

Jpeg Steganography

Ali Ghaffarian

Table of Contents

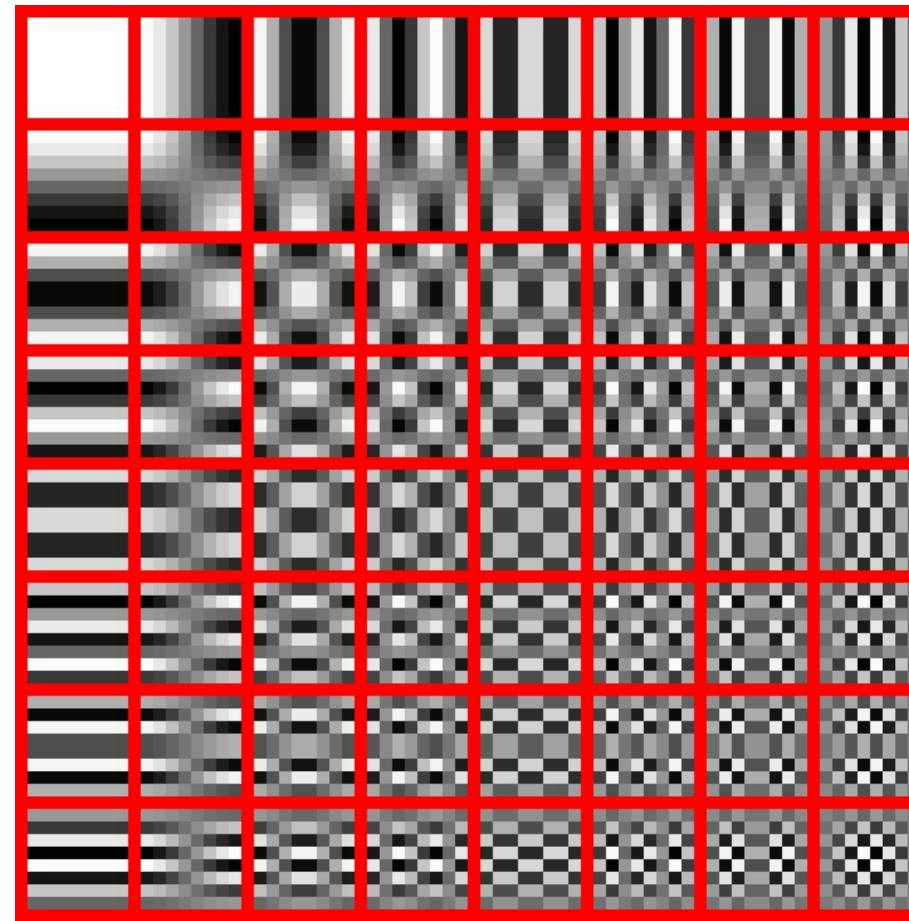
- Steganography
- Jpeg
- Discrete cosine transform
- DCT Tables
- My Approach
- Demo

Steganography

Jpeg

Brightness vs Colors

DCT Tables



My Approach

[[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]]



[[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 0 0 0]
[0 0 0 0 1 0 1 1]]

Structure of Data

```
Global_header {  
    uint4 length;  
    uint4 checksum;  
}  
  
Data_block {  
    char data[16];  
    uint4 checksum;  
}
```

