

Masterclass Part I: Where Are You R2D2?: Addressing Diverse Learner Needs with the Read, Reflect, Display, and Do Model

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February 9, 2012

A first-hand look inside a flipped classroom, eSchool News, Meris Stansbury

<http://www.eschoolnews.com/2012/02/09/a-first-hand-look-inside-a-flipped-classroom/>

Watch Lake Elmo Elementary's experience:




February 21, 2012

Rethinking Learning with Salman Khan, Stanford Graduate School of Business (<http://www.youtube.com/watch?v=W-vj6BHQa5w>)

March 21, 2012

Let's use video to reinvent education, TED
http://www.ted.com/talks/salman_khan_let_s_use_video_to_reinvent_education.html




March 12, 2012

Single-District Virtual Ed. Seen Growing Fastest Education Week, Katie Ash

<http://www.edweek.org/ww/articles/2012/03/13/20120313single-district-virtual-ed-seen-growing-fastest>




Roma Chokshi, a junior at Springfield High School in Springfield, Ohio, works at home on an online course she is taking as part of a program that gives more advanced students the opportunity to take virtual classes for additional credits.

March 13, 2012,

Britannica to Stop Publishing Books CNN Money Tech, Julianne Pepitone

http://money.cnn.com/2012/03/13/technology/encyclopedia-britannica-books/index.html?hpt=hp_13




Britannica stops presses and goes digital

March 24, 2012,

In South Korean classrooms, digital textbook revolution meets some resistance, Washington Post

http://www.washingtonpost.com/world/asia_pacific/in-south-korean-classrooms-digital-textbook-revolution-meets-some-resistance/2012/03/21/qlOAxINGYS_story.html?hpid=hp_hp-top-table-main-some-resistance:2012/03/21/qlOAxINGYS_story.html?wpisrc=emailtoafriend



Ahn Young-joon/AP - Teacher Yeon Eun-jung, right, helps student Jeong Ho-seok study on a tablet PC during a lesson at Bosu Elementary School in Gwesan, South Korea in July. The country is now scaling back a plan to digitize classrooms by 2015.

April 12, 2012
TEDx WallStreet, Michelle Rhee
 Under Spending, Overspending, or Misspending, April 12, 2012
<http://www.studentsfirst.org/blog/entry/under-spending-overspending-or-misspending>
<http://www.youtube.com/watch?v=RsiLLNzi-cM>

April 18, 2012
Online-Education Start-Up Teams With Top-Ranked Universities to Offer Free Courses, Chronicle of Higher Education (e.g., Coursera)
<http://www.coursera.org/>

April 25, 2012
MIT+K-12
Making Video to Make a Difference
<http://k12videos.mit.edu/>

April 29, 2012
'Supersizing' the College Classroom: How One Instructor Teaches 2,670 Students,
 Chronicle of Higher Education, Marc Parry
<http://chronicle.com/article/Slide-Show-Technology-for/131711/>
<http://www.youtube.com/watch?v=rBNe8CUePTQ&feature=youtu.be>

John Boyer teaches a megaclass in current events at Virginia Tech in person—and holds online office hours using Ustream.

Blackboard/CourseSites MOOC with Curt Bonk: " (3,600+ enrolled)

April 29, 2012
Open Education's Wide World of Possibilities,
 Chronicle of HE, Katherine Mangan
http://chronicle.com/article/Open-Educations-Wide-World-of/131672/?id=at&utm_source=at&utm_medium=em

May 2, 2012
MIT and Harvard announce edX
<http://www.edxonline.org/about.html>
<http://www.youtube.com/watch?v=SA6ELdIRKRU>

May 5, 2012
Shaq earns doctorate degree
<http://www.youtube.com/watch?v=Szj6UqnBdjp>

May 8, 2012
"Project Re: Brief | Coca-Cola | Mobile Ad Demo"
<http://www.youtube.com/watch?v=45Z-GevoYB8&feature=relmfu>

May 14, 2012
iPad gives voice to kids with autism
Supraja Seshadri, CNN
http://edition.cnn.com/2012/05/14/tech/gaming-gadgets/ipad-autism/index.html?hpt=hp_c3

