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CSS 490 Spring 2017
Assignment 2

How to run your program:

1. Double click CBIR.py if you are using Windows
    a. This requires Python 2.7 and Numpy to be installed, please install this library from here: http://www.lfd.uci.edu/~gohlke/pythonlibs/#numpy

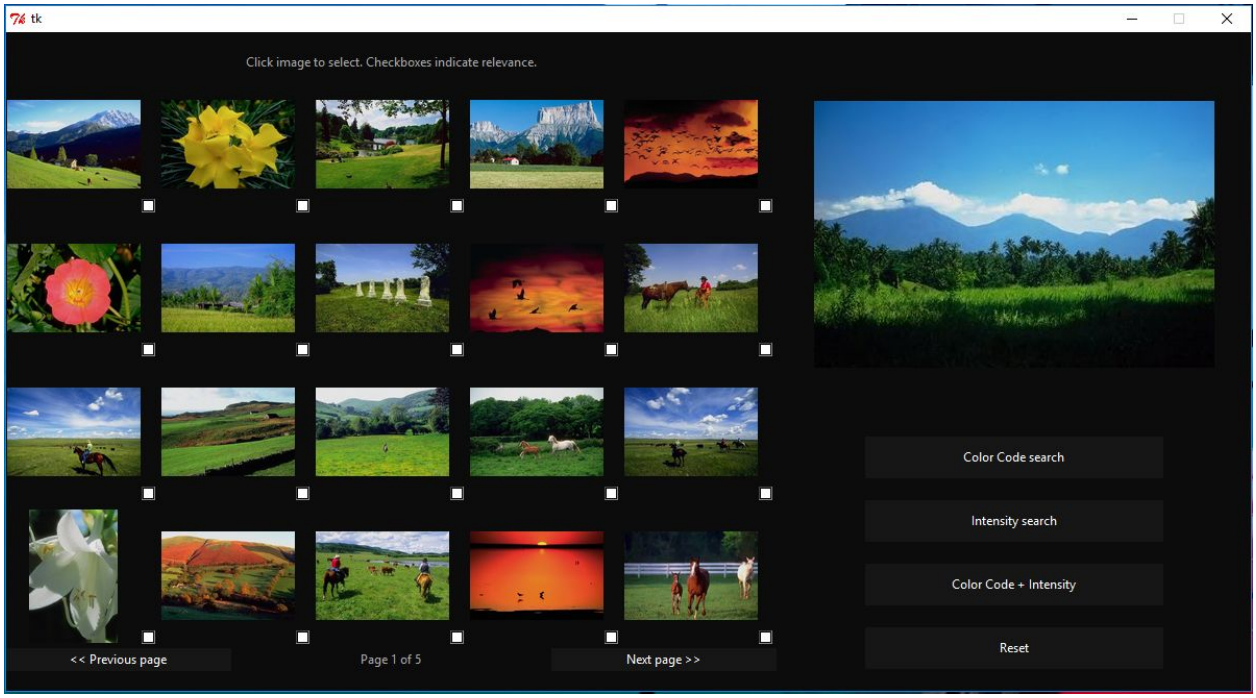
How to use your system with step-by-step instructions:

1. Once the system is started, the GUI has a control panel and results window to navigate the image database.
    a. Select a query image by clicking on the desired image
    b. Color code search the currently selected image
    c. Intensity search the currently selected image
    d. Color code + intensity search with relevance feedback (not complete)
    e. Reset the information and GUI display
    f. Navigate between pages

2. Select check boxes to decide which image feature lists will be weighted as more important (not complete, had issue with weight values. Please see code softcopy to evaluate I tried to accomplish this)

Screen dumps to show the first page of retrieval results for query image 1.jpg using relevance feedback with first 3 iterations, and corresponding precision values for first page of results in each iteration

The screen dumps are not correct except for the initial search. I spent a long time trying to figure out why the weighting algorithm was not working. I have narrowed it down to the actual weight updates, as the initial normalization seems to be working as the example displays, and the values for the standard deviation are correct as well. The biggest concern is the weights seem to increase at a very large rate when the standard deviation was very small, and this seemed to skew values that were not significant to the original image. Some of the values in feature values and weight are output to the console, so please look at that as well. If you have any idea why this did not work or have any advice, I would really appreciate that to figure this out. Thank You.


