collaborative-writing-applications-for-group-projects-or-papers/>
MeetingWords, Google Docs, NowComment, MixedInk



7. Interactive, Collaborative:

B. Virtual Sharing Walls, April 6, 2015 e.g., Padlet (What is your secret recipe to engage?) http://padlet.com/zaid_alsagoff/engage



7. Interactive, Collaborative:

C. Collaboration and Discussion in Google Hangouts, Jabber, Skype, etc (January 29 and February 25, 2013)



Poll #4: Which of these ideas might you use?

- A. Student designed multimedia glossaries
- B. Online cases
- C. 20 percent time learning
- D. Guest chats with former students
- E. Negotiate meanings online (e.g., PiratePad)
- F. Enroll in a MOOC
- G. Discussion in Google Hangouts



8. Engagement, Effort:

A. Interactive Multimedia E-Books

June 10, 2014, Chronicle of HE, 300 images, more than 700 notes and explanations, multimedia annotations, video commentary, and two dozen videos.

Digital Dubliners: <http://digitaldubliners.com/>
James Joyce: <http://joyceways.com/>



July 27, 2015

8. Engagement, Effort:

B. iPhone Virtual Tour and Games



8. Engagement, Effort:

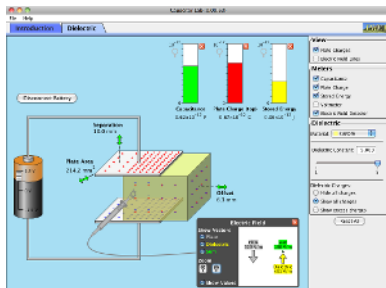
C. Intercultural learning

Virtual and on-site exchanges between York University students, refugee students on the Thai Burma border and displaced migrant students in Ranong, Thailand, and York University, Toronto, Canada

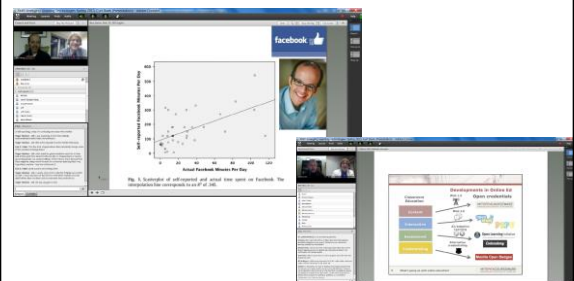
<http://aifprojects.yorku.ca/projects/intercultural-learning-thailand-2012-13/>



8. Engagement, Effort: D. Simulations



8. Engagement, Effort: E. Guest Speaker Quotes (Rey Junco, February 25, 2013)



8. Engagement, Effort: F. Expert Question and Answer Sessions

http://www.oise.utoronto.ca/dr/Research_Projects/index.html

8. Engagement, Effort: G. Interactive Timeline Maps,

October 22, 2014, Second immigration wave lifts diversity to record high, Edward Greg Toppo and Paul Overberg, USA Today

<http://www.statista.com/statistics/news/chart/2014/10/22/immigration-diversity-change-100-years/201113/>

Rising diversity, state by state

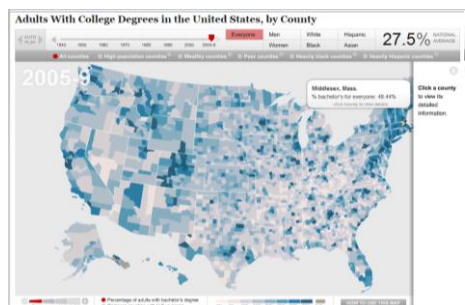
The USA TODAY Diversity Index shows on a scale from 0-100 the chance that two random people are different by race and ethnicity.



