

CONTACT NORTH Online Learning  
Apprentissage en ligne

# How to Motivate and Retain Learners Online

Curtis J. Bonk, IST Professor  
Indiana University  
[cjbonk@indiana.edu](mailto:cjbonk@indiana.edu); <http://curtbonk.com/>

1

CONTACT NORTH Online Learning  
Apprentissage en ligne

## The Best of Beethoven

<https://www.youtube.com/watch?v=W-fFHeTX70Q>



2

CONTACT NORTH Online Learning  
Apprentissage en ligne

## May 6, 2020

### IU FAMILY ENSEMBLE - HAIL TO OLD IU, Indiana University

3:18 (video): <https://www.youtube.com/watch?v=ymxyim-hf3I>




3

CONTACT NORTH Online Learning  
Apprentissage en ligne

## April 3, 2020

### Performances canceled, musicians find a way to lift every voice: From elementary school to large symphonies, Annie Aguiar, USA Today

<https://www.usatoday.com/in-depth/news/nation/2020/04/03/coronavirus-canceled-performances-but-virtual-choirs-lift-every-voice/2939847001/>  
Video (44 Seconds): <http://curtbonk.com/corona2.html>



4


CONTACT NORTH Online Learning  
Apprentissage en ligne

## March 26, 2020

### What the World Needs Now is Love

Students at the Boston Conservatory at Berklee created a social distancing rendition of 'What the World Needs Now is Love'

<https://www.youtube.com/watch?v=qv7jI5ACHCw>  
2:33 (video): <http://curtbonk.com/wtwnn.html>



5

CONTACT NORTH Online Learning  
Apprentissage en ligne

## April 14, 2020

### 900-Strong Singapore Virtual Choir sings Home (Dick Lee)

<https://www.youtube.com/watch?v=-psK61cafIE&feature=youtu.be>  
4:33 (video): <http://curtbonk.com/strong.html>



6

**Poll #1: What time is it there?**

- a. Early morning and I'm hungry!
- b. Late morning
- c. Lunch time
- d. Afternoon
- e. Early evening
- f. Late night
- g. Late late late (I should be in bed sleeping but I wanted to see Dr. Bonk)



7

**Poll #2: Have you ever been to Canada?**

- a. Yes many times.
- b. Yes, once or twice.
- c. No, but I want to go.
- d. No, I don't understand the language.
- e. No. And I am not going to go.



8

**Poll #3: Have you seen Dr. Bonk speak before?**

- a. Yes more than once.
- b. Yes once.
- c. Not sure.
- d. No, but I am here now.
- e. No, and I prefer it that way. He's rather boring.



9

**Poll #4: Have you ever taught a fully online course?**

- a. Yes, many.
- b. Yes, just a couple.
- c. No, but I taught one or more blended ones.
- a. No but I am willing to try.
- b. No and I like it that way.



Teaching Remotely While Quarantined in China



10

**How to Motivate and Retain Learners Online**

Curtis J. Bonk, IST Professor  
Indiana University

[cjbonk@indiana.edu](mailto:cjbonk@indiana.edu); <http://curtbonk.com/>



11

**June 10, 2020****Online Learning Is Not the Future**

Peter C. Herman, Inside Higher Ed

<https://www.insidehighered.com/digital-learning/views/2020/06/10/online-learning-not-future-higher-education-opinion>

**Online Learning Is Not the Future**

Technology advocates may see online teaching as the latest path forward, but one important audience voicelessly disagrees: students. Peter C. Herman writes.

By Peter C. Herman | June 10, 2020



12

## June 16, 2020 Sorry Not Sorry: Online Teaching Is Here to Stay

Flower Darby, The Chronicle of Higher Education  
<https://www.chronicle.com/article/Sorry-Not-Sorry-Online/248993>

### Sorry Not Sorry: Online Teaching Is Here to Stay

Four reasons you should join the online teaching movement and spend some time this summer polishing your digital skills

By Flower Darby | June 16, 2020



13

## March 19, 2020 COL announces a series of webinars on online learning

<https://www.col.org/news/news/col-announces-series-webinars-online-learning>



14

## June 3, 2020 Contact North | Contact Nord Webinars

<https://teachonline.ca/webinars>



15

## March 3, 2020 Keep Teaching, Indiana University

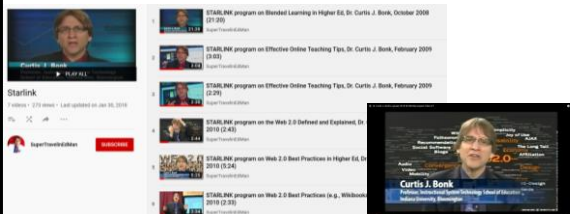
<https://keepteaching.iu.edu/strategies/index.html>



16

## April 25, 2020 (SuperTravelinEdMan) STARLINK programs on Online and Blended Learning and the Web 2.0 October 2008-January 2010

<https://www.youtube.com/playlist?list=PLHcRoW2xOrKfYXjy3y46ZvccDcwFv>



17

## Needed: New Models of Motivation and Engagement



18

**March 21, 2020**

### Silver Lining for Learning

<https://silverliningforlearning.org/>  
<https://www.youtube.com/channel/UC9XEsh89qrIpmVVpQT-aA/live>

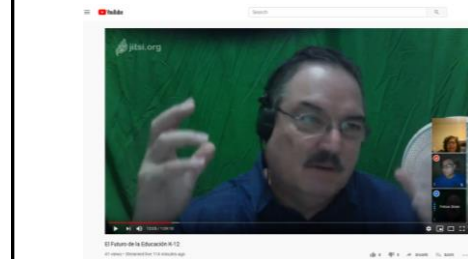


19

**May 25, 2020**

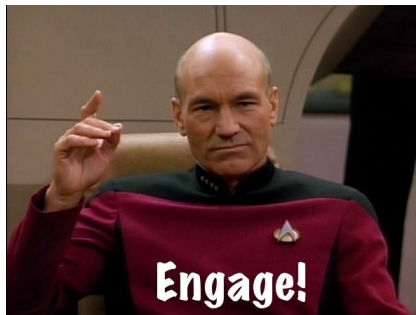
El Futuro de la Educación K-12,  
 Dr. Edgar Leon, Caribbean University, Puerto Rico

