Future Trends in Distance Learning

Telecourse, Web-based, Interactive Television, Correspondence

Streaming Video

Synchronous IP Interaction (web cams, web-mediated meeting houses – WebeX, Elluminate, Horizon, Wimba, Centra, etc.)

Multiple Delivery Opportunities (TV, PC, handhelds, (PDA, Ipod, MP3, MPEG, phone)
The Moving Picture Experts Group or MPEG is a working group of ISO/IEC charged with the development of video and audio encoding standards. Its first meeting was in May of 1988 in Ottawa, Canada. As of late 2005, MPEG has grown to include approximately 350 members per meeting from various industries, universities, and research institutions. MPEG's official designation is ISO/IEC JTC1/SC29 WG11.

MPEG (pronounced EM-peg) has standardized the following compression formats and ancillary standards:

- **MPEG-1**: Initial video and audio compression standard. Later used as the standard for Video CD, and includes the popular Layer 3 (MP3) audio compression format.

- **MPEG-2**: Transport, video and audio standards for broadcast-quality television. Used for over-the-air digital television ATSC, DVB and ISDB, digital satellite TV services like Dish Network, digital cable television signals, and (with slight modifications) for DVDs.

- **MPEG-3**: Originally designed for HDTV, but abandoned when it was discovered that MPEG-2 was sufficient for HDTV.

- **MPEG-4**: Expands MPEG-1 to support video/audio "objects," 3D content, low bitrate encoding and support for Digital Rights Management. Several new (newer than MPEG-2 Video) higher efficiency video standards are included (an alternative to MPEG-2 Video), notably, Advanced Simple Profile and Advanced Video Coding. MPEG-4 may be used on HD-DVD and Blu-Ray discs.

- **MPEG-7**: A formal system for describing multimedia content.

- **MPEG-21**: MPEG describes this standard as a multimedia framework.
Beloit College's Mindset List for the Class of 2009

Most students entering college this fall were born in 1987.

2. They don't remember when "cut and paste" involved scissors.

3. Heart-lung transplants have always been possible.


6. With little need to practice, most of them do not know how to tie a tie.

7. Pay-Per-View television has always been an option.

8. They never had the fun of being thrown into the back of a station wagon with six others.

17. "Whatever" is not part of a question but an expression of sullen rebuke.

18. The federal budget has always been more than a trillion dollars.

29. The Starship Enterprise has always looked dated.

20. They may have fallen asleep playing with their Gameboys in the crib.

21. They have always had the right to burn the flag.

22. For daily caffeine emergencies, Starbucks has always been around the corner.

23. Ferdinand Marcos has never been in charge of the Philippines.

24. Money put in their savings account the year they were born earned almost 7% interest.

25. Bill Gates has always been worth at least a billion dollars.

26. Dirty dancing has always been acceptable.
Future Trends in Distance Learning

Increased Use of Internet and Web-based Communications

- Broadcasting, Receiving, Sharing
  Podcasts, Wikis, Blogs, RSS
- Information Resource
  Searches, Electronic Reserves, Research, Administration of Educational Experience
RSS (Really Simple Syndication) is an XML-based format for sharing and distributing Web content, such as news headlines. Using an RSS reader, you can view data feeds from various news sources, such as CNN.com, including headlines, summaries, links to full stories.
RSS feeds on seattletimes.com

Now you can stay on top of the news with continuously updated headlines from seattletimes.com. Just click on the content areas you're interested in and follow the instructions in your RSS news reader for adding a feed.

- What is RSS?
- How do I sign up for seattletimes.com RSS feeds?
- Where can I get an RSS reader?
- What are the benefits of using RSS?
- What are the terms of use?

seattletimes.com
- RSS Top stories
- RSS Entire site

Business & Technology
- RSS Business & Technology
- RSS Microsoft
- RSS Boeing
- RSS Biotech
- RSS Personal Technology
- RSS Brier Dudley's blog
- RSS Tech Tracks

Hation & World
- RSS Nation & World

Opinion
- RSS Opinion

Photography
- RSS Best Seat in the House blog

Politics
- RSS David Postman on Politics blog
- RSS Politics
What Is Wiki

Wiki is in Ward's original description:

*The simplest online database that could possibly work.*

Wiki is a piece of server software that allows users to freely create and edit Web page content using any Web browser. Wiki supports hyperlinks and has a simple text syntax for creating new pages and crosslinks between internal pages on the fly.

Wiki is unusual among group communication mechanisms in that it allows the organization of contributions to be edited in addition to the content itself.

Like many simple concepts, "open editing" has some profound and subtle effects on Wiki usage. Allowing everyday users to create and edit any page in a Web site is exciting in that it encourages democratic use of the Web and promotes content composition by nontechnical users.

Historical Note. The first ever wiki site was created for the Portland Pattern Repository in 1995. That site now hosts tens of thousands of pages.


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Future Trends in Distance Learning

Improved Design, Delivery, Knowledge Transfer

- Next Level Androgogy/Pedagogy
- Multiple Learning Style Experiences
- Increased application of interdependent learning/teaching
Future Trends in Distance Learning

Advanced Experiences

- Multi-media
  Visual, Aural, Tactile, Experiential

Today, “flat” Virtual Reality (IR) capitalizes on the power of computing resources to visually establish context better than ever. Example:

http://www.panoramas.dk/

True Virtual Worlds are the amalgamation of the inhabitants and for some can provide a sense of reality that f2f human interaction on Earth does not.

Example: http://secondlife.com/
May 30, 2007
Future Trends in Distance Learning

Increases in:

“Game-based” Learning

Interactivity with other people & things (Social Computing)

Interactivity with smart machines

Intuitive Technology

Artificial Intelligence

Singularity
THE SINGULARITY IS NEAR

“Ray Kurzweil is the best person I know at predicting the future of artificial intelligence. His intriguing new book envisions a future in which information technologies have advanced so far and fast that they enable humanity to transcend its biological limitations—transforming our lives in ways we can’t yet imagine.”

—Bill Gates

New York Times Best Seller
CBS News: One of the best of the new Fall books
Amazon: One of the best science books of 2005
NY Times: 13th most blogged about book of 2005
Resources

Social Computing

http://research.microsoft.com/scg/

Artificial Intelligence - AI

http://www.cs.berkeley.edu/~russell/ai.html

Virtual Reality – VR

http://archive.ncsa.uiuc.edu/Cyberia/VETopLevels/VR.History.html

Singularity

http://www.rohan.sdsu.edu/faculty/vinge/misc/singularity.html
http://www.singinst.org/what-singularity.html
You Tube video summary

Changing environment

http://www.youtube.com/watch?v=6gmP4nk0EOE