

Analysis:

This is a program which loads a directory of images and analyses the contents for pixel data. The Manhattan distance method is used to find the distance between histograms of pixel color and intensity; Manhattan distance is also used to find the distance between the texture features energy, entropy, and contrast. Relevance feedback has been included and can be used on the combinations color-code and texture; color-code and intensity; and color-code, intensity, and texture features. The results of the analysis method are displayed on the "results" window.

Design:

I have designed two classes, one for pixel analysis, one for the image viewer GUI and comparison calculations.

Usage:

You can open this program by typing "run ImageViewer" in the ipython client, by double clicking the file ImageViewer.py, or by typing "python ImageViewer.py" in the source directory.

Screenshots:

Image 01.jpg: Energy:

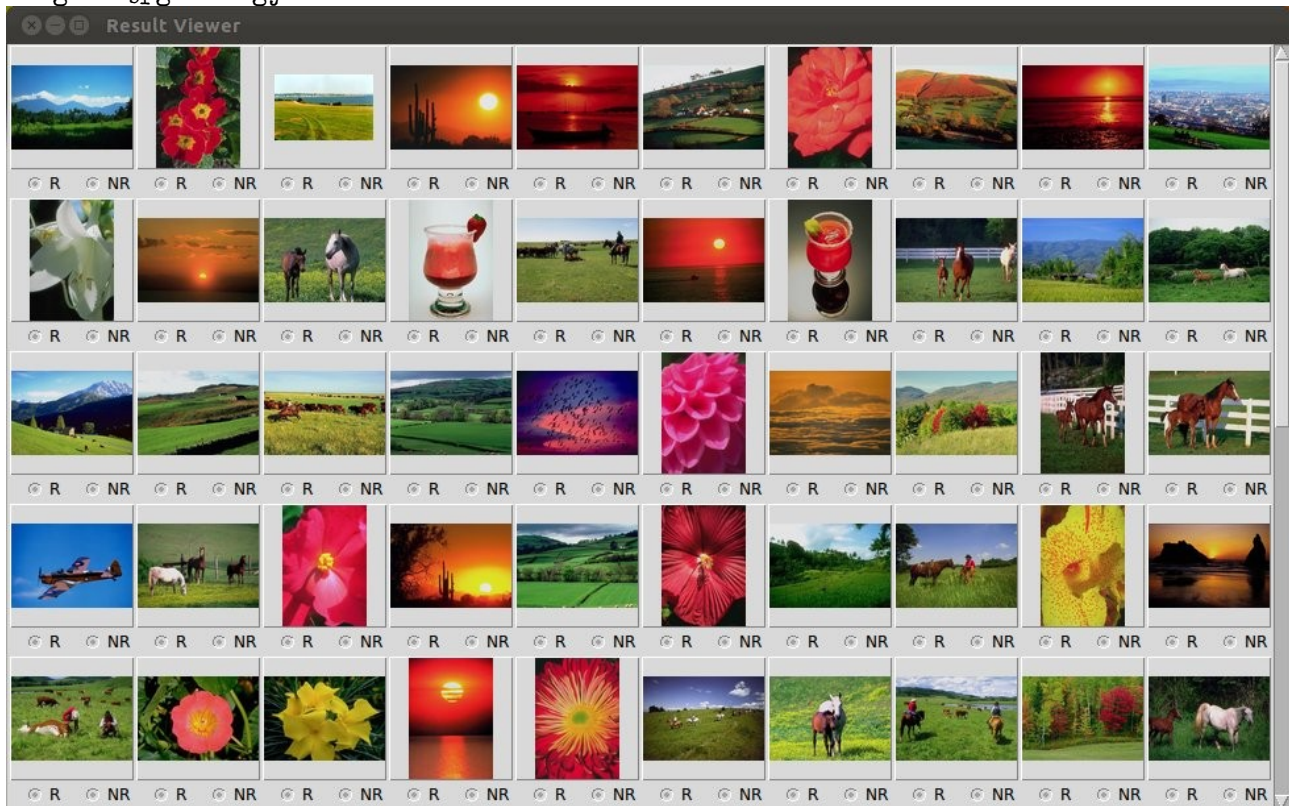


Image 01.jpg: Entropy:

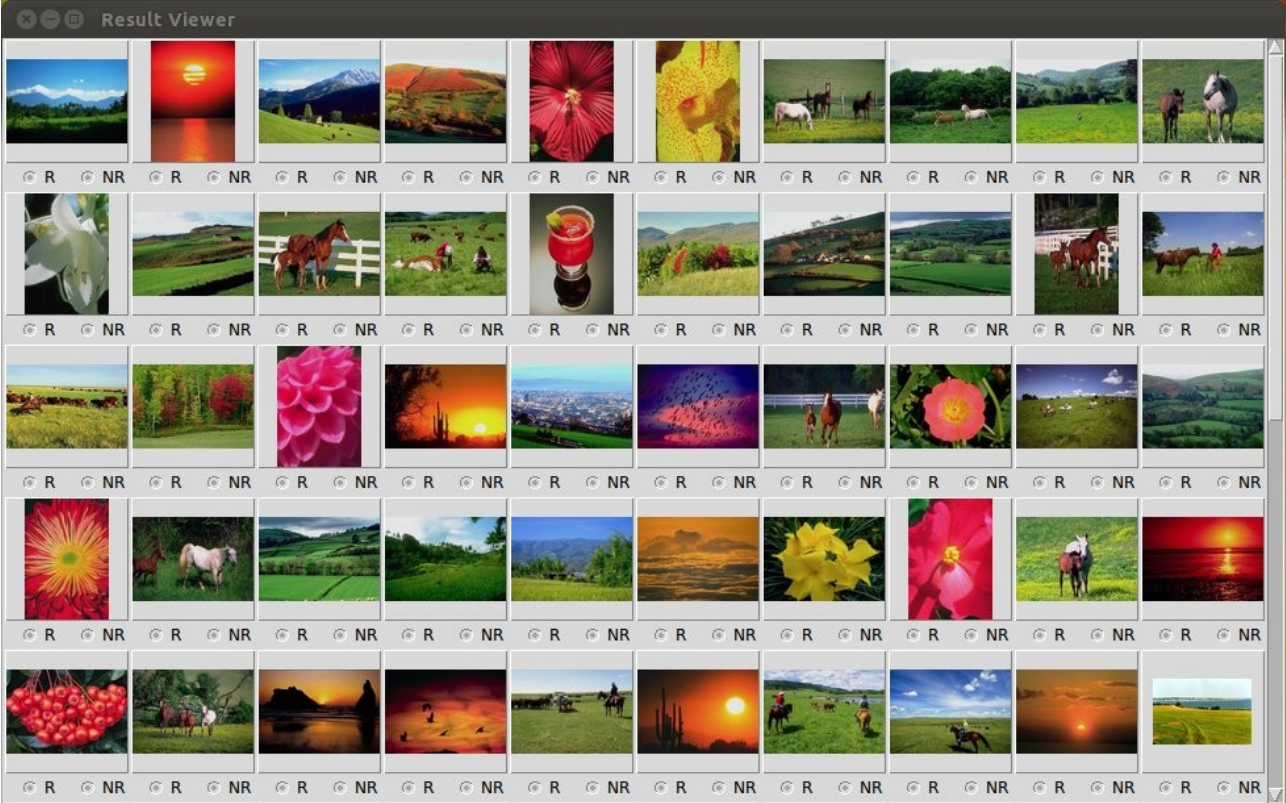


Image 01.jpg: Contrast:

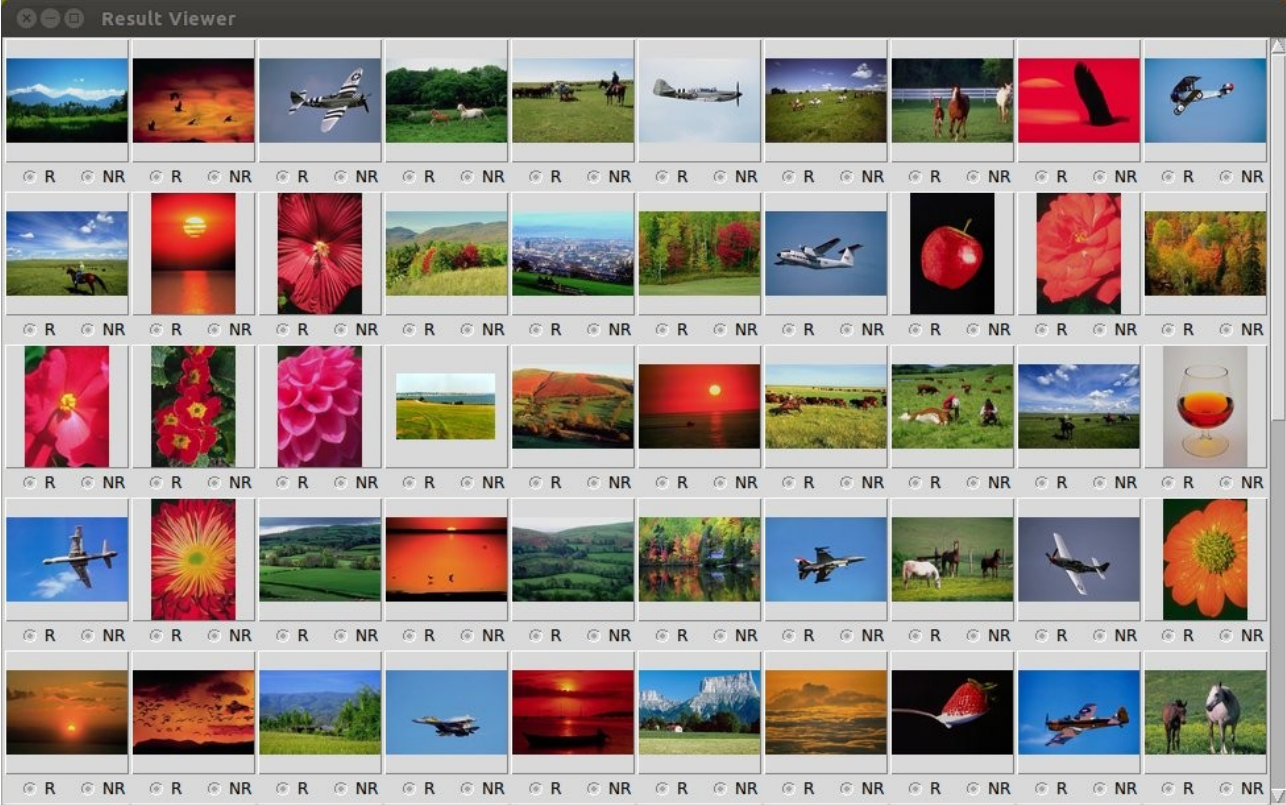


Image 01.jpg: Color-code and texture features:

