Ta le of Contents

torch.Tensor

A torch. Tensor is a multi- imensional matrix containing elements of a single ata type.

Data ty es

Torch efines tensor types with the following ata types:

Data type	type
32- it floating point	torch.float32 or torch.float
64- it floating point	torch.float64 Or torch.double
16- it floating point 1	torch.float16 Or torch.half
16- it floating point 2	torch.bfloat16
32- it complex	torch.complex32 Or torch.chalf
64- it complex	torch.complex64 or torch.cfloat
128- it complex	torch.complex128 Or torch.cdouble
8- it integer (unsigne)	torch.uint8
16- it integer (unsigne)	torch.uint16 (limite support) 4
32- it integer (unsigne)	torch.uint32 (limite support) 4
64- it integer (unsigne)	torch.uint64 (limite support) 4
8- it integer (signe)	torch.int8
16- it integer (signe)	torch.int16 or torch.short
32- it integer (signe)	torch.int32 or torch.int
64- it integer (signe)	torch.int64 Or torch.long
Boolean	torch.bool
quantize 8- it integer (unsigne)	torch.quint8
quantize 8- it integer (signe)	torch.qint8
quantize 32- it integer (signe)	torch.qint32
quantize 4- it integer (unsigne) 3	torch.quint4x2
8- it floating point, e4m3 5	torch.float8_e4m3fn (limite support)
8- it floating point, e5m2 5	<pre>torch.float8_e5m2 (limite support)</pre>

1

Sometimes referre to as inary16: uses 1 sign, 5 exponent, an 10 significan its. seful when precision is important at the expense of range.

2

Sometimes referre to as Brain Floating Point: uses 1 sign, 8 exponent, an 7 significan its. seful when range is important, since it has the same num er of exponent its as float32

3

quantize 4- it integer is store as a 8- it signe integer. Currently it's only supporte in Em e ingBag operator.

4(1,2,3)

nsigne types asi es from uint8 are currently planne to only have limite support in eager mo e (they primarily exist to assist usage with torch.compile); if you nee eager support an the extra range is not nee e, we recommen using their signe variants instea. See https://githu.com/pytorch/pytorch/issues/58734 for more etails.

5(1,2)

torch.float8_e4m3fn an torch.float8_e5m2 implement the spec for 8- it floating point types from https://arxiv.org/a s/2209.05433.

The op support is very limite .

For ackwar s compati ility, we support the following alternate class names for these ata types:

Data type CP tensor GP tensor

64- it floating point	torch.DoubleTensor	torch.cuda.DoubleTensor
16- it floating point	torch.HalfTensor	torch.cuda.HalfTensor
16- it floating point	torch.BFloat16Tensor	torch.cuda.BFloat16Tensor
8- it integer (unsigne)	torch.ByteTensor	torch.cuda.ByteTensor
8- it integer (signe)	torch.CharTensor	torch.cuda.CharTensor
16- it integer (signe)	torch.ShortTensor	torch.cuda.ShortTensor
32- it integer (signe)	torch.IntTensor	torch.cuda.IntTensor
64- it integer (signe)	torch.LongTensor	torch.cuda.LongTensor
Boolean	torch.BoolTensor	torch.cuda.BoolTensor

However, to construct tensors, we recommen using factory functions such as torch.empty() with the dtype argument instea . The torch.empty() with the dtype argument instea . The

Initializing an asic o erations

A tensor can e constructe from a Python list or sequence using the torch.tensor() constructor:

```
• WARNING

torch.tensor() always copies data. If you have a Tensor data an ust want to change its requires_grad flag, use

requires_grad_() or detach() to avoi a copy. If you have a numpy array an want to avoi a copy, use torch.as_tensor().
```

A tensor of specific ata type can e constructe y passing a torch.dtype an /or a torch.device to a constructor or tensor creation op:

For more information a out uil ing Tensors, see Creation Ops

The contents of a tensor can e accesse an mo ifie using Python's in exing an slicing notation:

se torch.Tensor.item() to get a Python num er from a tensor containing a single value:

```
>>> x = torch.tensor([[1]])
>>> x
tensor([[ 1]])
>>> x.item()
1
>>> x = torch.tensor(2.5)
>>> x
tensor(2.5000)
>>> x.item()
2.5
```

For more information a out in exing, see In exing, Slicing, Joining, Mutating Ops

A tensor can e create with requires_grad=True so that torch.autograd recor s operations on them for automatic ifferentiation.

