

## tf.meshgrid

```
meshgrid(  
    *args,  
    **kwargs  
)
```

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

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

Broadcasts parameters for evaluation on an N-D grid.

Given N one-dimensional coordinate arrays `*args`, returns a list `outputs` of N-D coordinate arrays for evaluating expressions on an N-D grid.

Notes:

`meshgrid` supports cartesian ('xy') and matrix ('ij') indexing conventions. When the `indexing` argument is set to 'xy' (the default), the broadcasting instructions for the first two dimensions are swapped.

Examples:

Calling `X, Y = meshgrid(x, y)` with the tensors

```
x = [1, 2, 3]  
y = [4, 5, 6]  
X, Y = tf.meshgrid(x, y)  
# X = [[1, 2, 3],  
#      [1, 2, 3],  
#      [1, 2, 3]]  
# Y = [[4, 4, 4],  
#      [5, 5, 5],  
#      [6, 6, 6]]
```

Args:

- `*args`: `Tensor` s with rank 1.
- `indexing`: Either 'xy' or 'ij' (optional, default: 'xy').
- `name`: A name for the operation (optional).

Returns:

- `outputs`: A list of N `Tensor` s with rank N.

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Last updated November 2, 2017.

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