

```
pip install ipyplot
import imageio
import imgaug as ia
import imgaug.augmenters as iaa
import ipyplot
```

```
input_img = imageio.imread('/content/gaya.jpg')
```



WARNING! Google Colab Environment detected!
You might encounter issues while running in Google Colab environment.
If images are not displaying properly please try setting `force_b64` param to `True`.

<ipython-input-4-811ff08210e7>:6: DeprecationWarning: Starting with ImageIO v3 the behavior of this function will switch to that of iio.v3.imread
input_img = imageio.imread('/content/gaya.jpg')

```
import imgaug.augmenters as iaa
import ipyplot
```

```
# Horizontal Flip
```

```
hflip = iaa.Fliplr(p=1.0)
```

```
input_hf = hflip.augment_image(input_img)
```

```
# Vertical Flip
```

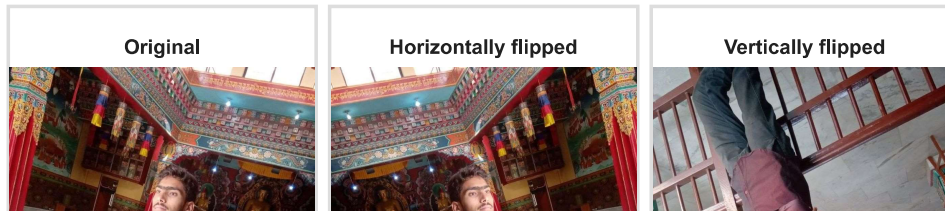
```
vflip = iaa.Flipud(p=1.0)
```

```
input_vf = vflip.augment_image(input_img)
```

```
images_list = [input_img, input_hf, input_vf]
```

```
labels = ['Original', 'Horizontally flipped', 'Vertically flipped']
```

```
ipyplot.plot_images(images_list, labels=labels, img_width=180)
```

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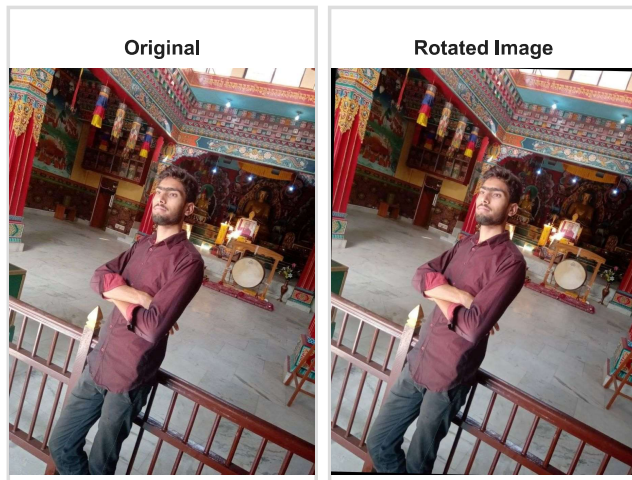
```

rot1 = iaa.Affine(rotate=(-90, 20))
input_rot1 = rot1.augment_image(input_img)

images_list = [input_img, input_rot1]
labels = ['Original', 'Rotated Image']

ipyplot.plot_images(images_list, labels=labels, img_width=180)

```

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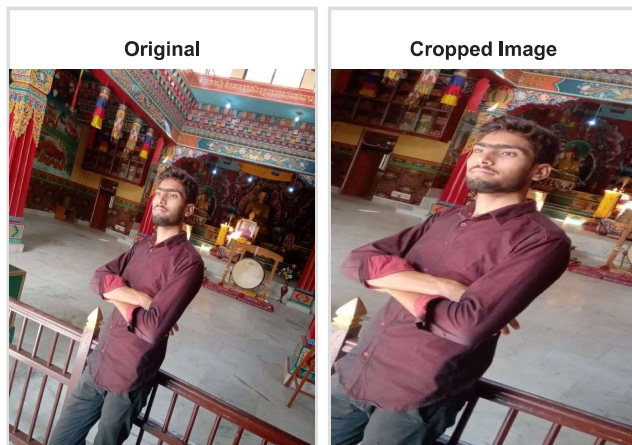
```

crop1 = iaa.Crop(percent=(0, 0.3))
input_crop1 = crop1.augment_image(input_img)

images_list = [input_img, input_crop1]
labels = ['Original', 'Cropped Image']

ipyplot.plot_images(images_list, labels=labels, img_width=180)

