Brian Dinh
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Homework 1
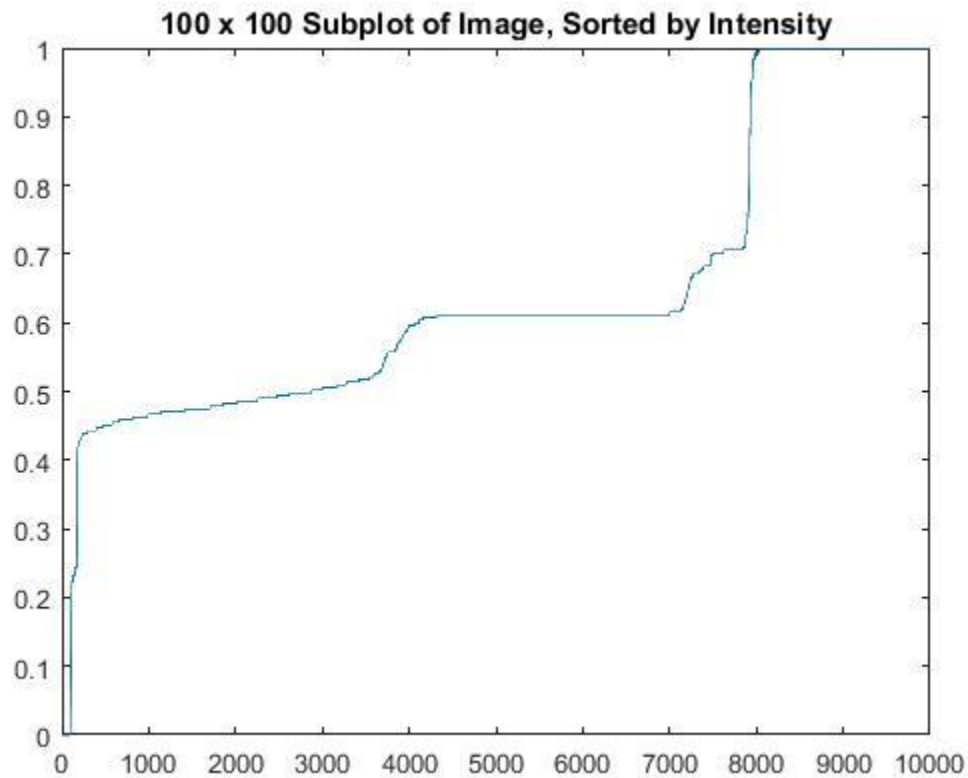Homework 1 Answers and Images

3a. Vector *a* containing the values 5 to 15
    Vector *b* containing every third value of *a*

3b. Vector *f* containing the values 1501 to 2000
    Vector *g* containing the indices of all values of *f* that are greater than 1850
    Vector *h* containing the values of *f* using the indices that are in *g*

3c. Vector *x* containing 10 entries of 22
    Scalar *y* which is the sum of the elements of *x*

