How do the program works:

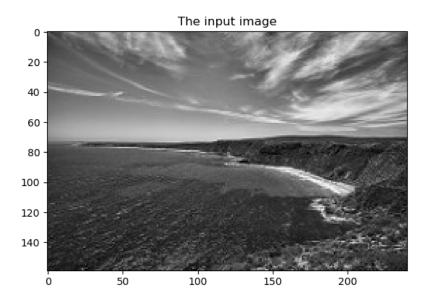
The program basically works as following.

Import the image

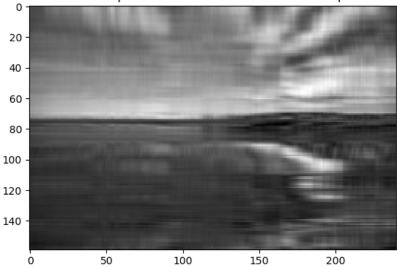
For each percentage:

- 1. Calculate SVD of the image
- 2. Calculate min(n,m) * percentage. Here denoted as N
- 3. Reconstruct the image with the first N rows of singular values and N columns of singular vectors
- 4. Calculate the norm of reconstructed image

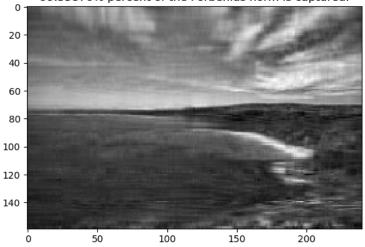
The results are shown as followed



Top 5% of the singular values. 99.25313% percent of the Forbenius norm is captured.



Top 10% of the singular values. 99.55870% percent of the Forbenius norm is captured.



Top 25% of the singular values. 99.84732% percent of the Forbenius norm is captured.



Top 50% of the singular values. 99.97275% percent of the Forbenius norm is captured.

