

Interaction: Xer

 "The skill to be valued in the twentyfirst century is not the length of attention span, but the ability to multitask - to do many things well at once.... [and] the ability to process visual information very rapidly." (Rushkoff, 1996:50)

Learner Control: Xer

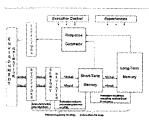
- Xers expect a range of options, in terms of what they learn and how they learn it.
 They require autonomy and flexibility for their own learning. They demand a variety of instructional methods from which they can choose to learn, e.g., videotapes, selfpaced modules, interactive CDs.
 - "Online gives me something to do when I'm bored with the professor."
 - "I respect myself more as a selfteacher."
 - Dziuban, Moskal, & Hartman (2005)

Neomillenial Learning Styles

Planning for Neomillennial Learning Styles: Implications for Investments in Technology and Faculty Chris Dede, H*arvard University, Educause, 2005*

- Fluency in multiple media--value all types of communication, activities, experiences, not a single best medium
- Actively seek, collect, and synthesize experiences, rather than absorb a single best source
- · Active learning and collective reflection
- Non-linear and associated webs of learning
- Co-design of learning experiences for individual needs and preferences not precustomized

Dual Coding Theory



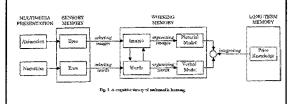
Pigerre Z. A Model of Ambausins, Statul Cooling and Internation Processing.

Revised from "The Shade Medal of Laming and Astronosy Stateshying Madern Sedemagnic
Stateshying Photosins," by M. M. Gagne and M. D. Dirastil, 1888, Francisco of Laming and Astronosy.

instruction of 15.

The promise of multimedia learning: Using the same instructional design methods across different media

Richard E. Mayer, Learning and Instruction, 13 (2003) 125-139.



The promise of multimedia learning: Using the same instructional design methods across different media

Richard E. Mayer, Learning and Instruction, 13 (2003) 125-139.

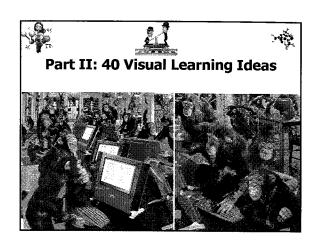
A review of research on the design of multimedia explanations:

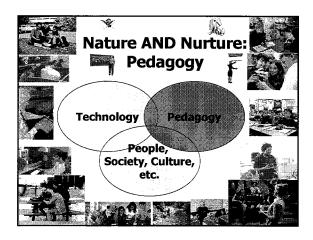
- (a) a multimedia effect: in which students learn more deeply from words and pictures than from words alone—in both book-based and computer-based environments,
- (b) a coherence effect: in which students learn more deeply when extraneous material is excluded rather than included—in both book-based and computer-based environments,

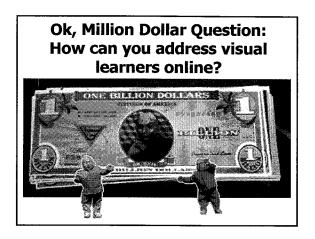
The promise of multimedia learning: using the same instructional design methods across different media

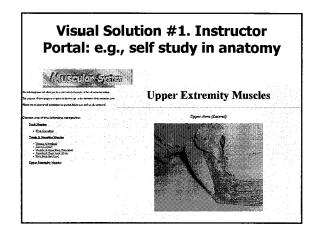
Richard E. Mayer, Learning and Instruction, 13 (2003) 125-139.

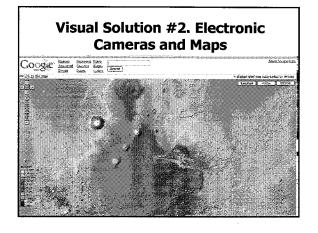
- (c) a spatial contiguity effect: in which students learn more deeply when printed words are placed near rather than far from corresponding pictures—in both book-based and computer-based environments, and
- (d) a personalization effect: in which students learn more deeply when words are presented in conversational rather than formal style—both in computerbased environments containing spoken words and those using printed words.

