

### Masterclass Part 3: Where are you R2D2?: Addressing Diverse Online Learner Needs

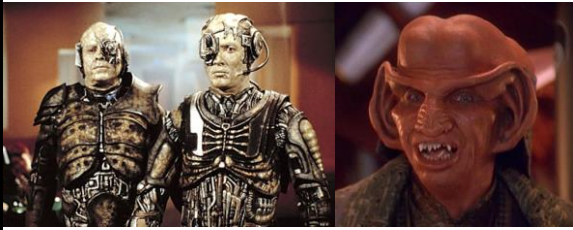
Curt Bonk, Professor, Indiana University  
cjbok@indiana.edu  
<http://mypage.iu.edu/~cjbok>



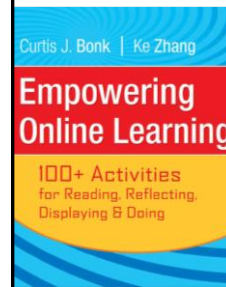
### Addressing Learning Styles with R2D2



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

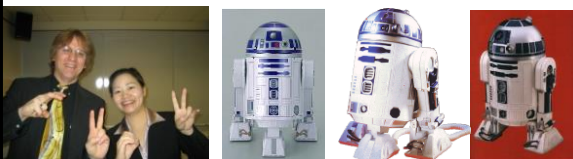


### Model #2: The R2D2 Model: Read, Reflect, Display, Do...



### 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.



**January 20, 2016**

**Read 1a. Podcasts**

**IU Bloomington podcast series to launch Jan. 24, Steve Hinnefeld, IU Newsroom**

[http://inside.indiana.edu/headlines/2016-01-20-new-campus-podcast.html?utm\\_source=2016-01-20&utm\\_medium=newletter&utm\\_content=Something-in-the-air&utm\\_campaign=2016-inside-sub-distribution](http://inside.indiana.edu/headlines/2016-01-20-new-campus-podcast.html?utm_source=2016-01-20&utm_medium=newletter&utm_content=Something-in-the-air&utm_campaign=2016-inside-sub-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

**Read 1b. Collect Oral Histories**

e.g., Joan Kang Shin, George Mason University, has her students write "This I believe" Statements.  
(EFL teachers around the world interview elders in their community for a rich database of oral histories and documentaries for social change)

Oral History Society: <http://www.ohs.org.uk/>



**Read 1c.**

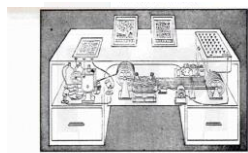
**Exploring Various Resources to Track the Life of a Prominent People**  
(e.g., Vannevar Bush in Atlantic Monthly, Wikipedia, Time, etc.)

[http://en.wikipedia.org/wiki/Vannevar\\_Bush](http://en.wikipedia.org/wiki/Vannevar_Bush)

JULY 1945

**As We May Think**

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



**May 28, 2015**

**Read 1d. Immediate Science and Open Access Science**  
Ancient jawbones put new species on the human family tree,

researchers say, Laura Smith-Spark, CNN

<http://www.cnn.com/2015/05/28/africa/ethiopia-fossil-hominin-ancestor/index.html>  
<http://www.cnn.com/2015/05/28/africa/ethiopia-fossil-hominin-ancestor/index.html>  
<http://www.nature.com/nature/journal/v521/n7553/full/nature14448.html>



**Read 1e.**

**Reading Life Histories**  
(OER, bio.com; Mozart:  
<http://www.mozartproject.org/>)  
<http://www.biography.com/people/bob-marley-9399524>



**January 28, 2015**

**Read 1f. 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>

January 28, 2015 by Adeline Koh  
Live-Tweeting Assignments: To Use or Not to Use?



We've written a great deal on using Twitter in the classroom. But we have no classroom buildings, books or how-to manuals on Twitter. So we've written a series of posts on using Twitter in the classroom. We've written a great deal on using Twitter in the classroom. But we have no classroom buildings, books or how-to manuals on Twitter. So we've written a series of posts on using Twitter in the classroom.



