

Where Are You R2D2?:

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

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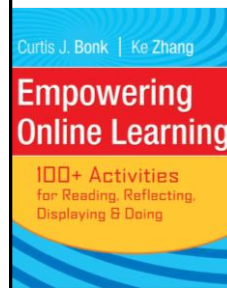
Addressing Learning Styles



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



Framework #2: The R2D2 Model



- ## The R2D2 Method

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- [illegible]



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

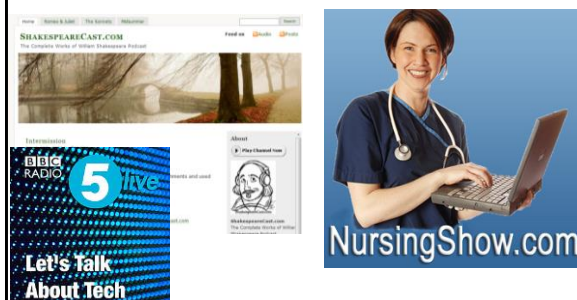


Read 1f. Facebook Course Pages (100 ways to use Facebook in education; e.g., homework help, polling students, highlight vocabulary, archive discussions) <http://www.teachthought.com/technology/100-ways-to-use-facebook-in-education-by-category/>

- Ask for information:** Instead of trusting Wikipedia, ask the crowd on Facebook. One kindergarten teacher asked parents to research seeds and got great information about the largest seed in the world according to the Guinness Book of World Records.
- Attend remote lectures:** Using Facebook, you can tune into remote lectures and presentations from around the world.
- Museums and more:** Help your students follow along with local and international museums, art galleries, exhibits, and more for enriched learning on Facebook.
- Firsthand research:** Students can connect with family members for genealogy assignments, discuss issues with local celebrities and more through Facebook.
- Follow politicians:** If your class is studying the current election, use Facebook to follow politicians on the local, state, and national scale. You can even ask students to interact with the candidates, posing questions and getting feedback.
- Learning games:** Plenty of games are on Facebook, and many of them are educational. Facebook crosswords, math games, and more as a reward in your classroom.
- Public polling:** Students can research and poll friends and family on Facebook.
- Applications:** Flashcards, Courses, and more offer easy ways to use Facebook in the classroom.



Read 1g. Listen to Open Access Audio Files and Podcast Shows



2. Reflective and Observational Learners

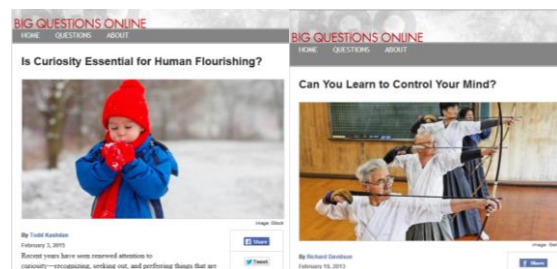
- Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives



Reflect 2a. Internship and Practicum Experiences



Reflect 2b. Big Issue Reflections (Big Questions Online (BQO)), Feb 3, 2015 (e.g., Is curiosity essential for human flourishing?) <https://www.bigquestionsonline.com/content/do-we-have-souls>



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

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- Three light bulbs are shown side-by-side. The first bulb on the left is white with five screw bases, resembling a multi-socket outlet, set against a green background. The middle bulb is a standard incandescent bulb with a globe design on its glass, set against a blue background with white birds. The third bulb on the right is a standard incandescent bulb with brown hair growing out of the top, set against a purple background.

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



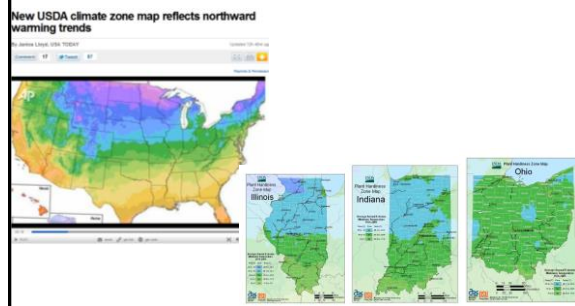
<http://shellyterrell.com/2010/02/14/12-word-cloud-resources-tips-tools/>



(e.g., New USDA climate zone map reflects northward warming trends,
By Janice Lloyd, USA TODAY, January 26, 2012)

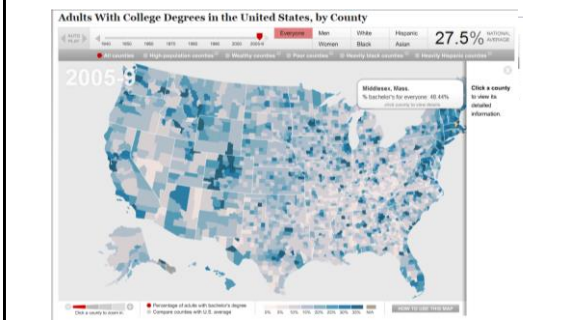
<http://www.usatoday.com/news/nation/environment/story/2012-01-26/USDA-climate-zone-map/52787142/1>