F: 0, 1, 2, 3

C: Y



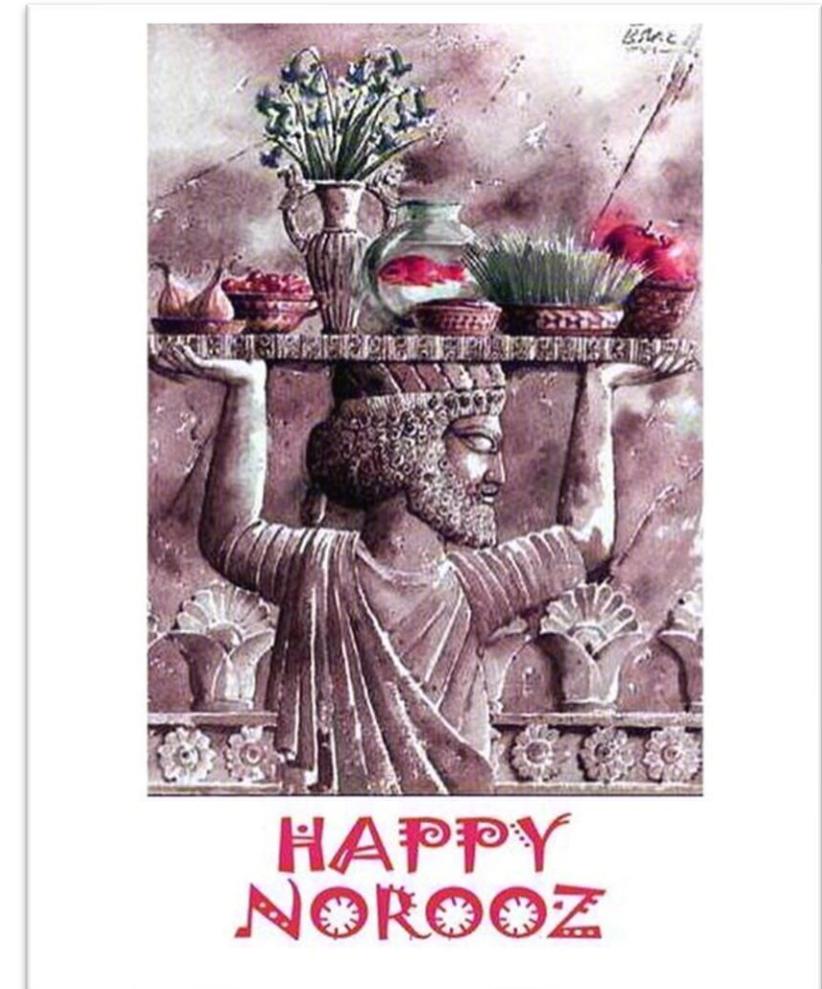
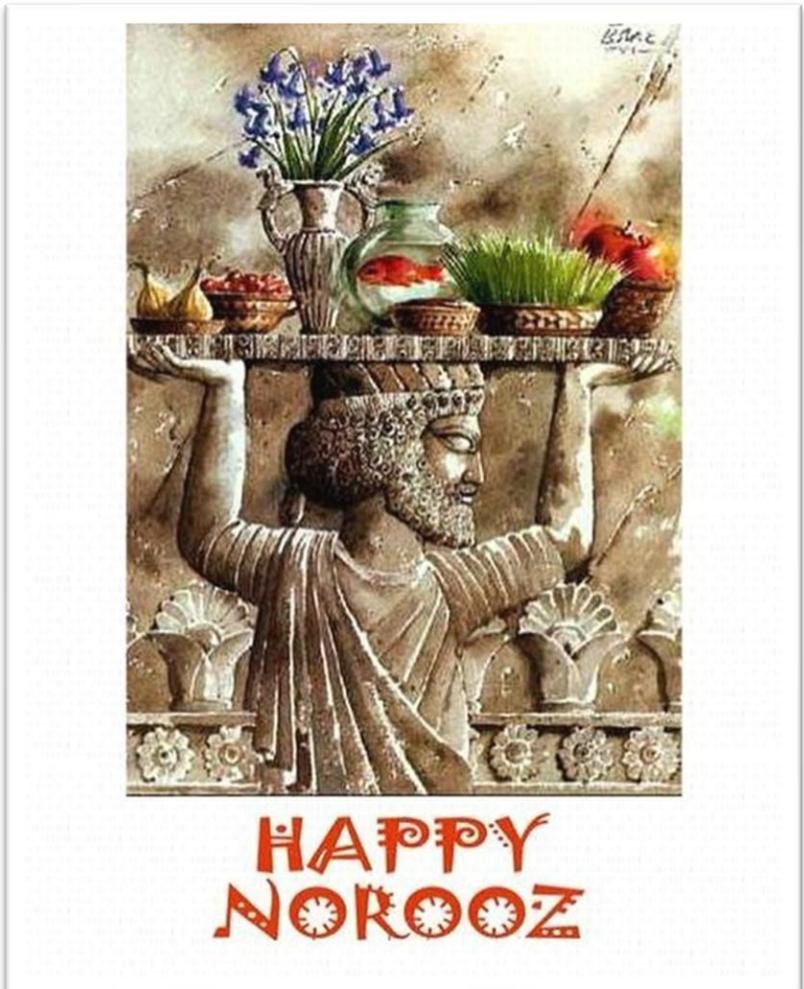
HAPPY
NOROOZ