## Read 1g. Grammar Checkers (e.g., Grammarly, Ginger, GrammarCheck, PaperRater, and SpellCheckPlus) <http://www.grammarly.com/>

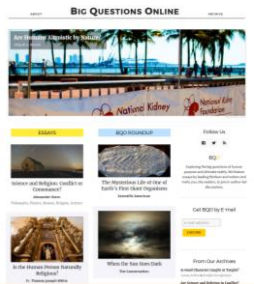


## 2. Reflective and Observational Learners

- 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., [Can a Living Creature Be as Big as a Galaxy?](http://www.bigquestionsonline.com/))



## April 15, 2017 Reflect 2b. "What if" Questions?

Emma Morano, Last Known Person Born During The 1800s, Dies, Hilary Hanson, Huffington Post

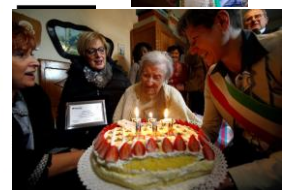
[http://www.huffingtonpost.com/entry/emma-morano-dies-born-1800s\\_us\\_58f25f1de460b9638e55d57?ncid=mbinukushmp00000009](http://www.huffingtonpost.com/entry/emma-morano-dies-born-1800s_us_58f25f1de460b9638e55d57?ncid=mbinukushmp00000009)  
[http://www.huffingtonpost.com/entry/oldest-woman-emma-morano\\_us\\_58f25f1de460b9638e55d57?ncid=mbinukushmp00000009](http://www.huffingtonpost.com/entry/oldest-woman-emma-morano_us_58f25f1de460b9638e55d57?ncid=mbinukushmp00000009)

Emma Morano, Last Known Person Born During The 1800s, Dies

She celebrated her long life by staying single.



The last person known to have been born during the 1800s has died.



## October 6, 2016 Reflect 2c. What-if Reflections What if Aaron Burr had missed Alexander Hamilton?, Thomas Fleming, CNN <http://www.cnn.com/2016/10/06/politics/alexander-hamilton-aaron-burr-dual-missed/index.html>

What if Aaron Burr had missed Alexander Hamilton?

By Thomas Fleming for CNN

Op-Ed Columnist

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





**September 21, 2016**  
**Reflect 2f. Discussion Starter News Stories**

(e.g., Aboriginal Australians are Earth's oldest civilization: DNA study, [Emiko Jozuka](#), CNN)

<http://edition.cnn.com/2016/09/22/asia/indigenous-australians-earths-oldest-civilization/index.html>



**Elder Thomas Wales, of the Thanakwith Pine River People, is one of the co-authors of the study.**

## Reflect 2g. Weekly Synchronous Guest Chats

(e.g., Emily Hixon, January 20, 2015)  
<https://connect.iu.edu/p259wpiabg9>



**January 12, 2017**  
**Reflect 2h. Sharing Future Forecasts and Projections**

**Meet the giants of tomorrow: The tallest buildings rising in 2017, Ian Spula, CNN**

<http://www.cnn.com/2017/01/11/architecture/tallest-buildings-top-out-2017/>

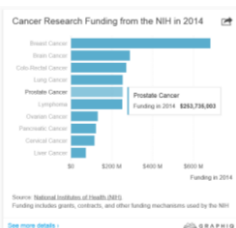
Meet the giants of tomorrow: The tallest buildings rising in 2017



**April 13, 2016**  
**Reflect 2i. Interpreting Interactive Graphs**

**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/82821198>

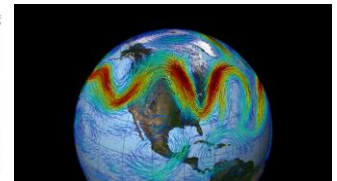
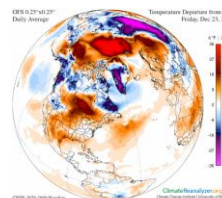


