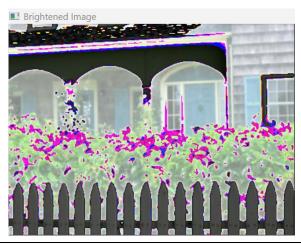
Computer Vision HW3

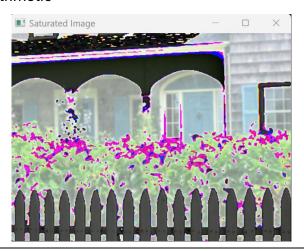
1. Torch image conversion

Torch image shape: torch.Size([321, 433, 3])
Torch image dtype: torch.float32
Torch Image pixel dtype: torch.float32

2. Brighten

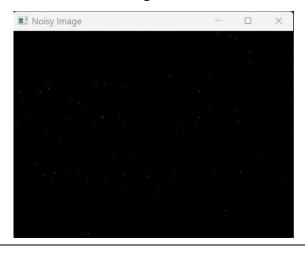


3. Saturation arithmetic



4. Noise

Note: OpenCV can't show float32 image, so I convert it to uint8.



5. Normalization image

Normalized mean: tensor([-1.0965e-16, -1.4047e-16, -3.0832e-17], dtype=torch.float64 Normalized std: tensor([1.0000, 1.0000, 1.0000], dtype=torch.float64)

6. ImageNet normalization

ImageNet normalized mean: tensor([0.3005, 0.4367, 0.3942], dtype=torch.float64)
ImageNet normalized std: tensor([0.4292, 0.4441, 0.4508], dtype=torch.float64)

7. Dimensions rearrange

Shape: torch.Size([1, 3, 321, 433])

8. Stride

stride output shape: torch.Size([305, 457])
dtype: torch.float32

sample: tensor(-1300.)