Source: USA TODAY analysis by Paul Overberg of data from Census Bureau, NHGIS at University of Minnesota and ProximityOne Frank Poppo, USA TODAY

8. Engagement, Effort: H. Interactive Map Timelines (adults with college degrees by county, May 7, 2012)

<http://blogs.pewresearch.org/margin/2012/05/07/college-degrees-by-county/>



8. Engagement, Effort: I. Google Map Gallery

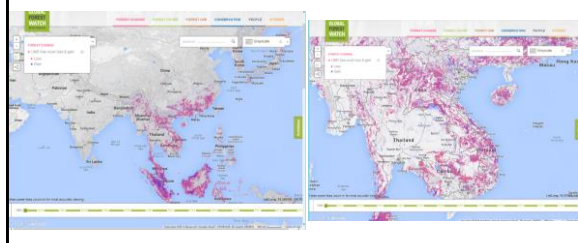
September 16, 2014

<http://maps.google.com/gallery/>



8. Engagement, Effort: J. Map Trend Interpretations e.g., Global Forest Watch (April 2014)

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

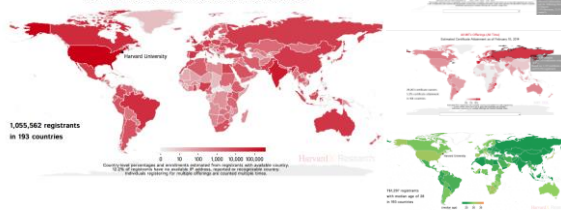


8. Engagement, Effort: K. Data Visualization Tools (Harvard and MIT MOOCs) Lawrence Biemiller, February 20, 2014, Chronicle of Higher Education

<http://chronicle.com/blogs/article/harvard-and-mit-offer-data-visualization-tools-for-mooc-users/2014/02/20/20140220-harvard-mit-mooc-data-visualization/>

World Map of Enrollment

All Harvard Offerings (All Time)
Estimated Worldwide Registration as of February 10, 2014



March 15, 2015

9. Tension, Challenge, etc.:

A. Controversial Issue Debates

SXSW: Tackling the growing gender gap in technology
Mike Snider, USA Today

<http://www.usatoday.com/story/tech/2015/03/15/sxsw-guest-gifts-chic-technology-gender-gap/2480869/>



March 13, 2015

9. Tension, Challenge, etc.:

B. Controversial Issue Debates

R511 Midterm Video How to Create an Authentic Environment in a Content-Driven School?, R511, Nick and Nik

https://www.youtube.com/watch?v=Bcr3_aZT_xQ&feature=youtu.be



July 10, 2014

9. Tension, Challenge, etc.:

C. Controversial Issue Debates

Scholarly journal retracts 60 articles, smashes 'peer review ring', Fred Barbash, Washington Post

<http://www.washingtonpost.com/news/morning-mix/wp/2014/07/10/scholarly-journal-retracts-60-articles-smashes-peer-review-ring/>



May 26, 2015

9. Tension, Challenge, etc.:

D. Controversial Issue Debates:

Auto-Tune (The invention that changed music forever, Jacopo Prisco and Andrew Stewart, CNN)

<http://www.cnn.com/2015/05/26/tech/auto-tune-invention-cnn/index.html>
<http://soundcloud.com/jacopo-prisco/autotune-after>



10. Yields Products, Goals:
A. Uploading Mobile Books and Wikibooks
(e.g., BookRix, <http://www.bookrix.com/>)



10. Yields Products, Goals:

B. Student Created Mobile Apps

The App Builder: <http://www.theappbuilder.com/>
Mintian Guo: <http://myapp.is/r685final>



10. Yields Products, Goals:

C. Student Created Videos

Piercarlo Abate: <http://www.youtube.com/watch?v=-TURzH00aU>
 Qi Li, Gangnam: <http://www.youtube.com/watch?v=7Q429lqZaU&feature=youtu.be>
 Miguel Lara (Web 2.0 FREEDOM): <http://www.youtube.com/watch?v=8cmCFW9I9H8>
 Kendal Rasnake (Is IT Right For You?): <https://www.youtube.com/watch?v=MJ3GUD1CIGw>



Poll #5:

Which of these ideas might you use?

- A. Guest speaker quotes
- B. Data visualization tools
- C. Issue challenges, role plays, and debates
- D. Student designed video productions
- E. Student designed e-books
- F. Map trends
- G. Interactive timeline tools



Commitments:

Stop and Share:

Which principle(s) of TEC-VARIETY will you use?

