Super Masterclass 0.0:
Engage, Number One:
This is the Next Generation
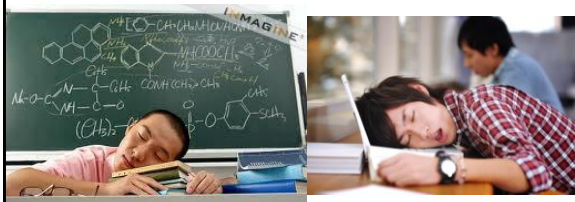
Curtis J. Bonk, Professor, Indiana University
cjbonk@indiana.edu
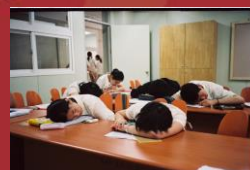http://mypage.iu.edu/~cjbonk/

This Generation of Students

Needed: New Models of Motivation and Engagement
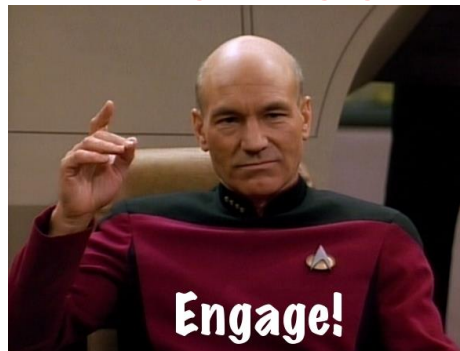

How do we engage online?

What did Jean-Luc Picard say?

That's right, Engage!

Engage!

Poll: 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.

Drive: The Surprising Truth About What Motivates Us
Daniel Pink (2009)

Motivation 3.0

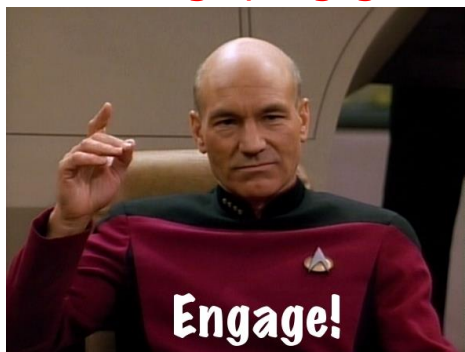**Mindset:**
The New Psychology of Success
Carol Dweck (2006)
http://mindsetonline.com/index.html
http://mindsetonline.com/testyourmindset/step1.php

This Generation of Students

What did Jean-Luc Picard say?

That's right, Engage!

Engage!

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.

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

Framework: TEC-VARIETY for Online Motivation and Retention

1. **T**one/Climate: Psych Safety, Comfort, Belonging
2. **E**ncouragement, Feedback: Responsive, Supports
3. **C**uriosity: Fun, Fantasy, Control
   …
4. **V**ariety: Novelty, Intrigue, Unknowns
5. **A**utonomy: Choice: Flexibility, Opportunities
6. **R**elevance: Meaningful, Authentic, Interesting
7. **I**nteractive: Collaborative, Team-Based, Community
8. **E**ngagement: Effort, Involvement, Excitement
9. **T**ension: Challenge, Dissonance, Controversy
10. **Y**ields Products: Goal Driven, Products, Success, Ownership

Introducing the free "TEC-VARIETY" Framework…

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

ADDING SOME TEC-VARIETY

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

1. Risk — Low Risk / High Risk

2. Time — Easy to Embed / Extensive Planning

3. Cost — Free or Inexpensive / Enterprise Licenses

4. Student-Centered — Instructor-Focus / Student-Focus — Low / High
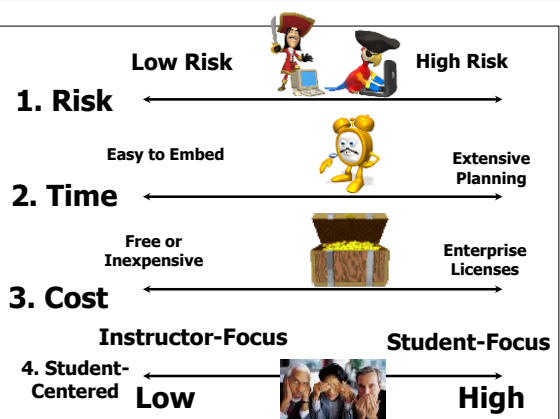
Examples of TEC-VARIETY

