

## HW2: Problem 3

Ian Dover

### 1 Read and display the image:

The rose on ice image:



Figure 1: Rose on ice image.

### 2 Part 1

#### 2.1 K-means Clustering: 2 Clusters

Image split into two clusters:

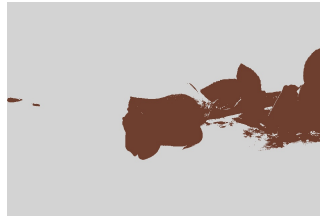


Figure 2: Image with K-means Clustering: 2 Clusters.

#### 2.2 K-means Clustering Histogram: 2 Clusters

Histogram of the image split into two clusters:

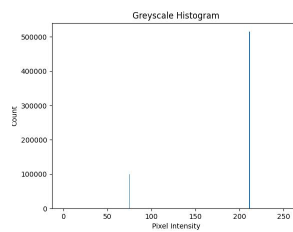


Figure 3: Histogram of Image with K-means Clustering: 2 Clusters.