Tone/Climate
Encouragement, Feedback
Curiosity

Variety
Autonomy
Relevance
Interactive
Engagement
Tension
Yields Products



Recap and Reflect with Neighbor:

Explore Websites from this Session!
 Or Find the lieu...

Take a quick 15 minute break...



What motivates?

1. Tone/Climate: Psychological Safety, Comfort, Sense of Belonging
2. Encouragement: Feedback, Responsiveness, Praise, Supports
3. Curiosity: Surprise, Intrigue, Unknowns
4. Variety: Novelty, Fun, Fantasy
5. Autonomy: Choice, Control, Flexibility, Opportunities
6. Relevance: Meaningful, Authentic, Interesting
7. Interactivity: Collaborative, Team-Based, Community
8. Engagement: Effort, Involvement, Investment
9. Tension: Challenge, Dissonance, Controversy
10. Yielding Products: Goal Driven, Purposeful Vision, Ownership

Masterclass Part II

Where Are You R2D2?:

Addressing Diverse Learner Needs with the Read, Reflect, Display, and Do Model

Curtis J. Bonk, Professor, Indiana University

cjbonk@indiana.edu

<http://mypage.iu.edu/~cjbonk/>



This Generation of Students



November 25, 2014

**OER Research Hub, OER Evidence Report:
Building Understanding of Open Education
2013-2014**

<http://oerresearchhub.files.wordpress.com/2014/11/oerh-evidence-report-2014.pdf>



**What about the Instructor
in the Open World?**



**Nine "C"
Metaphors of Instructors
(e.g., "Cat Herders")**



1. Instructor as Credit Manager



2. Instructor as Court Room Judge



3. Instructor as Counselor

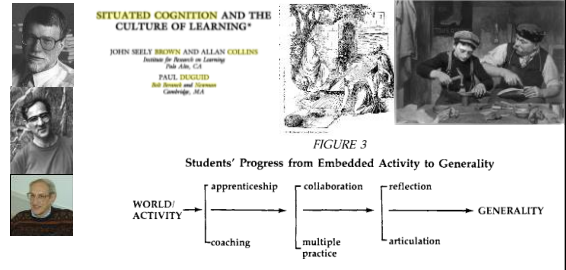


4. Instructor as Consultant**5. Instructor as Conductor****6. Instructor as Course Ambassador****7. Instructor as Curator****8. Instructor as Concierge****9. Instructor as Camping Trip Guide**

#10? How About Instruction as a Cognitive Apprenticeship?



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



Expert Apprenticeship from Video



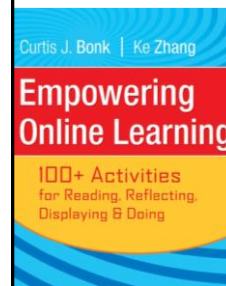
Addressing Learning Styles



Question: How can technology address diverse learner needs?



Framework #2: The R2D2 Model





The R2D2 Method

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



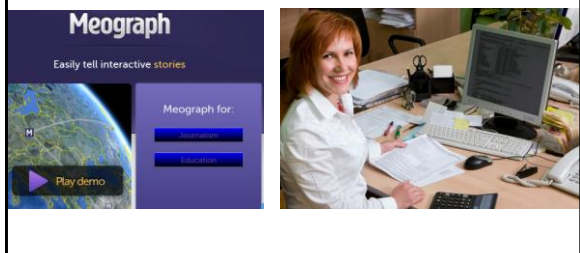
1. Auditory or Verbal Learners

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



Read 1a. Collect and Listen to Interactive Stories

(e.g., Meograph: <http://www.meograph.com/>)



Read 1b.

Reading about the Life of a Musician (bio.com)

<http://www.biography.com/people/bob-marley-9399524>



Read 1c.**Exploring the Life of a Prominent People (Wikipedia)**

http://en.wikipedia.org/wiki/Vannevar_Bush

JULY 1945

As We May Think

VANNEVAR BUSH | JUL 1 1945, 12:00 PM ET

**January 28, 2015****Read 1d. Twitter Fed Class Discussions**

Live-Tweeting Assignments: To Use or Not to Use?

he Chronicle of Higher Education, Adeline Koh

<http://chronicle.com/blogs/profcheck/live-tweeting-assignments-to-use-or-not-to-use/58949>

Live-Tweeting Assignments: To Use or Not to Use?



