

tf.conj

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

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

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

Returns the complex conjugate of a complex number.

Given a tensor `input` of complex numbers, this operation returns a tensor of complex numbers that are the complex conjugate of each element in `input`. The complex numbers in `input` must be of the form $a + bj$, where a is the real part and b is the imaginary part.

The complex conjugate returned by this operation is of the form $a - bj$.

For example:

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

If `x` is real, it is returned unchanged.

Args:

- `x`: **Tensor** to conjugate. Must have numeric or variant type.
- `name`: A name for the operation (optional).

Returns:

A **Tensor** that is the conjugate of `x` (with the same type).

Raises:

- **TypeError**: If `x` is not a numeric tensor.

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