

tf.assert_non_positive

```
assert_non_positive(  
    x,  
    data=None,  
    summarize=None,  
    message=None,  
    name=None  
)
```

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

See the guide: [Asserts and boolean checks](#)

Assert the condition $x \leq 0$ holds element-wise.

Example of adding a dependency to an operation:

```
with tf.control_dependencies([tf.assert_non_positive(x)]):  
    output = tf.reduce_sum(x)
```

Non-positive means, for every element $x[i]$ of x , we have $x[i] \leq 0$. If x is empty this is trivially satisfied.

Args:

- x**: Numeric **Tensor**.
- data**: The tensors to print out if the condition is False. Defaults to error message and first few entries of **x**.
- summarize**: Print this many entries of each tensor.
- message**: A string to prefix to the default message.
- name**: A name for this operation (optional). Defaults to "assert_non_positive".

Returns:

Op raising **InvalidArgumentError** unless **x** is all non-positive.

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Last updated November 2, 2017.

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