

tf.layers.max_pooling3d

```
max_pooling3d(  
    inputs,  
    pool_size,  
    strides,  
    padding='valid',  
    data_format='channels_last',  
    name=None  
)
```

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

Max pooling layer for 3D inputs (e.g. volumes).

Arguments:

- **inputs** : The tensor over which to pool. Must have rank 5.
- **pool_size** : An integer or tuple/list of 3 integers: (pool_depth, 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 3 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, depth, height, width, channels) while **channels_first** corresponds to inputs with shape (batch, channels, depth, height, width).
- **name** : A string, the name of the layer.

Returns:

Output tensor.

Except as otherwise noted, the content of this page is licensed under the [Creative Commons Attribution 3.0 License](#), and code samples are licensed under the [Apache 2.0 License](#). For details, see our [Site Policies](#). Java is a registered trademark of Oracle and/or its affiliates.

Last updated November 2, 2017.

Stay Connected

[Blog](#)

[GitHub](#)

[Twitter](#)

Support

[Issue Tracker](#)

[Release Notes](#)

[Stack Overflow](#)

English

[Terms](#) | [Privacy](#)