

tf.imag

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

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

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

Returns the imaginary part of a complex number.

Given a tensor **input** of complex numbers, this operation returns a tensor of type **float** 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 returned by the operation.

For example:

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

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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