Each tensor has an associate torch. Storage, which holds its ata. The tensor class also provides multi-imensional, stride view of a storage and efines numeric operations on it.

```
    NOTE
    For more information on tensor views, see Tensor Views.
    NOTE
    For more information on the torch.dtype, torch.device, an torch.layout attri utes of a torch.Tensor, see Tensor Attri utes.
    NOTE
```

NOTE

To change an existing tensor's torch.device an /or torch.dtype, consi er using to() metho on the tensor.

• WARNING

Current implementation of torch. Tensor intro uces memory overhea, thus it might lea to unexpecte ly high memory usage in the applications with many tiny tensors. If this is your case, consi er using one large structure.

Tensor class reference

CLASS torch.Tensor

There are a few main ways to create a tensor, epen ing on your use case.

- To create a tensor with pre-existing ata, use torch.tensor().
- To create a tensor with specific size, use torch.* tensor creation ops (see Creation Ops).
- To create a tensor with the same size (an similar types) as another tensor, use torch.*_like tensor creation ops (see Creation Ops).
- To create a tensor with similar type ut ifferent size as another tensor, use tensor.new_* creation ops.
- There is a legacy constructor torch. Tensor whose use is iscourage . se torch.tensor() instea .

Tensor.__init__(self, data)

This constructor is eprecate, we recommen using torch.tensor() instea. What this constructor oes epen s on the type of data.

- If data is a Tensor, returns an alias to the original Tensor. nlike torch.tensor(), this tracks autogra an will propagate gra ients to the original Tensor. device kwarg is not supporte for this data type.
- If data is a sequence or neste sequence, create a tensor of the efault type (typically torch.float32) whose ata is the values in the sequences, performing coercions if necessary. Notally, this iffers from torch.tensor() in that this constructor will always construct a float tensor, even if the inputs are all integers.
- If data is a torch.Size, returns an empty tensor of that size.

This constructor oes not support explicitly specifying dtype or device of the returne tensor. We recommen using torch.tensor() which provi es this functionality.

Args:

ata (array_like): The tensor to construct from.

Keywor args:

evice (torch.device, optional): the esire evice of returne tensor.

Default: if None, same torch.device as this tensor.

Tensor.T

Returns a view of this tensor with its imensions reverse.

If n is the num er of imensions in x, x.T is equivalent to x.permute(n-1, n-2, ..., 0).

• WARNING

The use of Tensor.T() on tensors of imension other than 2 to reverse their shape is eprecate an it will throw an error in a future release. Consi er \overline{mT} to transpose atches of matrices or x.permute(*torch.arange(x.ndim-1,-1,-1)) to reverse the imensions of a tensor.

Tensor.H

Returns a view of a matrix (2-D tensor) con ugate an transpose .

x.H is equivalent to x.transpose(0, 1).conj() for complex matrices an x.transpose(0, 1) for real matrices.

• SEE ALSO

mH: An attri ute that also works on atches of matrices.

Tensor.mT

Returns a view of this tensor with the last two imensions transpose.

x.mT is equivalent to x.transpose(-2, -1).

Tensor.mH

Accessing this property is equivalent to calling adjoint().

Tensor.new_tensor	Returns a new Tensor with data as the tensor ata.
Tensor.new_full	Returns a Tensor of size size fille with fill_value.
Tensor.new_empty	Returns a Tensor of size size fille with uninitialize ata.
Tensor.new_ones	Returns a Tensor of size size fille with 1.
Tensor.new_zeros	Returns a Tensor of size size fille with 0.
Tensor.is_cuda	Is True if the Tensor is store on the GP , False otherwise.
Tensor.is_quantized	Is True if the Tensor is quantize , False otherwise.
Tensor.is_meta	Is True if the Tensor is a meta tensor, False otherwise.
Tensor.device	Is the torch.device where this Tensor is.
Tensor.grad	This attri ute is None y efault an ecomes a Tensor the first time a call to backward() computes gra ients for self.

