torch.nn

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst, line 6`)

Unknown directive type "automodule".

```
.. automodule:: torch.nn
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst, line 7`)

Unknown directive type "automodule".

```
.. automodule:: torch.nn.modules
```

These are the basic building blocks for graphs:

torch.nn

- Containers
- Convolution Layers
- Pooling layers
- Padding Layers
- Non-linear Activations (weighted sum, nonlinearity)
- Non-linear Activations (other)
- Normalization Layers
- Recurrent Layers
- Transformer Layers
- Linear Layers
- Dropout Layers
- Sparse Layers
- Distance Functions
- Loss Functions
- Vision Layers
- Shuffle Layers
- DataParallel Layers (multi-GPU, distributed)
- Utilities
- Quantized Functions
- Lazy Modules Initialization

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst, line 17`)

Unknown directive type "currentmodule".

```
.. currentmodule:: torch.nn
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst, line 20`)

Unknown directive type "autosummary".

```
.. autosummary::
    :toctree: generated
    :nosignatures:
    :template: classtemplate.rst

    ~parameter.Parameter
    ~parameter.UninitializedParameter
    ~parameter.UninitializedBuffer
```

Containers

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`**, line 32)**

Unknown directive type "autosummary".

```
.. autosummary::
    :toctree: generated
    :nosignatures:
    :template: classtemplate.rst

    Module
    Sequential
    ModuleList
    ModuleDict
    ParameterList
    ParameterDict
```

Global Hooks For Module

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`**, line 46)**

Unknown directive type "currentmodule".

```
.. currentmodule:: torch.nn.modules.module
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`**, line 47)**

Unknown directive type "autosummary".

```
.. autosummary::
    :toctree: generated
    :nosignatures:

    register_module_forward_pre_hook
    register_module_forward_hook
    register_module_backward_hook
    register_module_full_backward_hook
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`**, line 56)**

Unknown directive type "currentmodule".

```
.. currentmodule:: torch
```

Convolution Layers

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`**, line 61)**

Unknown directive type "autosummary".

```
.. autosummary::
    :toctree: generated
    :nosignatures:
    :template: classtemplate.rst

    nn.Conv1d
    nn.Conv2d
    nn.Conv3d
    nn.ConvTranspose1d
    nn.ConvTranspose2d
    nn.ConvTranspose3d
    nn.LazyConv1d
    nn.LazyConv2d
    nn.LazyConv3d
    nn.LazyConvTranspose1d
    nn.LazyConvTranspose2d
    nn.LazyConvTranspose3d
```

```
nn.Unfold
nn.Fold
```

Pooling layers

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst, line 84`)

Unknown directive type "autosummary".

```
.. autosummary::
    :toctree: generated
    :nosignatures:
    :template: classtemplate.rst

    nn.MaxPool1d
    nn.MaxPool2d
    nn.MaxPool3d
    nn.MaxUnpool1d
    nn.MaxUnpool2d
    nn.MaxUnpool3d
    nn.AvgPool1d
    nn.AvgPool2d
    nn.AvgPool3d
    nn.FractionalMaxPool2d
    nn.FractionalMaxPool3d
    nn.LPPool1d
    nn.LPPool2d
    nn.AdaptiveMaxPool1d
    nn.AdaptiveMaxPool2d
    nn.AdaptiveMaxPool3d
    nn.AdaptiveAvgPool1d
    nn.AdaptiveAvgPool2d
    nn.AdaptiveAvgPool3d
```

Padding Layers

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst, line 112`)

Unknown directive type "autosummary".

```
.. autosummary::
    :toctree: generated
    :nosignatures:
    :template: classtemplate.rst

    nn.ReflectionPad1d
    nn.ReflectionPad2d
    nn.ReflectionPad3d
    nn.ReplicationPad1d
    nn.ReplicationPad2d
    nn.ReplicationPad3d
    nn.ZeroPad2d
    nn.ConstantPad1d
    nn.ConstantPad2d
    nn.ConstantPad3d
```

Non-linear Activations (weighted sum, nonlinearity)

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst, line 131`)

Unknown directive type "autosummary".

```
.. autosummary::
    :toctree: generated
    :nosignatures:
    :template: classtemplate.rst

    nn.ELU
    nn.Hardshrink
```

```
nn.Hardsigmoid
nn.Hardtanh
nn.Hardswish
nn.LeakyReLU
nn.LogSigmoid
nn.MultiheadAttention
nn.PReLU
nn.ReLU
nn.ReLU6
nn.RReLU
nn.SELU
nn.CELU
nn.GELU
nn.Sigmoid
nn.SiLU
nn.Mish
nn.Softplus
nn.Softshrink
nn.Softsign
nn.Tanh
nn.Tanhshrink
nn.Threshold
nn.GLU
```

