

JPEG Implementation

Overview of Process

- 1. Discrete Cosine Transform of 8X8 blocks of Image
- 2. Quantisation of DCT coefficients
- 3. Encoding of DCT coefficients using lossless Huffman encoding

RESULTS

Original Image
Size: 63.711 KB

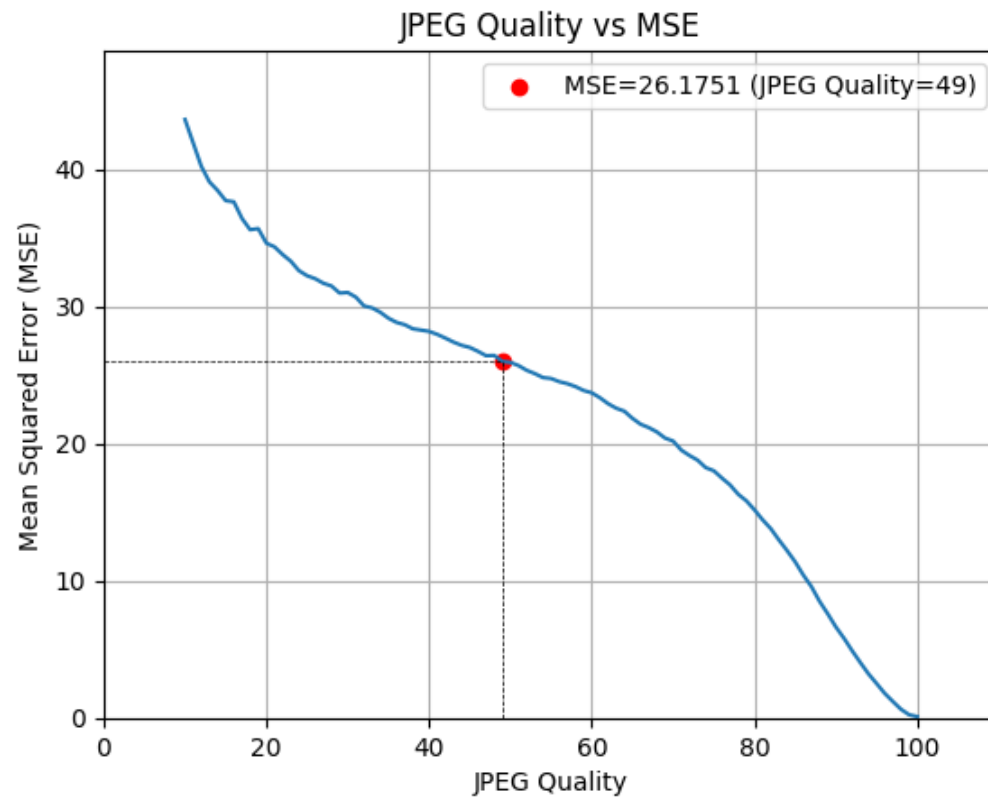


JPEG (Implementation)
Size: 17.849 KB



```
Size of the Original image file: 63.7109375 KB  
Size of the binary string: 12.701171875 KB  
Size of the compressed image file: 17.8486328125 KB  
MSE: 26.1751
```

MSE vs JPEG Quality (standard library function)



At quality=49 the MSE is same as the implemented JPEG function

FINAL RESULT

Original Image
Size: 63.711 KB



JPEG (Implementation)
Size: 17.849 KB



JPEG (Standard Function)
Size: 6.956 KB

