

TORCH.COUNT_NONZERO

`torch.count_nonzero(input, dim=None)` → [Tensor](#)



Counts the number of non-zero values in the tensor `input` along the given `dim`. If no `dim` is specified then all non-zeros in the tensor are counted.

Parameters

- **input** (*Tensor*) – the input tensor.
- **dim** (*int or tuple of python:ints, optional*) – Dim or tuple of dims along which to count non-zeros.

Example:

```
>>> x = torch.zeros(3,3)
>>> x[torch.randn(3,3) > 0.5] = 1
>>> x
tensor([[0., 1., 1.],
        [0., 0., 0.],
        [0., 0., 1.]])
>>> torch.count_nonzero(x)
tensor(3)
>>> torch.count_nonzero(x, dim=0)
tensor([0, 1, 2])
```

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