Tensor.real	Returns a new tensor containing real values of the self tensor for a complex-value input tensor.
Tensor.imag	Returns a new tensor containing imaginary values of the self tensor.
Tensor.nbytes	Returns the num er of ytes consume y the "view" of elements of the Tensor if the Tensor oes not use sparse storage layout.
Tensor.itemsize	Alias for element_size()
Tensor.abs	See torch.abs()
Tensor.abs_	In-place version of abs()
Tensor.absolute	Alias for abs()
Tensor.absolute_	In-place version of absolute() Alias for abs_()
Tensor.acos	See torch.acos()
Tensor.acos_	In-place version of acos()
Tensor.arccos	See torch.arccos()
Tensor.arccos_	In-place version of arccos()
Tensor.add	A a scalar or tensor to self tensor.
Tensor.add_	In-place version of add()
Tensor.addbmm	See torch.addbmm()
Tensor.addbmm_	In-place version of addbmm()
Tensor.addcdiv	See torch.addcdiv()
Tensor.addcdiv_	In-place version of addcdiv()
Tensor.addcmul	See torch.addcmul()
Tensor.addcmul_	In-place version of addcmul()
Tensor.addmm	See torch.addmm()
Tensor.addmm_	In-place version of addmm()
Tensor.sspaddmm	See torch.sspaddmm()
Tensor.addmv	See torch.addmv()
Tensor.addmv_	In-place version of addmv()
Tensor.addr	See torch.addr()
Tensor.addr_	In-place version of addr()
Tensor.adjoint	Alias for adjoint()
Tensor.allclose	See torch.allclose()
Tensor.amax	See torch.amax()
Tensor.amin	See torch.amin()
Tensor.aminmax	See torch.aminmax()
Tensor.angle	See torch.angle()
Tensor.apply_	Applies the function callable to each element in the tensor, replacing each element with the value returne y callable.
Tensor.argmax	See torch.argmax()
Tensor.argmin	See torch.argmin()

Tensor.asin	See torch.asin()
Tensor.asin_	In-place version of asin()
Tensor.arcsin	See torch.arcsin()
Tensor.arcsin_	In-place version of arcsin()
Tensor.as_strided	See torch.as_strided()
Tensor.atan	See torch.atan()
Tensor.atan_	In-place version of atan()
Tensor.arctan	See torch.arctan()
Tensor.arctan_	In-place version of arctan()
Tensor.atan2	See torch.atan2()
Tensor.atan2_	In-place version of atan2()
Tensor.arctan2	See torch.arctan2()
Tensor.arctan2_	atan2_(other) -> Tensor
Tensor.all	See torch.all()
Tensor.any	See torch.any()
Tensor.backward	Computes the gra ient of current tensor wrt graph leaves.
Tensor.baddbmm	See torch.baddbmm()
Tensor.baddbmm_	In-place version of baddbmm()
Tensor.bernoulli	Returns a result tensor where each $\texttt{result[i]}$ is in epen ently sample from $\operatorname{Bernoulli}(\texttt{self[i]})$.
Tensor.bernoulli_	Fills each location of $self$ with an in epen ent sample from $Bernoulli(p)$.
Tensor.bfloat16	<pre>self.bfloat16() is equivalent to self.to(torch.bfloat16).</pre>
Tensor.bincount	See torch.bincount()
Tensor.bitwise_not	See torch.bitwise_not()
Tensor.bitwise_not_	In-place version of <pre>bitwise_not()</pre>
Tensor.bitwise_and	See torch.bitwise_and()
Tensor.bitwise_and_	In-place version of <pre>bitwise_and()</pre>
Tensor.bitwise_or	See torch.bitwise_or()
Tensor.bitwise_or_	In-place version of <pre>bitwise_or()</pre>
Tensor.bitwise_xor	See torch.bitwise_xor()
Tensor.bitwise_xor_	In-place version of <pre>bitwise_xor()</pre>
Tensor.bitwise_left_shift	See torch.bitwise_left_shift()
Tensor.bitwise_left_shift_	In-place version of <pre>bitwise_left_shift()</pre>
Tensor.bitwise_right_shift	See torch.bitwise_right_shift()
Tensor.bitwise_right_shift_	<pre>In-place version of bitwise_right_shift()</pre>
Tensor.bmm	See torch.bmm()
Tensor.bool	<pre>self.bool() is equivalent to self.to(torch.bool).</pre>
Tensor.byte	<pre>self.byte() is equivalent to self.to(torch.uint8).</pre>

