

torch

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 3)

Unknown directive type "automodule".

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 4)

Unknown directive type "currentmodule".

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

Tensors

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 8)

Unknown directive type "autosummary".

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

    is_tensor
    is_storage
    is_complex
    is_conj
    is_floating_point
    is_nonzero
    set_default_dtype
    get_default_dtype
    set_default_tensor_type
    numel
    set_printoptions
    set_flush_denormal
```

Creation Ops

Note

Random sampling creation ops are listed under `ref`random-sampling`` and include: `func`torch.rand`` `func`torch.rand_like`` `func`torch.randn`` `func`torch.randn_like`` `func`torch.randint`` `func`torch.randint_like`` `func`torch.randperm``. You may also use `func`torch.empty`` with the `ref`inplace-random-sampling`` methods to create `class`torch.Tensor``s with values sampled from a broader range of distributions.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 31); [backlink](#)

Unknown interpreted text role "ref".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 31); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 31); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 31); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 31); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 31); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 31); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 31); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 31); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 31); [backlink](#)

Unknown interpreted text role "ref".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 31); [backlink](#)

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 44)

Unknown directive type "autosummary".

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

    tensor
    sparse_coo_tensor
    asarray
    as_tensor
    as_strided
    from_numpy
```

```
from_dlpack
frombuffer
zeros
zeros_like
ones
ones_like
arange
range
linspace
logspace
eye
empty
empty_like
empty_strided
full
full_like
quantize_per_tensor
quantize_per_channel
dequantize
complex
polar
heaviside
```

Indexing, Slicing, Joining, Mutating Ops

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 81)

Unknown directive type "autosummary".

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

```
adjoint
argwhere
cat
concat
conj
chunk
dsplit
column_stack
dstack
gather
hsplit
hstack
index_add
index_copy
index_select
masked_select
movedim
moveaxis
narrow
nonzero
permute
reshape
row_stack
select
scatter
diagonal_scatter
select_scatter
slice_scatter
scatter_add
scatter_reduce
split
squeeze
stack
swapaxes
swapdims
t
take
take_along_dim
tensor_split
tile
transpose
unbind
unsqueeze
vsplit
vstack
```

where

Generators

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 136)

Unknown directive type "autosummary".

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

Generator

Random sampling

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 146)

Unknown directive type "autosummary".

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

seed
manual_seed
initial_seed
get_rng_state
set_rng_state

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 156)

Unknown directive type "autoattribute".

```
.. autoattribute:: torch.default_generator
   :annotation: Returns the default CPU torch.Generator
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 165)

Unknown directive type "autosummary".

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

bernoulli
multinomial
normal
poisson
rand
rand_like
randint
randint_like
randn
randn_like
randperm

In-place random sampling

There are a few more in-place random sampling functions defined on Tensors as well. Click through to refer to their documentation:

- `:func:`torch.Tensor.bernoulli_`` - in-place version of `:func:`torch.bernoulli``

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-

resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 188); [backlink](#)

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- :func:`torch.Tensor.cauchy_` - numbers drawn from the Cauchy distribution

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 189); [backlink](#)

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- :func:`torch.Tensor.exponential_` - numbers drawn from the exponential distribution

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Unknown interpreted text role "func".

- :func:`torch.Tensor.geometric_` - elements drawn from the geometric distribution

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- :func:`torch.Tensor.log_normal_` - samples from the log-normal distribution

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- :func:`torch.Tensor.normal_` - in-place version of :func:`torch.normal`

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Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 193); [backlink](#)

Unknown interpreted text role "func".

- :func:`torch.Tensor.random_` - numbers sampled from the discrete uniform distribution

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 194); [backlink](#)

Unknown interpreted text role "func".

- :func:`torch.Tensor.uniform_` - numbers sampled from the continuous uniform distribution

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Unknown interpreted text role "func".

Quasi-random sampling

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 199)

Unknown directive type "autosummary".

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

   quasirandom.SobolEngine
```

Serialization

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 208)

Unknown directive type "autosummary".

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

   save
   load
```

Parallelism

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 217)

Unknown directive type "autosummary".

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

   get_num_threads
   set_num_threads
   get_num_interop_threads
   set_num_interop_threads
```

Locally disabling gradient computation

The context managers `:func:`torch.no_grad``, `:func:`torch.enable_grad``, and `:func:`torch.set_grad_enabled`` are helpful for locally disabling and enabling gradient computation. See [ref:locally-disable-grad](#) for more details on their usage. These context managers are thread local, so they won't work if you send work to another thread using the `threading` module, etc.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 228); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 228); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 228); [backlink](#)

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 228); [backlink](#)

Unknown interpreted text role "ref".

Examples:

```
>>> x = torch.zeros(1, requires_grad=True)
>>> with torch.no_grad():
...     y = x * 2
>>> y.requires_grad
False

>>> is_train = False
>>> with torch.set_grad_enabled(is_train):
...     y = x * 2
>>> y.requires_grad
False

>>> torch.set_grad_enabled(True) # this can also be used as a function
>>> y = x * 2
>>> y.requires_grad
True

>>> torch.set_grad_enabled(False)
>>> y = x * 2
>>> y.requires_grad
False
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 258)

Unknown directive type "autosummary".

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

   no_grad
   enable_grad
   set_grad_enabled
   is_grad_enabled
   inference_mode
   is_inference_mode_enabled
```

Math operations

Pointwise Ops

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 275)

Unknown directive type "autosummary".

