

tf.size

```
size(  
    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 size of a tensor.

This operation returns an integer representing the number of elements in `input`.

For example:

```
t = tf.constant([[[[1, 1, 1], [2, 2, 2]], [[3, 3, 3], [4, 4, 4]]]])  
tf.size(t) # 12
```

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`. Defaults to `tf.int32`.

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