

tf.angle

```
angle(  
    input,  
    name=None  
)
```

Defined in [tensorflow/python/ops/math_ops.py](#).

See the guide: [Math > Complex Number Functions](#)

Returns the argument of a complex number.

Given a tensor `input` of complex numbers, this operation returns a tensor of type `float32` or `float64` that is the argument of each element in `input`. All elements in `input` must be complex numbers of the form $a + bj$, where a is the real part and b is the imaginary part.

The argument returned by this function is of the form $\text{atan2}(b, a)$.

For example:

```
# tensor 'input' is [-2.25 + 4.75j, 3.25 + 5.75j]  
tf.angle(input) ==> [2.0132, 1.056]
```

Args:

- `input`: A `Tensor`. Must be one of the following types: `complex64`, `complex128`.
- `name`: A name for the operation (optional).

Returns:

A `Tensor` of type `float32` or `float64`.

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