**Lab 2 Report**

1. My distance metric was user ages and average rating per user of documentary movies.
2. The question I wanted to answer was how the age of a person affects their affinity toward documentaries and thus a suggestion towards their affinity to learn about different subjects in a more straight-forward format.
3. I chose my K by determining a good number of divisions among the range of ages in the population. In this case the relative range of ages was between 10 and 70 so I thought K=10 would be appropriate.
4. I analyzed my results by outputting them to a text file called output.txt. The movielens map reduce produced the appropriate centroid coordinates representing the centers of the clusters with the x variable representing a person’s age and the y variable representing a person’s average documentary rating. With these centroids we can now repopulate the data accordingly, similar to the repopulating of the jpg image with the color pallete.
5. The insights I gained from the analysis were that people start to enjoy documentaries more and more until they reach the age of 30 and then their affinity begins to decrease.