<https://youtu.be/zXyoaIgbxI8>  
<https://www.youtube.com/watch?v=zXyoaIgbxI8&feature=youtu.be>



20

### Poll: What did Jean-Luc Picard say?



21

### 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.



22

### 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.



23

### Part 1: Introducing the TEC-VARIETY Model (Motto: It’s better than the “TEC-MONOTONY” Model)

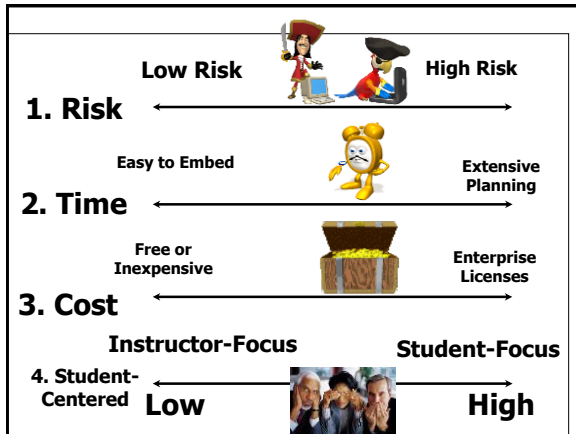
<http://tec-variety.com/>  
<http://tec-variety.com/TEC-VARIETY-Chinese.pdf>

在线学习动机与激励：  
 TEC-VARIETY 模型

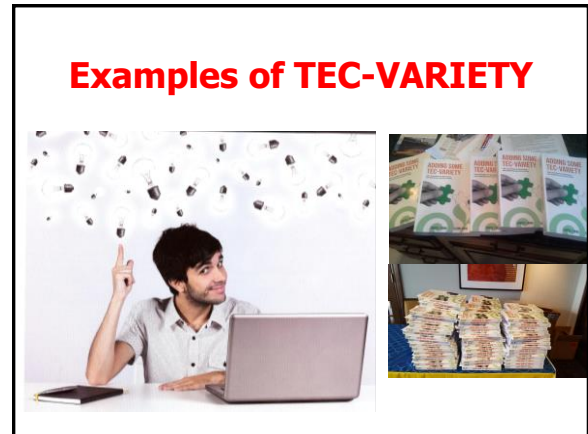


24





25



26

**April 3, 2017**  
**1. Tone/Climate:**  
**A. Sli.do** (students get a code; e.g., 9801)  
<https://www.sli.do/>

Live Q&A and polling platform for meetings and events.

27

**April 11, 2020**  
**1. Tone/Climate:**  
**B. Threaded Video Discussions and Questions**  
 (e.g., Flipgrid)  
<https://techcrunch.com/2018/06/18/microsoft-acquires-social-learning-platform-flipgrid/>

EMERGING LEARNING TECHNOLOGIES Spring 2020

28

**1. Tone/Climate:**  
**C. Instructor Course Introductions**  
 Lynne Innes (Scotland): <https://vimeo.com/356645285>

**NURSING FUNDAMENTALS INTRODUCTION VIDEO 1**

**About Clinical Practicum**  
 We believe that the power of nursing lies in the thoughtful creativity of individuals.

**Introduction to Transforming Roles and the Refocused Role of General Practice Nurses**  
 Lynne Innes, National Coordinator for General Practice Nursing

General Practice Nursing for NHS Education for Scotland.

29

**2. Encouragement, Feedback:**  
**A. Poll Everywhere, BlogPoll, MicroPoll**  
**Connect students across campuses**  
**(School of Medicine, Flinders University)**  
<https://www.poll.everywhere.com/case-studies/distributed-learning>

**Using simultaneous polls to bridge vast distances**

Select as many as apply to your current stage in the Continuity of Care Assessment task

I have selected my patient

I have provided an information sheet to the patient's GP

I have gained consent from the patient

I have seen the patient once

I have seen the patient more than once

I have conducted a home visit with the patient

Total Results: 77

30

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

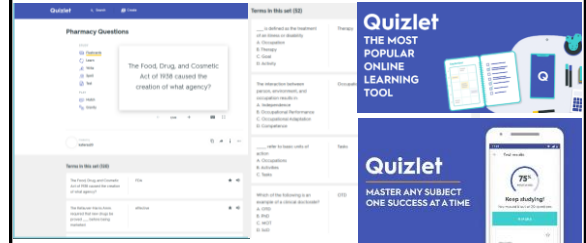
Vocaroo: <http://vocaroo.com/>



31

## 2. Encouragement, Feedback: C. Online Practice Tests and Interactive Flash Cards (e.g., Pharmacy, OT, etc.)

<http://quizlet.com/>



32

## 2. Encouragement, Feedback: D. Video Tutorials, Demonstrations, and How-To's (videos, tutorials, etc.)

(Jing, GoView, Screen, Overstream, Screencast-o-Matic; [http://tec-variety.com/TEC-Variety\\_links-examples-resources.pdf](http://tec-variety.com/TEC-Variety_links-examples-resources.pdf))



33

## June 18, 2020 3. Curiosity, Intrigue, Unknowns: A. Multimedia News

New Telco Tower Announced For Sabah Village After Student Taking  
Online Exams In Tree Goes Viral, Kirat Kaur, TRP News

<https://www.thejakpost.com/2020/06/18/new-telco-tower-announced-for-sabah-village-after-student-taking-online-exams-in-tree-goes-viral/>



Veveonah Mosibin, a foundation student at Universiti Malaysia Sabah (UMS) had to take her online exams atop a tree to get a strong enough internet connection. (Credit: [Veveonah M/YouTube](#))

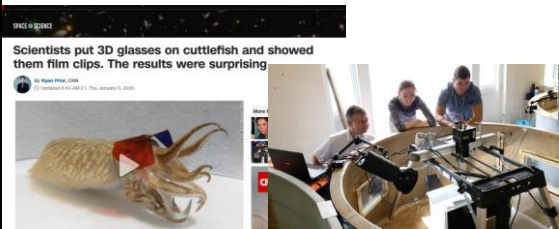
34

## January 9, 2020 3. Curiosity, Intrigue, Unknowns:

B. Scientists put 3D glasses on cuttlefish and showed them film clips. The results were surprising (Cuttlefish eyes have well-developed depth perception)

