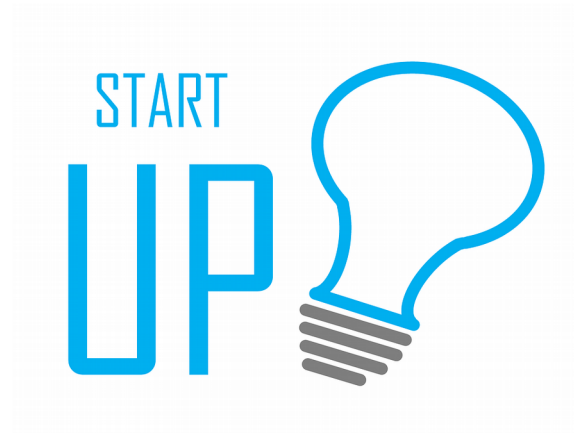


Less Data to Train

Scenarios where you can encounter Less Data



Medical Field



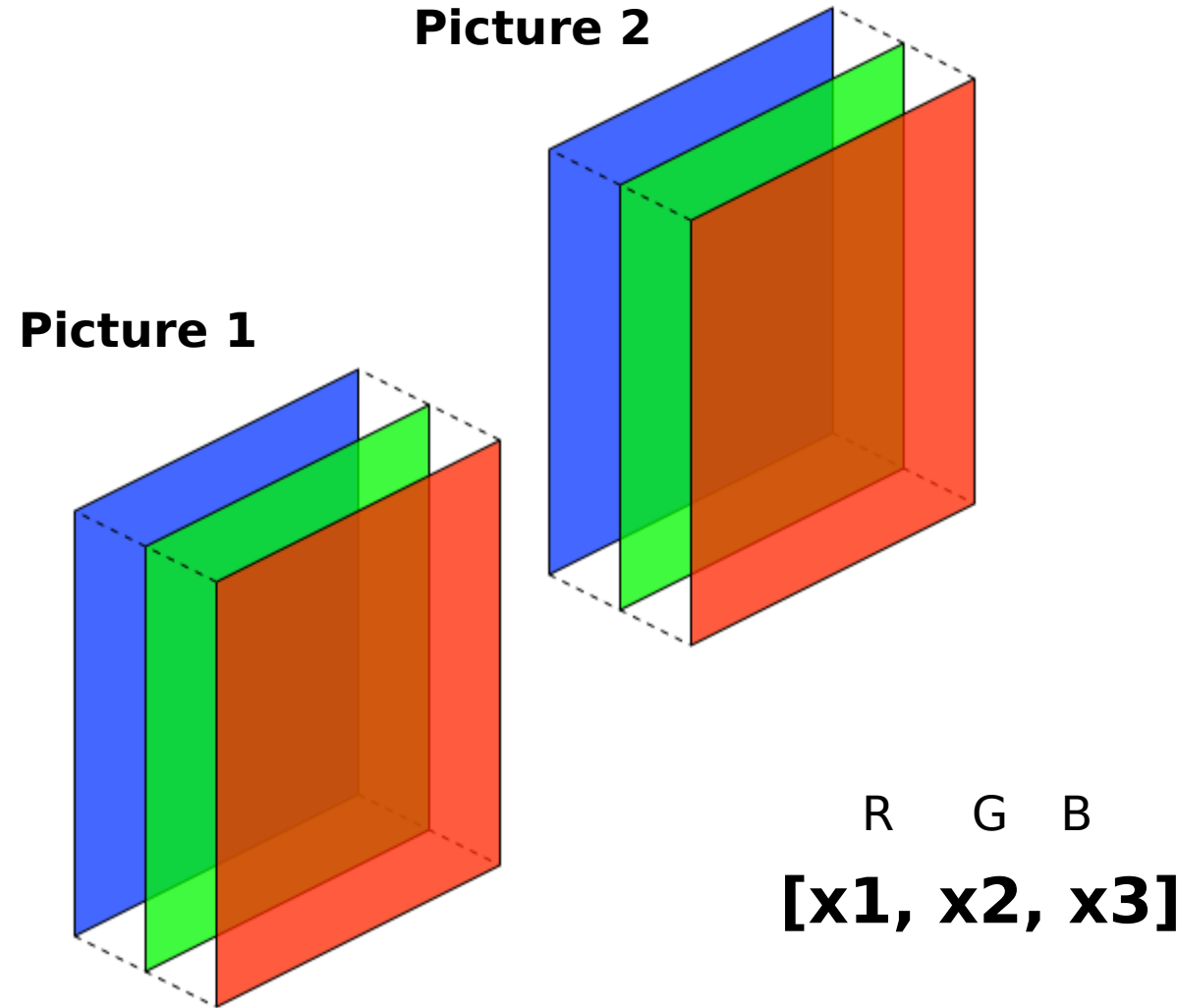
Startup



Competitions

Solution : Augmentation

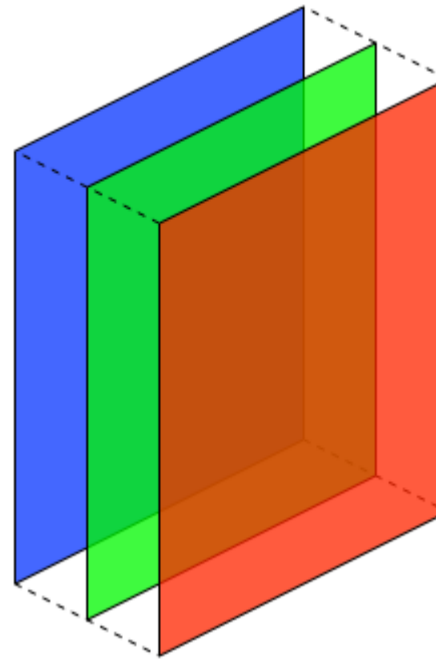
1. featurewise_center



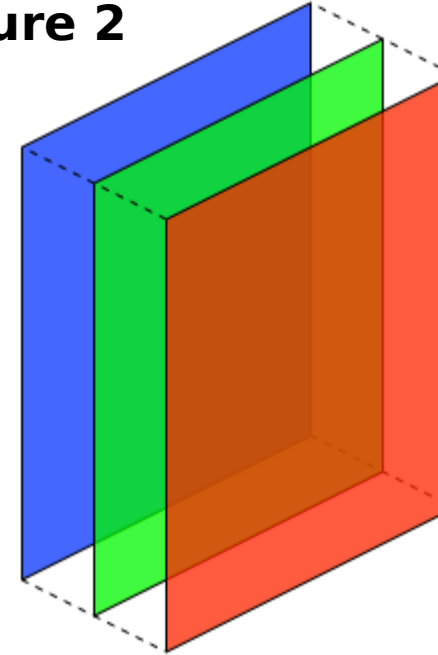
Solution : Augmentation

2. samplewise_center

Picture 1



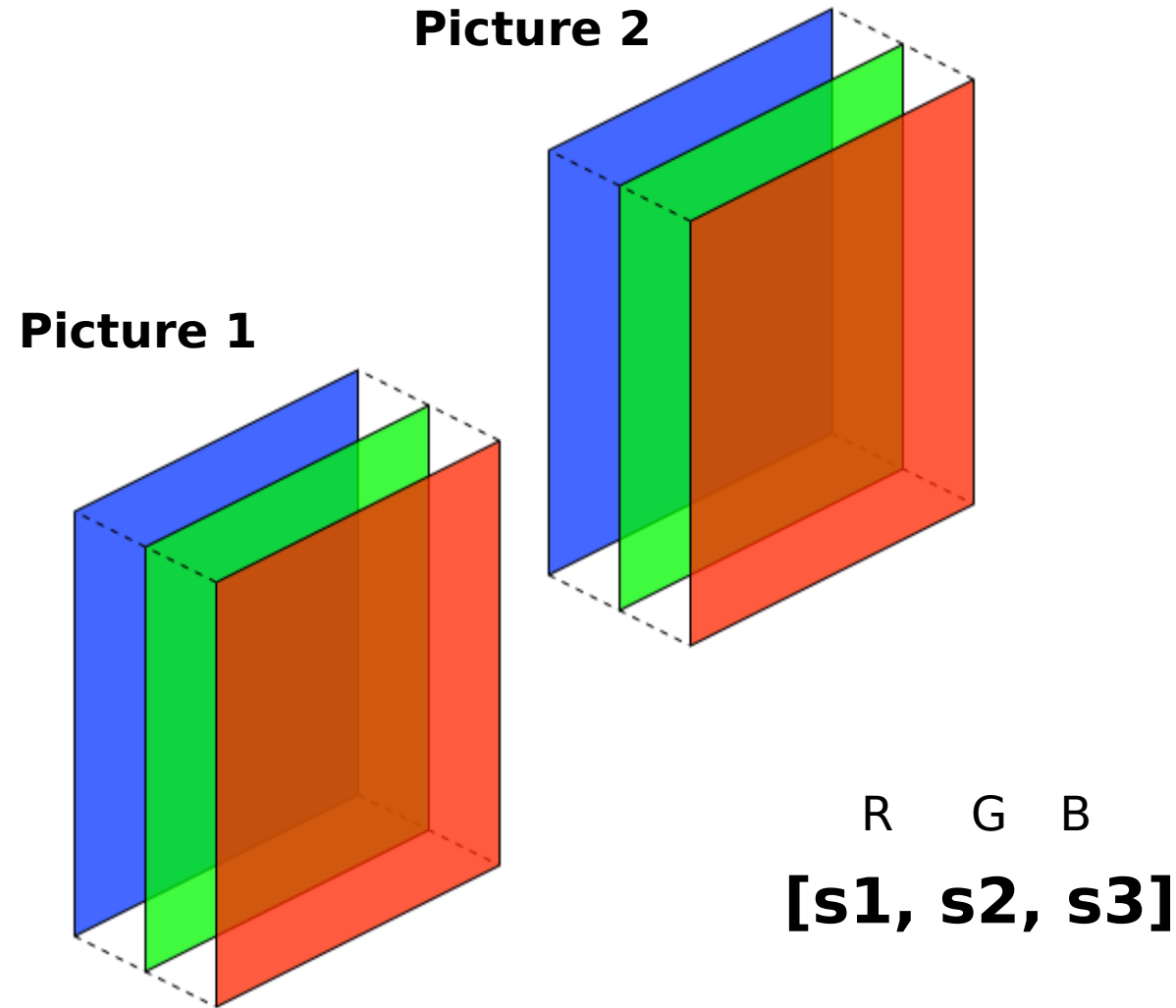