3d. Vector *a* containing the values 1 to 100
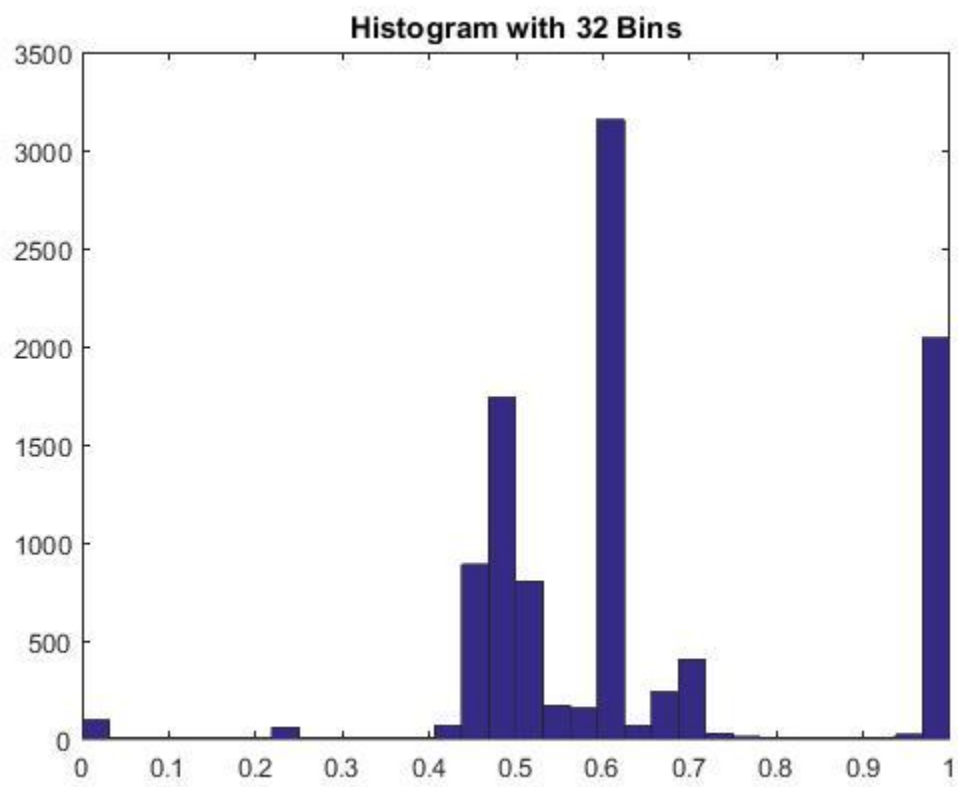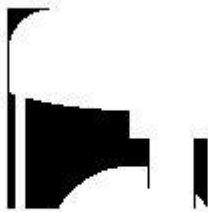   Vector *b* containing the values 100 to 1

Image chosen for #4:

4a.

100 x 100 Subplot of Image, Sorted by Intensity

4b.

