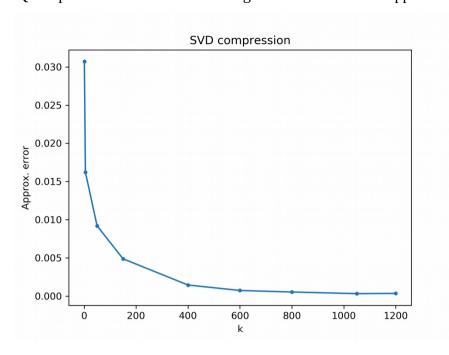
Q1: A plot includes curve describing the relation of k and approximation error.



Q2: Analyze the rank of R channel of the provided image and explain how you analyze. A2: The rank of R channel is approximately 754. By increasing the value of k and compute the approximation error on R channel, the approximation error when k=754 is 0.000994, which is smaller than the specified threshold 0.001(0.1%). Therefore, the rank of R channel is about 754.

Q3: Plots in page 6 but on G channel.



Original G channel