Tensor.cauchy_	Fills the tensor with num ers rawn from the Cauchy istri ution:
Tensor.ceil	See torch.ceil()
Tensor.ceil_	In-place version of ceil()
Tensor.char	<pre>self.char() is equivalent to self.to(torch.int8).</pre>
Tensor.cholesky	See torch.cholesky()
Tensor.cholesky_inverse	See torch.cholesky_inverse()
Tensor.cholesky_solve	See torch.cholesky_solve()
Tensor.chunk	See torch.chunk()
Tensor.clamp	See torch.clamp()
Tensor.clamp_	In-place version of clamp()
Tensor.clip	Alias for clamp().
Tensor.clip_	Alias for <pre>clamp_().</pre>
Tensor.clone	See torch.clone()
Tensor.contiguous	Returns a contiguous in memory tensor containing the same ata as self tensor.
Tensor.copy_	Copies the elements from <pre>src into self tensor an returns self.</pre>
Tensor.conj	See torch.conj()
Tensor.conj_physical	See torch.conj_physical()
Tensor.conj_physical_	In-place version of <pre>conj_physical()</pre>
Tensor.resolve_conj	See torch.resolve_conj()
Tensor.resolve_neg	See torch.resolve_neg()
Tensor.copysign	See torch.copysign()
Tensor.copysign_	In-place version of copysign()
Tensor.cos	See torch.cos()
Tensor.cos_	In-place version of cos()
Tensor.cosh	See torch.cosh()
Tensor.cosh_	In-place version of cosh()
Tensor.corrcoef	See torch.corrcoef()
Tensor.count_nonzero	See torch.count_nonzero()
Tensor.cov	See torch.cov()
Tensor.acosh	See torch.acosh()
Tensor.acosh_	In-place version of acosh()
Tensor.arccosh	acosh() -> Tensor
Tensor.arccosh_	acosh_() -> Tensor
Tensor.cpu	Returns a copy of this o ect in CP memory.
Tensor.cross	See torch.cross()
Tensor.cuda	Returns a copy of this o ect in C DA memory.
Tensor.logcumsumexp	See torch.logcumsumexp()
o timize your ex erience, we serve cookies on this site. By clicking or	navigating, you agree to allow our usage of cookies. As the current maint

Tensor.cummin	See torch.cummin()
Tensor.cumprod	See torch.cumprod()
Tensor.cumprod_	In-place version of cumprod()
Tensor.cumsum	See torch.cumsum()
Tensor.cumsum_	In-place version of cumsum()
Tensor.chalf	<pre>self.chalf() is equivalent to self.to(torch.complex32).</pre>
Tensor.cfloat	<pre>self.cfloat() is equivalent to self.to(torch.complex64).</pre>
Tensor.cdouble	<pre>self.cdouble() is equivalent to self.to(torch.complex128).</pre>
Tensor.data_ptr	Returns the a ress of the first element of self tensor.
Tensor.deg2rad	See torch.deg2rad()
Tensor.dequantize	Given a quantize Tensor, equantize it an return the equantize float Tensor.
Tensor.det	See torch.det()
Tensor.dense_dim	Return the num er of ense imensions in a sparse tensor self.
Tensor.detach	Returns a new Tensor, etache from the current graph.
Tensor.detach_	Detaches the Tensor from the graph that create it, making it a leaf.
Tensor.diag	See torch.diag()
Tensor.diag_embed	See torch.diag_embed()
Tensor.diagflat	See torch.diagflat()
Tensor.diagonal	See torch.diagonal()
Tensor.diagonal_scatter	See torch.diagonal_scatter()
Tensor.fill_diagonal_	Fill the main iagonal of a tensor that has at least 2- imensions.
Tensor.fmax	See torch.fmax()
Tensor.fmin	See torch.fmin()
Tensor.diff	See torch.diff()
Tensor.digamma	See torch.digamma()
Tensor.digamma_	In-place version of digamma()
Tensor.dim	Returns the num er of imensions of self tensor.
Tensor.dim_order	Returns the uniquely etermine tuple of int escri ing the im or er or physical layout of self.
Tensor.dist	See torch.dist()
Tensor.div	See torch.div()
Tensor.div_	In-place version of div()
Tensor.divide	See torch.divide()
Tensor.divide_	In-place version of divide()
Tensor.dot	See torch.dot()
Tensor.double	<pre>self.double() is equivalent to self.to(torch.float64).</pre>
Tensor.dsplit	See torch.dsplit()

