

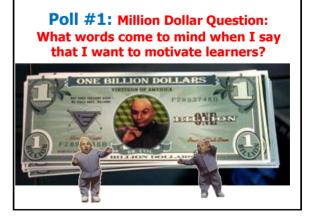




### What did Jean-Luc Picard say?



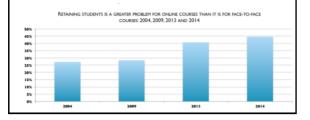




### February 5, 2015

2014 Survey of Online Learning

Grade Level: Tracking Online Education in the United States, 2014, Online Learning Consortium (formerly the Sloan Consortium), by I. Elaine Allen and Jeff Seaman http://www.onlinelearningsurvey.com/reports/gradelevel.pdf



### **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

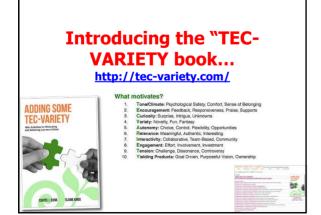
(i.e., it emerges from needs, inner strivings, and personal curiosity for growth)

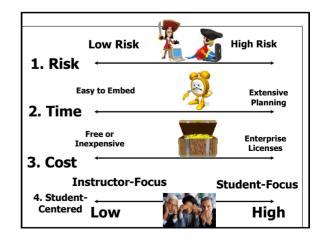
> See: Deci, E. L., & Ryan, R. M. (1985). Intrinsic motivation and self-determination in human behavior. NY: Plenum Press.

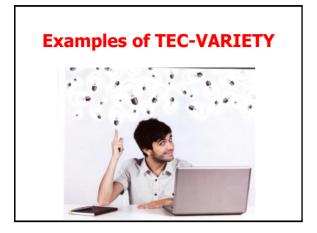


### Framework: TEC-VARIETY for **Online Motivation and Retention**

- 1. Tone/Climate: Psych Safety, Comfort, Belonging
- Encouragement, Feedback: Responsive, Supports 2.
- 3. Curiosity: Fun, Fantasy, Control
- 4. Variety: Novelty, Intrigue, Unknowns
- 5. Autonomy: Choice: Flexibility, Opportunities
- 6. Relevance: Meaningful, Authentic, Interesting
- Interactive: Collaborative, Team-Based, 7. Community
- 8. Engagement: Effort, Involvement, Excitement
- 9. Tension: Challenge, Dissonance, Controversy
- 10. Yields Products: Goal Driven, Products, Success, Ownership

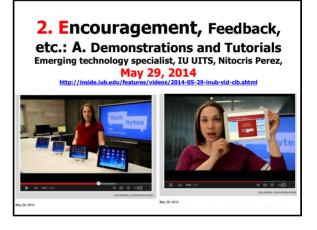




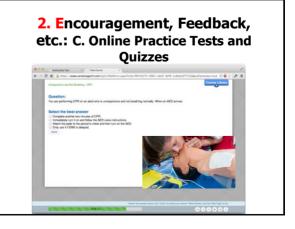






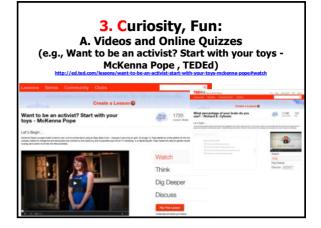




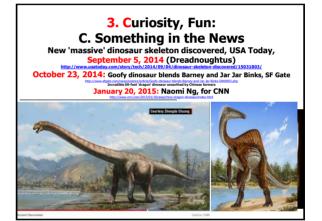


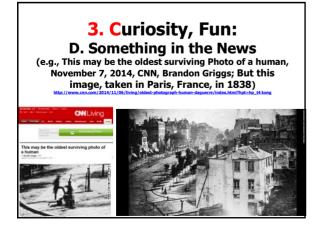
2. Encouragement, Feedback, etc.: D. Blog and Website Polling (e.g., Poll Everywhere, BlogPolls, BlogPoll, MicroPoll) http://www.polleverywhere.com/