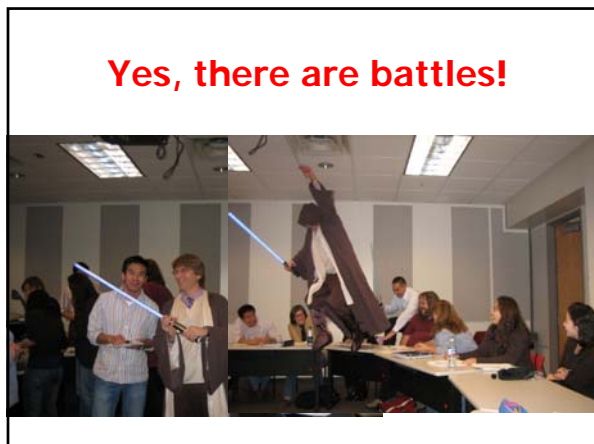
iPad gives voice to kids with autism
 By Supraja Seshadri | Special to CNN
 May 14, 2012 | Updated 7:08 AM ET (10:00 AM PT) | [Photo gallery](#) | [Print page](#)

Sharia Siddiqui uses an iPad to help her communicate. Her father says it's "given her a sense of control she never had."

Poll #1: Is this a revolution in education today?
A. Yes...
B. No...

How can technology address diverse learner needs?

Framework #1: The R2D2 Model



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.

1. Risk

← Low Risk ————— High Risk

← High Risk ————— Low Risk

2. Time

← Easy to Embed ————— Extensive Planning

← Extensive Planning ————— Easy to Embed

3. Cost

← Free or Inexpensive ————— Enterprise Licenses

← Enterprise Licenses ————— Free or Inexpensive

4. Student-Centered

← Instructor-Focus ————— Student-Focus

Low ————— High

← Student-Focus ————— Instructor-Focus

Read 1a. Wikibook or Wikipedia Editing or Critiques

- Ask students to critique a wikibook or page from Wikipedia

Poll #26: Wiki Question(s)

Have you edited or written new articles on Wikipedia or Wikibooks? **Yes or No**

Do you think it is ok for students to cite from Wikipedia? **Yes or No**

Read 1b. Online Crossword Puzzles

(e.g., <http://www.eclipsecrossword.com/>)

Create Online Crossword Puzzles!

Welcome to EclipseCrossword!

4,000,000
Four million downloads

Why use our EclipseCrossword?

- Teachers and parents: Use our puzzles for review, enrichment, and bonus for all subjects. Students may actually earn credit for the assignment. Classroom puzzles encourage logic, thinking and critical thinking. Crosswords can be printed or shared by your website.
- Students: You can create your own crossword puzzle with EclipseCrossword - crossword puzzles are a great way to get people to try our site, and come back to the site. Your visitors can play the puzzle right on your website, or you can get a printable version to use on one of your blogs.
- Online students: EclipseCrossword makes our students - by solving crossword puzzles and tests, and making people feel like a scholar. Solving a crossword puzzle can be used as a reward for good performance in a particular subject.
- Just adults: You can use EclipseCrossword to produce grade-level crossword puzzles. If you're not sure what puzzle to make, a crossword puzzle about any subject.

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

Read 1c. Listen to Open Access Podcast Shows (and write papers)

Read 1d. Learning Planet: Interactive Glossary

Umida Khikmatillaeva, Dec. 2011, P540
<http://learningplanet.shutterfly.com/>

Read 1e. Talking Dictionaries for Rare Languages

The Wall Street Journal, February 18, 2002
<http://online.wsj.com/article/SB10001424052970204880404577228982976760026.html?articleTabs%3Dvideo>

Talking the Talk, for Posterity
Oral Online Dictionaries Help Preserve Languages, Cultures Muted by Modernity



Read 1f. Online Article Portals and Databases

<http://r685articledatabase.weebly.com/>
<http://ella.slis.indiana.edu/~bahaloc/r685/>
http://php.indiana.edu/~cjbok/Syllabus_R685_Spring_of_2011.htm

ARTICLE DATABASE FOR R685 CLASS

Topic: Online Learning

AI Online Learning Theories

- Terry Anderson (2008). Towards a Theory of Online Learning. The Theory and practice of Online Learning (2nd Edition). Retrieved on April 21, 2011

Read 1g. Online Instructor Q&A

April 1, 2012, Piazza: <https://piazza.com/>

The screenshot shows a Piazza forum interface. On the left, there's a sidebar with 'QUESTIONS' and 'ANSWERS'. The main content area shows a question titled 'Confused with lflpan' with a question mark icon. Below it, there's an answer from a user named 'lflpan' with a thumbs up icon. The interface includes search bars, navigation tabs, and a list of questions.

Poll #2: Do you think students prefer the "Read" part of R2D2?