Ryan Prior, CNN

<https://www.cnn.com/2020/01/08/us/3d-glasses-cuttlefish-scn-trnd/index.html>



35

## April 29, 2020 3. Curiosity, Intrigue, Unknowns: C. 101-year-old woman born during the 1918 flu pandemic beats coronavirus

N'dea Yancey-Bragg, USA Today

<https://www.ustoday.com/story/news/2020/04/29/101-year-old-woman-beats-coronavirus-1918-flu-pandemic-beats-coronavirus-6466461002/>

<https://www.cnn.com/2020/04/28/us/woman-101-beat-coronavirus-trnd/index.html>



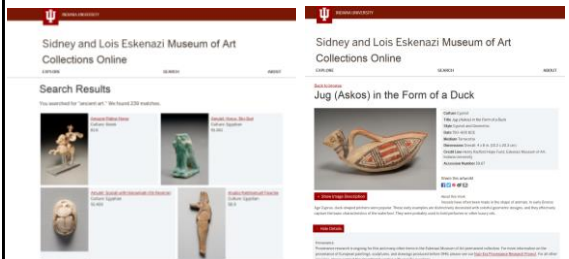
36

**March 2, 2020**

**3. Curiosity, Intrigue, Unknowns:**

**D. Newly launched Collections Online increases access to Eskenazi Museum of Art's works**  
**Barbara Brosher, IU Press**

<https://news.iu.edu/stories/2020/03/iu/eskenazi-museum-of-art-launches-collections-online.html>



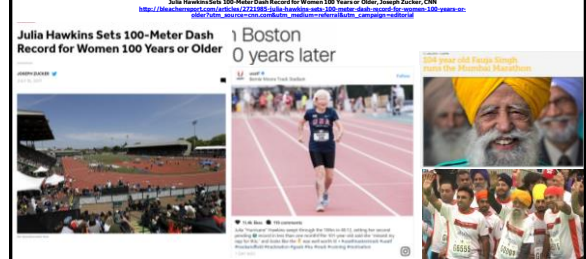
37

**April 17, 2017**

**3. Curiosity, Intrigue, Unknowns:**

**E. 1st woman to officially run Boston Marathon does it again, 50 years later**  
**Emanuella Grinberg, CNN, USA Today**

<http://www.cnn.com/2017/04/17/us/boston-marathon-kathrine-switzer-trnd/index.html>



38

**3. Curiosity, Intrigue, Unknowns:**

**F. Multimedia 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](http://www.cnn.com/2014/11/06/living/oldest-photograph-human-daguerre/index.html?hpt=hp_14_kong)



39

**June 27, 2020**

**4. Variety, Novelty, Fun, Fantasy:**

**A. Create Animated Presentations**

Animaker is a cloud-based do-it-yourself video maker. Free version provides a lot of characters, props, transitions, and background images.

Example in Turkish: <https://youtu.be/LS20lCbozBQ?t=737>



40

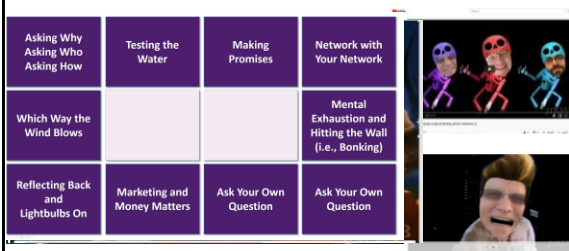
**February 27, 2020**

**4. Variety, Novelty, Fun, Fantasy:**

**B. Game Show Style Presentations**

**Susie Gronseth, University of Houston**

[https://www.youtube.com/watch?v=ZFXIVA6z\\_no&feature=youtu.be](https://www.youtube.com/watch?v=ZFXIVA6z_no&feature=youtu.be)



41

**4. Variety, Novelty, Fun, Fantasy:**

**C. Online Test/Quiz Review Games**

(e.g., Jeopardy Rocks)

<https://www.jeopardy.rocks/r511merve/>



42

#### 4. Variety, Novelty, Fun, Fantasy:

##### D. Random Lists

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

**RANDOM.ORG** **RANDOM.O**

Coin Flipper  
You flipped 2 coins of type 1000-K1:  
Timestamp: 2011-08-13 01:04:43 UTC

Dice Roller  
You rolled 2 dice:  
Timestamp: 2011-08-13 01:04:43 UTC

List Randomizer  
There were 10 items in your list. Here they are in random order:  
Timestamp: 2011-08-13 01:04:43 UTC

43

**February 21, 2017**

#### 4. Variety, Novelty, Fun, Fantasy:

##### E. My classroom is like a,

<http://wheeldecide.com/>

**MY CLASSROOM IS LIKE A**

Wheel Builder  
Browse Wheels  
Options enter up to 100 choices  
Apply Wheel Changes

44

**Fall 2018 R546**

#### 4. Variety, Novelty, Fun, Fantasy:

##### F. Kahoot!

<https://getkahoot.com/>

**Kahoot!**  
R546-Fall 2018  
What is the name of Dr. Bonk's favorite book for this class?

45

**October 10, 2018**

#### 4. Variety, Novelty, Fun, Fantasy:

##### G. FutureMe.org

Write a letter to the future

<https://www.futureme.org/>

**futureme**  
Write a letter to the future  
Your account set up is complete. Welcome to FutureMe!

46

**January 14, 2019**

#### 5. Autonomy, Choice:

##### A. Enroll in a MOOC and Reflect (e.g., see Class Central)

Beer Matters: Karl Brown, Assistant Professor of History  
Video: <http://edbank.com/beer.html> (11:11) <https://vimeo.com/286498559>  
<https://www.youtube.com/watch?v=286498559>  
<https://www.edx.org/course/nutrition-exercise-and-sports>

**edX**  
Nutrition, Exercise and Sports  
Learn about Nutrition, Exercise and Sports and understand how they can impact your health and performance.