Dr. Jedd D. Wolchok , Chief, Melanoma and Immunotherapeutics Service at Memorial Sloan Kettering Cancer Center in Photo by John OBoyle, Freelance ORG XMIT: JO 134700 seanparker 4/7/2016 [Via MerlinFTP Drop]

**December 23, 2016**  
**Display 3j. Global Data Visualizations**

**The Arctic is showing stunning winter warmth, and these scientists think they know why, Charles Mooney, Washington Post**

<https://www.washingtonpost.com/news/energy-environment/wp/2016/12/23/the-arctic-is-behaving-so-bizarrely-and-these-scientists-think-they-know-why/?hpid=hp%2Fclimate%2Fstory%3Fhpid=hp%2Fclimate%2Fstory>



Visualization of a very wavy northern hemisphere jet stream.  
Credit: NASA

## Reflect 2k. Online Database Queries (e.g., WolframAlpha) <http://www.wolframalpha.com/>



WolframAlpha computational knowledge engine

Enter what you want to calculate or know about

Type in your text

Ask about examples

16 Examples 1st Random

Access the WolframAlpha computational knowledge engine

Answer questions, do math, instantly get facts, create plots, calculate, and communicate. Scientists, data and statistics, help with homework—and much more.

How to WolframAlpha? TAKE THE TOUR >

A Quick Introduction to WolframAlpha by Stephen Wolfram




## Reflect 2L. Dual Coding Content (Dual Coding Theory: Text + Video)

Text: [http://en.wikipedia.org/wiki/Ray\\_Dolby](http://en.wikipedia.org/wiki/Ray_Dolby)  
Video (September 20, 2000): <http://www.gigwise.com/news/84155/audio-pioneer->



WIKIPEDIA the free encyclopedia

Ray Dolby

From Wikipedia, the free encyclopedia

Ray Milton Dolby (190, January 18, 1919 – September 13, 2013) was an American engineer and inventor of the noise reduction system known as Dolby B55. He helped develop the other tape noise-reduction systems and was the founder of Dolby.

World's first company to utilize Dolby noise-reduction technology

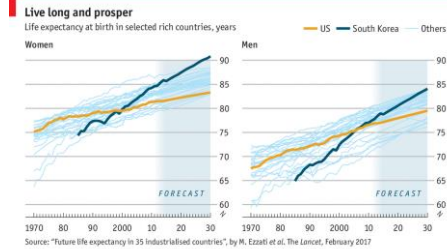
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**February 23, 2017**

**Display 3j. Global Comparison Graphs**  
(Longevity in rich countries, The Economist; A new study suggests South Koreans will have the world's highest life expectancy by 2030, The Economist)

<http://www.economist.com/blogs/brunel/2017/02/health-chart-491643-us-south-korea>



**March 2, 2016**

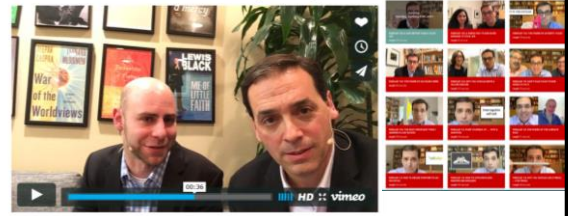
**Display 3k. Weekly 1 minute Video Updates**

(e.g., Pinkcasts from Daniel Pink )

<http://www.danpink.com/pinkcast/>

Pinkcast 2.

