TencorFlow

TensorFlow API r1.4

tf.rank

```
rank(
   input,
   name=None
)
```

Defined in tensorflow/python/ops/array_ops.py.

See the guide: Tensor Transformations > Shapes and Shaping

Returns the rank of a tensor.

Returns a 0-D int32 Tensor representing the rank of input .

For example:

```
# shape of tensor 't' is [2, 2, 3]
t = tf.constant([[[1, 1, 1], [2, 2, 2]], [[3, 3, 3], [4, 4, 4]]])
tf.rank(t) # 3
```

Note: The rank of a tensor is not the same as the rank of a matrix. The rank of a tensor is the number of indices required to uniquely select each element of the tensor. Rank is also known as "order", "degree", or "ndims."

Args:

- input: A Tensor or SparseTensor.
- name: A name for the operation (optional).

Returns:

A Tensor of type int32.

numpy compatibility

Equivalent to np.ndim

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