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

   abs
   absolute
   acos
   arccos
   acosh
   arccosh
   add
   addcdiv
   addcmul
   angle
   asin
```

arcsin
asinh
arcsinh
atan
arctan
atanh
arctanh
atan2
arctan2
bitwise_not
bitwise_and
bitwise_or
bitwise_xor
bitwise_left_shift
bitwise_right_shift
ceil
clamp
clip
conj_physical
copysign
cos
cosh
deg2rad
div
divide
digamma
erf
erfc
erfinv
exp
exp2
expm1
fake_quantize_per_channel_affine
fake_quantize_per_tensor_affine
fix
float_power
floor
floor_divide
fmod
frac
frexp
gradient
imag
ldexp
lerp
lgamma
log
log10
log1p
log2
logaddexp
logaddexp2
logical_and
logical_not
logical_or
logical_xor
logit
hypot
i0
igamma
igammac
mul
multiply
mvlgamma
nan_to_num
neg
negative
nextafter
polygamma
positive
pow
quantized_batch_norm
quantized_max_pool1d
quantized_max_pool2d
rad2deg
real
reciprocal
remainder
round
rsqrt
sigmoid


```
sign
sgn
signbit
sin
sinc
sinh
sqrt
square
sub
subtract
tan
tanh
true_divide
trunc
xlogy
```

Reduction Ops

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 389)

Unknown directive type "autosummary".

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

   argmax
   argmin
   amax
   amin
   aminmax
   all
   any
   max
   min
   dist
   logsumexp
   mean
   nanmean
   median
   nanmedian
   mode
   norm
   nansum
   prod
   quantile
   nanquantile
   std
   std_mean
   sum
   unique
   unique_consecutive
   var
   var_mean
   count_nonzero
```

Comparison Ops

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 425)

Unknown directive type "autosummary".

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

   allclose
   argsort
   eq
   equal
   ge
   greater_equal
   gt
   greater
```

```
isclose
isfinite
isin
isinf
isposinf
isneginf
isnan
isreal
kthvalue
le
less_equal
lt
less
maximum
minimum
fmax
fmin
ne
not_equal
sort
topk
msort
```

Spectral Ops

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 463)

Unknown directive type "autosummary".

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

   stft
   istft
   bartlett_window
   blackman_window
   hamming_window
   hann_window
   kaiser_window
```

Other Operations

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 479)

Unknown directive type "autosummary".

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

   atleast_1d
   atleast_2d
   atleast_3d
   bincount
   block_diag
   broadcast_tensors
   broadcast_to
   broadcast_shapes
   bucketize
   cartesian_prod
   cdist
   clone
   combinations
   corrcoef
   cov
   cross
   cummax
   cummin
   cumprod
   cumsum
   diag
```

```
diag_embed
diagflat
diagonal
diff
einsum
flatten
flip
fliplr
flipud
kron
rot90
gcd
histc
histogram
histogramdd
meshgrid
lcm
logcumsumexp
ravel
renorm
repeat_interleave
roll
searchsorted
tensordot
trace
tril
tril_indices
triu
triu_indices
vander
view_as_real
view_as_complex
resolve_conj
resolve_neg
```

BLAS and LAPACK Operations

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 542)

Unknown directive type "autosummary".

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

   addbmm
   addmm
   addmv
   addr
   baddbmm
   bmm
   chain_matmul
   cholesky
   cholesky_inverse
   cholesky_solve
   dot
   eig
   geqrf
   ger
   inner
   inverse
   det
   logdet
   slogdet
   lstsq
   lu
   lu_solve
   lu_unpack
   matmul
   matrix_power
   matrix_rank
   matrix_exp
   mm
   mv
   orgqr
   ormqr
   outer
```

```
pinverse
qr
solve
svd
svd_lowrank
pca_lowrank
symeig
lobpcg
trapz
trapezoid
cumulative_trapezoid
triangular_solve
vdot
```

Utilities

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 594)

Unknown directive type "autosummary".

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

   compiled_with_cxx11_abi
   result_type
   can_cast
   promote_types
   use_deterministic_algorithms
   are_deterministic_algorithms_enabled
   is_deterministic_algorithms_warn_only_enabled
   set_deterministic_debug_mode
   get_deterministic_debug_mode
   set_warn_always
   is_warn_always_enabled
   vmap
   _assert
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 614)

Unknown directive type "py:module".

```
.. py:module:: torch.contrib
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 615)

Unknown directive type "py:module".

```
.. py:module:: torch.utils.backcompat
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 618)

Unknown directive type "py:module".

```
.. py:module:: torch.utils
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 621)

Unknown directive type "py:module".

```
.. py:module:: torch.utils.hipify
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master] [docs] [source] torch.rst, line 625)

Unknown directive type "py:module".

```
.. py:module:: torch.utils.model_dump
```