A. Yes
B. Maybe
C. No
D. Not sure.

Pic-Lits (inspired picture writing) http://piclits.com/compose_dragdrop.aspx

The screenshot shows the Pic-Lits website. The top navigation bar includes 'Pic-Lits', 'Inspired Picture Writing', 'Follow us', and social media icons. The main content area features a large image of a woman's face with the text 'It comes over you automatically. You find it easier. Your story.' Below the image, there's a 'Compose' button and a 'Pic-Lits' logo.

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

The diagram is a circular flow with four stages: 'Reflecting' (top, blue), 'Observing' (right, red), 'Viewing' (bottom, green), and 'Watching' (left, yellow). Each stage has a brief description of the learning process. The images of Yoda, Luke Skywalker, and Anakin Skywalker are placed below the diagram.

Reflect 2a. Critical Friend Blog Postings (Kristen and Susan)

The screenshot shows a blog post titled 'R685: The Web 2.0'. It features a photo of a woman with the text 'R685 IS THE WORLD OPEN' overlaid. Below the photo is a video player. The blog post includes a date 'Week 11 (April 23) Networks of Personalized Learning (e.g., Language Learning, Learning)' and a description of the content.

Poll #3: Blogging Questions

- Do you have a blog? **Yes or No**
- Have you created a video blog? **Yes or No?**
- Do you regularly read other people's blogs? **Yes or No**
- Do you assign blogging tasks in your classes? **Yes or No**

The images show a man speaking into a microphone, likely a video recording of a poll question.

Reflect 2b. Expert and Domain Specific Blog Reflections (English, Health, Business, etc. blogs)

The screenshot shows the 'The English Blog' website. The main content area features a video player for 'THIS IS IT' by Michael Jackson. The video player has a colorful, abstract background. The website includes a search bar, navigation tabs, and a list of blog posts.

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

Reflect 2d. Workplace and Field Reflections

Poll #4:
Any light bulbs going off in your head so far...?

A. Yes definitely
 B. Maybe
 C. No

3. Visual Learners

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

Display 3a. Timeline Tools
 (e.g., USA Today, August 26, 2011)

<http://www.usatoday.com/story/2011-08-25/Martin-Luther-King-Jr-Memorial-in-Washington-A-closer-look/501364701?no-348000>

Martin Luther King Jr. Memorial in Washington: A closer look

Display 3b.
Tracking the Life of a Scientist
 (e.g., Brian J. Ford, independent scientist)

Origin of Humans: <http://www.youtube.com/user/tellymonitor/p/u/2sWWwVEdJ8U>
 Tellymonitor's Channel: <http://www.youtube.com/user/tellymonitor>
 BBC programs omit living cells: <http://www.youtube.com/watch?v=vdUpTheCkcy>
 Secret Weapons: <http://www.youtube.com/user/tellymonitor#u>
 Dinosaurs (Laboratory News, April 1, 2012): <http://www.labnews.co.uk/news/prehistoric-revolution>

Display 3c. Online Art

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

Display 3d. Shared Online History Videos

(e.g., "History for Music Lovers" with over 50 songs including: Trojan War "Tainted Love" by Soft Cell; Charlemagne "Call Me" by Blondie, Cleopatra, Napoleon, Shakespeare, the Vikings)

Display 3e. Using Online Encyclopedias

(e.g. the Encyclopedia of Earth:
<http://www.eoearth.org/>
http://en.wikipedia.org/wiki/Encyclopedia_of_Earth)

Display 3f. Educational Videos: TED-Ed

<http://education.ted.com/>

Display 3g. Radical Cartography

<http://www.radicalcartography.net/index.html?chicagodots>

Display 3h. Concept Mapping and Timeline Tools

(VUE, Bubbl.us, Cmap, Freemind, Glify, Mindmeister, or Mindomo)

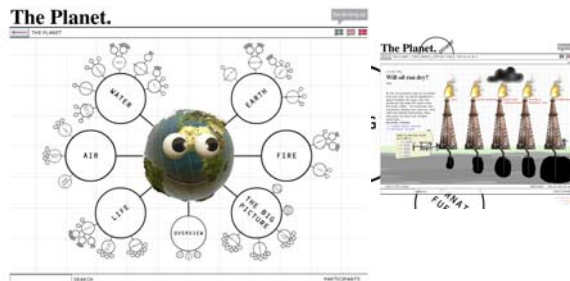
Display 3i. World Trends and Indices (e.g. Worldmapper)



