TensorFlow   API r1.4

tf.keras.utils.Sequence

Class **Sequence**

Defined in `tensorflow/python/keras/_impl/keras/utils/data_utils.py` .

Base object for fitting to a sequence of data, such as a dataset.

Every `Sequence` must implements the `__getitem__` and the `__len__` methods.

Examples:

```
from skimage.io import imread
from skimage.transform import resize
import numpy as np

# Here, `x_set` is list of path to the images
# and `y_set` are the associated classes.

class CIFAR10Sequence(Sequence):
    def __init__(self, x_set, y_set, batch_size):
        self.X,self.y = x_set,y_set
        self.batch_size = batch_size

    def __len__(self):
        return len(self.X) // self.batch_size

    def __getitem__(self,idx):
        batch_x = self.X[idx*self.batch_size:(idx+1)*self.batch_size]
        batch_y = self.y[idx*self.batch_size:(idx+1)*self.batch_size]

        return np.array([
            resize(imread(file_name), (200,200))
                for file_name in batch_x]), np.array(batch_y)
```

Methods

__getitem__

```
__getitem__(index)
```

Gets batch at position `index` .

Arguments:

- `index` : position of the batch in the Sequence.

Returns:

A batch

__len__

`__len__()`

Number of batch in the Sequence.

Returns:

The number of batches in the Sequence.

on_epoch_end

`on_epoch_end()`

Method called at the end of every epoch.

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