1. **T**one/Climate: A. Threaded Video Discussions, e.g., Flipgrid
http://flipgrid.com/#429f88c5)
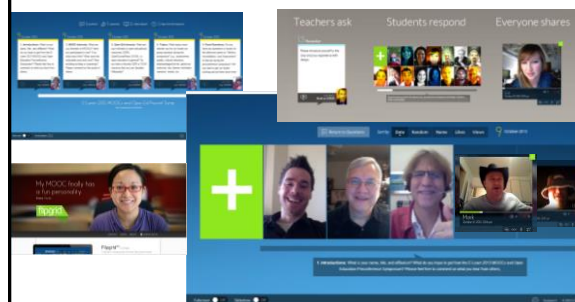
1. **T**one/Climate:
B. Share Visuals of Favorite Places
(e.g., Panoramio,
http://www.panoramio.com/)
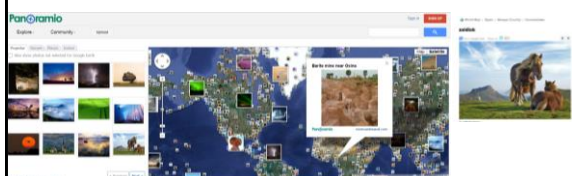
1. **T**one/Climate:
C. Instructor Course Introductions
(Theatre 10 Intro Video, October 7, 2014, Elizabeth Dale, West Valley College)
https://www.youtube.com/watch?v=_Wzbzc3QiiA
Chuck Severance, U Michigan/Coursera) in Barcelona
http://www.youtube.com/watch?v=JzNHvmSv8TI
Chuck Severance, University of Michigan
https://www.coursera.org/course/pythonlearn

2. **E**ncouragement, 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. **E**ncouragement, 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)

3. Curiosity, Fun:
A. Something in the News
September 5, 2014 (Dreadnoughtus)
http://www.usatoday.com/story/tech/2014/09/04/dinosaur-skeleton-discovered/15031803/
March 3, 2016
Scientists to drill at site of dinosaur-killing asteroid crater, Jareen Imam, CNN
http://www.cnn.com/2016/03/04/world/scientists-drill-impact-crater-irpt/index.html
October 23, 2014: Goofy dinosaur blends Barney and Jar Jar Binks, SF Gate
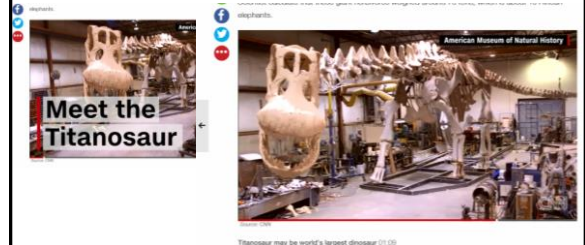http://www.sfgate.com/news/science/article/Goofy-dinosaur-blends-Barney-and-Jar-Jar-Binks-5840093.php

January 14, 2016
3. Curiosity, Fun:
B. Something in the News
Move over T. rex, new dinosaur unveiled, Amanda Jackson, CNN
http://www.cnn.com/2016/01/14/living/titanosaur-new-dinosaur-on-display-new-york-irpt/

September 7, 2015
3. Curiosity, Fun:
C. Something in the News
New 'Superhenge'? Remains found near Stonehenge, Monica Sarkar, CNN
http://www.cnn.com/2015/09/07/europe/new-superhenge-discovery/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_t4 kong
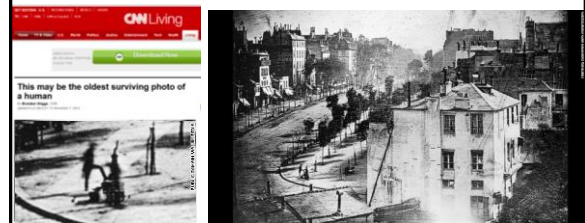
April 1, 2016
3. Curiosity, Fun:
E. Something in the News
(e.g., Potential Vikings site in North America spotted from space, Jareen Inman, CNN)
http://www.cnn.com/2016/04/01/world/vikings-site-space-irpt/index.html