Do you remember a great first-class lecture in the past? How has online learning changed the way we learn? How do we choose between face-to-face and online learning? How do we choose between face-to-face and online learning? How do we choose between face-to-face and online learning?

**Read 1e. Grammar Checkers (e.g., Grammarly, Ginger, GrammarCheck, PaperRater, and SpellCheckPlus)**

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

**2. Reflective and Observational Learners**

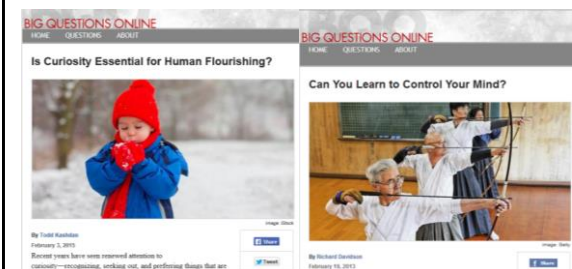
- Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives

**Reflect 2a. Big Issue Reflections**

(Big Questions Online (BQO)), Feb 3, 2015

(e.g., Is curiosity essential for human flourishing?)

<https://www.bigquestionsonline.com/content/do-we-have-souls>

**Reflect 2b. Interpreting Infographics July 24, 2014**

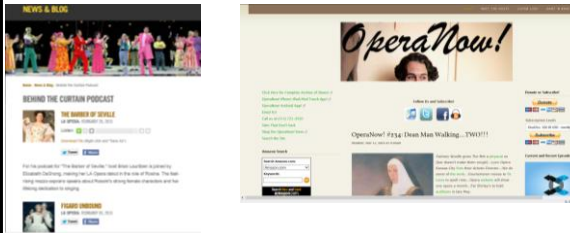
Woman in Computer Science

<http://graduatedegreesonline.njit.edu/msc-resources/msc-infographics/women-in-computer-science/>



Reflect 2c.

Podcast Show Reflections
OperaNow!: <http://www.operanowpodcast.com/>
LA Behind the Circle Podcast
<http://www.laopera.org/news/Podcast-List/>



Reflect 2d. Workplace Internship, Practicum, and Field Experiences



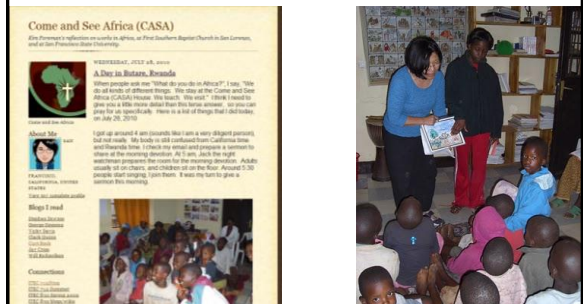
Reflect 2e.

Reflect on Virtual Timelines
 (Dipity, xtimeline, Simile, etc.)

<http://www.usatoday30.usatoday.com/tech/news/story/2011-09-22/steve-jobs-dies/50672498/1>
<http://www.cnet.com/news/steve-jobs-a-timeline/>



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



Poll #6:

Any light bulbs going off in your head so far...?

- A. Yes definitely
- B. Maybe
- C. No



3. Visual Learners

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



Display 3a. Virtualize Words Used (e.g., Wordle, Taggedo, Tagul, WordSift, Word It Out)

<http://shellyterrell.com/2010/02/14/12-word-cloud-resources-tips-tools/>



Display 3b. More Interpreting Infographics August 5, 2015

How much rainforest in that chocolate bar?
Global Forest Watch, Nancy Harris, Octavia Payne and Sarah Mann
<http://blog.globalforestwatch.org/2015/08/how-much-rainforest-is-in-that-chocolate-bar/>