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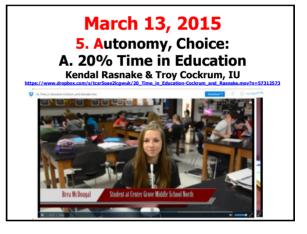




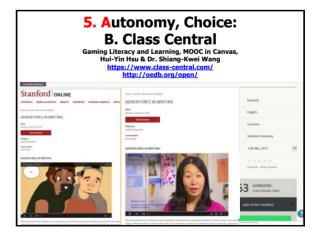




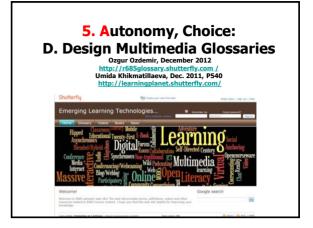


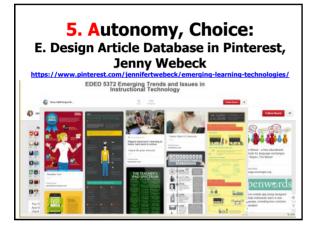






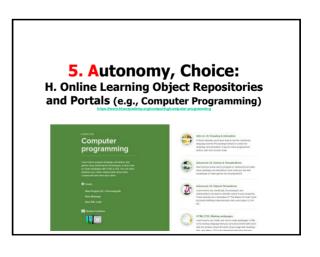






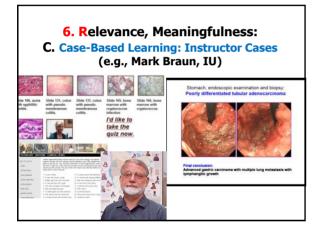


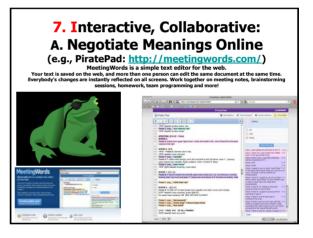


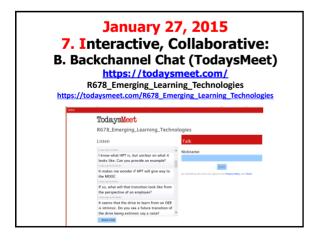








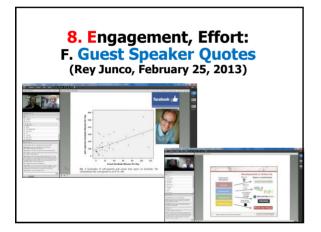






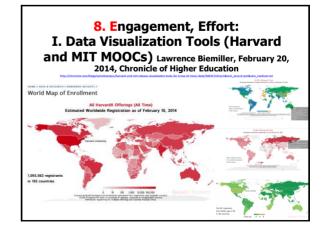
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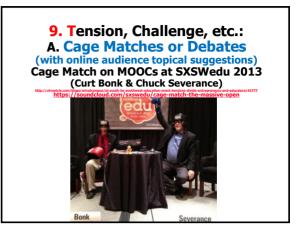


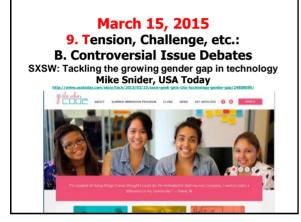
8. Engagement, Effort: J. Interactive Multimedia E-Books June 10, 2014, Chronicle of HE, 300 images, more than 700 notes and explanations, multimedia annotations, video commentary, and two dozen videos.

