**Desaturation Write-Up**

I decided to use the color space YCbCr. This color space functions by storing a color as three values: the luminance Y, the blue relative to the green Cb, and the red relative to the green, Cr. The only value I needed from this color space was the Y. I took a little bit of time to debug the equation to get the desaturated pixel because I decided to put it all in one line, but outside of that, it really was not difficult.

Desaturation in order from least to greatest S

A view of the earth from space

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