"Singapore is engaging robustly in the materials science research, as we position ourselves for the globally, knowledge-driven economy, and for our next phase of development as a society." Therman Shanmugaratnam, 2003

Display 3j. The Planet (In Fact)

<http://apps.forskning.se/InfactPlaneten/index.html?lang=eng>

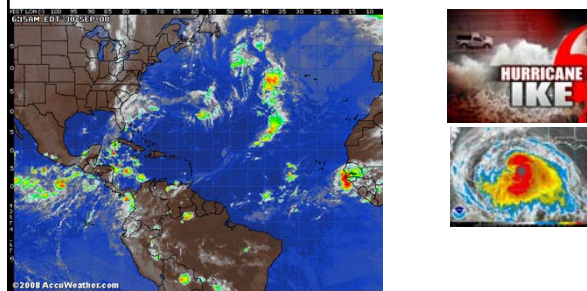


Display 3k. Download and Use Online 3D Sketches (Google SketchUp; download

<http://sketchup.google.com/3dwarehouse>)



Display 3l. Weather-Related Visuals and Animations



Display 3m. Wordle

APedagogy of Abundance or a Pedagogy to Support Human Beings? Participant Support on Massive Open Online Courses, IRRODL, Kop, Fournier, & Sui Fai Mak, November 2011

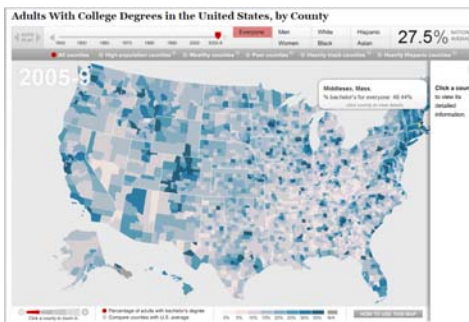
<http://www.irrodl.org/index.php/irrodl/article/view/1041/2025>



Figure 4. PLENK2010 Wordle.

Display 3n. Interactive Population Maps (adults with college degrees by county, May 7, 2012)

http://todaycampus.com/article/36th_Hemerson_Interviews_Josh_Keller_on_Interactive_Graphics_for_Higher_Education



Display 3n. Interactive Population Maps
 (adults with college degrees by county, May 7, 2012)

Adults With College Degrees in the United States, by County

1970

Caswell, N.C.
 % bachelor's for everyone: 3.1%

10.7%

Display 3n. Interactive Population Maps
 (Graduation rates by state, May 7, 2012)

Graduation rates by state

Public four-year colleges

Alaska
 26.6% graduated in six years

Highest graduation rates

Display 3o. Interactive Weather Maps
 (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>

New USDA climate zone map reflects northward warming trends

Illinois, Indiana, Ohio

Display 3p. Lessons on iPad
 (e.g., ShowMe: <http://www.showme.com/>)

Watch out!

Solving One Step Equations

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

popplet

What is Popplet?
 Popplet is a platform for your ideas.

Check out these Popplets!

Display 3r. Chemistry Videos
 (Videos of the Periodic Table, Univ of Nottingham)

THE PERIODIC TABLE OF VIDEOS

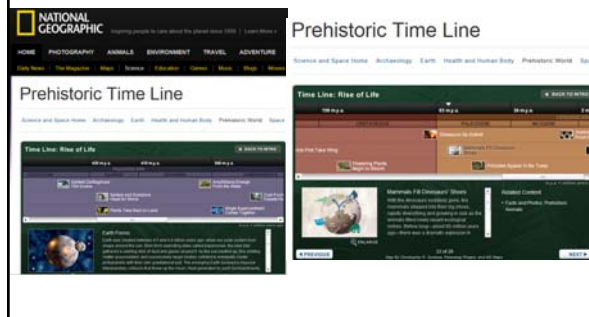
Sodium

Display 3s. Online Timelines (US Presidents)



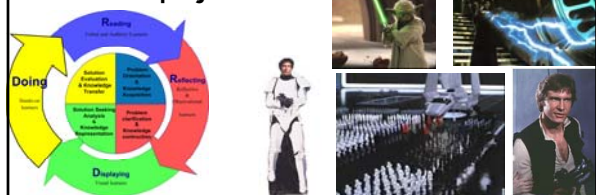
Display 3t. National Geographic Prehistoric Timeline

<http://science.nationalgeographic.com/science/prehistoric-world/prehistoric-time-line.html>



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. Podcast Productions and Shows



