TensorFlow   API r1.4

tf.keras.backend.separable_conv2d

```
separable_conv2d(
    x,
    depthwise_kernel,
    pointwise_kernel,
    strides=(1, 1),
    padding='valid',
    data_format=None,
    dilation_rate=(1, 1)
)
```

Defined in `tensorflow/python/keras/_impl/keras/backend.py` .

2D convolution with separable filters.

Arguments:

- `x` : input tensor
- `depthwise_kernel` : convolution kernel for the depthwise convolution.
- `pointwise_kernel` : kernel for the 1x1 convolution.
- `strides` : strides tuple (length 2).
- `padding` : padding mode, "valid" or "same".
- `data_format` : data format, "channels_first" or "channels_last".
- `dilation_rate` : tuple of integers, dilation rates for the separable convolution.

Returns:

Output tensor.

Raises:

- `ValueError` : if `data_format` is neither `channels_last` or `channels_first` .

Last updated November 2, 2017.

Stay Connected

Blog

GitHub

Twitter

Support

Issue Tracker

Release Notes

Stack Overflow

English

Terms | **Privacy**