47

**June 28, 2020**

From: edX <[news@edx.org](mailto:news@edx.org)>

Sent: Sunday, June 28, 2020 10:04 AM

To: Bonk, Curtis Jay <[cjbok@indiana.edu](mailto:cjbok@indiana.edu)>

Subject: There's a summer learning adventure for everyone (Beer Matters, June 3, 2020, Karl Brown, UW-W)

**Weekly Course Features**  
Italian Language and Culture: Beginner  
The Science of Beer  
Carnival Cultivation and Processing  
Modern Masterpieces of World Literature  
The Science of Parenting  
Explore The World  
Learn a New Language  
Take up a New Hobby  
Get Creative

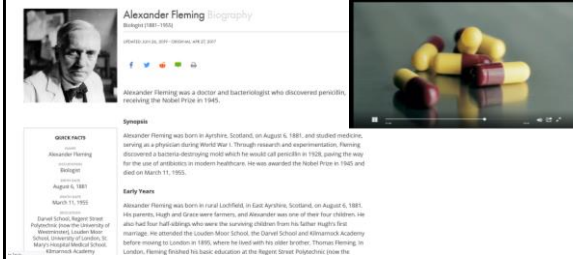
48



## 5. Autonomy, Choice:

### B. Tracking the Life of a Medical Professional (e.g., biography.com)

<https://www.biography.com/scientist/alexander-fleming>



49

## 5. Autonomy, Choice:

### C. Design Multimedia Glossaries

P540 Final Assignment: Nate Wynne, Supersized Personal Course Glossary

<http://natewynne1982.wix.com/p540course/glossary>

Ozgur Ozdemir, December 2012

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

Umida Khikmatillaeva, Dec. 2011, P540

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



50

CONTACT NORTH  
Online Learning  
Apprenticeship on line

### Poll #5: Any light bulbs going off in you head so far?

- Yes definitely...many of them...pop...pop...pop!
- Yes, several times.
- Yes maybe!
- Not yet (but hopefully soon...)
- Nope. Darn it my brain is not working today.
- There's no hope with this idiot presenting.



51

## April 6 and 28, 2020

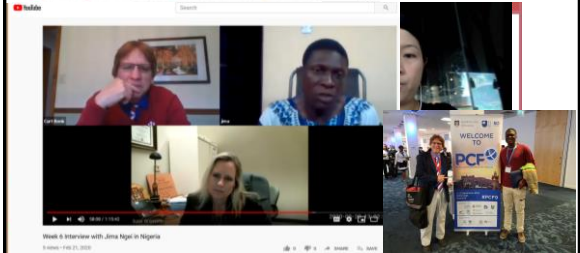
### 6. Relevance, Meaningfulness:

#### A. Weekly Guest Expert Chats

SMILE, Paul Kim Stanford, <https://youtu.be/bf7Ds1ihvLU>

February 22, 2020, Jima Ngei in Nigeria (1 hour 15 minutes)

Video: <https://youtu.be/sM6VmsfQJXc>



52

## 6. Relevance, Meaningfulness:

### B. Professional Development Videos

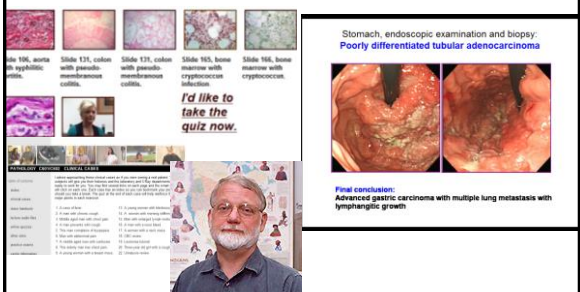
Edgar Leon, Puerto Rico, Marisol Hernández Hermina, Animaker  
<https://app.animaker.com/animo/2zh5b0Hz2gxURJ5x4/?shareid=view%7C2zh5b0Hz2gxURJ5x4>



53

## 6. Relevance, Meaningfulness:

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



54

## March 20, 2018

### 6. Relevance, Meaningfulness:

#### D. Editing Wikipedia Pages

Women's-Studies Students Across the Nation Are Editing Wikipedia  
Emma Kerr, The Chronicle of Higher Education

College students take to Wikipedia to rewrite the wrongs of Internet science



Women's-Studies Students Across the Nation Are Editing Wikipedia



Samantha Erickson, left, of the Wiki Education Foundation; Tina Brock, a dean of the School of Pharmacy at UC San Francisco; and professor Amin Azzam discuss implementing the integration of Wikipedia pages on medical topics with students' work

55

## June 27, 2020

### 7. Interactive, Collaborative:

**A. Team Management and Project Coordination**  
Trello is a team management tool and list-making application to organize online group tasks easily. Trello is for teams to organize team work. However, teachers can use it to manage online group projects or homeschooling activities like in this

Example: <https://youtu.be/L6fUOMXnKxU?t=132>



56

## April 6, 2020

### 7. Interactive, Collaborative:

#### B. Interactive Oral Assessments

Interactive Orals as an alternate authentic assessment,  
Danielle Logan, Griffith University

<https://sway.office.com/YQ2s0Bm3ILkWTgII?ref=Link>

**Interactive Oral Timeline**

Week 1  
Week 2  
Week 3

**Interactive Oral Assessment, an authentic and integral alternative to examination.**

Click on the icon on the bottom right of your screen to view the features in this Sway

**Interactive orals in practice in the GBS**

Assessment Type	Description	Class	MSL Unit
Assessment and reflection of a report	2019 semester 1 Individual Assessment (100 marks)	University Management	Communication
Assessment and reflection of a presentation	2019 semester 1 Individual Assessment (100 marks)	University Management	Communication
Assessment and reflection of a presentation	2019 semester 1 Individual Assessment (100 marks)	University Management	Communication
Assessment and reflection of a presentation	2019 semester 1 Individual Assessment (100 marks)	University Management	Communication

Below are some examples of how assessed in the Business School these incidents, talk to your local

57

### 7. Interactive, Collaborative:

#### C. 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

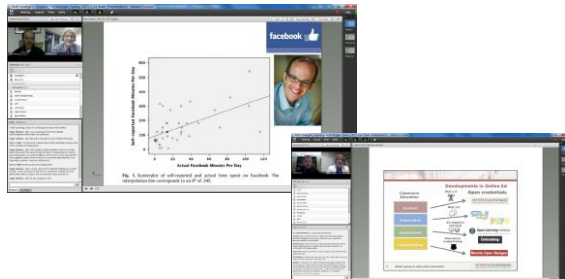


58

### 7. Interactive, Collaborative:

#### D. Guest Speaker Quotes

(Rey Junco, February 25, 2013)



