

VIDEO COMPRESSION

Compression :-

Compression is a reduction in size of Data in Order to Save Space or transmission type time. for the Data transmission. Compression can be performed on just the data contained or all the entire transmission unit depending on a no. of factors.

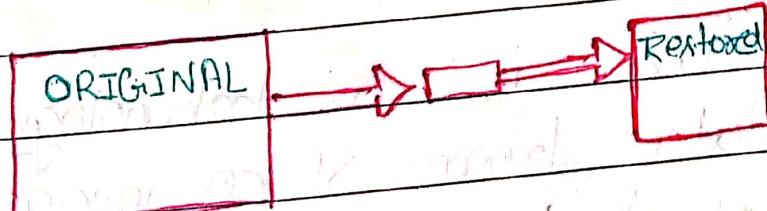
Data Compression

In term of Computer the Only limitation of multimedia presentation is that to Consume a lot of Storage Space. In Order to reduced the Storage Space the multimedia Component must be Compressed. Compressing a file refers to the process of cutting down the size of the file by using Special Compression technique. There are two type of

Compression technique one used:-

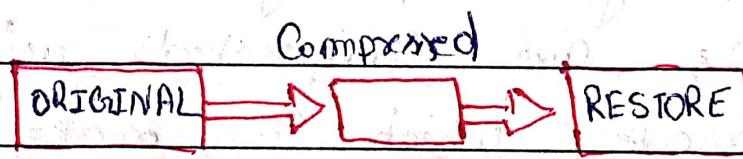
(i) LOSSY COMPRESSION :-

Lossy Compression means that the compressed file has less data in it than the original file in some cases this translates the lower quality files because information has been lost hence the name. However you can lose a relatively large amount of Data before you start to notice a difference. Lossy compression makes up for the loss in quality by producing comparatively small files for e.g. DVDs are compressed using the mppeg-9 format, which can make files 15-30 times smaller, but are still good to stand to DVDs on having high quality pictures.



(ii) LOSSLESS Compression :-

Lossless Compression is a Data Compression technique that Reduce the size of the file without permanently discarding any information of the Original data. An image that under gone lossless compression is the compressed the original data can be reconstruct exactly. Exactly bit by bit i.e identical to the original image before it was compressed.



How Compression Work :-

Compression is a technology that removes the data from video image, to reduce size of the data appears file. It is done into two way :-

(i)

Interframe

(ii) Intra frame

(i) Tintra frame :-
It removes duplicate data that appears within a single frame or for e.g. if large area of sky is same color of blue color only the value of one pixel need to be same along the location of where other identical pixel appeared in the frame.

(ii) Tinter frame :-
It locks for application information in frame that follow one another. As for e.g. in a scene with files the background not change at all between frame. In this case all of the data in the first frame is stored. In the next frame only the data has changed in store sent through away the system display the first frame than update it with just the change. Store data for the next frame.