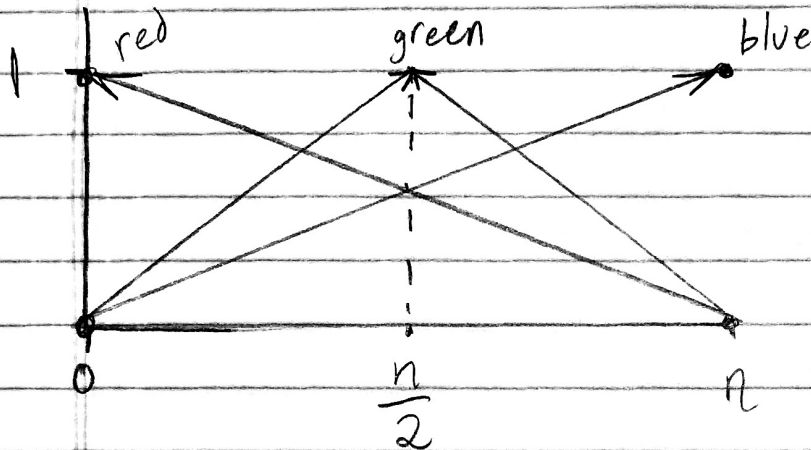


Matt Reigada



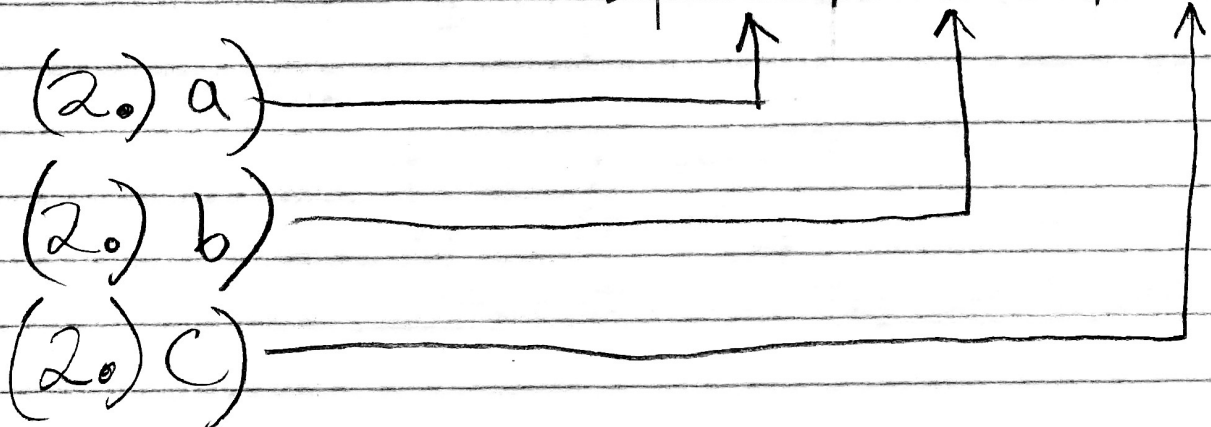
(1) The center column of this image would appear light green.

(2)