Advice from Adam Grant: Look for "disagreeable givers"



**October 31, 2014**

**Display 3L. Live Science**

Penguin Science (Penguin Cam) Jean Pennycook

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

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



**December 15, 2016**

**Display 3m. Interactive Media Timelines**

The Digital Era: How 50 years of the information age transformed college forever, Ben Myers & Erica Lusk, *The Chronicle of Higher Education*

<http://www.chronicle.com/interactives/50-years-of-technology>



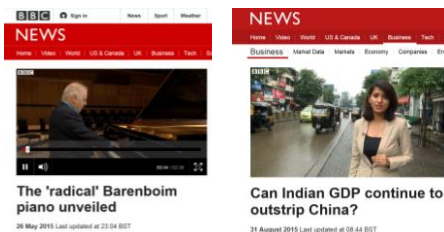
**Display 3n.**

**Short Educational Videos:**

CNN, BBC, TED, TED-Ed, ForATV

BBC One-Minute World News (August 31, 2015)

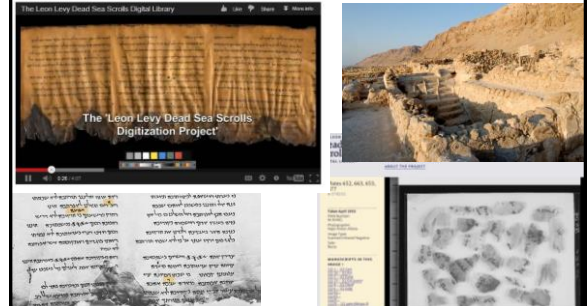
<http://www.bbc.com/news/business-34105708>



**Display 3o. Unique OER**  
(e.g., Dead Sea Scrolls)

<http://www.deadseascrolls.org.il/explore-the-archive>

<http://www.deadseascrolls.org.il/explore-the-archive/search?qs=ancient%20texts>





## Display 3v. Virtual Microscopes



## October 6, 2016 Display 3w. Explanatory Videos Why Governments Should Invest in Innovation, Bill Gates, YouTube (1:19)



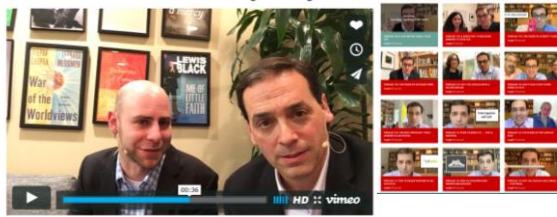
## March 2, 2016 Display 3x. Weekly 1 minute Video Updates

(e.g., Pinkcasts from Daniel Pink)

<http://www.danpink.com/pinkcast/>

Pinkcast 2.

Advice from Adam Grant: Look for "disagreeable givers"

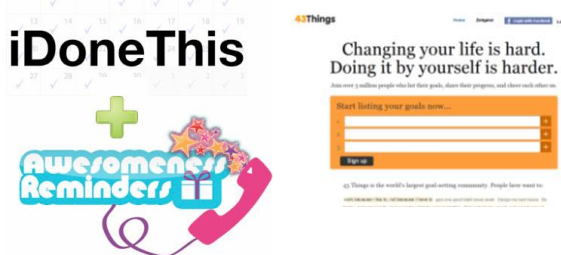


## 4. Tactile/Kinesthetic Learners

- 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. Goal Setting Tools (e.g., I Done This, Milestone Planner, and 43 Things)



## October 26, 2016 Do 4b. Student Research Recap Video R511, Rob Elliot, Erin Milanese, and Patrick Walsh Traditional Textbook (8:11)



## Do 4c. Student Website Development

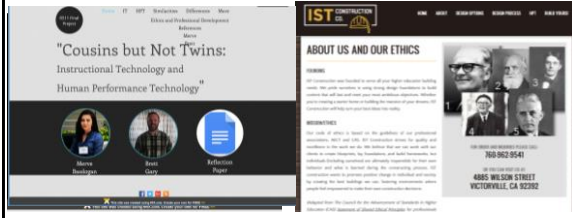
R511 Final Projects, April 2016

IT and HPT Comparison (Website), Doug Hsu  
<http://dougandindra.wix.com/511finalproject>

"IST Construction, Co."

