Faculty of Technology

University of Sri Jayewardenepura

Essay Quiz Video

Fundamentals of Multimedia

ITC2342

Lecturer,

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1. **What are the two (2) types of video editing techniques?**

    1. **Linear**
       In linear editing, editors access images and sound in a predetermined, ordered sequence. It's called "linear", regardless of how the original video was captured- whether it's a TV show, a YouTube video, or a smartphone – the content is in a linear format, meaning it must be accessed sequentially.

    2. **Non-Linear**
       In non-linear editing is a non-destructive video editing process. In this editing, original media files are not lost or modified during editing. It can make changes to video clips or other media elements from any point and work on the timeline in any order.

2. **Explain the two (2) types of video signals.**

    3. **Analog video Signal**

Analog video is transferred by analog signals. It contains the luminance (brightness) and Chrominance (color) of the image. Most TV still sent and received video as an analog signal.

A color analog video signal contains information about luminance (Y) and chrominance (C). When these parameters are combined into one channel, it is called composite video. Composite, which used to be the most common type of video signal in consumer video equipment, is typically delivered over a single cable with a yellow RCA-type connector.

Analog video may also be carried over separate wires in a cable, i.e. two channel S-Video (Y/C) and three, four and five channel component video formats. S-Video produces a slightly better image than composite, but component video provides the best possible analog image quality.

    1. **Digital Video Signal**

Digital video is transferred by digital signal. Digital video is digitisation of analog video signals into numerical format. By displaying a rapid succession of changing images on a display device, it gives the impression of full motion.

Without any additional hardware, a computer monitor can play back any video clip that is stored on a mass storage device. There are several hardware requirements for setting up a production setup for creating digital video. A computer with a FireWire connection, connections, a quick processor, lots of RAM, and a quick and large hard drive are just a few of the specifications.

3) What are the two (2) types of video compressions? Briefly explain them.

1. **Lossy compression**

Lossy compression is a data compression method that sacrifices some information to achieve an even smaller file size than lossless compression. When a file can afford to lose some data or when a lot of storage space needs to be "freed up," lossy compression is usually used.

An image file is made smaller and easier to handle, store, or send by lossy compression, which removes background data and approximates certain details. Uploading, downloading, saving, transferring, and storing images is made simpler by lossy compression. This can save a lot of time and space if you handle, edit, and share images every day.

2. **Lossless compression**

After decompression with lossless compression, the file data is restored and rebuilt in its original form, allowing the image to take up less space without affecting the picture quality in any discernible way.

Since the process can be reversed, it's also known as reversible compression. No data is lost. Because of this, smaller files can be transferred across the network more quickly using lossless compression. Because it reduces file size, lossless compression is also useful for file storage.