Lecture 8 Project

1. In the COLOR image, “RGB.jpg”, find the hidden message.

1-1. Load and show RGB.jpg. What do you see?

1-2. Separate and show each RGB channels.

1-3. Find a hidden message. (Hint: RGB channels are NOT the same. Try subtracting each channel.)

2. Convert the negative to positive picture.

2-1. Load and show "neg2.jpg".

2-2. Separate and show each RGB channels.

2-3. Reverse color components. (Hint: each color has intensity range, 0- 255)

2-4. Generate positive picture using 2-3 results.

2-5. Alternatively, you can use *imcomplement* function

3. Red roses in gray background

3-1. Load and show "redrose2.jpg".

3-2. Using a 'roipoly' function, select a ROI mask for rose. Then, selected ROI.

3-3. Using a 'mahalanobis' distance, select all the red roses. Display the selected rose mask.

3-4. Show the roses selected in color.

3-5. Convert background into gray scale image. Then show.

3-6. Using 3.4 and 3.5, create red roses in gray background.