

tf.assert_negative

```
assert_negative(  
    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 $x < 0$ holds element-wise.

Example of adding a dependency to an operation:

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

Negative means, for every element $x[i]$ of x , we have $x[i] < 0$. 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_negative".

Returns:

Op raising **InvalidArgumentError** unless **x** is all negative.

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