TencorFlow

```
TensorFlow API r1.4
```

tf.sign

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

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

See the guide: Math > Basic Math Functions

Returns an element-wise indication of the sign of a number.

```
y = sign(x) = -1 if x < 0; 0 if x == 0 or tf.is_nan(x); 1 if x > 0.
```

Zero is returned for NaN inputs.

For complex numbers, y = sign(x) = x / |x| if x != 0, otherwise y = 0.

Args:

- x: A Tensor or SparseTensor. Must be one of the following types: half, float32, float64, int32, int64, complex64, complex128.
- name: A name for the operation (optional).

Returns:

A **Tensor** or **SparseTensor**, respectively. Has the same type as x.

numpy compatibility

Equivalent to numpy.sign except for the behavior for input values of NaN.

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