59

## Fall 2019, R511

### 7. Interactive, Collaborative:

**E. Team Article Debates**  
Nuclino (like a wiki...may delete by mistake, trial version, limited)



60

## 7. Interactive, Collaborative:

## F. Virtual Mobile (at Virtually Inspired)

virtual laboratory brings the opportunity for remote collaboration enables students to conduct experiments, access, interpret, evaluate, and exchange relevant technical information.  
Susan Aldridge, Drexel: <https://virtuallyinspired.org/portfolio/online-virtual-labs/>

Susan Aldridge, Drexel: <https://virtuallyinspired.org/portfolio/online-virtual-labs/>



61

## January 2020

## 8. Engagement, Involvement:

### A. Storytelling Strategies for the Design of Branching Virtual Patient Simulations

Kira King et al., Kynectiv

[https://253f0a53-bb62-46af-b495-b4548f4d5d90.filesusr.com/ugd/c9b0ce\\_1a0143633f894eca965378d23c9b72a4.pdf](https://253f0a53-bb62-46af-b495-b4548f4d5d90.filesusr.com/ugd/c9b0ce_1a0143633f894eca965378d23c9b72a4.pdf)



62

## 8. Engagement, Involvement:

## B. Healthcare Scenarios and Simulations

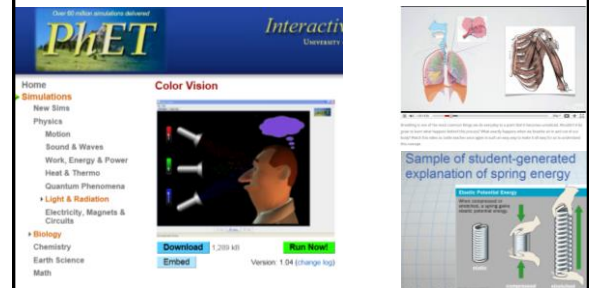


63

## 8. Engagement, Involvement:

### C. Interactive Labs and Simulations

<http://phet.colorado.edu/en/simulation/energy-skate-park>

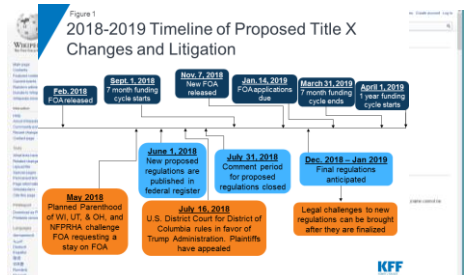


64

## 8. Engagement, Involvement:

## D. Interactive Timelines

(Sutori, xtimeline, Preceden, TimeLineCurator, etc.)



65

**July 23, 2019**

## 8. Engagement, Involvement:

### E. Explore Historical and Cultural Sites

**Sara Hardman, New Learning Times**

<https://newlearningtimes.com/cms/article/6385/explore-four-world-heritage-sites-in-vr-with>



66



**May 28, 2019**  
**8. Engagement, Involvement:**  
**F. Virtual Reality Comes to the Classroom**  
 Beth McMurtrie, The Chronicle of Higher Education  
<https://www.chronicle.com/Interactives/20190528/ImmersiveTech>



Using a special recording system, Hamilton College created a virtual-reality experience for students in a conducting class. Heather Buchman, a music professor, first recorded a performance using 3-D audio and video. (Andrew Groll)

Students later practiced conducting the virtual orchestra by wearing a special headset through which the sound of the orchestra changes as they turn their head. (Ben Salzman)

67

**May 28, 2019**  
**8. Engagement, Involvement:**  
**G. Virtual Reality Comes to the Classroom**  
 Beth McMurtrie, The Chronicle of Higher Education  
<https://www.chronicle.com/interactives/20190528/ImmersiveTech>  
 A virtual reality experience for students in a conducting class. <http://carlbank.com/vrheadset.html>  
 A group of students could gather around a virtual heart: <http://carlbank.com/vrheart.html>

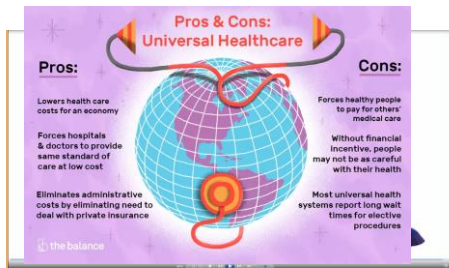


Unlike VR headsets, augmented-reality glasses allow users to see the world around them, opening up possibilities for shared learning experiences. A group of students could gather around a virtual heart as their professor takes it apart to show them the components. (Microsoft)



68

**9. Tension, Challenge, Controversy, etc.:**  
**A. Controversial Issue Debates**



69

**9. Tension, Challenge, Controversy, etc.:**

**B. Embodied VR Experiences**  
<https://embodiedlabs.com/labs> One example is pasted below.  
 Topic: End of Life Conversations

**Summary:** The learner will embody Clay Crowder, a 66-year old veteran with stage IV, incurable lung cancer.  
**Learning Outcomes:** Experience what it is like to receive "bad news" from your doctor, and discuss your options. Have conversations with your family and members of the healthcare team about transitioning to hospice care. Get assistance from the hospice care team in understanding your symptoms and conflicts that may occur within your family. See the physical changes inside your body as it nears the end of life. Experience what may happen at the end of your life.



The Story Lab  
 Learn Story, Experience & Performance & Research



**Embodied VR Experiences**

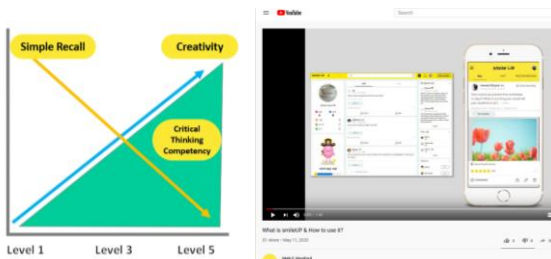
Our innovative, research-based VR experiences allow caregivers, staff, and students to embody a person with a specific condition and learn what it's like to walk in their shoes.

