

tf.is_non_decreasing

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

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

See the guides: [Asserts and boolean checks](#), [Framework \(contrib\)](#)

Returns **True** if **x** is non-decreasing.

Elements of **x** are compared in row-major order. The tensor **[x[0], ...]** is non-decreasing if for every adjacent pair we have **x[i] <= x[i+1]**. If **x** has less than two elements, it is trivially non-decreasing.

See also: [is_strictly_increasing](#)

Args:

- **x**: Numeric **Tensor**.
- **name**: A name for this operation (optional). Defaults to "is_non_decreasing"

Returns:

Boolean **Tensor**, equal to **True** iff **x** is non-decreasing.

Raises:

- **TypeError**: if **x** is not a numeric tensor.

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Last updated November 2, 2017.

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