TancarFlow

```
TensorFlow API r1.4

Tf.eye

Contents
Aliases:
```

Aliases:

- tf.eye
- tf.linalg.eye

```
eye(
   num_rows,
   num_columns=None,
   batch_shape=None,
   dtype=tf.float32,
   name=None
)
```

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

See the guide: Math > Matrix Math Functions

Construct an identity matrix, or a batch of matrices.

```
# Construct one identity matrix.
tf.eye(2)
==> [[1., 0.],
       [0., 1.]]

# Construct a batch of 3 identity matricies, each 2 x 2.
# batch_identity[i, :, :] is a 2 x 2 identity matrix, i = 0, 1, 2.
batch_identity = tf.eye(2, batch_shape=[3])

# Construct one 2 x 3 "identity" matrix
tf.eye(2, num_columns=3)
==> [[ 1.,  0.,  0.],
       [ 0.,  1.,  0.]]
```

Args:

- num_rows: Non-negative int32 scalar Tensor giving the number of rows in each batch matrix.
- num_columns : Optional non-negative int32 scalar Tensor giving the number of columns in each batch matrix.

 Defaults to num_rows .
- batch_shape: A list or tuple of Python integers or a 1-D **int32 Tensor**. If provided, the returned **Tensor** will have leading batch dimensions of this shape.
- dtype: The type of an element in the resulting Tensor
- name: A name for this Op. Defaults to "eye".

Returns:

A Tensor of shape batch_shape + [num_rows, num_columns]

Except as otherwise noted, the content of this page is licensed under the Creative Commons Attribution 3.0 License, and code samples are licensed under the Apache 2.0 License. For details, see our Site Policies. Java is a registered trademark of Oracle and/or its affiliates.

Last updated November 2, 2017.

Stay Connected		
Blog		
GitHub		
Twitter		
Support		
Issue Tracker		
Release Notes		
Stack Overflow		
English		
Terms Privacy		