

## tf.betainc

```
betainc(  
    a,  
    b,  
    x,  
    name=None  
)
```

Defined in `tensorflow/python/ops/gen_math_ops.py`.

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

Compute the regularized incomplete beta integral  $I_x(a, b)$ .

The regularized incomplete beta integral is defined as:

$$I_x(a, b) = \frac{B(x; a, b)}{B(a, b)}$$

where

$$B(x; a, b) = \int_0^x t^{a-1} (1-t)^{b-1} dt$$

is the incomplete beta function and  $B(a, b)$  is the *complete* beta function.

## Args:

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

## Returns:

A `Tensor`. Has the same type as `a`.

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