HAPPY
NOROOZ

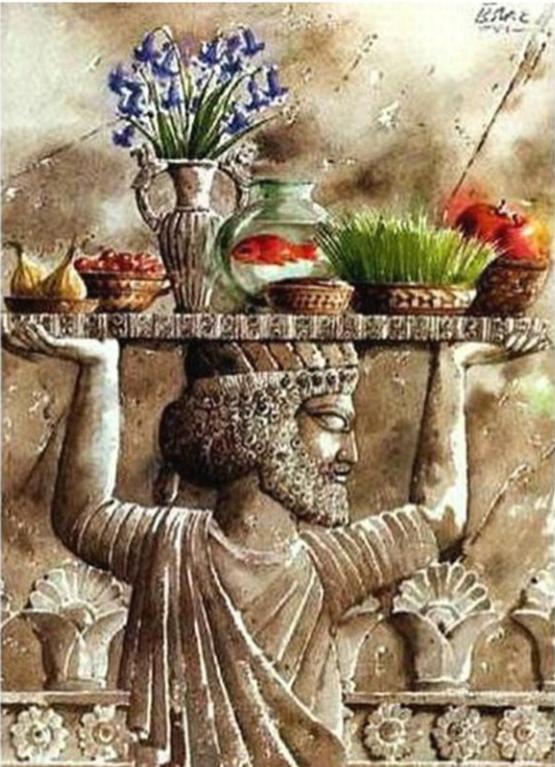
F: 0, 1, 2, 3

C: Cb

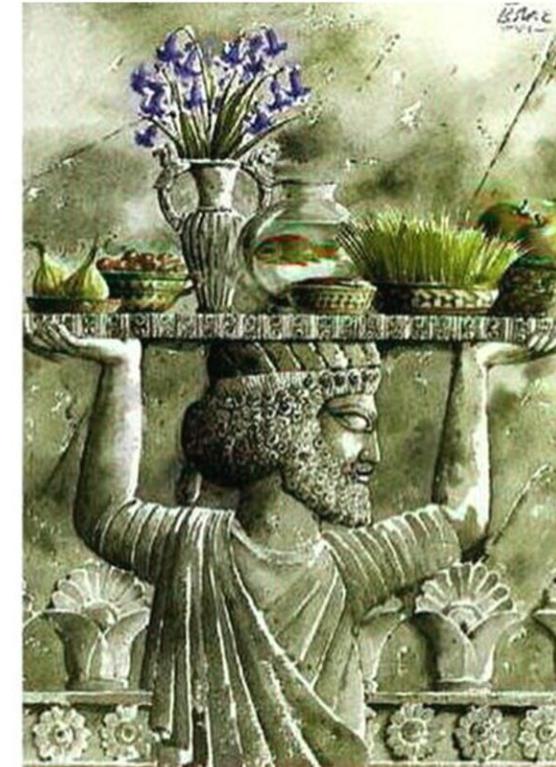


F: 0, 1, 2, 3

C: Cr



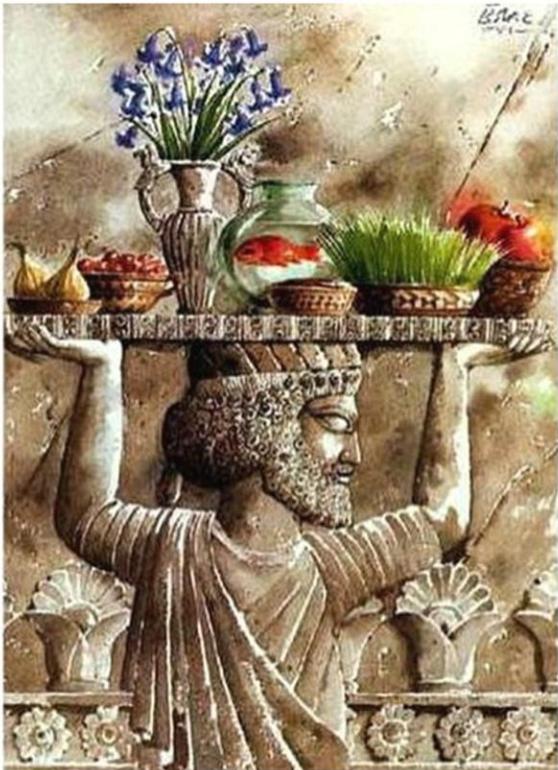
HAPPY
NOROOZ



HAPPY
NOROOZ

F: 1, 2, 3, 4

C: Y



HAPPY
NOROOZ



HAPPY
NOROOZ

F: 60, 61, 62, 63

C: Y

