

ImageEnhancement

June 22, 2020

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[40]: from PIL import Image , ImageEnhance , ImageFilter
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[41]: # Function : Resizing Image
def resize(image):
    new_height = int(height/2)
    new_width = int(width /2)
    new_dim = (new_width,new_height)
    resized_img = image.resize(new_dim)
    return resized_img
```

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[42]: # Resizing the Image
filename = 'Sicily .jpg'
image = Image.open(filename)
width , height = image.size
print('Original Image Size : ' , width, height)
display(image)
resized_img = resize(image)
display(resized_img)
width , height = resized_img.size
print('Resized Image Size : ' , width, height)
```

Original Image Size : 1200 675



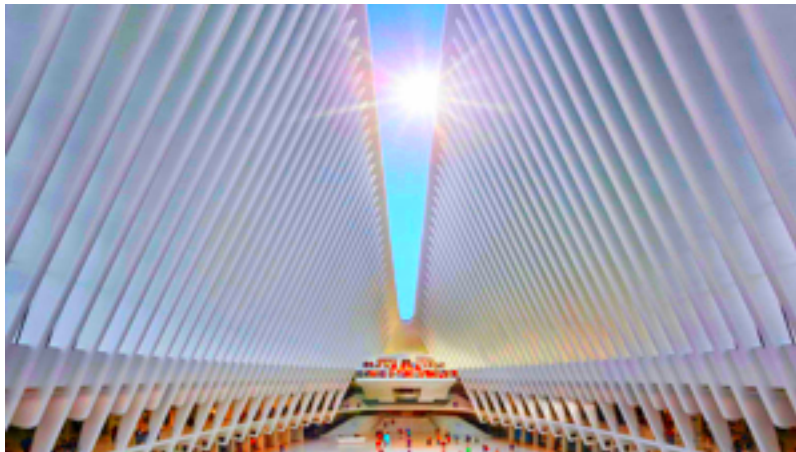
Resized Image Size : 600 337

```
[43]: #Sharpening the Image  
image = Image.open('Furry Friends (Raw Image - Untouched) (1).jpeg')  
short_image = resize(image)  
enhancer = ImageEnhance.Sharpness(short_image)
```

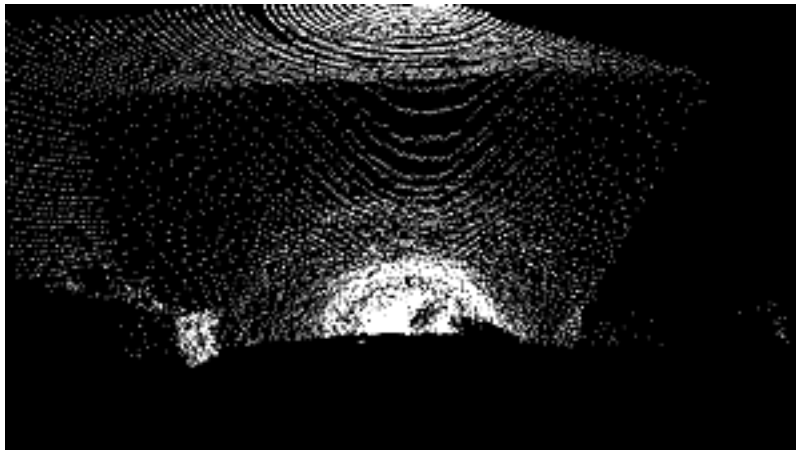
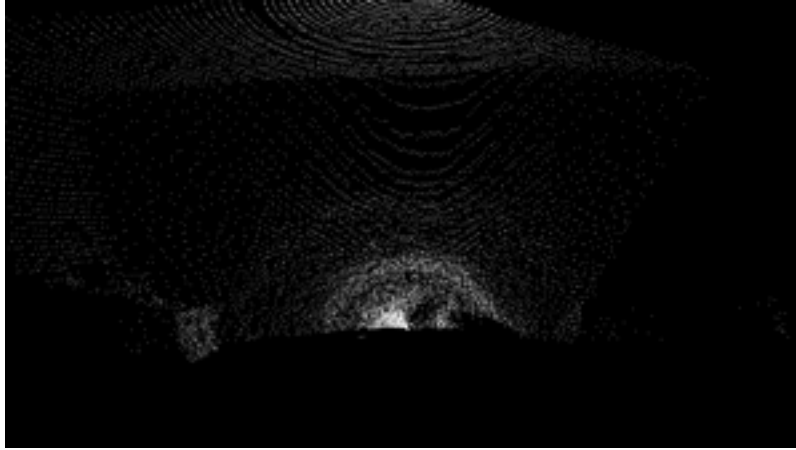
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Sharpmg = enhancer.enhance(3.0)
display(short_image,Sharpmg)
```



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[44]: # Changing the color saturation of the image
image = Image.open('Oculus (Raw Image - Untouched) (1).jpg')
short_image = resize(image)
enhancer = ImageEnhance.Color(short_image)
Colorimg = enhancer.enhance(6.0)
display(short_image,Colorimg)
```

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[45]: # Enhancing the Contrast of the image
image = Image.open('Scan of Bedroom - (Raw Image - Untouched).png')
short_image = resize(image)
enhancer = ImageEnhance.Contrast(short_image)
Contraimg = enhancer.enhance(5.0)
display(short_image,Contraimg)
```



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[46]: # Enhancing the Brightness of the image
image = Image.open('Burj Khalifa (Raw Image - Untouched) (1).jpg')
short_image = resize(image)
enhancer = ImageEnhance.Brightness(short_image)
Brightping = enhancer.enhance(3.0)
display(short_image,Brightping)
```

