

tf.shape

```
shape(  
    input,  
    name=None,  
    out_type=tf.int32  
)
```

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

See the guide: [Tensor Transformations > Shapes and Shaping](#)

Returns the shape of a tensor.

This operation returns a 1-D integer tensor representing the shape of `input`.

For example:

```
t = tf.constant([[[[1, 1, 1], [2, 2, 2]], [[3, 3, 3], [4, 4, 4]]]])  
tf.shape(t) # [2, 2, 3]
```

Args:

- `input`: A `Tensor` or `SparseTensor`.
- `name`: A name for the operation (optional).
- `out_type`: (Optional) The specified output type of the operation (`int32` or `int64`). Defaults to `tf.int32`.

Returns:

A `Tensor` of type `out_type`.

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](#)