

tf.reverse

```
reverse(  
    tensor,  
    axis,  
    name=None  
)
```

Defined in [tensorflow/python/ops/array_ops.py](#).

See the guide: [Tensor Transformations > Slicing and Joining](#)

Reverses specific dimensions of a tensor.

NOTE `tf.reverse` has now changed behavior in preparation for 1.0. `tf.reverse_v2` is currently an alias that will be deprecated before TF 1.0.

Given a `tensor`, and a `int32` tensor `axis` representing the set of dimensions of `tensor` to reverse. This operation reverses each dimension `i` for which there exists `j` s.t. `axis[j] == i`.

`tensor` can have up to 8 dimensions. The number of dimensions specified in `axis` may be 0 or more entries. If an index is specified more than once, a `InvalidArgument` error is raised.

For example:

```
# tensor 't' is [[[[ 0,  1,  2,  3],  
#                [ 4,  5,  6,  7],  
#                [ 8,  9, 10, 11]],  
#               [[12, 13, 14, 15],  
#               [16, 17, 18, 19],  
#               [20, 21, 22, 23]]]]  
# tensor 't' shape is [1, 2, 3, 4]  
  
# 'dims' is [3] or 'dims' is -1  
reverse(t, dims) ==> [[[[ 3,  2,  1,  0],  
#                        [ 7,  6,  5,  4],  
#                        [11, 10,  9,  8]],  
#                       [[15, 14, 13, 12],  
#                       [19, 18, 17, 16],  
#                       [23, 22, 21, 20]]]]  
  
# 'dims' is '[1]' (or 'dims' is '[-3]')  
reverse(t, dims) ==> [[[[12, 13, 14, 15],  
#                        [16, 17, 18, 19],  
#                        [20, 21, 22, 23]  
#                       [[ 0,  1,  2,  3],  
#                       [ 4,  5,  6,  7],  
#                       [ 8,  9, 10, 11]]]]  
  
# 'dims' is '[2]' (or 'dims' is '[-2]')  
reverse(t, dims) ==> [[[[8, 9, 10, 11],  
#                        [4, 5, 6, 7],  
#                        [0, 1, 2, 3]]  
#                       [[20, 21, 22, 23],  
#                       [16, 17, 18, 19],  
#                       [12, 13, 14, 15]]]]
```

Args:

- `tensor`: A `Tensor`. Must be one of the following types: `uint8`, `int8`, `uint16`, `int16`, `int32`, `int64`, `bool`, `half`, `float32`, `float64`, `complex64`, `complex128`, `string`. Up to 8-D.
- `axis`: A `Tensor`. Must be one of the following types: `int32`, `int64`. 1-D. The indices of the dimensions to reverse. Must be in the range `[-rank(tensor), rank(tensor))`.
- `name`: A name for the operation (optional).

Returns:

A `Tensor`. Has the same type as `tensor`. The same shape as `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](#)