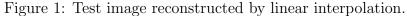
Part 1: Linear Interpolation

The reconstructed test image (hope.jpg) is shown as figure 1.





The template asked for map of squared differences, I interpreted this as mean squared error (MSE):

$$MSE = \frac{1}{N} \sum_{i,j} (Y_{ij}^c - \hat{Y}_{ij}^c)^2$$

where Y_{ij}^c is the reconstructed pixel value of color c, \hat{Y} denotes the original image, and N is the total number of pixels. MSE and maximum pixel error is listed in table 1.

Table 1: Errors of provided images.

| Image | MSE | max pixel error |
|---------|-----|-----------------|
| Crayons | | |
| Tony | | |
| Iceberg | | |

Part 2: Freeman Method

Next section.

Part 3: Images of my choice

Some image choices.

Part 4: Bonus

Bonus!