Land-Use Change Emissions in Miles Driven

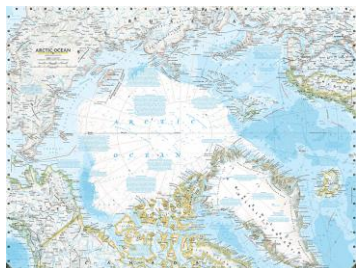


<http://bit.ly/rainforest-chocolate>

WORLD RESOURCES INSTITUTE

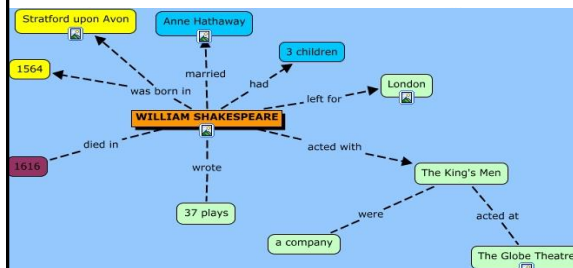
Display 3c. Map Animations Yes, Mr. President, We Remade Our Atlas to Reflect Shrinking Ice

Christine DelfAmore, National Geographic, August 3, 2015
<http://news.nationalgeographic.com/2015/08/03/atlas-to-reflect-shrinking-ice/>



Display 3d. (April 28, 2015) Concept Mapping and Timeline Tools (Bubbl.us, Cmap, Gliffy, Spicynodes, or Mindomo)

<http://www.spicynodes.org/index.html>



Display 3e. October 31, 2014 Penguin Science (Penguin Cam), Jean Pennycook

<http://www.penguinscience.com/>
<http://www.thistle.org/pcam2/images.shtml>



Display 3f. Videos for clinical education (Verdi - La Traviata (1988) - Complete opera)

<https://www.youtube.com/watch?v=49UzA0T02zQ>



Display 3g.

Educational Videos:

CNN, BBC, TED, TED-Ed, ForATV

Patsy Redenberg: Why I Do Theater: https://www.ted.com/talks/patsy_redenberg_why_i_do_theater
 Ben Cameron: The true power of the performing arts: http://www.ted.com/talks/ben_cameron_the_true_power_of_the_performing_arts
 Karolina Eliska: My magic moves: http://www.bbc.com/talks/karolina_eliska_my_magic_moves
 Matilda Sarabhai: Dance to change the world: http://www.ted.com/talks/matilda_sarabhai_dance_to_change_the_world
 Wayne McGregor: A choreographer's creative process in real time: http://www.bbc.com/talks/wayne_mcgregor_a_choreographer_s_creative_process_in_real_time
 Bill T. Jones: The dancer, the singer, the cellist... and a moment of creative magic: http://www.ted.com/talks/bill_t_jones_the_dancer_the_singer_the_cellist_and_a_moment_of_creative_magic



Display 3h.

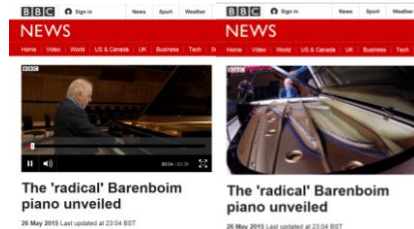
Educational Videos:

CNN, BBC, TED, TED-Ed, ForATV

BBC One-Minute World News (May 27, 2015)

Turning Van Gogh's The Night Cafe into virtual reality

<http://www.bbc.com/news/technology-32751392>



Display 3i.

Key Concept Demonstrations

<https://www.youtube.com/watch?v=ReAem-rZp2Y>



Display 3j.

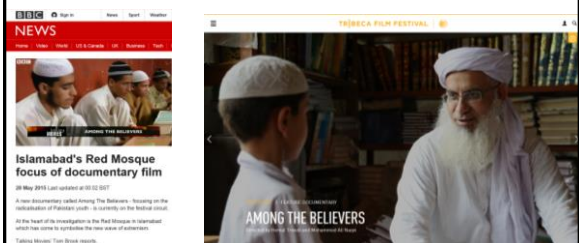
Documentary Debates:

e.g., Documentaries on Islamic Extremism

<http://www.bbc.com/news/entertainment-arts-32901215>

Tribeca Film Festival

<https://tribecafilms.com/filmguide/among-the-believers-2015>



Display 3k. Video Anchor: Drama

(Urban School Performance Project in Lucknow, India)

Kathleen Gallagher from OISE. She does international/urban work using digital technologies to give voices to marginalized youth through drama.