April 1, 2016
3. Curiosity, Fun:
F. Something in the News
(e.g., 2,500-year-old slab reveals lost language, CNN)
(A team of scientists have uncovered a 2,500-year-old slab that may reveal details about the ancient Etruscan civilization; found in Temple foundation north of Florence, Italy.)
http://www.cnn.com/videos/world/2016/04/01/italy-etruscan-slab-find-orig-vstan.cnn

5

3. Curiosity, Fun:
G. Virtual Expeditions
July 23, 2015
What Google's virtual field trips look like in the classroom, eSchool News, Stephen Noonoo

Expeditions: Take your students to places a school bus can't

June 12, 2015
3. Curiosity, Fun: H. Something in the News and Infographic
Twitter CEO Dick Costolo replaced by co-founder Jack Dorsey, Laura Onita
http://eandt.theiet.org/news/2015/jun/twitter-costolo-dorsey.cfm
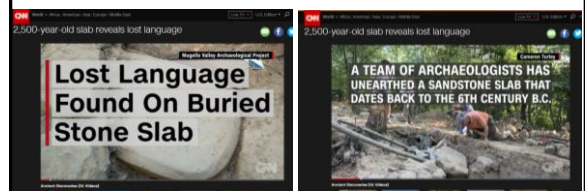

March 8, 2016
3. Curiosity, Fun:
I. Tracking the Life of a Computer Scientist (bio.com)
Reminder: The First Computer Programmer Was A Woman: Meet Ada Lovelace, Damon Beres, Huffington Post
http://www.huffingtonpost.com/entry/ada-lovelace-first-computer-program_us_56dee4d0e4b0f8e6f8ea9064
http://www.biography.com/people/ada-lovelace-20825323

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

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

December 8, 2015
5. Autonomy, Choice:
B. Design Multimedia Glossaries
P540 Final Assignment: Nate Wynne, Supersized Personal Course Glossary
http://natewynne1982.wix.com/p540courseglossary
Ozgur Ozdemir, December 2012
http://r685glossary.shutterfly.com /
Umida Khikmatillaeva, Dec. 2011, P540
http://learningplanet.shutterfly.com/

5. Autonomy, Choice:
C. Video Repositories and Portals
(e.g., Khan Academy, Computer Programming)
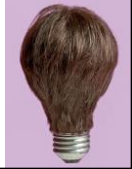https://www.khanacademy.org/computing/computer-programming

Poll:
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/p259wpiabg9/

January 20 and 26, 2016 (Zoom)
6. Relevance, Meaningfulness:
B. Weekly Guest Expert Chats
R511 Chat with Mike Molenda, IU
R511 Chat Charles Graham, BYU

October 16, 2015
6. Relevance, Meaningfulness:
C. Case Learning from the News
(e.g., Newseum Ed)
https://newseumed.org/

7. Interactive, Collaborative:
A. Negotiate Meanings Online
(e.g., PiratePad: http://meetingwords.com/)
http://blogs.elon.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?)
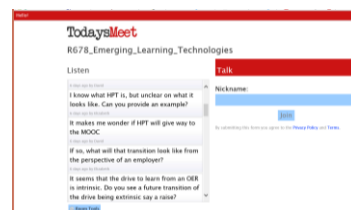**http://padlet.com/zaid_alsagoff/engage**

7. Interactive, Collaborative:
C. Backchannel Chat (TodaysMeet)
https://todaysmeet.com/
R678_Emerging_Learning_Technologies
https://todaysmeet.com/R678_Emerging_Learning_Technologies

8. Engagement, Effort:
A. Interactive Timeline Maps,
October 22, 2014, Second immigration wave lifts diversity to record high, Edward Greg Toppo and Paul Overberg, USA Today
http://www.usatoday.com/longform/news/nation/2014/10/21/diversity-race-ethnicity-change-100-years/16211133/

