

## CONFIGURE IMAGEDATAGENERATOR CLASS

ImageDataGenerator 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 ImageDataGenerator class can be constructed for train and test.

```
# All images will be rescaled by 1./255
train_datagen = ImageDataGenerator(rescale=1/255)

# Flow training images in batches of 128 using train_datagen generator
train_generator = train_datagen.flow_from_directory(
    'Data', # This is the source directory for training images
    target_size=(200, 200), # All images will be resized to 200 x 200
    batch_size=batch_size,
```