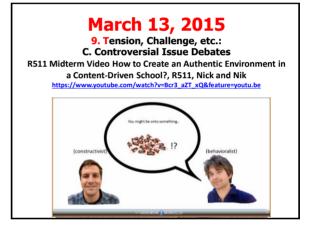
Digital Dubliners: <u>http://digitaldubliners.com/</u> James Joyce: <u>http://joyceways.com/</u>



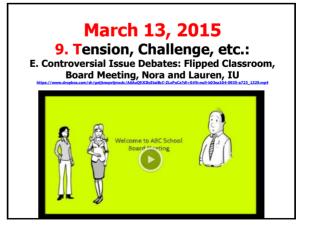




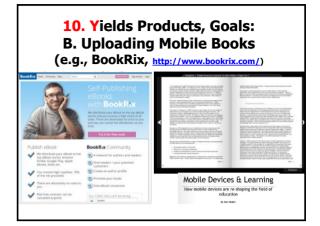




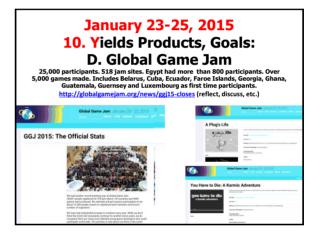






















l just Love It when they "make it so!"

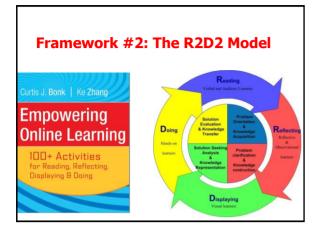
## Engagement Tension Yields Products

## Addressing Learning Styles



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





### 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: <u>http://www.meograph.com/</u>)





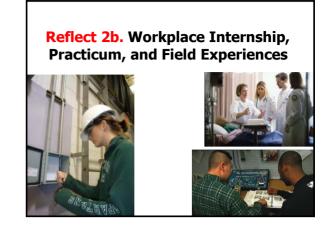
### 2. Reflective and Observational Learners

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





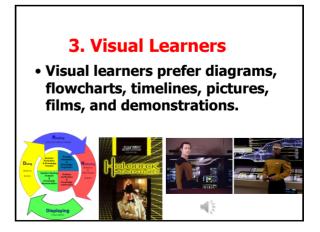


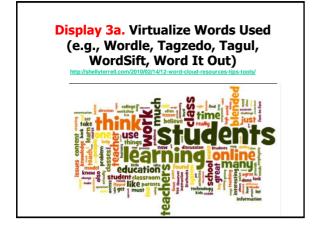


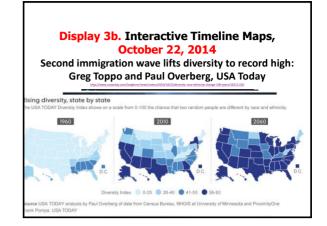


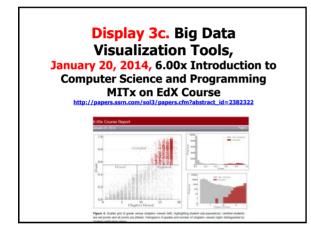


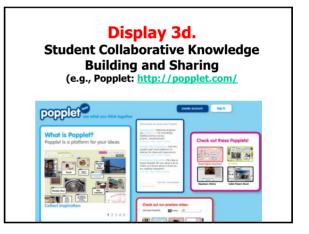


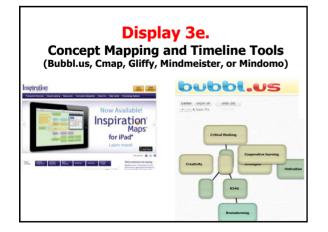










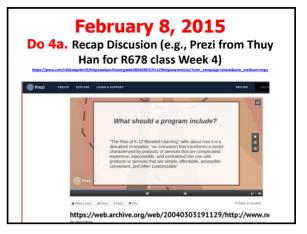




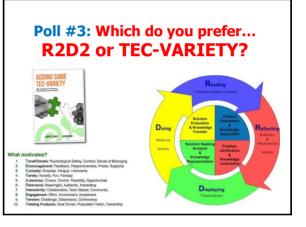
### 4. Tactile/Kinesthetic Learners

• 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.









### Poll #4: 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.



