





Gloria Kwan listens to her iPod while text messaging a friend who's in class. Chronicle photo by Mike Kepka





Effects of interactive multimedia in distance learning

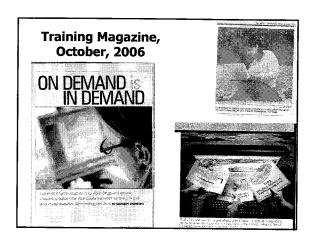
Giti Javidi and Ehsan Sheybani, 2004, In Proceedings of the IASTED International Conference WEB-BASED EDUCATION

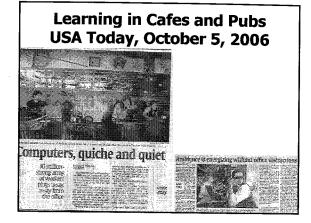
"The advancement in technology is shaping every aspect of our life, including education. One decade ago, the Internet was not critical to education. However, now, it has become an integral part of learning process. Internet technology is having a dramatic effect on colleges and universities, producing what may be the most challenging period in the history of higher education."



Generation Raised on the Internet Comes of Age, MSNBC, Dec., 13, 2004, Martha Irvine

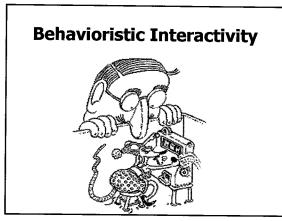
 For 21-year-old William Herbert, the Internet has replaced newspapers and TV weather reports (he visits Weather.com every morning). He pays his bills online, registers for classes, books airline and train tickets, checks TV listings, buys movie tickets and gets travel directions.

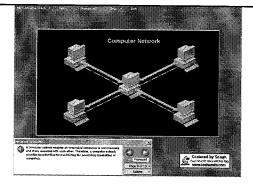




Yahoo News Love me, love my blog," as Netorati couple-surf BY SARA LEDWITH Thu Aug 3, 8:30 AM ET

- Nick Currie and his girlfriend Shizu Yuasa (R) surf the internet over breakfast in Tokyo in this handout photo. As the Internet evolves -- with its webcams, iPods, Instant Messaging, broadband, wi-fi and weblogs -- its image as a relationshipwrecker is changing. Now a sociable habit is emerging among the Netorati: couple-surfing. (Nick Currie/Handout/Reuters)
- "For my birthday, he upgraded my RAM and I thought it was incredibly romantic," writes Jess.





Online PowerPoint?

Learner Control: Older learners

 The traditional instructor-focus is what is expected. The instructor determines what is important to learn and how it should be learned. Consistency and control are maintained with the "tell me, tell me, tell me" approach.

Learner Control: Younger Learners

- 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)

Interaction: Older Learner

- Life experienced at a slower pace promotes an expectation of "it's ok to wait." Learning experienced from an early age as lecture with drill and practice without stimulation/response. Gaming as part of a learning context may be considered less effective because it is less "serious" and in some cases can be distracting.
- Older people prefer less interaction than younger people in distance education (Kearsley, 1995).

Simulation: Younger Learner

 Genxers have a rapid-fire information consumption capability. Rushkoff argues that many of the things for which this generation is maligned, such as short attention spans and lack of ability to concentrate on a single task at once are not problems but actually brilliant coping mechanisms for a world overloaded with information.

Simulation: Younger Learner

"The skill to be valued in the twenty-first 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)





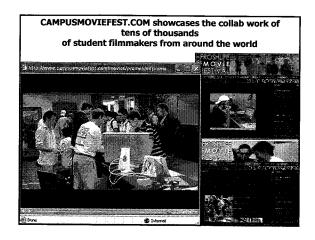
Learner Control: Younger Learner

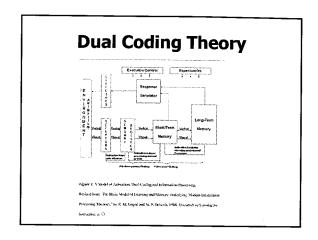
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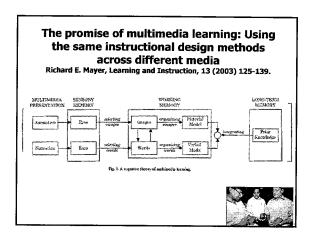
Neomillenial Learning Styles

