Problem 3

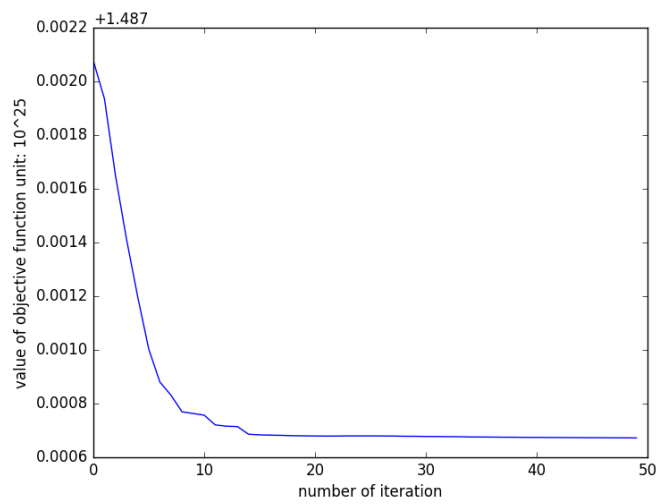value of objective function unit: 10^25

+1.487

number of iteration

the nose is more clear than other part. The part with more contrast will be better preserved.
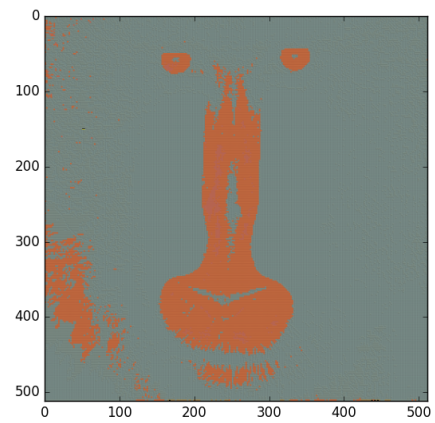
compression ratio = 6.3%

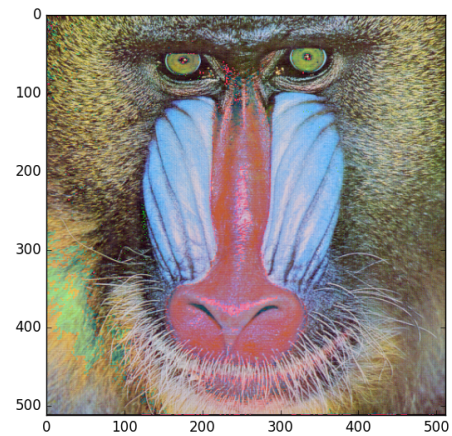absolute error is 0.158

```
n = 512.0;
M = 2;
k = 64;
```

$$\frac{k}{n^2} + \frac{Log[2, k]}{24 M^2}$$

0.0627441

compressed

difference