TancarFlow

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.

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