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



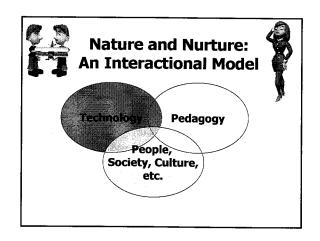




The promise of multimedia learning: Using the same instructional design methods across different media Richard E. Mayer, Learning and Instruction, 13 (2003) 125-139. A review of research on the design of multimedia explanations: (a) a multimedia effect: in which students learn more deeply from words 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,

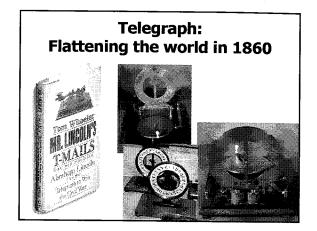
The promise of multimedia learning: using the same instructional design methods across different media Richard E. Mayer, Learning and Instruction, 13 (2003) 125-139. (c) a spatial contiguity effect: in which students learn more deeply when printed words are placed near rather than far from corresponding 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 computer-based environments containing spoken words and those using printed words.

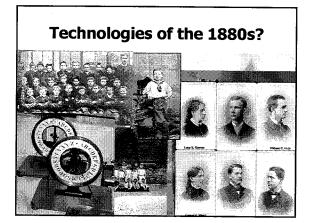


The Ten Forces that Flattened the Learning World

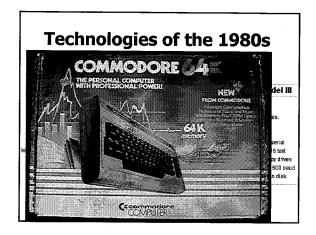
- Tools for Searching and Finding Information (e.g., Google, Yahoo!)
 Rise in Demand for Online Learning
 Open-Sourcing Learning: Sakai, Moodle, eduCommons
 Collaboration (e.g., SharePoint, Groove, Word,
 Interwise, Breeze, Google Talk, Skype)
 Learning Portability (Podcasting, Mobile technology)
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 Learning (Blogs, Wikis, etc.)
 Online Portals of Information
 Online Learning Object Repositories (MERLOT

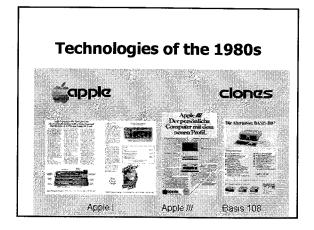
- Online Learning Object Repositories (MERLOT, Connexions, Careo, Jurom)
 Open CourseWare (MIT OCW, Utah State, Johns Hopkins, Japan, CORE, OOPS)
 Knowledge Brokers and Collectors