Tensor.eq_	In-place version of eq()
Tensor.equal	See torch.equal()
Tensor.erf	See torch.erf()
Tensor.erf_	In-place version of erf()
Tensor.erfc	See torch.erfc()
Tensor.erfc_	In-place version of erfc()
Tensor.erfinv	See torch.erfinv()
Tensor.erfinv_	In-place version of erfinv()
Tensor.exp	See torch.exp()
Tensor.exp_	In-place version of exp()
Tensor.expm1	See torch.expm1()
Tensor.expm1_	In-place version of expm1()
Tensor.expand	Returns a new view of the self tensor with singleton imensions expan e to a larger size.
Tensor.expand_as	Expan this tensor to the same size as other.
Tensor.exponential_	Fills self tensor with elements rawn from the PDF (pro a ility ensity function):
Tensor.fix	See torch.fix().
Tensor.fix_	In-place version of fix()
Tensor.fill_	Fills self tensor with the specifie value.
Tensor.flatten	See torch.flatten()
Tensor.flip	See torch.flip()
Tensor.fliplr	See torch.fliplr()
Tensor.flipud	See torch.flipud()
Tensor.float	<pre>self.float() is equivalent to self.to(torch.float32).</pre>
Tensor.float_power	See torch.float_power()
Tensor.float_power_	In-place version of <pre>float_power()</pre>
Tensor.floor	See torch.floor()
Tensor.floor_	In-place version of floor()
Tensor.floor_divide	See torch.floor_divide()
Tensor.floor_divide_	In-place version of floor_divide()
Tensor.fmod	See torch.fmod()
Tensor.fmod_	In-place version of fmod()
Tensor.frac	See torch.frac()
Tensor.frac_	In-place version of frac()
Tensor.frexp	See torch.frexp()
Tensor.gather	See torch.gather()
Tensor.gcd	See torch.gcd()
Tensor.gcd_	In-place version of gcd()
o timize your ex erience, we serve cookies on this site. By clicking or	navigating, you agree to allow our usage of cookies. As the current main

Tensor.ge_	In-place version of ge().
Tensor.greater_equal	See torch.greater_equal().
Tensor.greater_equal_	In-place version of <pre>greater_equal()</pre> .
Tensor.geometric_	Fills self tensor with elements rawn from the geometric istri ution:
Tensor.geqrf	See torch.geqrf()
Tensor.ger	See torch.ger()
Tensor.get_device	For C DA tensors, this function returns the evice or inal of the GP on which the tensor resi es.
Tensor.gt	See torch.gt().
Tensor.gt_	In-place version of gt().
Tensor.greater	See torch.greater().
Tensor.greater_	In-place version of greater().
Tensor.half	<pre>self.half() is equivalent to self.to(torch.float16).</pre>
Tensor.hardshrink	See torch.nn.functional.hardshrink()
Tensor.heaviside	See torch.heaviside()
Tensor.histc	See torch.histc()
Tensor.histogram	See torch.histogram()
Tensor.hsplit	See torch.hsplit()
Tensor.hypot	See torch.hypot()
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Tensor.hypot_	In-place version of hypot()
Tensor.i0	In-place version of hypot() See torch.i0()
Tensor.i0	See torch.i0()
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Tensor.i0 Tensor.igamma Tensor.igamma_ Tensor.igammac Tensor.igammac Tensor.index_add_ Tensor.index_add Tensor.index_copy_ Tensor.index_copy Tensor.index_fill_ Tensor.index_fill Tensor.index_put_	In-place version of i0() See torch.igamma() In-place version of igamma() See torch.igamma() In-place version of igammac() Accumulate the elements of alpha times source into the self tensor ya ing to the in ices in the or er given in index. Out-of-place version of torch.Tensor.index_add_(). Copies the elements of tensor into the self tensor y selecting the in ices in the or er given in index. Out-of-place version of torch.Tensor.index_copy_(). Fills the elements of the self tensor with value value y selecting the in ices in the or er given in index. Out-of-place version of torch.Tensor.index_fill_(). Puts values from the tensor values into the tensor self using the in ices specifie in indices (which is a tuple of Tensors).