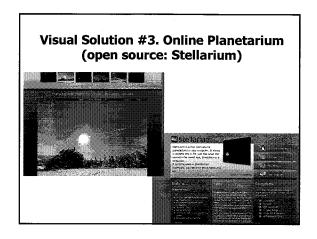


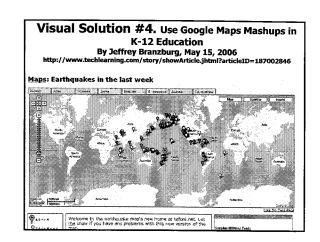


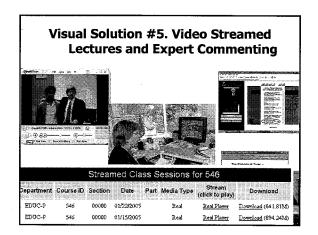


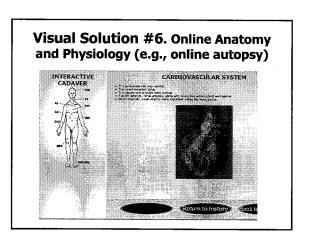


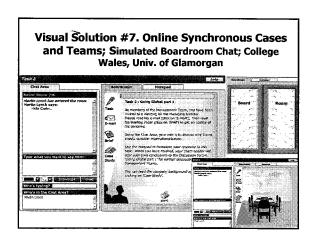


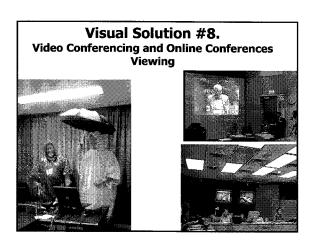


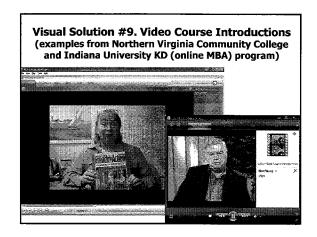


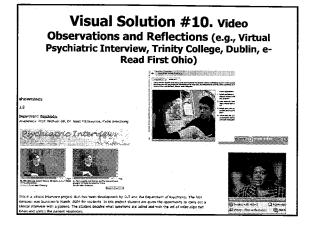














Visual Solution #12. COSMEO: Online
Homework Help from the Discovery Channel
includes math homework help, 15,000 interactive learning
quizzes, games, and puzzles, 27,000 research articles, and
30,000 video clips that correlate to state standards!!!
And the collection is expanding daily (cost = \$9.95/month
for up to 4 kids per family)

Visual Solution #13. REAL-World, Real-TIME PALEONTOLOGY

(videoconferencing) Ozarks Technical Community College (MO) and MOREnet, the Missouri Research and Educ Network

- They've installed 1,600 feet of armored, directburial fiber-optic cable in the Riverbluff Cave in southwest Missouri, and have networked a field house where work is being done on discovered artifacts. Those finds include some of the oldest Ice Age fossils in North America.
- RESEARCHERS broadcast live classroom content from Riverbluff Cave.



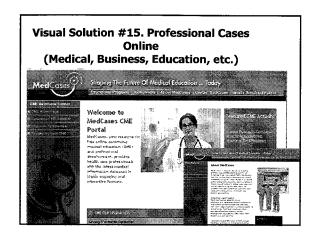


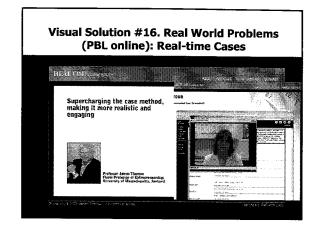


Visual Solution #14. Videoconferencing with Hearing Impaired Students Online

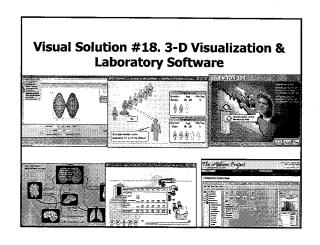
- College students tutoring high schools on their homework
- Instructors observing how teacher education students are doing in field placements (practice presentation and communication skills)
- Interpret speaker via Web cam



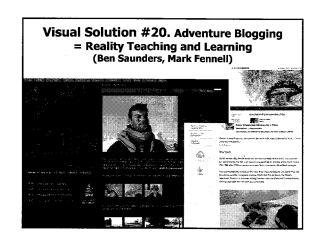






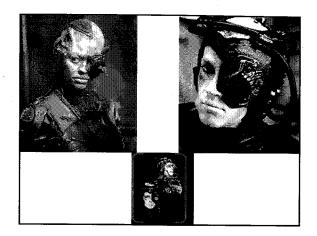






What can we say about visual learning so far???

- It is everywhere!!!!!!!
- Resistance is futile!!!!!!



Visual Solution #21. Historical Documents discoverbabylon.org

 In its final form, the multiplayer game will let you march through threedimensional recreations of the first city-states, around 3000 B.C., the first empires, around 2300 B.C., and finally the famous Iron Age empire of Assyria...offers three-dimensional walkthroughs of sites in the Valley of the Kings.



Visual Solution #22. Authentic Data Analysis



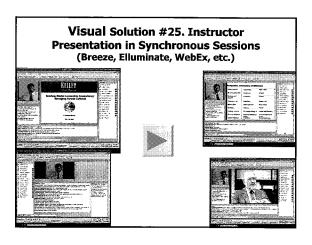
Jeanne Sept, IU, Archaeology of Human Origins; Components: From CD to Web

- A set of research q's and problems that archaeologists have posed about the site
- A complete set of data from site & background info
- Students work collaboratively to integrate multidisciplinary data & interpret age of site
- Interpret of ancient environments
- Analyze artifacts/fossils from site



Visual Solution #23. Art and History Exhibits Done Abus Revelation Connection System Services Provided S

Visual Solution #24. Expert Mentoring Online in Art and Design (COFA Online, Omnium Project, Creative Waves—onine graphics and photomedia project)



Visual Solution #26. Peer Critique in Breeze (Table of Benefits of Peer Critique; Park & Bonk, in press)

- Providing immediate feedback
- Increasing interactions among participants
- •Encouraging to exchange multiple perspectives
- Enhancing dynamic interactions
- •Promoting passive to become active
- •Strengthening social presence allowing to
- exchange of emotional supports
- Apply skills just learned
- Exchange constructive feedback on each other's projects