Poll #5: Podcast Questions

- Do you listen to a certain podcast on a regular basis? **Yes or No**
- Have you created a podcast? **Yes or No**
- Who has created a vodcast? **Yes or No**



Do 4b. Negotiate Meanings Online

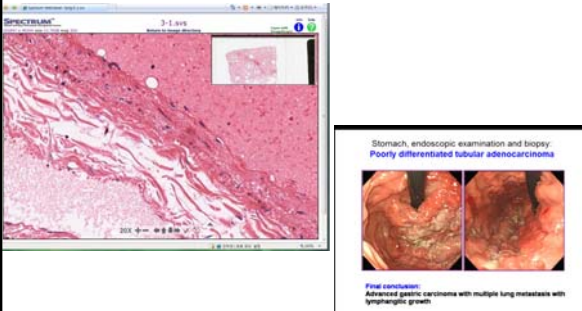
(e.g.m MeetingWords: <http://meetingwords.com/>)
MeetingWords is a simple text editor for the web.

Your text is saved on the web, and more than one person can edit the same document at the same time. Everybody's changes are instantly reflected on all screens.

Work together on meeting notes, brainstorming sessions, homework, team programming and more!

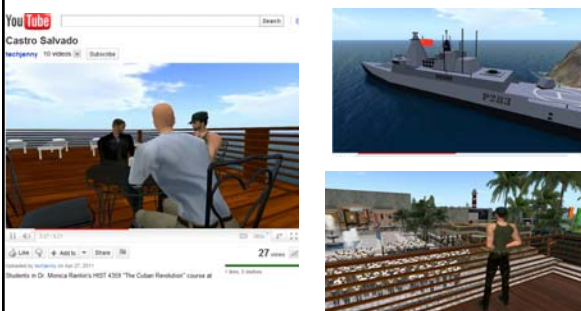


Do 4c. Virtual Microscopes



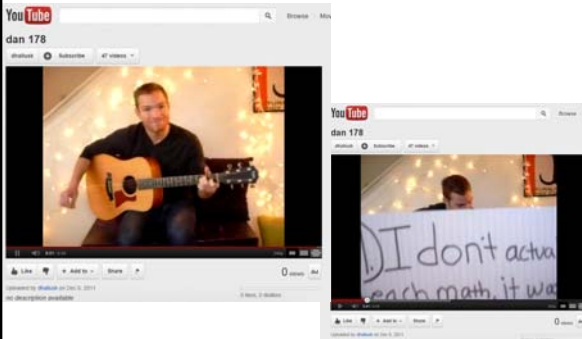
Do 4d. Virtual Worlds

(e.g., Dr. Monica Rankin's class, UT Dallas, Cuban Revolution)
<http://www.youtube.com/watch?v=D4uBhZN9Oos>



Do 4f. Singing YouTube Summaries

Daniel Halluska, P540, Fall 2011
<http://www.youtube.com/watch?v=IOL7lrGsqnw>



Do 4g. Visual presentations

(e.g., Prezi)
<http://prezi.com/bmhhl59xd46/is-the-world-open/>
<http://prezi.com/8h7qrxlyaym/the-world-is-open/>



Do 4h.


Survey Research and Market Analysis

(e.g., Mister Poll, MicroPoll, Zoomerang, SurveyShare)



Do 4i. Uploading Mobile Books

(e.g., BookRix, <http://www.bookrix.com/>)



Do 4j. Podcasts for students of pronunciation class
(e.g., Tzu-Su Chen, Taiwan)



Do 4k. Student Class Documentaries
Umida's R546 Documentary Project
http://www.youtube.com/watch?v=FMLTzqCV_5A



Poll #6: Do you think students today prefer the "Do" part of R2D2?

- A. Yes
- B. Maybe
- C. No
- D. Not sure.



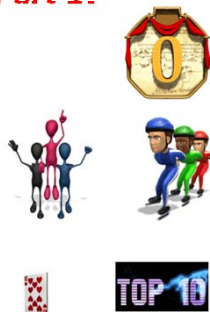
Poll #7: What phase of the R2D2 Method will you use most?

- A. Read (Auditory and Verbal Learners)
- B. Reflect (Reflective Learners)
- C. Display (Visual Learners)
- D. Do (Tactile, Kinesthetic, Exploratory Learners)



Poll #8: How many new ideas did you get from Part 1?

- 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 the R2D2 Model!

- 😊 Slides at: TrainingShare.com
- 😊 Papers: PublicationShare.com
- 😊 Book: <http://worldisopen.com/>
- 😊 Email: curt@worldisopen.com