Estimated HSI Image

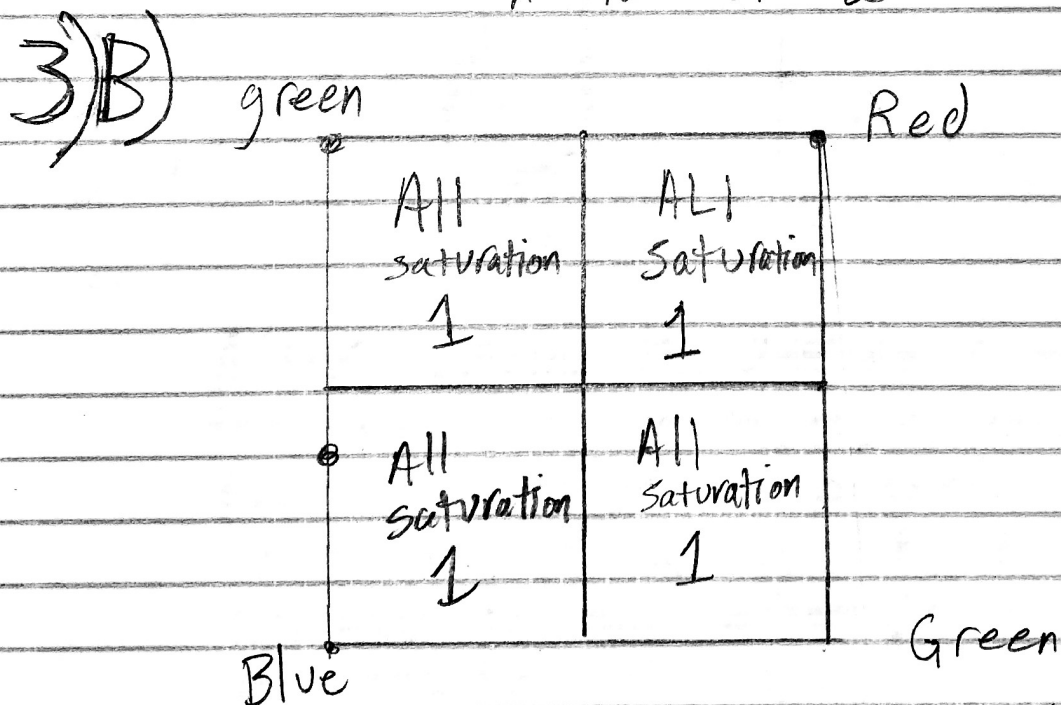
0-255 Greyscale Components

Region		(a) Hue	(b) Saturation	(c) Intensity
Black	$\{\}$	0	0	0
Red	$\{R\}$	0	255	85
green	$\{G\}$	102	255	85
Blue	$\{B\}$	204	255	85
Yellow	$\{R, G\}$	51	255	170
Cyan	$\{R, B\}$	153	255	170
Magenta	$\{G, B\}$	255	255	170
White	$\{R, G, B\}$	0	0	255



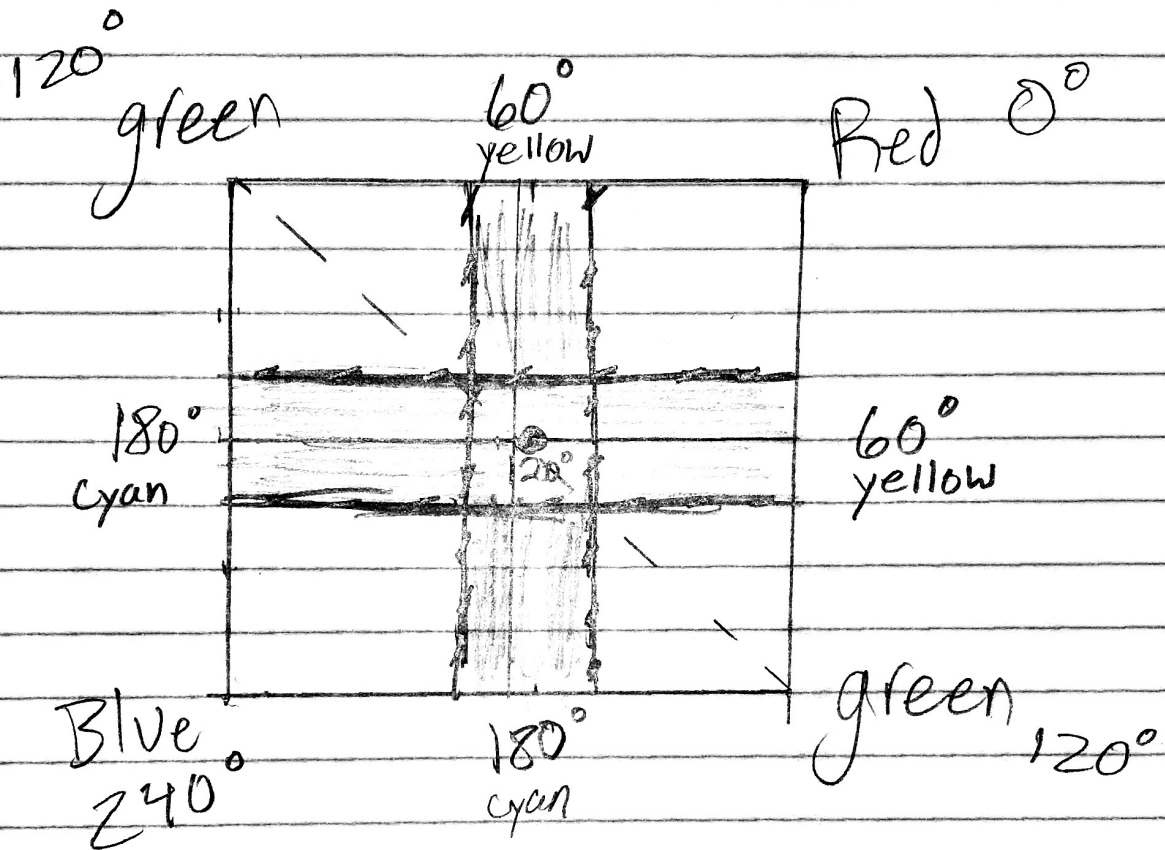
(3) A) All Component Images will see An 'S' Component of 1 in their HSI representation, As well as an Intensity component of $\frac{1}{3}$

- The green components will have A Hue of 120°
- The red component will have A Hue of 0°
- The blue component will have A hue of 240°



The Average Blur will have no effect upon the saturation components since they are all identical

(3) c)



After applying the Average filter over the image's Hue values a transition from Red to yellow to green will be seen on the top and Right edges. Likewise on the bottom & left edge A transition from green \rightarrow cyan \rightarrow blue will be seen. These transitions will all take place continuously over the Arms of a cross with arms of width equal to the averaging kernel width. The center of this cross will be green