**Our Approach to VR Storytelling**



70

**May 11, 2020**  
**9. Tension, Challenge, Controversy, etc.:**  
**C. What is smileUP & How to use it?**  
 SMILE, Stanford  
<https://www.youtube.com/watch?v=pblU8sSALWo>



71

**June 27, 2020**  
**9. Tension, Challenge, Controversy, etc.:**  
**D. Solve Wicked Problems**  
 Designed to organize reflective consensus building on wicked problems in small teams  
 Georgia Tech, Reflect  
<https://reflect.gatech.edu/>

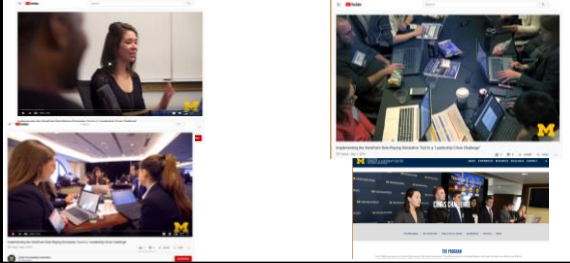
The screenshot shows the Reflect platform interface. It includes a header for Georgia Tech, a navigation bar, and a main content area titled "Wicked problems". The content area describes the platform's purpose: "Designed to organize reflective consensus building on wicked problems in small teams". It also lists "Emerging Technologies" and "Political Themes". A video player interface is shown on the right.

72



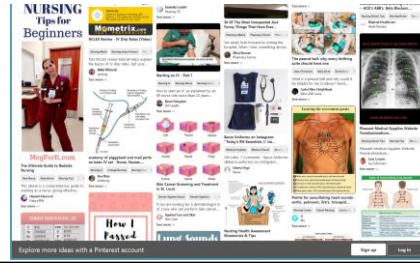
**November 1, 2019**

**9. Tension, Challenge, Controversy, etc.:**  
**E. Implementing the ViewPoint Role-Playing Simulation Tool in a "Leadership Crisis Challenge"**  
 Center for Academic Innovation, University of Michigan  
<https://news.umich.edu/students-thrown-info-real-world-scenarios-with-viewpoint-an-educational-simulation-tool/>



73

**10. Yields Products, Goals:**  
**A. Database Collection Tools**  
 Article Databases in Pinterest



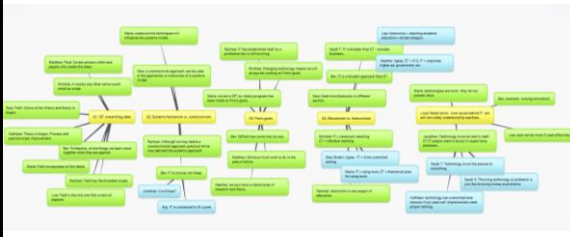
74

**September 3, 2017**

**Yields Products, Goals:**

**B. Mindmap Recaps of Online Discussions**  
**Mindmap of Week 2 of R511**

<https://bubbl.us/75a2r5u6G2849T4R64L3J2Q0Q49G0R7G2T1dW42mRDE3J2W3J2W7YfWfWfWfT32-X>



75

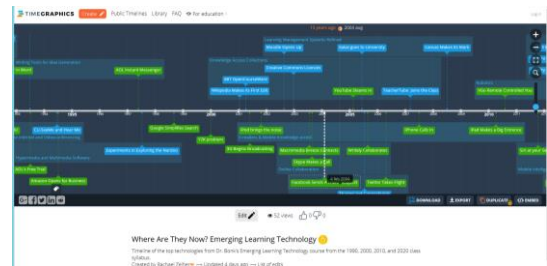
**April 23, 2020**

**10. Yields Products, Goals:**  
**C. Student Timelines**

**Where are They Now? Emerging Learning Technology**

Timeline of the top technologies from Dr. Bonk's Emerging Learning Technology course from the 1990, 2000, 2010, and 2020 class syllabus.

<https://time.graphics/line/356a1211435318430fa1741b50d7552c>

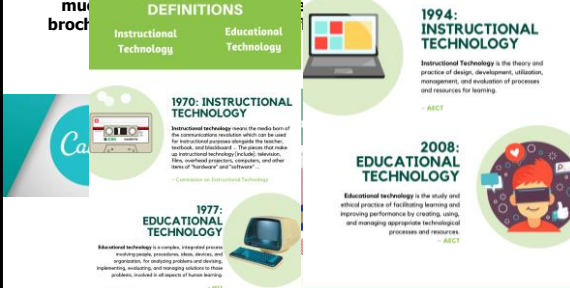


76

**June 27, 2020**

**10. Yields Products, Goals:**  
**D. Design Products (students created infographics, brochures, timelines)**

Canva is an online design program that does not require mu broch



77

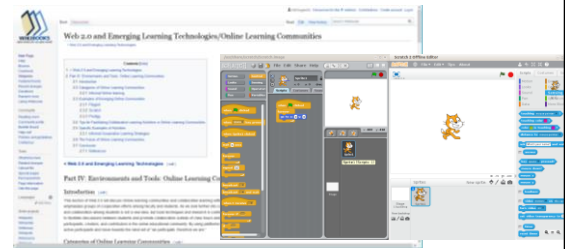
**April 29, 2020**

**10. Yields Products, Goals:**  
**E. Wikibook Chapters**

**Part IV: Environments and Tools: Online Learning Communities R678- Emerging Learning Technologies**

Amanda Zwirecki and Ashia Williams

[https://en.wikibooks.org/w/index.php?title=Web\\_2.0\\_and\\_Emerging\\_Learning\\_Technologies/Online\\_Learning\\_Communities](https://en.wikibooks.org/w/index.php?title=Web_2.0_and_Emerging_Learning_Technologies/Online_Learning_Communities)



78

## 10. Yields Products, Goals: F. Student Website Development

R511 Final Projects, **December 12, 2017**

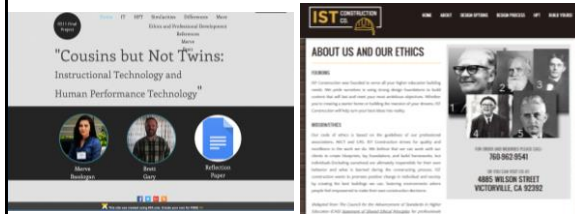
"IST Construction, Co."