Rob Elliot, Patrick Walsh, Erin Milanese, R511, December 2016  
<http://reliott.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>



October 26, 2016

## Do 4d. Student Created Marketing and Explanatory Videos

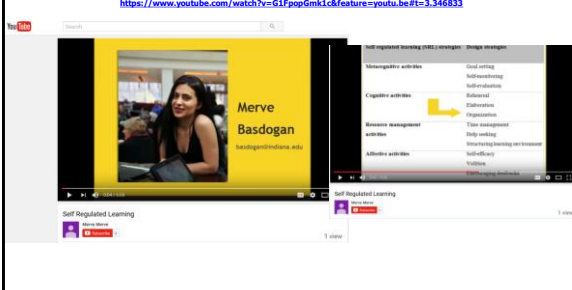
R511, Kai Westerfield, Jennifer Blankenship, And Colbi Lehman,  
 Online Degree Programs, (11:54) Go Animate



October 26, 2016

## Do 4e. Student Exploration Video

R511, Merve Basdogan, Self-Regulated Learning (6:08)  
<https://www.youtube.com/watch?v=G1FpopGmk1c&feature=youtu.be#t=3.346833>



## Do 4f. Goal Setting Tools

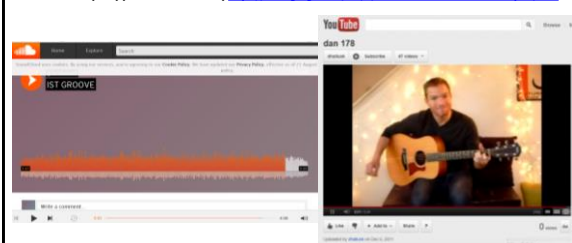
(e.g., I Done This, Milestone Planner, and 43 Things)



## Do 4g. Student Music Recordings of Course Content

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=2RGV0Ma5vmw&feature=youtu.be>  
 Daniel Halluska, P540: <https://www.youtube.com/watch?v=tOL7iGsqnvw>

Weigang (William) Yang: IST History (1:40):  
<https://drive.google.com/file/d/0B9YDNkNT1a4DdNSVxdDc0M1S0/view>  
 IST Paradise (2:52) (It all started with IST) <https://drive.google.com/file/d/0B9YDNkNT1a4DdNSVxdDc0M1S0/view>



October 26, 2016

## Do 4h. Student Debate Animations

Debate: How The Evolution of Healthcare Education as it  
 Applied to Imaging Sciences: MRI—The Past, Present,  
 and Future, R511, Latrice Booker, Sarah McDonough,  
 (10:24) Go Animate



## Do 4i. Interactive Archive/Gallery of Student Work

e.g., Exemplary First-Year Writing Projects  
(Fresh Writing, University of Notre Dame, September 24, 2014;  
<https://freshwriting.nd.edu/>)



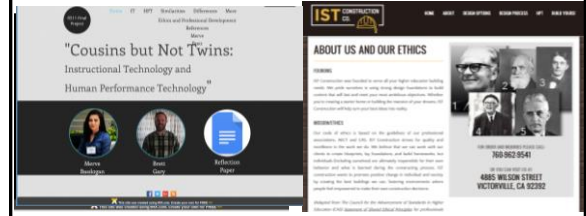
## Do 4j. Student Website Development R511 Final Projects, April 2016

IT and HPT Comparison (Website), Doug Hsu  
<http://dougandindira.wix.com/r511finalproject>

"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>



## Poll #1: Which do you prefer... (A) TEC-VARIETY or (B) R2D2?



### What motivates?

1. Time/Climates: Psychological Safety, Comfort, Sense of Belonging
2. Encouragement: Feedback, Responsiveness, Praise, Supports
3. Curiosity: Surprise, Inquire, Uncertainty
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



## Poll #2: 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 #3: Three Words from this Session...?

e.g., "I am happy!" and...  
My minions are happy!



## Any Questions or Comments?

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

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

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

Dr. Curt Bonk – [CJBonk@Indiana.edu](mailto:CJBonk@Indiana.edu)

