Arguments:

* **pool\_size**: integer or tuple of 2 integers, factors by which to downscale (vertical, horizontal). (2, 2) will halve the input in both spatial dimension. If only one integer is specified, the same window length will be used for both dimensions.
* **strides**: Integer, tuple of 2 integers, or None. Strides values. If None, it will default to pool\_size.
* **padding**: One of "valid" or "same" (case-insensitive).
* **data\_format**: A string, one of channels\_last (default) or channels\_first. The ordering of the dimensions in the inputs. channels\_last corresponds to inputs with shape (batch, height, width, channels) while channels\_first corresponds to inputs with shape (batch, channels, height, width). It defaults to the image\_data\_format value found in your Keras config file at ~/.keras/keras.json. If you never set it, then it will be "channels\_last".

Input shape:

* If data\_format='channels\_last': 4D tensor with shape (batch\_size, rows, cols, channels).
* If data\_format='channels\_first': 4D tensor with shape (batch\_size, channels, rows, cols).

Output shape:

* If data\_format='channels\_last': 4D tensor with shape (batch\_size, pooled\_rows, pooled\_cols, channels).
* If data\_format='channels\_first': 4D tensor with shape (batch\_size, channels, pooled\_rows, pooled\_cols).

\_\_init\_\_

[View source](https://github.com/tensorflow/tensorflow/blob/r2.1/tensorflow/python/keras/layers/pooling.py#L319-L328)

\_\_init\_\_(  
    pool\_size=(2, 2),  
    strides=None,  
    padding='valid',  
    data\_format=None,  
    \*\*kwargs  
)