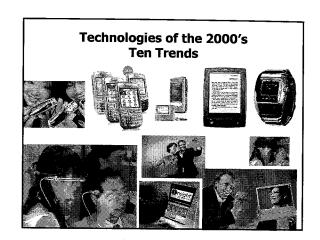








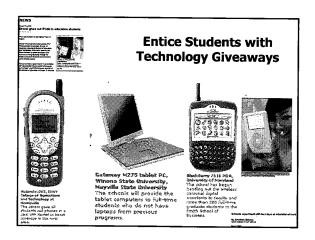


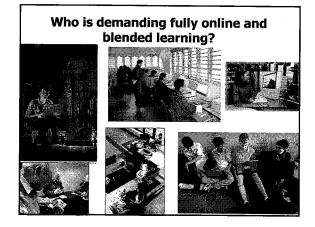


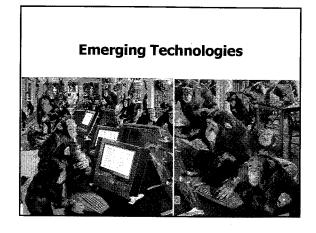
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Trend #1: Blogging (75,000 new blogs each day, USA Today, March 27, 2006) Guarter Bloc O1 2000 G2 2000 G3 2000 G3 2000 G1 2001 G2 2001 G2 2001 G2 2001 G3 2001 G4 2002 G4 2002 G4 2002 G4 2002 G5 2003 G6 2003 G6 2003 G7 2003 **Hosted Blog Growth** Growth Rate 115,000 197,900 352,000 951,000 1,200,000 1,570,000 2,140,000 2,570,000 3,070,000 4,680,000 606% 126% 131% 105% 5,780,000 7,300,000 9,620,000 000,000,920 Q2 2004 Q3 2004 16,200,000 Q4 2004 21 600 000 Q1 2005 31,600,000 Man CD Sap CD Man CD 45,200,000 53,400,000

Brandon Hall, Chief Learning Officer Magazine, July 2006

"A blog is a Web journal containing dated entries on a given topic or scheme. They can include search, feedback from readers and links to other sites. They can be written by one person or a group. Blogs can be used to share a viewpoint, enable collaborative discussion, present new product ideas, or explain ongoing news or changes."

Blogging Questions

- 1. Who has a blog? Any for a specific class?
- 2. Who regularly reads other people's blogs?
- 3. Who assigns blogging tasks?
- 4. Who has created a video blog?
- 5. Who thinks it is an utter waste of time to blog?

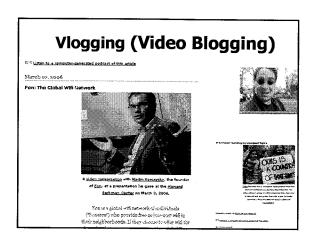
Scholars who Blog, Chronicle of Higher Ed, (Glenn Reynolds, instapundit.com; Stephen's Web, www.downes.ca)

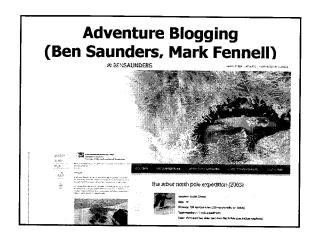


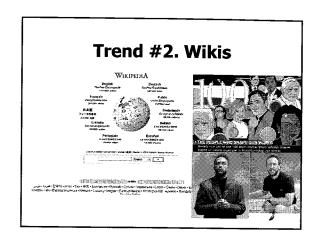


Use of Weblogs (especially English writing class)

- 1. Instructor or Tutor blog: resources, information, space to chat
- 2. Learner blog: reflections, sharing links and pics, fosters ownership of learning
- 3. Partner blog: work on team projects or activities
- 4. Class blog: international exchanges, projects, PBL
- 5. Revision: review and explode sentences from previous posts, add details
- 6. Nutshell: summarize themes or comments across blogs
- 7. Blog on blog: reflections on feelings, confusions, and experiences with blogs







Wiki Questions

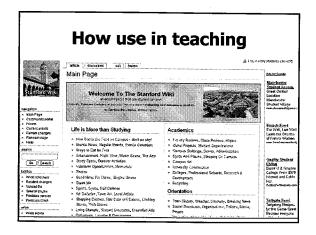
- 1. Who regularly reads Wikipedia articles just for fun?
- 2. Who regularly reads Wikibooks?
- 3. Who seeks Wikipedia for content?
- 4. Who has edited or written new articles on Wikipedia or Wikipooks?
- 5. Who thinks it is ok for college students to cite from Wikipedia?

Brandon Hall, Chief Learning Officer Magazine, July 2006

"Wikis can be used to create content on-the-fly, as a repository for information and for archiving group learning. Benefits include speed, simplicity and a sense of ownership among participants."