Picture 2



Samplewise(batch)
mean
[x]

Solution : Augmentation

3.
featurewise_std_normalization

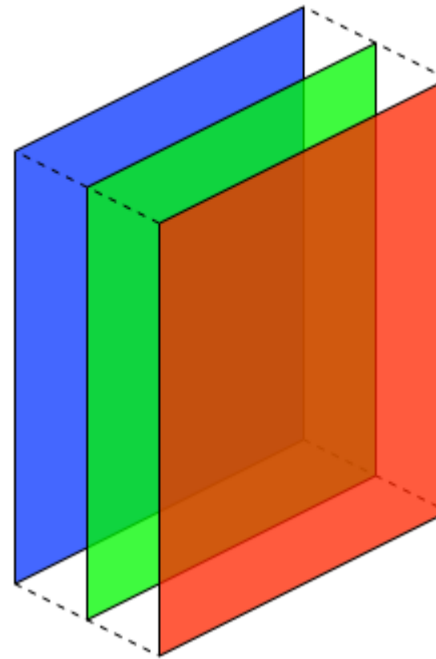


Solution : Augmentation

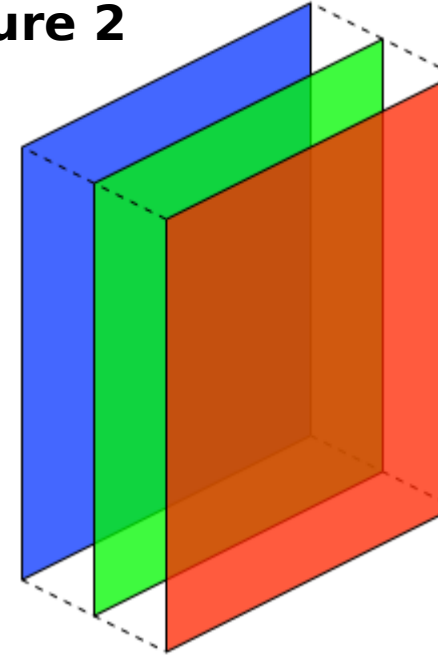
4.

samplewise_std_normalization

Picture 1



Picture 2



Samplewise(batch)
std
[s]

Solution : Augmentation

5. rotation_range



Solution : Augmentation

6. width_shift_range



Solution : Augmentation

7. height_shift_range



Solution : Augmentation

8. shear_range



Solution : Augmentation

9. zoom_range



Solution : Augmentation

10. horizontal_flip



Solution : Augmentation

11. Vertical flip



Solution : Augmentation

featurewise_center

height_shift_range

samplewise_center

shear_range

featurewise_std_normalization

zoom_range

samplewise_std_normalization

horizontal_flip

rotation_range

vertical_flip

width_shift_range

Thank You