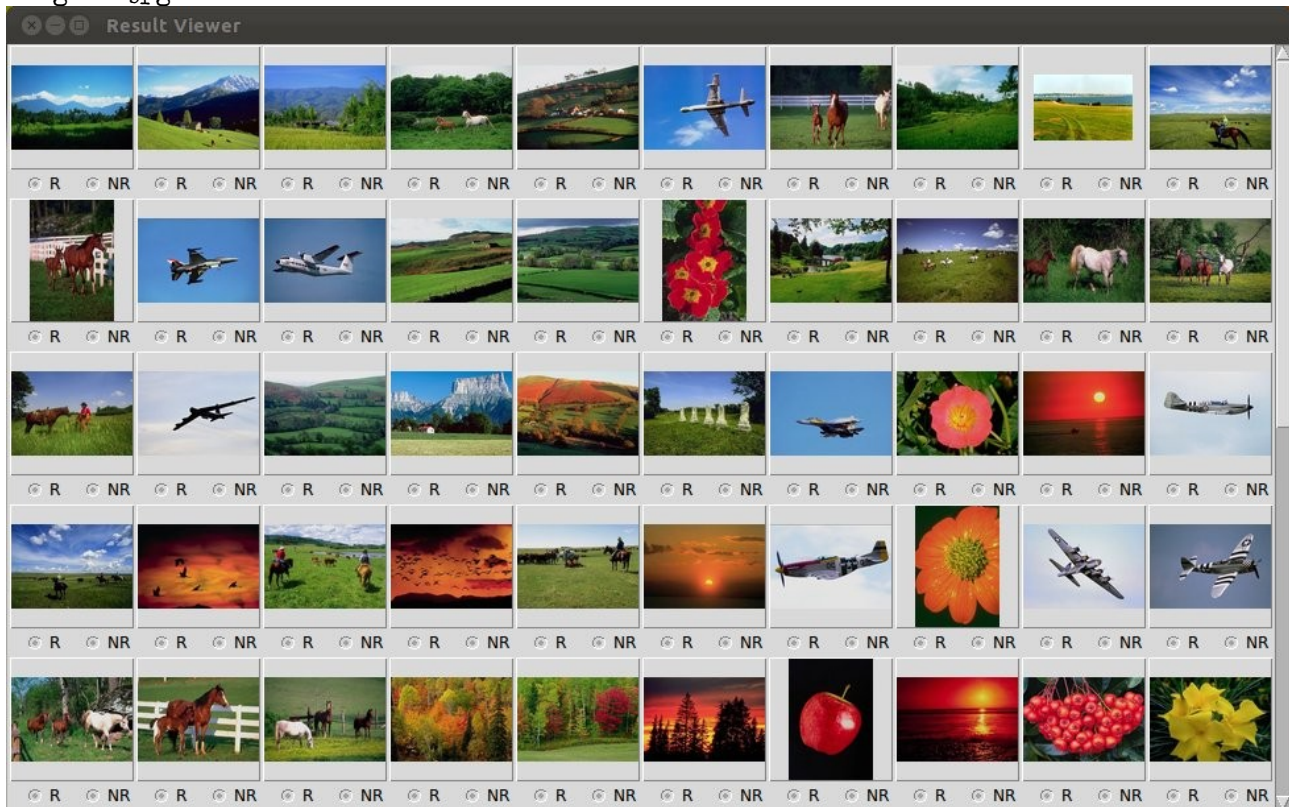


Image 01.jpg: Color-code and texture features relevance feedback #1:

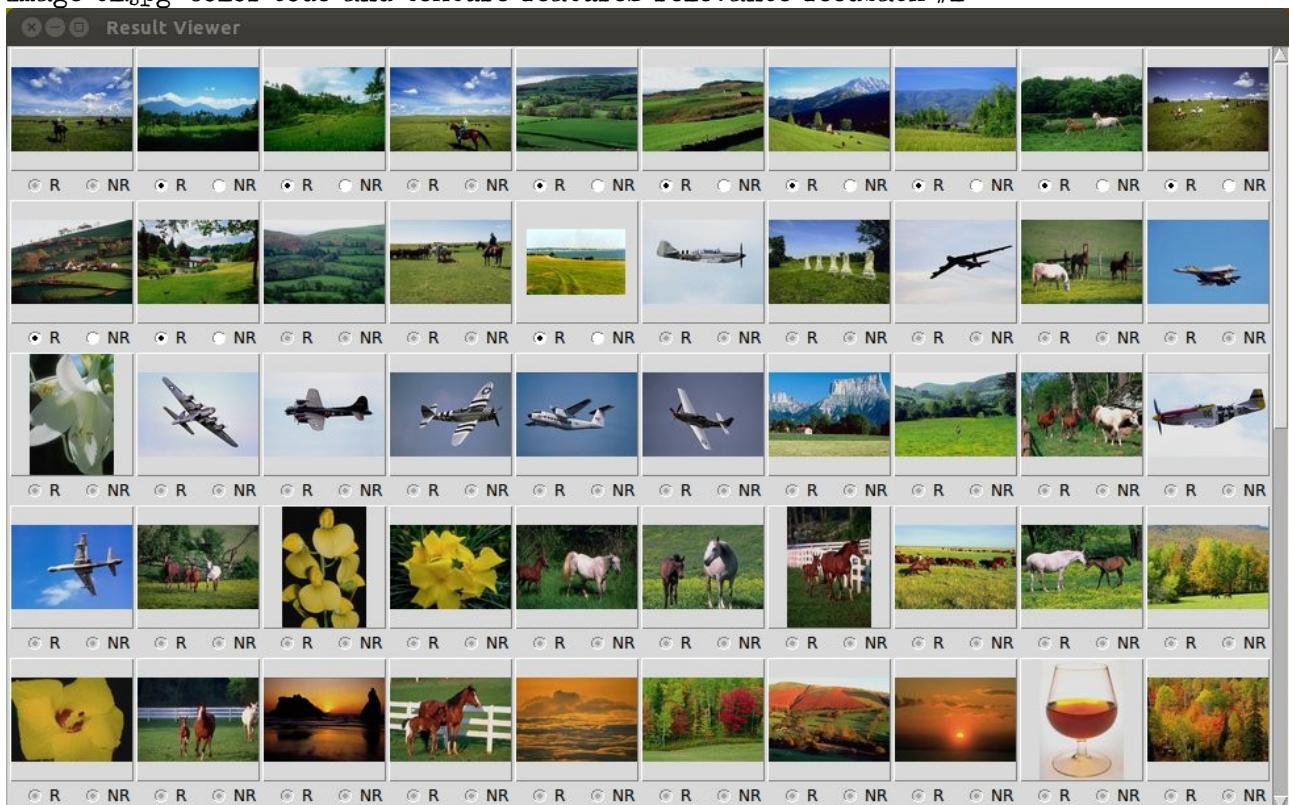


Image 01.jpg: Color-code and texture features relevance feedback #2:

