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Image Compression and effect of quantizing Different Frequency Components

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Abstract - Image data compression is a very important problem for many emerging applications in the fields of visual communication and communication networks . Lossy image compression using transform coding provides better compression with negligible loss of visual quality and is adapted by many image standards including JPEG. In lossy image compression system, Quantization plays a main role in providing tradeoff between image quality and compression rate. This paper tells about quantizing various frequency components and their effect on the image quality and the compression rate .