

Q1

I tested 2 different fruit images and 1 car image.

Whenever I try class histogram equalization, opencv histogram equalization and linear scaling in xyz color space. It changes color of window area to green.

Class histogram are the worst because there was too much noise, next is opencv histeq and lscl was the best among xyz color space.

XYZ_Iscl

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XYZ_histeq

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XYZ_classhisteq



XYZ_Iscl

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XYZ_histeq

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XYZ_classhisteq



XYZ_Iscl

XYZ_histeq

XYZ_classhisteq



Q2

Linear scaling in Luv space is way better than in xyz space

Luv_Iscl



Xyz_Iscl



Luv_Iscl



Xyz_Iscl



Luv_Iscl



Xyz_Iscl



As you can see, there is not much differences in Luv_lsl and Xyz_lsl gives color changes to green.

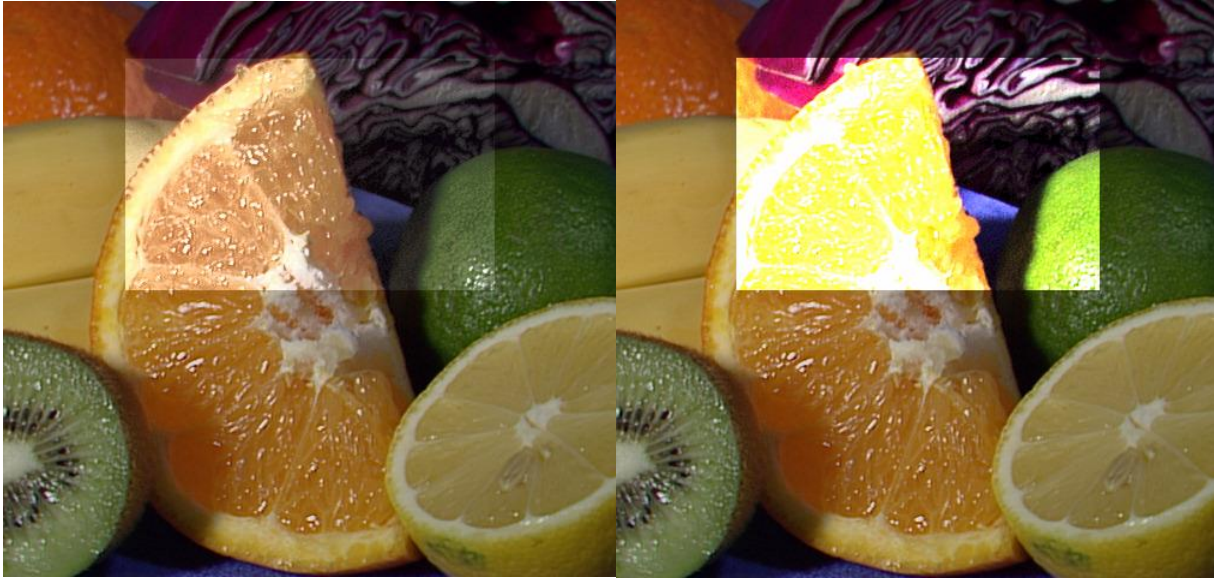
Q3

Among 4 histogram equalization programs, the best one for luv space is using our formula.

But, in xyz space, opencv histogram equalization was little bit better than our formula.

Luv_class_histeq

luv_histeq



Xyz_class_histeq

xyz_histeq



Luv_class_histeq



luv_histeq



Xyz_class_histeq



xyz_histeq



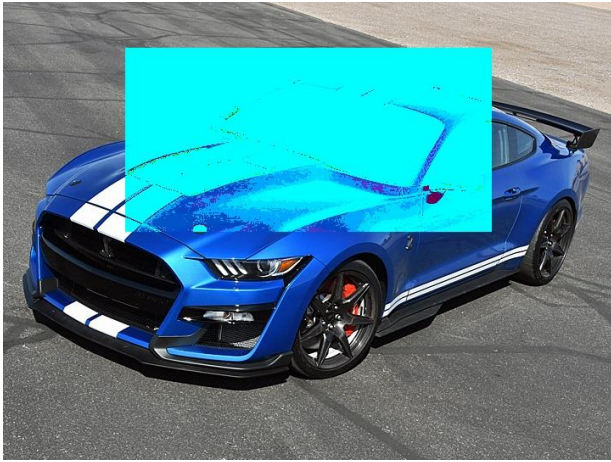
Luv_class_histeq



luv_histeq



XYZ_class_histeq



xyz_histeq

