

## tf.keras.backend.transpose

`transpose(x)`Defined in `tensorflow/python/keras/_impl/keras/backend.py`.

Transposes a tensor and returns it.

## Arguments:

- `x`: Tensor or variable.

## Returns:

A tensor.

## Examples:

```
>>> var = K.variable([[1, 2, 3], [4, 5, 6]])
>>> K.eval(var)
array([[ 1.,  2.,  3.],
       [ 4.,  5.,  6.]], dtype=float32)
>>> var_transposed = K.transpose(var)
>>> K.eval(var_transposed)
array([[ 1.,  4.],
       [ 2.,  5.],
       [ 3.,  6.]], dtype=float32)
```

```
>>> input = K.placeholder((2, 3))
>>> input
<tf.Tensor 'Placeholder_11:0' shape=(2, 3) dtype=float32>
>>> input_transposed = K.transpose(input)
>>> input_transposed
<tf.Tensor 'transpose_4:0' shape=(3, 2) dtype=float32>
```

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](#)