

## tf.nn.max\_pool

```
max_pool(  
    value,  
    ksize,  
    strides,  
    padding,  
    data_format='NHWC',  
    name=None  
)
```

Defined in [tensorflow/python/ops/nn\\_ops.py](#).

See the guide: [Neural Network > Pooling](#)

Performs the max pooling on the input.

## Args:

- **value**: A 4-D **Tensor** of the format specified by **data\_format**.
- **ksize**: A 1-D int Tensor of 4 elements. The size of the window for each dimension of the input tensor.
- **strides**: A 1-D int Tensor of 4 elements. The stride of the sliding window for each dimension of the input tensor.
- **padding**: A string, either **'VALID'** or **'SAME'**. The padding algorithm. See the [comment here](#)
- **data\_format**: A string. 'NHWC', 'NCHW' and 'NCHW\_VECT\_C' are supported.
- **name**: Optional name for the operation.

## Returns:

A **Tensor** of format specified by **data\_format**. The max pooled 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](#)

English

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