<https://www.youtube.com/watch?v=JVCgf1cd4ZU>



Display 3L.

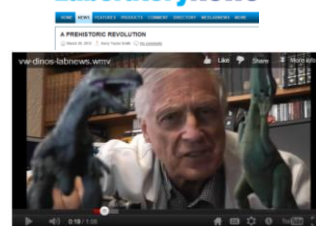
Tracking the Life of a Scientist

(e.g., Brian J. Ford, independent scientist)

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

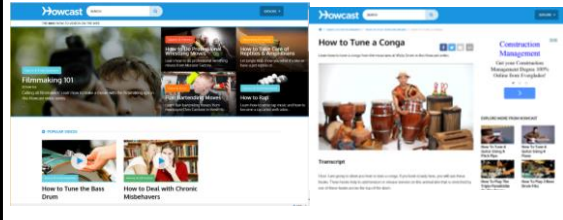
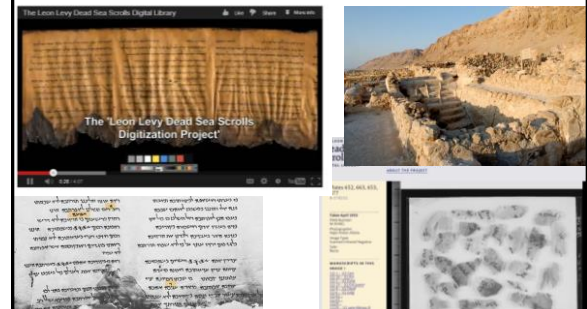
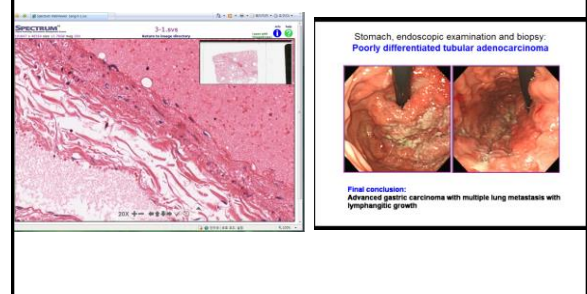
<http://www.labnews.co.uk/news/prehistoric-revolution/>

LaboratoryNews



Display 3m.**Video Tutorials, Demonstrations,
and How-To's**

WonderHowTo and Howcast

<http://www.howcast.com/><http://www.wonderhowto.com/><http://www.howcast.com/?s=tune+a+drum>**Display 3n.****Video Repositories and Portals
(e.g., Khan Academy, Music Masterpieces)**<https://www.khanacademy.org/humanities/music/masterpieces-old-new/ludwig-van-beethoven-music/v/ludwig-van-beethoven-part-1>**Display 3o. Videos for clinical education
(Sungkyunkwan University School of Medicine,
www.mededu.or.kr)****Display 3p. Unique OER
(e.g., Dead Sea Scrolls)**<http://www.deadseascrolls.org.il/explore-the-archive>http://www.deadseascrolls.org.il/explore-the-archive_the_Qumran_Cave_4**Display 3q.****Syrian Cultural Destroyed, CNN,
July 3, 2014****Display 3r. Virtual Microscopes**

- **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.**



February 8, 2015

Do 4a. Recap Discussion (e.g., Prezi from Thuy Han for R678 class Week 4)

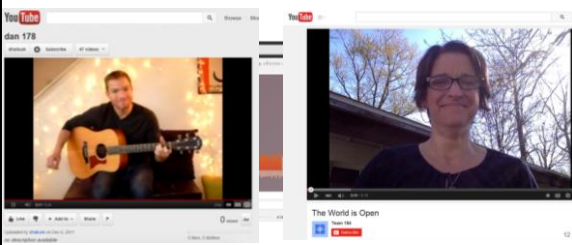
https://prezi.com/r4vkwoqlkn9/httpswebarchiveorgweb20040303191129httpwwwnetco/?utm_campaign=share&utm_medium=copy