For Teachers New to Wikis

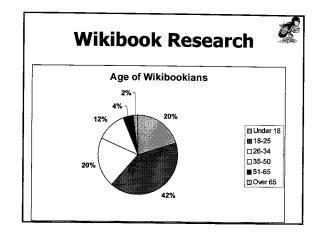
- · Wikis are free, online writing spaces.
- Wikis use simple formatting rules, so no HTML understanding required.
- Highly collaborative composing and creativity
- Authors do not claim ownership
- Published online
- Wikis provide a history and anyone can revisit prior versions of text

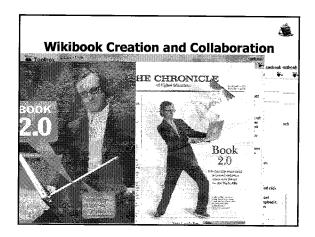


What is a wiki?

- Ward Cunningham, in 1995
- The name, wiki, is based on the Hawaiian term wiki-wiki, meaning "quick"
- Also for "What I Know Is"









Podcast Questions

- 1. Who has listened to a podcast?
- 2. Who listens to a certain podcast on a regular basis?
- 3. Who has created a podcast?
- 4. Who has created a vodcast?
- 5. Who thinks podcasting is simply more talking heads?

Learning TRENDS by Elliott Masie - September 18, 2006. #402 - Updates on Learning, Business & Technology. 52,889 Readers - <u>http://www.masie.com</u> - The MASIE Center.

Fingertip Knowledge Podcast & Transcript: One of my focus points these days is Fingertip Knowledge. You and I and most of our colleagues are increasingly using search engines, from Google to Corporate Intranets, to "walk" our way to the information or knowledge that we need.

Podcast (and Transcript) about the implications of Fingertip Knowledge and the Learning Field:

http://www.learning2006.com/university/
 (Duration: 20 Minutes)

Webcasts: WorldBridges Goals

What is Worldbridges?

 Worldbridges is a network of individuals and organizations that use live, interactive webcasting and other new media technologies to help people connect, learn, & collaborate. (Webheads, Koreabridge, Worldbridges Tibet, EdTechTalk, etc.)

Goals & Values

 Our primary goal is to foster understanding and cooperation amongst the citizens of the world. We value civility and respect, open source collaboration, fair distribution of income, and a sense of world identity. Podcasting and Coursecasting (Adam Curry; www.dailysourcecode.com)

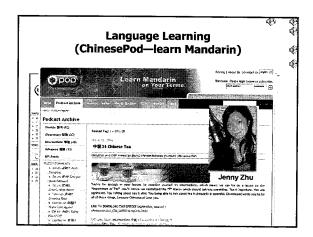
"Just the word 'podcast' scares a lot of teachers away," Ms. Schrock said. "There are a lot of misconceptions."

"All you need is a computer, access to the Internet and a microphone that you can buy at Toys 'R' Us," Mr. Warlick said. "I listen to podcasts on my computer." (NY Times, Jan 25, 2006)









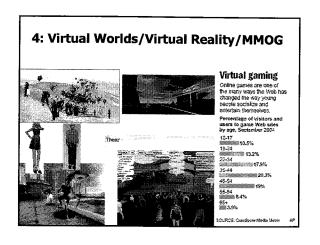
Educational Applications

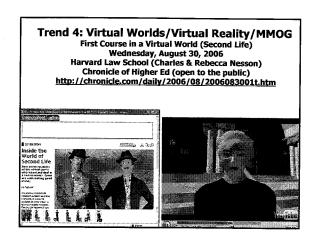
- 1. Recordings of lectures (Coursecasting)
- 2. Supplemental textbook or entire-
- 3. Student projects
- 4. Interviews
- 5. Language lessons
- 6. Oral reports
- 7. K-12 classroom interactions
- 8. Downloadable library of resources
- 9. Recordings of performances



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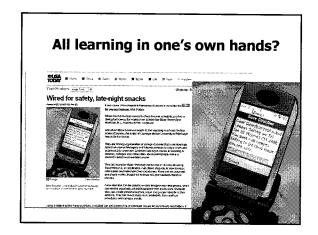


