

tf.keras.backend.pool2d

```
pool2d(  
    x,  
    pool_size,  
    strides=(1, 1),  
    padding='valid',  
    data_format=None,  
    pool_mode='max'  
)
```

Defined in [tensorflow/python/keras/_impl/keras/backend.py](#).

2D Pooling.

Arguments:

- `x`: Tensor or variable.
- `pool_size`: tuple of 2 integers.
- `strides`: tuple of 2 integers.
- `padding`: one of "valid", "same".
- `data_format`: one of "channels_first", "channels_last".
- `pool_mode`: one of "max", "avg".

Returns:

A tensor, result of 2D pooling.

Raises:

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

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