<http://www.usatoday.com/news/nation/environment/story/2012-01-26/USDA-climate-zone-map/52787142/1>

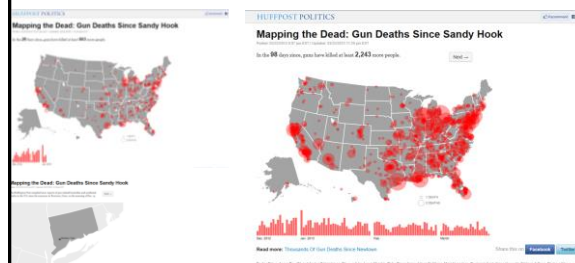


http://todayscampus.com/article/Keith_Hampson_interviews_Josh_Keller_on_interactive_graphics_for_higher_education

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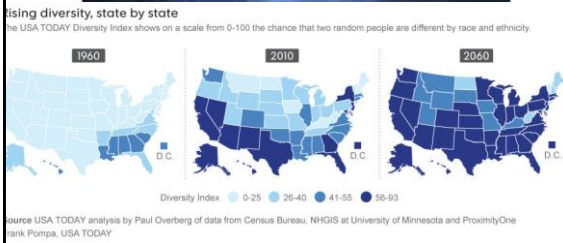


<https://doi.org/10.1002/for>



Display 3e. Interactive Timeline Maps, October 22, 2014

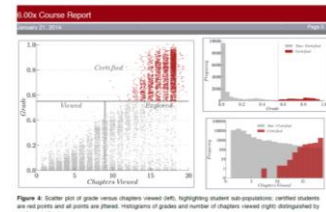
Second immigration wave lifts diversity to record high:
Greg Toppo and Paul Overberg, USA Today



Display 3f. Big Data Visualization Tools,

**January 20, 2014, 6.00x Introduction to
Computer Science and Programming
MITx on EdX Course**

http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2382322



Display 3g. Videos for clinical education (Sungkyunkwan University School of Medicine, www.medu.or.kr)



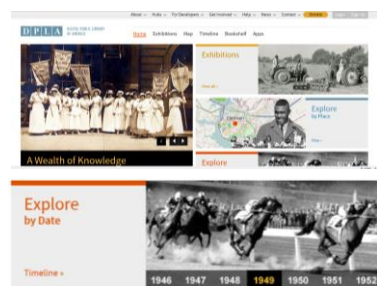
Display 3h. Video Animations and Simulations



Display 3i. Virtual Microscopes



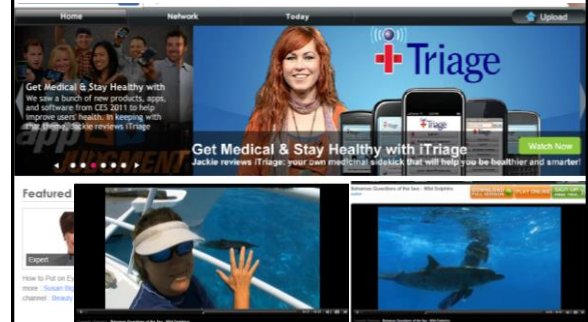
Display 3j. Visual Library Search Digital Public Library of America <http://dp.la/>



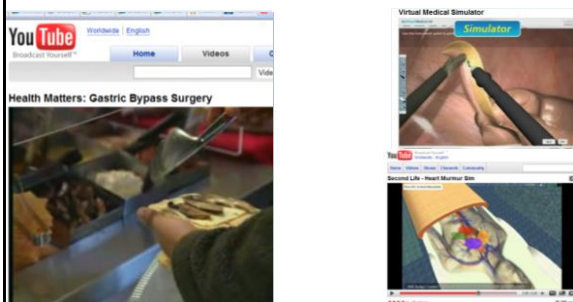
Display 3k. Online Timelines (US Presidents)



Display 3L. TV Lesson (expert videos)



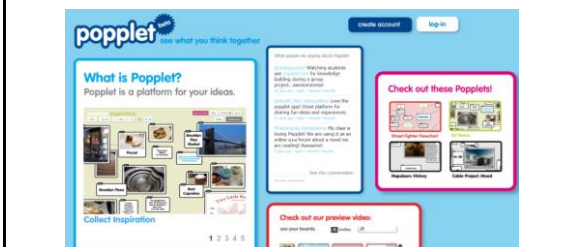
Display 3m. Medical Animations (e.g., YouTube, CNN, BBC)



Display 3n. Online Art Google Art Project, NBC Nightly News, April 3, 2012 <http://www.msnbc.msn.com/id/3032619/vp/46945508#46945508>



