

## tf.not\_equal

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

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

See the guide: [Control Flow > Comparison Operators](#)

Returns the truth value of  $(x \neq y)$  element-wise.

**NOTE:** `NotEqual` supports broadcasting. More about broadcasting [here](#)

## Args:

- `x`: A `Tensor`. Must be one of the following types: `half`, `float32`, `float64`, `uint8`, `int8`, `int16`, `int32`, `int64`, `complex64`, `quint8`, `qint8`, `qint32`, `string`, `bool`, `complex128`.
- `y`: A `Tensor`. Must have the same type as `x`.
- `name`: A name for the operation (optional).

## Returns:

A `Tensor` of type `bool`.

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