Tensor.indices	Return the in ices tensor of a sparse COO tensor.
Tensor.inner	See torch.inner().
Tensor.int	<pre>self.int() is equivalent to self.to(torch.int32).</pre>
Tensor.int_repr	Given a quantize Tensor, <pre>self.int_repr()</pre> returns a CP Tensor with uint8_t as ata type that stores the un erlying uint8_t values of the given Tensor.
Tensor.inverse	See torch.inverse()
Tensor.isclose	See torch.isclose()
Tensor.isfinite	See torch.isfinite()
Tensor.isinf	See torch.isinf()
Tensor.isposinf	See torch.isposinf()
Tensor.isneginf	See torch.isneginf()
Tensor.isnan	See torch.isnan()
Tensor.is_contiguous	Returns True if self tensor is contiguous in memory in the or er specifie y memory format.
Tensor.is_complex	Returns True if the ata type of self is a complex ata type.
Tensor.is_conj	Returns True if the con ugate it of self is set to true.
Tensor.is_floating_point	Returns True if the ata type of self is a floating point ata type.
Tensor.is_inference	See torch.is_inference()
Tensor.is_leaf	All Tensors that have requires_grad which is False will e leaf Tensors y convention.
Tensor.is_pinned	Returns true if this tensor resi es in pinne memory.
Tensor.is_set_to	Returns True if oth tensors are pointing to the exact same memory (same storage, offset, size an stri e).
Tensor.is_shared	Checks if tensor is in share memory.
Tensor.is_signed	Returns True if the ata type of self is a signe ata type.
Tensor.is_sparse	Is True if the Tensor uses sparse COO storage layout, False otherwise.
Tensor.istft	See torch.istft()
Tensor.isreal	See torch.isreal()
Tensor.item	Returns the value of this tensor as a stan ar Python num er.
Tensor.kthvalue	See torch.kthvalue()
Tensor.lcm	See torch.lcm()
Tensor.lcm_	In-place version of <pre>lcm()</pre>
Tensor.ldexp	See torch.ldexp()
Tensor.ldexp_	In-place version of ldexp()
Tensor.le	See torch.le().
Tensor.le_	In-place version of le().
Tensor.less_equal	See torch.less_equal().
Tensor.less_equal_	In-place version of <pre>less_equal()</pre> .
Tensor.lerp	See torch.lerp()
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Tensor.lgamma_	In-place version of lgamma()
Tensor.log	See torch.log()
Tensor.log_	In-place version of log()
Tensor.logdet	See torch.logdet()
Tensor.log10	See torch.log10()
Tensor.log10_	In-place version of log10()
Tensor.log1p	See torch.log1p()
Tensor.log1p_	In-place version of log1p()
Tensor.log2	See torch.log2()
Tensor.log2_	In-place version of log2()
Tensor.log_normal_	Fills self tensor with numers samples from the log-normal istricution parameterize by the given mean μ and standard eviation σ .
Tensor.logaddexp	See torch.logaddexp()
Tensor.logaddexp2	See torch.logaddexp2()
Tensor.logsumexp	See torch.logsumexp()
Tensor.logical_and	See torch.logical_and()
Tensor.logical_and_	In-place version of <pre>logical_and()</pre>
Tensor.logical_not	See torch.logical_not()
Tensor.logical_not_	In-place version of <pre>logical_not()</pre>
Tensor.logical_or	See torch.logical_or()
Tensor.logical_or_	In-place version of <pre>logical_or()</pre>
Tensor.logical_xor	See torch.logical_xor()
Tensor.logical_xor_	In-place version of <pre>logical_xor()</pre>
Tensor.logit	See torch.logit()
Tensor.logit_	In-place version of logit()
Tensor.long	<pre>self.long() is equivalent to self.to(torch.int64).</pre>
Tensor.lt	See torch.lt().
Tensor.lt_	In-place version of 1t() .
Tensor.less	lt(other) -> Tensor
Tensor.less_	In-place version of less().
Tensor.lu	See torch.lu()
Tensor.lu_solve	See torch.lu_solve()
Tensor.as_subclass	Makes a cls instance with the same ata pointer as self.
Tensor.map_	Applies callable for each element in self tensor an the given tensor an stores the results in self tensor.
Tensor.masked_scatter_	Copies elements from source into self tensor at positions where the mask is True.
Tensor.masked_scatter	Out-of-place version of torch.Tensor.masked_scatter_()
Tensor.masked_fill_	Fills elements of self tensor with value where mask is True.
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	Tensor.masked_select	See torch.masked_select()
Transaction Constraint and Constra	Tensor.matmul	See torch.matmul()
Temperature Set temperature	Tensor.matrix_power	<pre>matrix_power() is eprecate , use</pre>
Theorem and Control of the control o	Tensor.matrix_exp	See torch.matrix_exp()
Temperature Section	Tensor.max	See torch.max()
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Tensor_maintens	Tensor.nanmean	See torch.nanmean()
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Tensor.nan_to_num_ In-place version of nan_to_num(). Tensor.ne See torch.ne(). Tensor.ne_ In-place version of ne().	Tensor.ndimension	Alias for dim()
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Tensor.ne_ In-place version of ne().	Tensor.nan_to_num_	In-place version of <pre>nan_to_num()</pre> .
	Tensor.ne	See torch.ne().
Tensor.not_equal See torch.not_equal().	Tensor.ne_	In-place version of ne().
	Tensor.not_equal	See torch.not_equal().