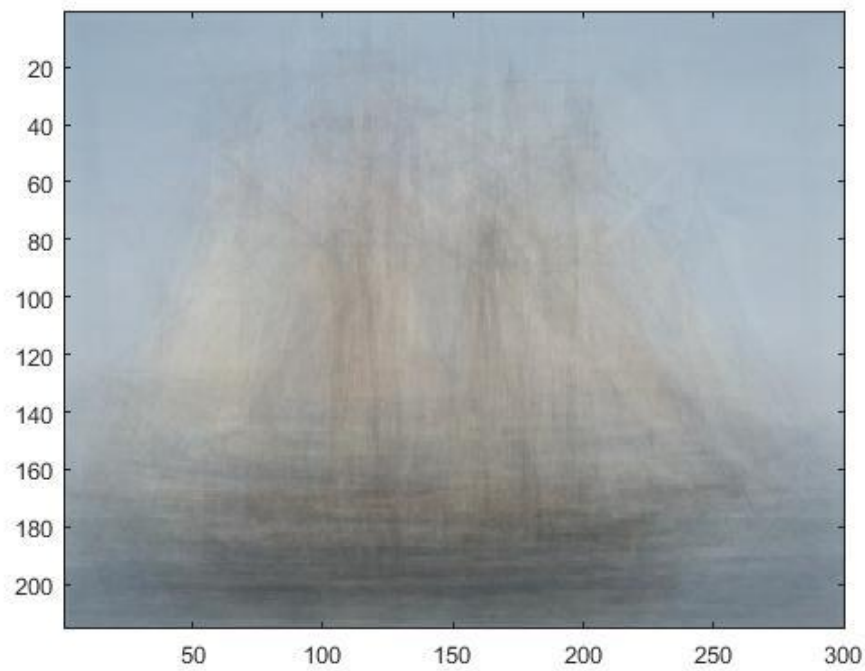Histogram with 32 Bins
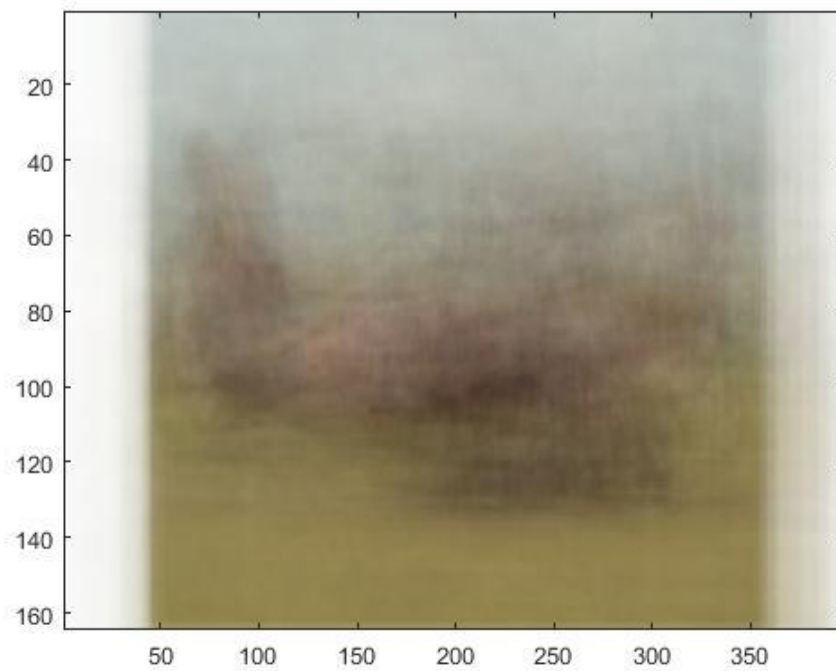
4c.
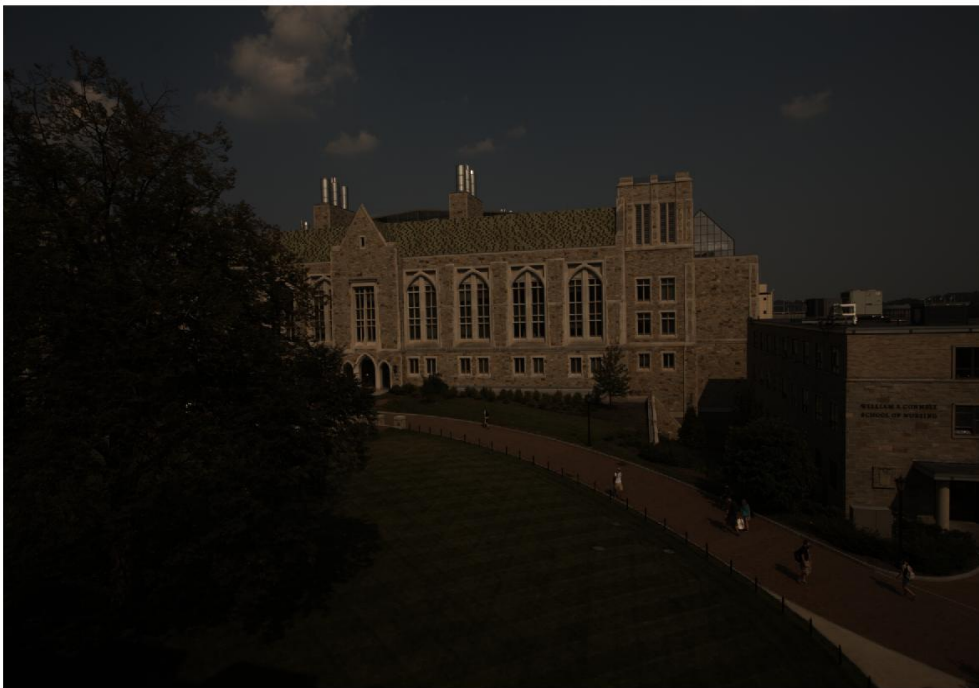

4d.

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5. Set 1

Set 2

The images (boats and planes) appear to average this way because in the original images the objects were all frames in the same way, with similar backgrounds. The averaging ended up looking like all the pictures were just overlayed on top of each other.

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6.

The demosaiced image is not as bright as the jpeg because it hasn't gone through digital post processing yet. Namely, it is missing the gamma correction step, which is responsible for the photo's luminance values.