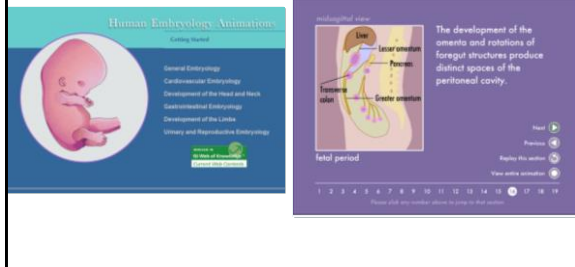
Display 3o. Student Collaborative Knowledge Building and Sharing (e.g., Popplet: <http://popplet.com/>)



Display 3p. Concept Mapping and Timeline Tools (Bubbl.us, Cmap, Gliffy, Mindmeister, or Mindomo)



Display 3q. Human Embryology Animations (Valerie O'Loughlin, Indiana University)



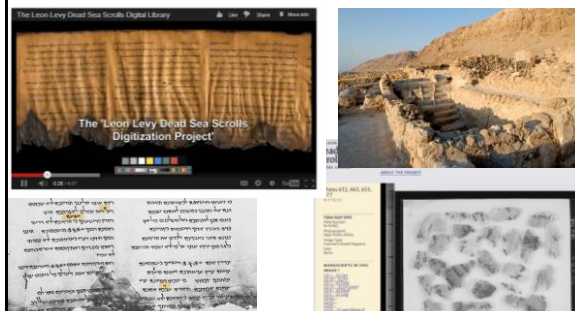
Display 3r. Video Art Tutorials ArtMaker.com

<http://artmaker.com>



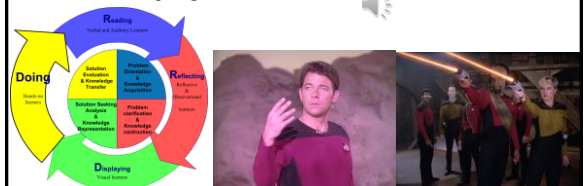
Display 3s. Unique OER (e.g., Dead Sea Scrolls)

<http://www.deadseascrolls.org.il/explorer-the-archives>
http://www.deadseascrolls.org.il/explorer-the-archives/search/facets/ancient/Quemur_Cave_4
<http://www.deadseascrolls.org.il/home>



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. Survey Research and Market Analysis (e.g., Mister Poll, MicroPoll, Zoomerang, SurveyShare)



Do 4b. Course Recap Prezi Presentations

Jeff Pankin, MIT, Prezi, Emerging Learning Technologies

<http://prezi.com/tubwzqmf/emerging-learning-technologies/>

Jeffrey Sarrette, Today's World

<http://prezi.com/-ijyothst-r/-r685-final-project>**Emerging Learning Technologies**

Final Project for MIT, Emerging Learning Technologies graduate course in the MIT program at Suffolk University (Boston)

by Jeff Pankin on 22 April 2011

More presentations by Jeff Pankin

Today 10:10 AM, 10:10 Project Presentation

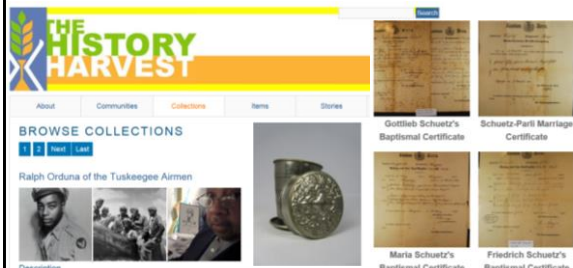
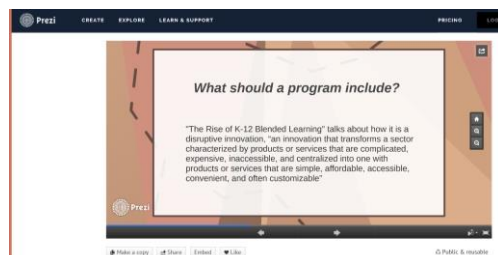
MIT

Do 4c. Singing YouTube Summaries

Daniel Halluska, P540, Fall 2011

<http://www.youtube.com/watch?v=tOL7lRgsgnw>**Do 4d. Class or Community Oral Histories**

(e.g., The History Harvest, December 21, 2012)

<http://historyharvest.unl.edu/collections>**February 8, 2015****Do 4e. Recap Discussion (e.g., Prezi from Thuy Han for R678 class Week 4)**https://prezi.com/H4vkgqhtn8htpawbarchilveorw6b20040303191129httpwwwnetco7um_campaignshare&utm_medium=copy<https://web.archive.org/web/20040303191129/http://www.nl>**Do 4f. Student Class Documentaries**

Umida's R546 Documentary Project

http://www.youtube.com/watch?v=EMLTzqCV_5A**Do 4g. Student Expertise**
(e.g., Learnist)<http://learnist.org/category/featured#/category/featured>