

tf.pow

```
pow(  
    x,  
    y,  
    name=None  
)
```

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

See the guide: [Math > Basic Math Functions](#)

Computes the power of one value to another.

Given a tensor **x** and a tensor **y**, this operation computes x^y for corresponding elements in **x** and **y**. For example:

```
x = tf.constant([[2, 2], [3, 3]])  
y = tf.constant([[8, 16], [2, 3]])  
tf.pow(x, y) # [[256, 65536], [9, 27]]
```

Args:

- **x**: A **Tensor** of type **float32**, **float64**, **int32**, **int64**, **complex64**, or **complex128**.
- **y**: A **Tensor** of type **float32**, **float64**, **int32**, **int64**, **complex64**, or **complex128**.
- **name**: A name for the operation (optional).

Returns:

A **Tensor**.

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