Tensor.neg	See torch.neg()		
Tensor.neg_	In-place version of neg()		
Tensor.negative	See torch.negative()		
Tensor.negative_	In-place version of negative()		
Tensor.nelement	Alias for numel()		
Tensor.nextafter	See torch.nextafter()		
Tensor.nextafter_	In-place version of nextafter()		
Tensor.nonzero	See torch.nonzero()		
Tensor.norm	See torch.norm()		
Tensor.normal_	Fills self tensor with elements samples from the normal istri ution parameterize y mean an std .		
Tensor.numel	See torch.numel()		
Tensor.numpy	Returns the tensor as a NumPy ndarray.		
Tensor.orgqr	See torch.orgqr()		
Tensor.ormqr	See torch.ormqr()		
Tensor.outer	See torch.outer().		
Tensor.permute	See torch.permute()		
Tensor.pin_memory	Copies the tensor to pinne memory, if it's not alrea y pinne .		
Tensor.pinverse	See torch.pinverse()		
Tensor.polygamma	See torch.polygamma()		
Tensor.polygamma_	In-place version of polygamma()		
Tensor.positive	See torch.positive()		
Tensor.pow	See torch.pow()		
Tensor.pow_	In-place version of pow()		
Tensor.prod	See torch.prod()		
Tensor.put_	Copies the elements from source into the positions specifie y index.		
Tensor.qr	See torch.qr()		
Tensor.qscheme	Returns the quantization scheme of a given QTensor.		
Tensor.quantile	See torch.quantile()		
Tensor.nanquantile	See torch.nanquantile()		
Tensor.q_scale	Given a Tensor quantize y linear(affine) quantization, returns the scale of the un erlying quantizer().		
Tensor.q_zero_point	Given a Tensor quantize y linear(affine) quantization, returns the zero_point of the un erlying quantizer().		
Tensor.q_per_channel_scales	Given a Tensor quantize y linear (affine) per-channel quantization, returns a Tensor of scales of the un erlying quantizer.		
Tensor.q_per_channel_zero_points	Given a Tensor quantize y linear (affine) per-channel quantization, returns a tensor of zero_points of the un erlying quantizer.		
Tensor.q_per_channel_axis	Given a Tensor quantize y linear (affine) per-channel quantization, returns the in ex of imension on which per-channel quantization is applie .		
Tensor.rad2deg	See torch.rad2deg()		
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Tensor.ravel	<pre>see torch.ravel()</pre>			
Tensor.reciprocal	See torch.reciprocal()			
Tensor.reciprocal_	In-place version of reciprocal()			
Tensor.record_stream	Marks the tensor as having een use y this stream.			
Tensor.register_hook	Registers a ackwar hook.			
Tensor.register_post_accumulate_grad_hook	Registers a ackwar hook that runs after gra accumulation.			
Tensor.remainder	See torch.remainder()			
Tensor.remainder_	In-place version of remainder()			
Tensor.renorm	See torch.renorm()			
Tensor.renorm_	In-place version of renorm()			
Tensor.repeat	Repeats this tensor along the specifie imensions.			
Tensor.repeat_interleave	See torch.repeat_interleave().			
Tensor.requires_grad	Is True if gra ients nee to e compute for this Tensor, False otherwise.			
Tensor.requires_grad_	Change if autogra shoul recor operations on this tensor: sets this tensor's <pre>requires_grad</pre> attri ute in-place.			
Tensor.reshape	Returns a tensor with the same ata an num er of elements as self ut with the specifie shape.			
Tensor.reshape_as	Returns this tensor as the same shape as other.			
Tensor.resize_	Resizes self tensor to the specifie size.			
Tensor.resize_as_	Resizes the self tensor to e the same size as the specifie tensor.			
Tensor.retain_grad	Ena les this Tensor to have their grad populate uring backward().			
Tensor.retains_grad	Is True if this Tensor is non-leaf an its grad is enalle to e populate uring backward(), False otherwise.			
Tensor.roll	See torch.roll()			
Tensor.rot90	See torch.rot90()			
Tensor.round	See torch.round()			
Tensor.round_	In-place version of round()			
Tensor.rsqrt	See torch.rsqrt()			
Tensor.rsqrt_	In-place version of rsqrt()			
Tensor.scatter	Out-of-place version of torch.Tensor.scatter_()			
Tensor.scatter_	Writes all values from the tensor <pre>src into self</pre> at the in ices specifie in the <pre>index</pre> tensor.			
Tensor.scatter_add_	A sall values from the tensor src into self at the in ices specifie in the index tensor in a similar fashion as scatter_().			
Tensor.scatter_add	Out-of-place version of torch.Tensor.scatter_add_()			
Tensor.scatter_reduce_	Re uces all values from the <pre>src</pre> tensor to the in ices specifie in the <pre>index</pre> tensor in the <pre>self</pre> tensor using the applie re uction efine via the <pre>reduce</pre> argument ("sum", "prod", "mean", "amax", "amin").			
Tensor.scatter_reduce	Out-of-place version of <pre>torch.Tensor.scatter_reduce_()</pre>			
Tensor.select	See torch.select()			
Tensor.select_scatter	See torch.select_scatter()			

