TancarFlow

TensorFlow API r1.4

tf.abs

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

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

See the guide: Math > Basic Math Functions

Computes the absolute value of a tensor.

Given a tensor \mathbf{x} of complex numbers, this operation returns a tensor of type **float32** or **float64** that is the absolute value of each element in \mathbf{x} . All elements in \mathbf{x} must be complex numbers of the form a+bj. The absolute value is computed as $\sqrt{a^2+b^2}$. For example:

```
x = tf.constant([[-2.25 + 4.75j], [-3.25 + 5.75j]])

tf.abs(x) # [5.25594902, 6.60492229]
```

Args:

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

Returns:

A Tensor or SparseTensor the same size and type as x with absolute values. Note, for complex64 or complex128' input, the returned Tensor will be of type float32 or float64', respectively.

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