ReLU

CLASS torch.nn.ReLU(*inplace=False*) [SOURCE]

Applies the rectified linear unit function element-wise.

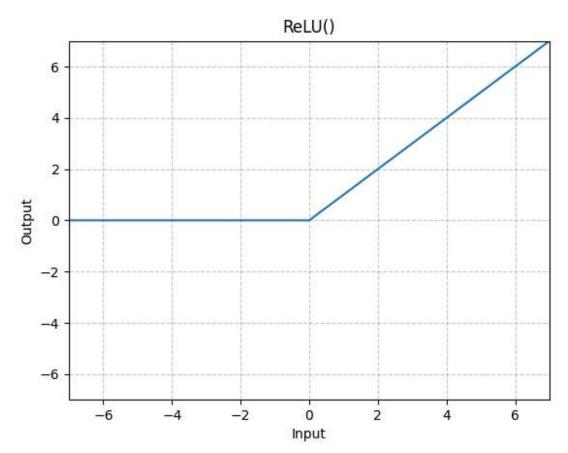
$$\mathrm{ReLU}(x) = (x)^+ = \max(0,x)$$

Parameters

inplace (bool) – can optionally do the operation in-place. Default: False

Shape:

- Input: (*), where * means any number of dimensions.
- Output: (*), same shape as the input.



Examples:

```
>>> m = nn.ReLU()
>>> input = torch.randn(2)
>>> output = m(input)

An implementation of CReLU - https://arxiv.org/abs/1603.05201

>>> m = nn.ReLU()
>>> input = torch.randn(2).unsqueeze(0)
>>> output = torch.cat((m(input), m(-input)))
```

< Previous</pre>
Next >

Docs

Tutorials

Resources

Find development resources and get your questions answered View Resources

PyTorch Resources Get Started Tutorials Features Docs Discuss Ecosystem Github Issues Blog Contributing Brand Guidelines Stay up to date PyTorch Podcasts Facebook Spotify Twitter Apple YouTube Google LinkedIn Amazon

Terms | Privacy

© Copyright The Linux Foundation. The PyTorch Foundation is a project of The Linux Foundation. For web site terms of use, trademark policy and other policies applicable to The PyTorch Foundation please see www.linuxfoundation.org/policies/. The PyTorch Foundation supports the PyTorch open source project, which has been established as PyTorch Project a Series of LF Projects, LLC. For policies applicable to the PyTorch Project a Series of LF Projects, LLC, please see www.lfprojects.org/policies/.