```

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```
noise = iaa.AdditiveGaussianNoise(10, 40)
input_noise = noise.augment_image(input_img)

images_list = [input_img, input_noise]
labels = ['Original', 'Gaussian Noise Image']

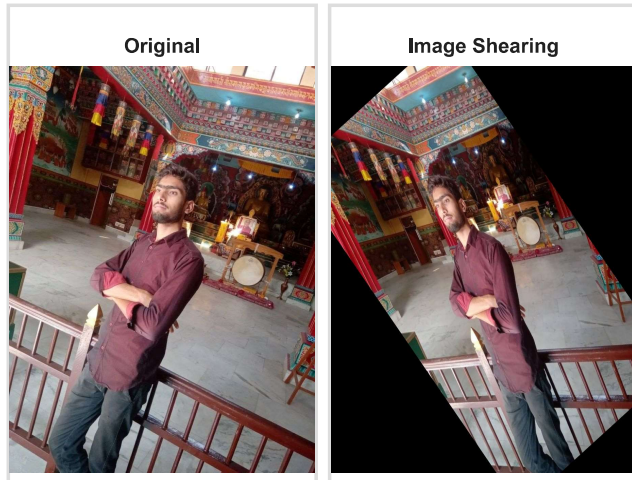
ipyplot.plot_images(images_list, labels=labels, img_width=180)
```

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```
shear = iaa.Affine(shear=(-40, 40))
input_shear = shear.augment_image(input_img)

images_list = [input_img, input_shear]
labels = ['Original', 'Image Shearing']

ipyplot.plot_images(images_list, labels=labels, img_width=180)
```

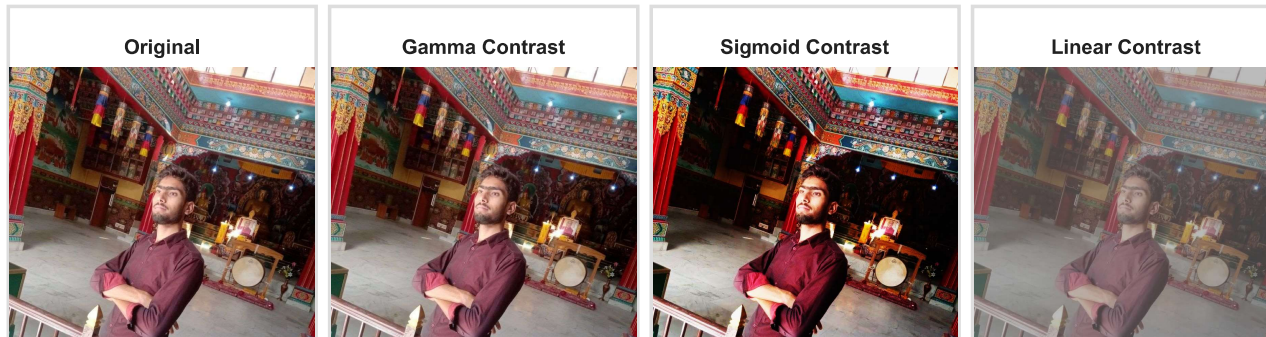
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```
contrast = iaa.GammaContrast((0.5, 2.0))
contrast_sig = iaa.SigmoidContrast(gain=(5, 10), cutoff=(0.4, 0.6))
contrast_lin = iaa.LinearContrast((0.6, 0.4))

input_contrast = contrast.augment_image(input_img)
sigmoid_contrast = contrast_sig.augment_image(input_img)
linear_contrast = contrast_lin.augment_image(input_img)

images_list = [input_img, input_contrast, sigmoid_contrast, linear_contrast]
labels = ['Original', 'Gamma Contrast', 'Sigmoid Contrast', 'Linear Contrast']

ipyplot.plot_images(images_list, labels=labels, img_width=180)
```


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```

elastic = iaa.ElasticTransformation(alpha=60.0, sigma=4.0)
polar = iaa.WithPolarWarping(iaa.CropAndPad(percent=(-0.2, 0.7)))
jigsaw = iaa.Jigsaw(nb_rows=20, nb_cols=15, max_steps=(3, 7))

input_elastic = elastic.augment_image(input_img)
input_polar = polar.augment_image(input_img)
input_jigsaw = jigsaw.augment_image(input_img)

images_list = [input_img, input_elastic, input_polar, input_jigsaw]
labels = ['Original', 'Elastic', 'Polar', 'Jigsaw']

ipyplot.plot_images(images_list, labels=labels, img_width=180)

```

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