Do 4b. Student Music Recordings of Course Content

April 26, 2015

IST Groove Song, Jeffrey Jenkins, R511: <https://soundcloud.com/jeffjenkins25/ist-groove>
The World is Open, Jill Kaufman, R678: <https://www.youtube.com/watch?v=ZRGV0Mg5vnmw&feature=youtu.be>
Daniel Halluska, P540: <http://www.youtube.com/watch?v=tOL7lrGsqnw>



Do 4c. Interactive Archive/Gallery of Exemplary First-Year Writing Projects
(Fresh Writing, University of Notre Dame, September 24, 2014; <https://freshwriting.nd.edu/>)



1. Combining Phases (Media)

(Dual Coding Theory: Text + Video)

Text: http://en.wikipedia.org/wiki/Ray_Dolby

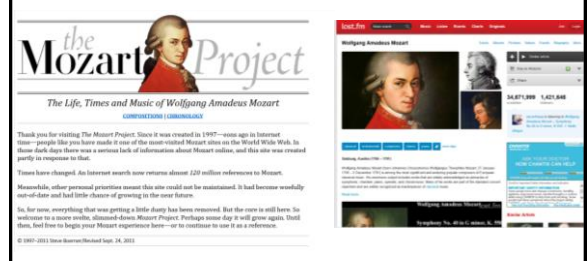
Video (September 20,2000): <http://www.gigwise.com/news/84155/audio-pioneer->



2. Combining Phases (Media)

Unique Open Educational Resources and Portals

(e.g., Mozart: <http://www.mozartproject.org/>)



3. Combining Phases (Media)

Media Generated Content as Instructional Anchor (e.g., Blues Music, Film, etc.)

(Blues legend B.B. King dies at age 89, May 15, 2015, VNN)

<http://www.cnn.com/2015/05/15/entertainment/bb-king-dead/index.html>



4. Combining Phases (Media)

Tracking Researchers and Explorers

<http://lt.umn.edu/eartheducation/expedition6/>



5. Combining Phases (Media)

Design Article Database in Facebook, Jenny Webeck

<https://www.facebook.com/JennyBELTT/timeline>

Dr. Bonk's creative fun time group (R546)

<https://www.facebook.com/groups/830496290323899/>



Poll #7: Which do you prefer...

(A) TEC-VARIETY or (B) R2D2?



What motivates?

1. Tone/Climate: Psychological Safety, Comfort, Sense of Belonging
2. Encouragement: Feedback, Responsiveness, Praise, Supports
3. Curiosity: Surprise, Intrigue, Unknown
4. Variety: Novelty, Fun, Fantasy
5. Autonomy: Choice, Control, Flexibility, Opportunities
6. Relevance: Meaningful, Authentic, Interesting
7. Interactivity: Collaborative, Team-Based, Community
8. Engagement: Effort, Investment, Investment
9. Tension: Challenge, Dissonance, Controversy
10. Yielding Products: Goal Driven, Purposeful Vision, Ownership



Poll #8: How many ideas did you get from this talk?

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.



Poll #9: Where are we headed? Where is Education 3.0?



February 20, 2013
Star Trek-like holodeck may be closer to reality than you think

Matt Hartley, Financial Post, Canada

http://business.financialpost.com/2013/02/20/star-trek-like-holodeck-may-be-closer-to-reality-than-you-think/?__ha=054d-d58d

Star Trek-like holodeck may be closer to reality than you think



Poll #10: Any Questions?

Try TEC-VARIETY...Try R2D2

Slides at: TrainingShare.com

Papers: PublicationShare.com



Free Book: <http://tec-variety.com/>

<http://tec-variety.com/TEC-VARIETY-Chinese.pdf>

Dr. Curt Bonk – CJBonk@Indiana.edu

