TencorFlow

TensorFlow API r1.4

tf.atan2

```
atan2(
    y,
    x,
    name=None
)
```

Defined in tensorflow/python/ops/gen\_math\_ops.py.

Computes arctangent of y/x element-wise, respecting signs of the arguments.

This is the angle (\theta \in [-\pi, \pi]) such that  $[x = r \cos(\theta)]$  and  $[y = r \sin(\theta)]$  where  $(r = \sqrt{x^2 + y^2})$ .

## Args:

- y: A Tensor. Must be one of the following types: float32, float64.
- x: A **Tensor**. Must have the same type as y.
- name: A name for the operation (optional).

## Returns:

A Tensor. Has the same type as y.

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