TencorFlow

TensorFlow API r1.4

tf.trace

Contents
Aliases:

Aliases:

- tf.linalg.trace
- tf.trace

```
trace(
    x,
    name=None
)
```

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

See the guide: Math > Matrix Math Functions

Compute the trace of a tensor x.

trace(x) returns the sum along the main diagonal of each inner-most matrix in x. If x is of rank k with shape [I, J, K, ..., L, M, N], then output is a tensor of rank k-2 with dimensions [I, J, K, ..., L] where

```
output[i, j, k, ..., 1] = trace(x[i, j, i, ..., 1, :, :])
```

For example:

Args:

- x: tensor.
- name: A name for the operation (optional).

Returns:

The trace of input tensor.

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