tk
Click image to select. Checkboxes indicate relevance.
Color Code search
Intensity search
Color Code + Intensity
Reset
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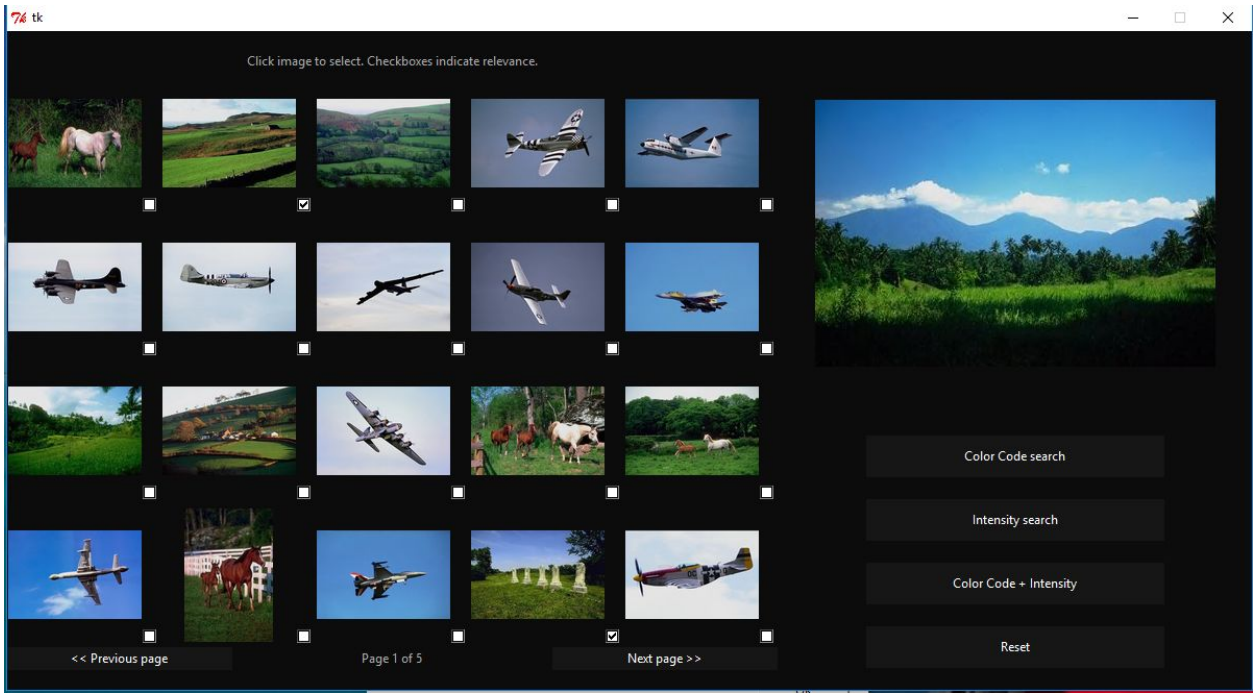
tk
Click image to select. Checkboxes indicate relevance.
Color Code search
Intensity search
Color Code + Intensity
Reset