8. Engagement, Effort:
B. Interactive Labs and Simulations
http://phet.colorado.edu/en/simulation/energy-skate-park

8. Engagement, Effort:
C. Videos with Test Questions (e.g., TEDEd)
(Lessons about every single element on the periodic table)
http://ed.ted.com/periodic-videos?utm_source=TED-Ed+Subscribers&utm_campaign=92b1054add-2013_09_219_19_2013&utm_medium=email&utm_term=0_1aaccced48-92b1054add-46761201

8. Engagement, Effort:
D. Reflect on Virtual Timelines
(Dipity, xtimeline, Simile, etc.)
http://www.usatoday.com/news/destinations/story/2011-08-25/Martin-Luther-King-Jr-Memorial-in-Washington-A-closer-look/50136470/1?cap=34news
http://usatoday30.usatoday.com/tech/news/story/2011-09-22/steve-jobs-dies/50672498/1
http://www.cnet.com/news/steve-jobs-a-timeline/

March 13, 2015
9. Tension, Challenge, etc.:
A. 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

10. Yields Products, Goals:
A. Student Created Mobile Apps
The App Builder: http://www.theappbuilder.com/
Mintian Guo: http://myapp.is/r685final

10. Yields Products, Goals:
B. Student Created Videos
Piercarlo Abate: http://www.youtube.com/watch?v=_-TURzHO0aU
Qi Li, Gangnam: http://www.youtube.com/watch?v=7Q429lqxZaU8&feature=youtu.be
Miguel Lara (Web 2.0 FREEDOM): http://www.youtube.com/watch?v=8cmCFWi9IW8
Kendal Rasnake (Is IT Right For You?): https://www.youtube.com/watch?v=MJ3GUDICIGw

10. Yields Products, Goals:
C. Collection Tools
Design Article Database in Pinterest, Jenny Webeck
https://www.pinterest.com/jennifertwebeck/emerging-learning-technologies/

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

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

Time to Stop and Think:
Explore Websites from this Session!
Find the lieu...
Take a 5 minute break...

Ok, how do you now view the instructor in the Open World of Education?

The role of the instructor being disrupted...
(Instructor as Cat Herder?)

From Instructor as Credit Manager...to...

1. Instructor as Counselor

2. Instructor as Conductor
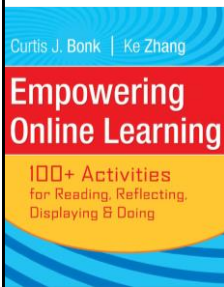
3. Instructor as Course Ambassador

4. Instructor as Curator

5. Instructor as Concierge

Last but not least:
### Framework #2: The R2D2 Model

Addressing Learning Styles with R2D2

Question: How can technology address diverse learner needs?

August 12, 2015
Create Engaging Learning Experiences

Image adapted from Bonk, C.J. & Zhang, K. (2008). Empowering online learning: 100+ activities for reading, reflecting, displaying, & doing. San Francisco, CA: Jossey-Bass.

Southern Illinois University, Carbondale, Illinois
Heidi Jung and Cheryl L Bosarge
Instructional Designer
Center for Teaching Excellence
Heidi Lynn Jung hjung@siu.edu
Cheryl L Bosarge cbosarge@siu.edu

4/3/2016
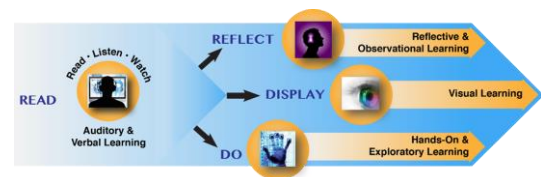
The R2D2 Method

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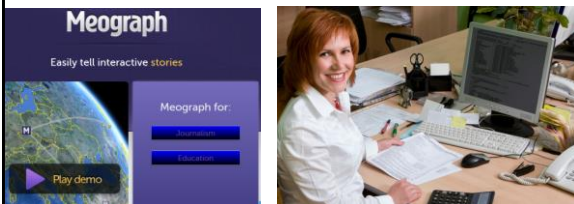4. **Do (Tactile, Kinesthetic, Exploratory Learners)**
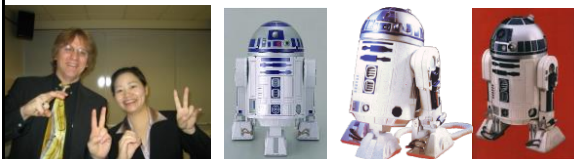
1. Auditory or Verbal Learners

• **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.
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

Read 1c. Grammer Checkers
(e.g., Grammarly, Ginger, GrammarCheck, PaperRater, and SpellCheckPlus)
http://www.grammarly.com/

January 20, 2016
Read 1d. Podcasts
IU Bloomington podcast series to launch Jan. 24, Steve Hinnefeld, IU Newsroom
http://inside.indiana.edu/headlines/2016-01-20-new-campus-podcast.shtml?utm_source=2016-01-20&utm_medium=enewsletter&utm_content=Something-in-the-air&utm_campaign=2016-inside-iub-distribution

IU's Media School dean James Shanahan, at left, will host a new campus podcast. Senior Luqmann Ruth will read the news for the inaugural podcast. | PHOTO BY JENNIFER PIUREK, OFFICE OF THE PROVOST

January 28, 2015
Read 1e. Twitter Fed Class Discussions
Live-Tweeting Assignments: To Use or Not to Use?
he Chronicle of Higher Education, Adeline Koh
http://chronicle.com/blogs/profhacker/live-tweeting-assignments-to-use-or-not-to-use/58949

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 Univ, Come and See Africa Blog; http://comeandseeafrica.blogspot.com/)
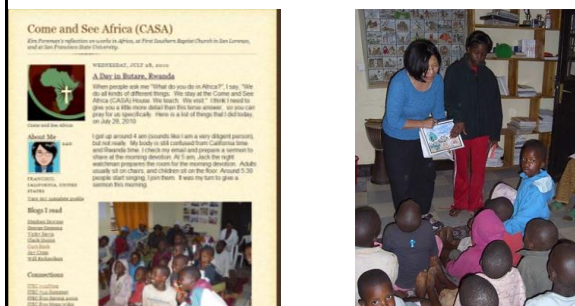
Reflect 2b.
Interpreting Infographics
August 5, 2015
How much rainforest in that chocolate bar?
Global Forest Watch, Nancy Harris, Octavia Payne and Sarah Mann
http://blog.globalforestwatch.org/2015/08/how-much-rainforest-is-in-that-chocolate-bar/
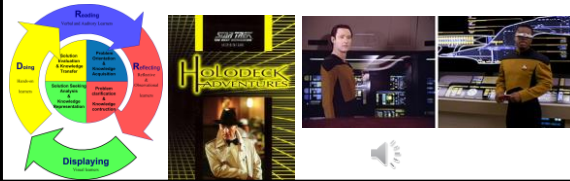

13

3. Visual Learners

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

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

Display 3b. **Map Animations**
Yes, Mr. President, We Remade Our Atlas to Reflect Shrinking Ice
Christine Dell'Amore, National Geographic, August 3, 3015
http://news.nationalgeographic.com/2015/08/150803-arctic-ice-obama-climate-nation-science/?utm_content=buffer8a394&utm_medium=social&utm_source=twitter.com&utm_campaign=ncbuffer

---

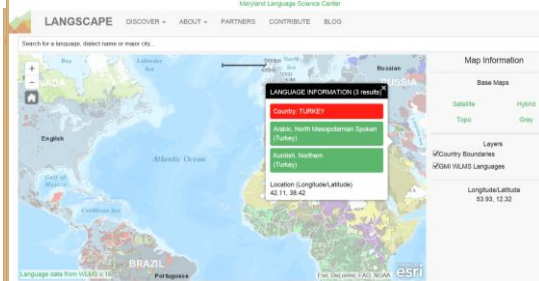# March 10, 2016
Display 3c. Videostreamed Conferences
Watch SXSWedu Live, Connie Yowell
http://sxswedu.com/live?utm_campaign=Edu+2016&utm_source=hs_email&utm_medium=email&utm_content=27144469&_hsenc=p2ANqtz--ag6U7VJGlpYaciareNq6mryKvA63kCRSO3U83VQkfAYp7yiTnncHnxw7_PmMpcjioI9V7z1-01hvyCrDPVEAR-x6HwQ&_hsmi=27144469

March 24, 2015
Display 3d. **Maps of Languages**
Langscape, Language at Maryland
https://languagescience.umd.edu/beyond-umd/langscape
http://theweek.com/articles/545768/cool-interactive-map-lets-explore-worlds-languages
http://langscape.umd.edu/map.php
Maryland Language Science Center

Display 3e.
Short Educational Videos:
CNN, BBC, TED, TED-Ed, ForaTV
BBC One-Minute World News (August 31, 2015)
http://www.bbc.com/news/business-34105708

Display 3f. (April 28, 2015)
Concept Mapping and Timeline Tools
(Bubbl.us, Cmap, Gliffy, Spicynodes, or Mindomo)
http://www.spicynodes.org/index.html

March 7, 2016
Display 3g. Brief Info Videos, Chief Learning Officer
http://www.clomedia.com/media/videos/play/3067utm_source=MyEmma&utm_medium=Email&utm_campaign=CLO%20Today&utm_source=newsletter&utm_medium=email&utm_content=Is%20Online%20Education%20Up%20For%20a%20Facelift%3F&utm_campaign=CLO_Today_101615

March 2, 2016
Display 3h. Weekly 1 minute Video Updates
(e.g., Pinkcasts from Daniel Pink)
http://www.danpink.com/2016/03/pinkcast-2-advice-from-adam-grant-look-for-disagreeable-givers/?utm_source=Dan+Pink%27s+Newsletter&utm_campaign=f89eb01d70-Pinkcast_23_2_2016&utm_medium=email&utm_term=0_4d8277f97e-f89eb01d70-312846253&goal=0_4d8277f97e-f89eb01d70-312846253

Display 3i. Short Video Anchors
(e.g., TubeChop of V-PORTAL: Video Primers in an Online Repository of e-Teaching and Learning)
Curt Bonk: http://www.tubechop.com/watch/378752

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. 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/8304962903233899/
March 31, 2016
Showcasing Digital Student Work, Anastasia Salter, The Chronicle of Higher Ed

Do 4b. Design Article Database in Pinterest, Jenny Webeck
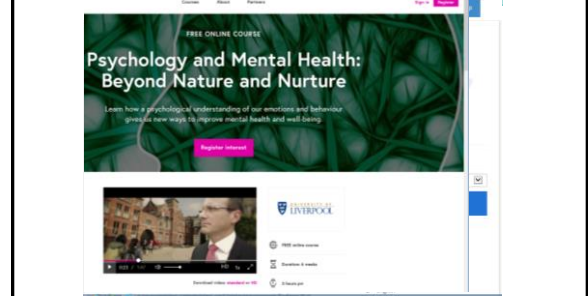https://www.pinterest.com/jennifertwebeck/emerging-learning-technologies/

December 8, 2015
Do 4c. Take a MOOC
P540 Final Assignment for Meina Zhu: MOOC, Coursera, Introduction to Psychology, University of Toronto
https://www.coursera.org/course/intropsych

December 8, 2015
Do 4d. Student Final Project Videos
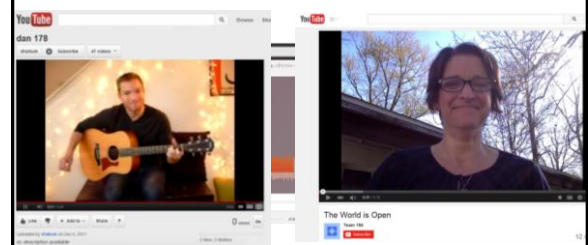P540 Final Assignment: Learning Theories and Psychotherapy, Shu-Yi Wang
https://www.youtube.com/watch?v=PNMpGjnXAjM

Do 4e. 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=ZRGV0Mg5Vmw&feature=youtu.be
Daniel Halluska, P540: http://www.youtube.com/watch?v=tOL7lrGsqnw

March 12, 2016
Do 4f. R678 John Falchi, Timeglider, An Abbreviated History of Distance Education
http://timeglider.com/t/50843d8903a48008?min_zoom=1&max_zoom=100

Poll: Which do you prefer...
(A) TEC-VARIETY or (B) R2D2?

16

Overcoming the Resistance Movement

2. Share Success Stories and Best Practices

6. Awards and Incentives

8. Mentoring and Coaching

Poll: 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.

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