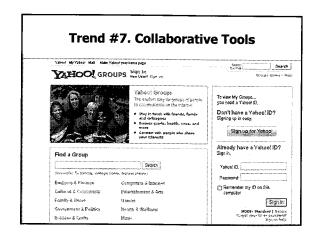


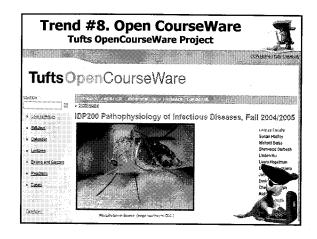


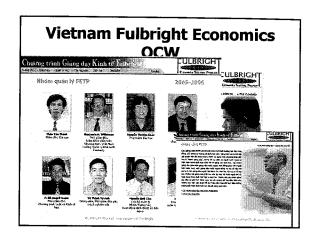


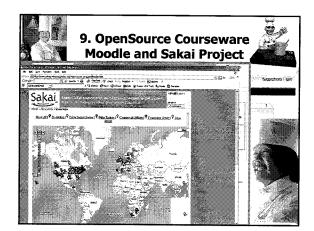


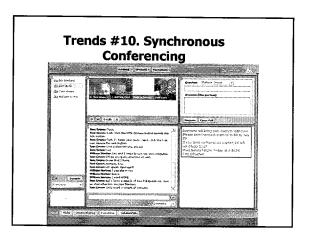






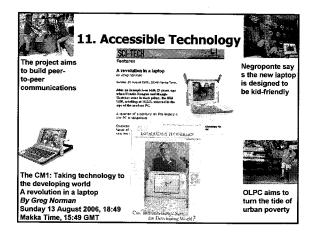


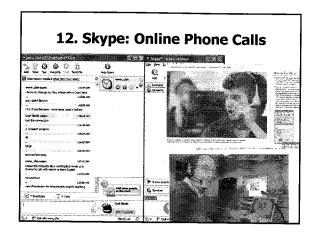




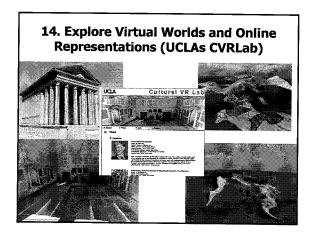
Next-Generation Course Management Systems, Educause Quarterly, Number 1, 2003, Colleen Carmean & Jeremy Haefner "A very good thing has grown very large, very quickly, and few faculty are speaking or being heard in the discussions of what an ideal CMS might look like in maturity."

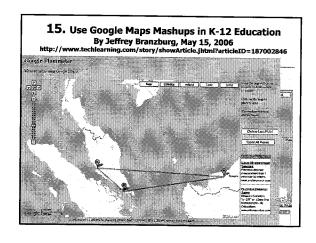
"Difficult choices lie ahead both for CMS vendors and for institutions of higher learning."

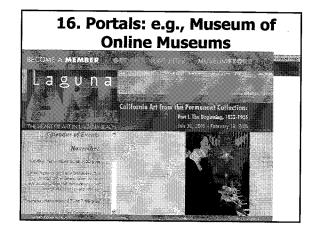


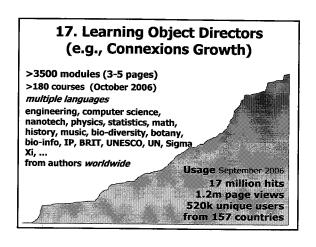












Sharing Questions (future)

- How will such learning objects of today be viewed in 100 or 200 years?
- What new technologies will emerge and be used for knowledge sharing?
- Will online sharing become expected of all faculty members around the planet?
- If so, how will that change the face of higher education?
- What collaborations are possible between corporate world and OOPS, OCW, MERLOT, etc.?

What can we say about emerging online technologies then???

- They is everywhere!!!!!!!
- Resistance is futile!!!!!!!