Rob Elliot, Patrick Walsh, Erin Milanese, R511, **December 2016**

<http://relliott.net/istconstruction/index.php>

"Cousins but Not Twins: Instructional Technology and Human Performance Technology,"  
Merve Basdogan and Brett Gary, R511, **December 2016**

<http://educbasdogan.wixsite.com/511final>



79

## Make Commitments:

### Stop and Share in Chat Window:

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:** Challenges, Dissonance, Controversy
10. **Yielding Products:** Goal Driven, Purposeful Vision, Ownership

80

CONTACT NORTH  
Online Learning  
Apprenticeship en ligne

## Poll #7: Which motivational principle do you see as the most crucial online?

1. Tone/Climate
2. Encouragement, Feedback
3. Curiosity
4. Variety
5. Autonomy
6. Relevance
7. Interactive
8. Engagement
9. Tension
10. Yields Products

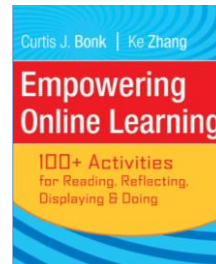


#### What motivates?

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:** Challenges, Dissonance, Controversy
10. **Yielding Products:** Goal Driven, Purposeful Vision, Ownership

81

## Part II: The R2D2 Model: Read, Reflect, Display, Do...



82

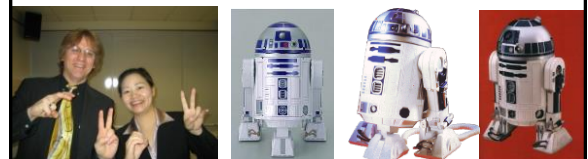
## Question: How can technology address diverse learner needs?



83

## The R2D2 Model

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



84

## 1. Auditory or Verbal Learners

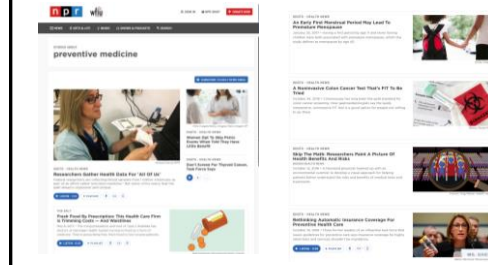
- Auditory and verbal learners prefer words, spoken or written explanations.



85

## January 20, 2016 Read 1a. Listen to Podcasts

(e.g., preventive medicine podcast, NPR:  
<https://www.npr.org/tags/206695374/preventive-medicine>)

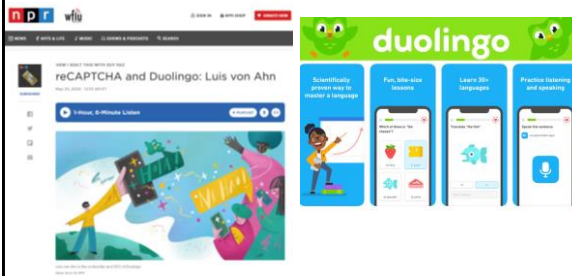


86

May 25, 2020

## Read 1b. Listen to News Podcasts (news tidbits) reCAPTCHA and Duolingo: Luis von Ahn Podcast Interview, Guy Raz, NPR

<https://www.npr.org/2020/05/22/860884062/recaptcha-and-duolingo-luis-von-ahn>



87

April 1, 2020

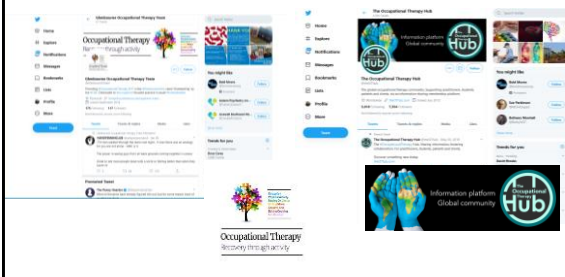
## Read 1c. Read Blogs

Punya Mishra, Silver Lining for Learning  
<https://silverliningforlearning.org/the-value-of-school-part-1/>



88

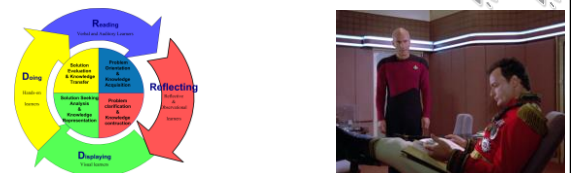
## Read 1d. Twitter Fed Class Discussions (e.g., OT: <https://twitter.com/glenbourneteam>)



89

## 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



90

**February 24, 2019**  
**Reflect 2a. Big Issue Reflections**  
**Can Students Handle the Big Questions?**  
 Beth McMurtrie, The Chronicle of Higher Education  
<https://www.chronicle.com/article/Can-Students-Handle-the-Big/245753>  
<https://godandgoodlife.nd.edu/syllabus/>  
[https://www.youtube.com/watch?time\\_continue=104&v=EMKbtSC3-2I](https://www.youtube.com/watch?time_continue=104&v=EMKbtSC3-2I)



91

**April 13, 2016**  
**Reflect 2b. Interpreting Interactive**  
**Graphs and Infographics**

How much rainforest in that chocolate bar?  
 Tech billionaire announces \$250 million in cancer immunotherapy funding, Jayne O'Donnell, USA Today  
<http://www.usatoday.com/story/news/2016/04/13/billionaire-announces-250-million-cancer-immunotherapy-funding/8281119/>

Land-Use Change Emissions in Miles Driven



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

WORLD RESOURCES INSTITUTE



92

**July 5, 2018**  
**Reflect 2c. Vialogues**  
 EdLab Seminar--Engaging Educators with Digital Collections  
 Vialogue, Sara Hartman, New Learning Times  
<https://newlearningtimes.com/cms/article/5426/how-academic-publishing-is-changing-in-the>



93

**2019**  
**Reflect 2d. Student Life Advice Cases**  
 British Medical Association (BMA)  
<https://www.bma.org.uk/features/masteringmedicalschoo/>



Listen to real-life advice from fellow students, read our top tips on budgeting, and find out how we can help you to make the most of your time at medical school.