Non-linear Activations (other)

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`, **line 165**)

Unknown directive type "autosummary".

```
.. autosummary::
   :toctree: generated
   :nosignatures:
   :template: classtemplate.rst

   nn.Softmin
   nn.Softmax
   nn.Softmax2d
   nn.LogSoftmax
   nn.AdaptiveLogSoftmaxWithLoss
```

Normalization Layers

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`, **line 179**)

Unknown directive type "autosummary".

```
.. autosummary::
   :toctree: generated
   :nosignatures:
   :template: classtemplate.rst

   nn.BatchNorm1d
   nn.BatchNorm2d
   nn.BatchNorm3d
   nn.LazyBatchNorm1d
   nn.LazyBatchNorm2d
   nn.LazyBatchNorm3d
   nn.GroupNorm
   nn.SyncBatchNorm
   nn.InstanceNorm1d
   nn.InstanceNorm2d
   nn.InstanceNorm3d
   nn.LazyInstanceNorm1d
   nn.LazyInstanceNorm2d
   nn.LazyInstanceNorm3d
   nn.LayerNorm
   nn.LocalResponseNorm
```

Recurrent Layers

Transformer Layers

Linear Layers

Dropout Layers

Sparse Layers

Distance Functions

Loss Functions

Vision Layers

```
.. autosummary::
   :toctree: generated
   :nosignatures:
   :template: classtemplate.rst

   nn.PixelShuffle
   nn.PixelUnshuffle
   nn.Upsample
   nn.UpsamplingNearest2d
   nn.UpsamplingBilinear2d
```

Shuffle Layers

DataParallel Layers (multi-GPU, distributed)

Utilities

From the `torch.nn.utils` module

Parametrizations implemented using the new parametrization functionality in
:func:`torch.nn.utils.parameterize.register_parametrization`.

Utility functions to parametrize Tensors on existing Modules. Note that these functions can be used to parametrize a given Parameter or Buffer given a specific function that maps from an input space to the parametrized space. They are not parameterizations that would transform an object into a parameter. See the Parametrizations tutorial for more information on how to implement your own parametrizations.

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`, **line 408**)

Unknown directive type "autosummary".

```
.. autosummary::
   :toctree: generated
   :nosignatures:

   parametrize.register_parametrization
   parametrize.remove_parametrizations
   parametrize.cached
   parametrize.is_parametrized
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`, **line 417**)

Unknown directive type "autosummary".

```
.. autosummary::
   :toctree: generated
   :nosignatures:
   :template: classtemplate.rst

   parametrize.ParametrizationList
```

Utility functions in other modules

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`, **line 426**)

Unknown directive type "currentmodule".

```
.. currentmodule:: torch
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`, **line 427**)

Unknown directive type "autosummary".

```
.. autosummary::
   :toctree: generated
   :nosignatures:

   nn.utils.rnn.PackedSequence
   nn.utils.rnn.pack_padded_sequence
   nn.utils.rnn.pad_packed_sequence
   nn.utils.rnn.pad_sequence
   nn.utils.rnn.pack_sequence
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`, **line 437**)

Unknown directive type "autosummary".

```
.. autosummary::
   :toctree: generated
   :nosignatures:
   :template: classtemplate.rst

   nn.Flatten
   nn.Unflatten
```

Quantized Functions

Quantization refers to techniques for performing computations and storing tensors at lower bitwidths than floating point precision. PyTorch supports both per tensor and per channel asymmetric linear quantization. To learn more how to use quantized functions in PyTorch, please refer to the :ref:`quantization-doc` documentation.

> **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`**, line 448);** *backlink*
>
> Unknown interpreted text role "ref".

Lazy Modules Initialization

> **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`**, line 454)**
>
> Unknown directive type "currentmodule".
>
> ```
> .. currentmodule:: torch
> ```

> **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`**, line 455)**
>
> Unknown directive type "autosummary".
>
> ```
> .. autosummary::
>     :toctree: generated
>     :nosignatures:
>     :template: classtemplate.rst
>
>     nn.modules.lazy.LazyModuleMixin
> ```

> **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master)(docs)(source)nn.rst`**, line 464)**
>
> Unknown directive type "py:module".
>
> ```
> .. py:module:: torch.nn.backends
> ```