Lab 6

CST 205

Task 1 – Sunset Filter

At sunrise and sunset, the light you see has traveled a longer distance through the atmosphere. A large amount of blue and violet light has been removed as a result of scattering. As a result, the longwave colors, such as red and orange, are more readily seen.

In class, we saw how to increase the red channel for every pixel. Instead, for Task 1 create a quick sunset filter by decreasing the green and blue channel values. Try out a reduction of 30%, but feel free to play around with some other values.

(Please temper your expectations. Depending on the pictures you try, the result will likely **not** be amazing.)

Task 2 – Collage

In class we saw how to copy an image to a certain part of a blank canvas. For Task 2, pick three (small) images and place them on an image such that they do not overlap. (There can be space around the images. The background image can be blank or an image of your choosing.)

Extra – Dominant Color

For chroma key compositing, it is useful to find the color that is most used in the image. How could you do this using Python? (Try it first without using other libraries, but feel free to explore.)

You can find both the dominant color and the dominant pixel.

Submit all code and images used and provide comments to explain your process.