

tf.layers.average_pooling2d

```
average_pooling2d(  
    inputs,  
    pool_size,  
    strides,  
    padding='valid',  
    data_format='channels_last',  
    name=None  
)
```

Defined in [tensorflow/python/layers/pooling.py](#).

Average pooling layer for 2D inputs (e.g. images).

Arguments:

- **inputs** : The tensor over which to pool. Must have rank 4.
- **pool_size** : An integer or tuple/list of 2 integers: (pool_height, pool_width) specifying the size of the pooling window. Can be a single integer to specify the same value for all spatial dimensions.
- **strides** : An integer or tuple/list of 2 integers, specifying the strides of the pooling operation. Can be a single integer to specify the same value for all spatial dimensions.
- **padding** : A string. The padding method, either 'valid' or 'same'. Case-insensitive.
- **data_format** : A string. The ordering of the dimensions in the inputs. **channels_last** (default) and **channels_first** are supported. **channels_last** corresponds to inputs with shape (batch, height, width, channels) while **channels_first** corresponds to inputs with shape (batch, channels, height, width).
- **name** : A string, the name of the layer.

Returns:

Output tensor.

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