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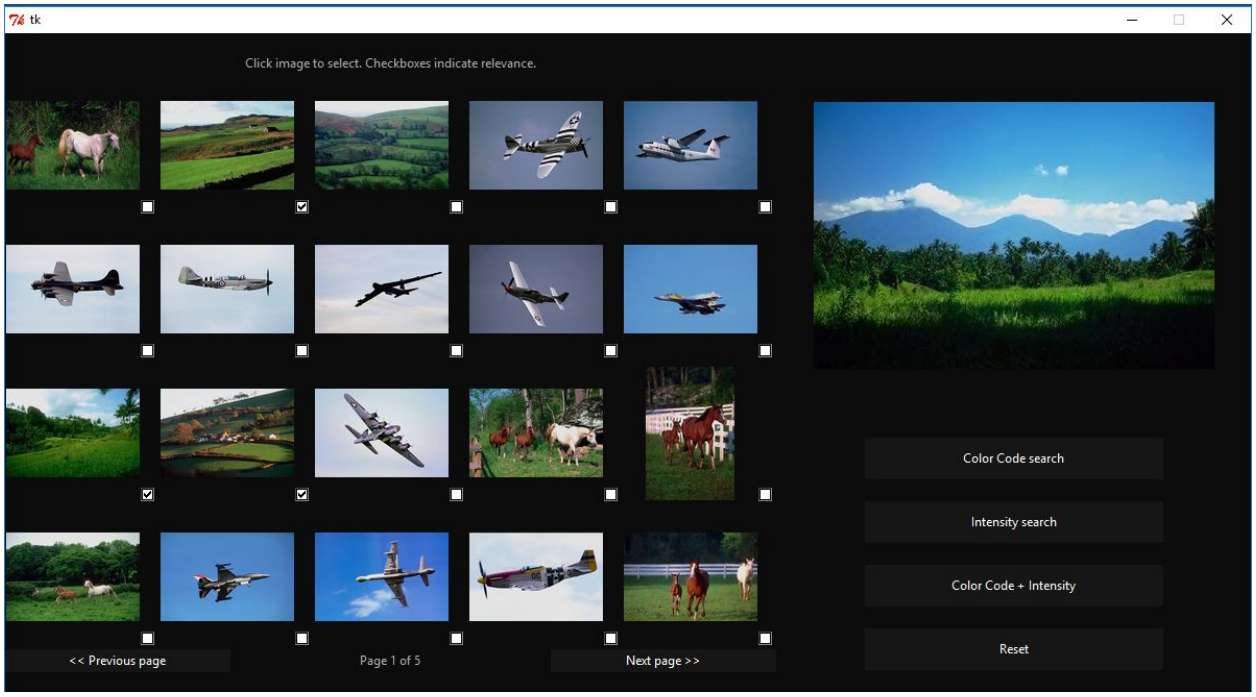
tk
Click image to select. Checkboxes indicate relevance.
Color Code search
Intensity search
Color Code + Intensity
Reset
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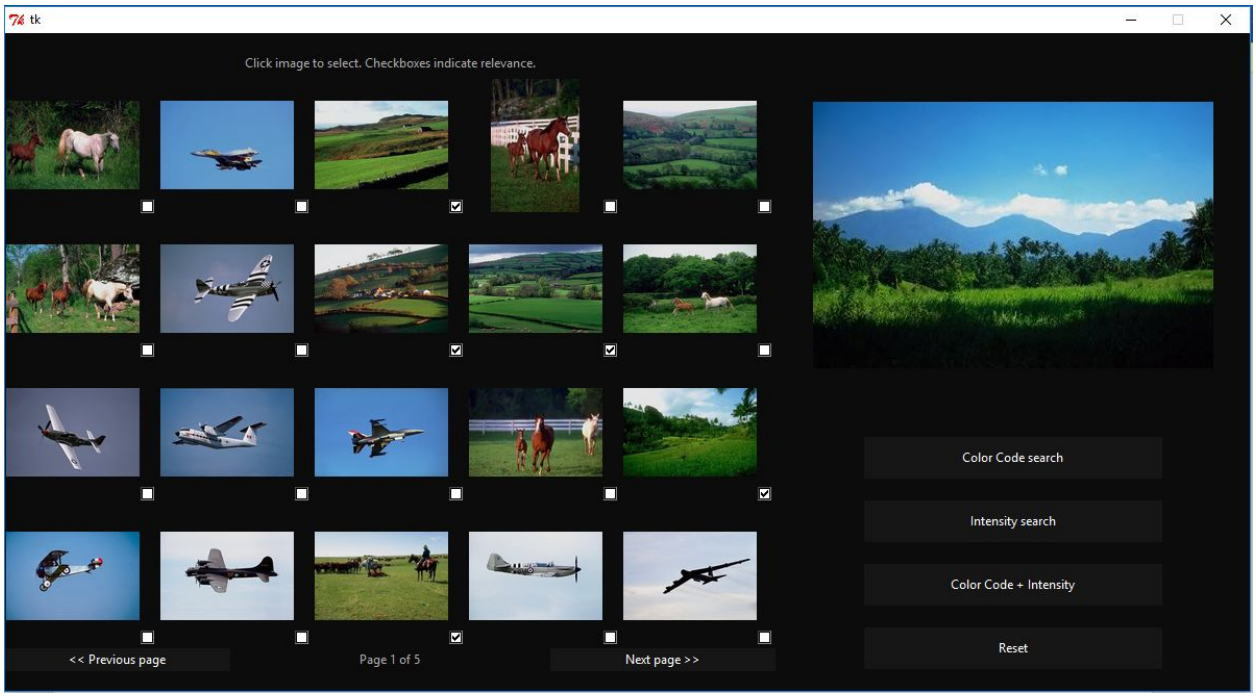
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