Computers Are Your Future

Spotlight 7

Multimedia Devices

An example of how several seemingly divergent areas can be merged with multimedia technology.
Real Actors???

Or is it?
Clip Logging, Assembling, Transitions

Compositing

This is your view now

..with UglyVista Condo Village

Introducing Multimedia

- Multimédia - multisensory stimulators, or things that stimulate our senses of sight, sound, touch, smell, or taste

Automated presentation systems used to provide information to the public or employee training

Audio: MP3

- MP3 format
  - Reduces file size of sound files
  - Eliminates those frequencies that the human ear cannot hear
  - Record, store and play on computer
  - Downloadable
  - Stored on portable players

Audio: Digital Voice Recorders

- Digital Voice Recorders
  - Record voice and sounds to playback later
  - Built-in microphone
  - Stored on memory chip
  - Consider amount of storage and price
**Visual: E-Books**

- E-book is a book that has been digitized and distributed by means of a digital storage medium.
- E-book reader may be built only for reading e-books or a PDA.

**Visual: Digital Cameras**

- Digital camera is a camera that uses digital technology to store and display images instead of recording them on film.
  - Shot is stored in camera
  - Lens, shutter, viewfinder
  - CCD
  - Megapixel

**Visual: Digital Cameras**

- Images are stored using flash memory technologies.
- Photos can be downloaded to PC for safe-keeping.

**Visual: Digital Camcorders**

- Digital video saves full-motion images in digital format.
- Connect a digital video camera to computer through a USB or Firewire ports.

**Television and Computer Appliances**

- Portable Televisions and Jukeboxes
  - Carry multimedia wherever you go
  - Dual-band wireless connection
  - High-speed Ethernet port to receive and transmit data.
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Television and Computer Appliances

- Digital video recorders (DVR)
  - Similar to a VCR
  - Uses a hard disk
  - TiVo

- Computer Gaming Devices
  - Playstation
  - Xbox
  - Console
    - Similar to computer
    - Load and play games
    - Can be handheld
      - Game Boy

- Headsets
  - Wearable device that includes twin LCD panels
  - Create the illusion of walking through a 3-D environment

- Cave Automated Virtual Environment (CAVE)
  - 3-D glasses
  - Walls, ceilings, and floors display projected 3-D images

Multimedia Authoring Software

- authoring tools have their own proprietary programming language to write scripts
- Scripts are typically event-driven, (activated by the occurrence of some event)
  - Mouse movement,
  - Clicking the mouse
  - Pressing the Enter key,
  - timed sequences of events
  - completion of certain events, etc.

Popular Authoring Software

- HyperStudio, HyperCard
  - low-end authoring software with similar interfaces
  - allows only elementary animation
  - products are called stacks (of cards)

- Director
  - an animation software for the desktop
  - operates with a stage metaphor, products are called movies

- Authorware
  - A software application with user interaction
  - programming flowchart metaphor
  - can use products of other authoring software as components in its productions
Laying Out an Authorware Production