

# Configure Image Data Generator Class

Image Data Generator class is instantiated and the configuration for the types of data augmentation.

There are five main types of data augmentation techniques for image data;specifically:

Image shifts via the `width_shift_range` and `height_shift_range` arguments. The image flips via the `horizontal_flip` and `vertical_flip` arguments.

Image rotations via the `rotation_range` argument Image brightness via the `brightness_range` argument. Image zoom via the `zoom_range` argument.

An instance of the Image Data Generator class can be constructed for train and test.

## Image Data Augmentation

```
#setting parameter for Image Data augmentation to the training data
train_datagen = ImageDataGenerator(rescale=1./255, shear_range=0.2, zoom_range=0.2, horizontal_flip=True)
#Image Data augmentation to the testing data
test_datagen=ImageDataGenerator(rescale=1./255)
```