94

**3. Visual Learners**

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



95

**March 2020**  
**Display 3a. Visual Depictions of Science**  
**Migrations in Motion**

<http://maps.tnc.org/migrations-in-motion/#4/19.00/-78.00>



96





103

104

105

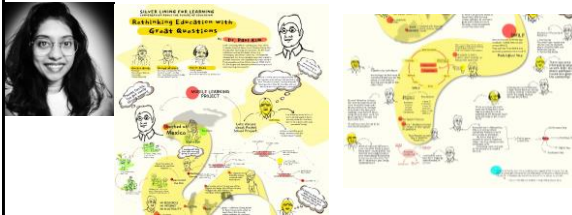
106

107

108

**May 17, 2020**  
**Display 3i.**

**Sketch Talks and Presentations**  
Silver Lining for Learning, Session with Paul Kim  
Meenu M Pillai, Freelance Designer at Multiple Corporations  
Mumbai, Maharashtra, India



109

**March 16, 2020**  
**Display 3j. Video Teasers**  
G3 of Writing and Publishing Tips  
<https://youtu.be/4BGJRd5Aaoo>



110

**January 20, 2017**  
**Display 3k. VR Takes You on a Tour of The Human Body**  
[https://www.youtube.com/watch?v=LBWajf\\_UjM](https://www.youtube.com/watch?v=LBWajf_UjM)



111

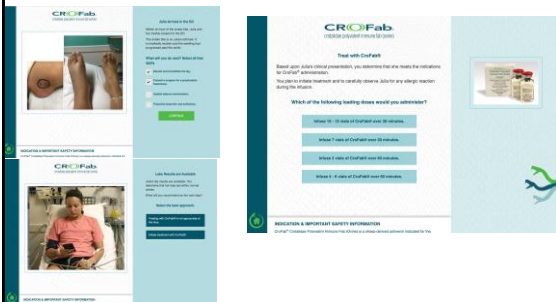
## 4. Tactile/Kinesthetic Learners

- 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.



112

**Do 4a. Case Decision Making**  
(e.g., snake bite)



113

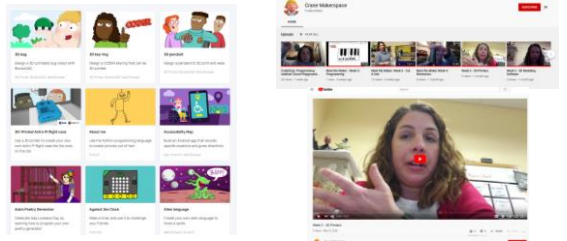
**Do 4b. Sample Student Work**  
e.g., Interactive Archive/Gallery of best work  
(e.g., physical therapy, SDSU)



114

**April 23, 2020**  
**Do 4c. Demonstration Videos**  
**Crane Makerspace, Tina Closser**

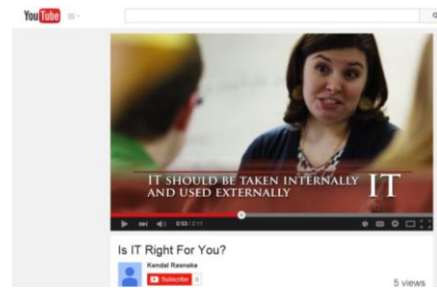
[https://www.youtube.com/channel/UCbeWf49g7pZ0JMB19TBt5w?view\\_as=subscriber](https://www.youtube.com/channel/UCbeWf49g7pZ0JMB19TBt5w?view_as=subscriber)  
<https://sites.google.com/view/cranetech/home>  
<https://projects.raspberrypi.org/en/projects>



115

**Do 4d. Student Created Recap Videos**

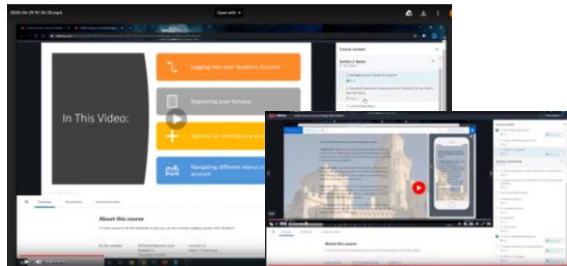
Piercarlo Abate: <https://www.youtube.com/watch?v=-TURzH00aU>  
 Qi Li, Gangnam: <https://www.youtube.com/watch?v=7Q429qZaU8feature=youtu.be>  
 Miguel Lara (Web 2.0 FREEDOM): <https://www.youtube.com/watch?v=8ScnCFW03W8>  
 Kendal Rasnake (Is IT Right For You?): <https://www.youtube.com/watch?v=M33GU0ICL6w>  
 Kimberly Vincent-Layton: [https://www.youtube.com/watch?v=4iC3J\\_rT128&feature=youtu.be](https://www.youtube.com/watch?v=4iC3J_rT128&feature=youtu.be)



116

**April 29, 2020**  
**Do 4e. Design a MOOC**  
**Qualtrics, Tanner Phillips, Udemy**

<https://drive.google.com/file/d/1fkiTPubDYIK91V-8R3odkxFyTHiqQnc0/view>



117

**Poll 7: 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.



118

**June 10, 2020**  
**Learning in 2050**

**Edward J. Mahoney and Joshua Kim, Inside Higher Ed**  
<https://www.insidehighered.com/digital-learning/blogs/learning-innovation/learning-2050>



Per Kim and Mahoney: "Where might we be in 2050? As we said, a lot can happen. We might see changes in how we use technology, and how students use technology engage in both curricular and co-curricular activities."

119

**Poll 8: Which pedagogical model or framework do you prefer?**

- a. TEC-VARIETY
- b. R2D2
- c. Neither
- d. Both
- e. I will try to create some unique combo of the two.



120



### Poll #9: Are you excited to try anything out that you heard today?

- a. Yes definitely...many of them...
- b. Yes, several of them.
- c. Yes maybe one!
- d. Not yet (but hopefully soon...)
- e. Nope. My brain is simply not working today.
- f. No...I am having Internet connection issues.



121

### Poll #10: Does all this stuff that you heard give you a headache?

- a. Yes, but I am still excited to try things out.
- b. Yes, and I need some medicine and a break.
- c. Not sure.
- d. No, let's go all day.
- e. No, let's go another hour.
- f. No, it was just right.



122

### Poll 11: Would you attend a Part 2 follow-up session?

- a. Definitely, Definitely, Definitely...
- b. Probably, Probably, Probably,
- c. Maybe, Maybe, Maybe
- d. You got to be kidding...NO!



123

### The World is Open for you now...!



124

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



125

### Any Questions or Comments?

Slides at: [TrainingShare.com](http://TrainingShare.com)

Papers: [PublicationShare.com](http://PublicationShare.com)

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

Curtis J. Bonk, IST Professor  
Indiana University

[cjbonk@indiana.edu](mailto:cjbonk@indiana.edu); <http://curtbonk.com/>



126