Tensor.share_memory_	Moves the un erlying storage to share memory.		
Tensor.short	<pre>self.short() is equivalent to self.to(torch.int16).</pre>		
Tensor.sigmoid	See torch.sigmoid()		
Tensor.sigmoid_	In-place version of <pre>sigmoid()</pre>		
Tensor.sign	See torch.sign()		
Tensor.sign_	In-place version of sign()		
Tensor.signbit	See torch.signbit()		
Tensor.sgn	See torch.sgn()		
Tensor.sgn_	In-place version of sgn()		
Tensor.sin	See torch.sin()		
Tensor.sin_	In-place version of sin()		
Tensor.sinc	See torch.sinc()		
Tensor.sinc_	In-place version of sinc()		
Tensor.sinh	See torch.sinh()		
Tensor.sinh_	In-place version of sinh()		
Tensor.asinh	See torch.asinh()		
Tensor.asinh_	In-place version of asinh()		
Tensor.arcsinh	See torch.arcsinh()		
Tensor.arcsinh_	In-place version of arcsinh()		
Tensor.shape	Returns the size of the self tensor.		
Tensor.size	Returns the size of the self tensor.		
Tensor.slogdet	See torch.slogdet()		
Tensor.slice_scatter	See torch.slice_scatter()		
Tensor.softmax	Alias for torch.nn.functional.softmax().		
Tensor.sort	See torch.sort()		
Tensor.split	See torch.split()		
Tensor.sparse_mask	Returns a new sparse tensor with values from a strie tensor self filtere y the in ices of the sparse tensor mask.		
Tensor.sparse_dim	Return the num er of sparse imensions in a sparse tensor self.		
Tensor.sqrt	See torch.sqrt()		
Tensor.sqrt_	In-place version of sqrt()		
Tensor.square	See torch.square()		
Tensor.square_	In-place version of square()		
Tensor.squeeze	See torch.squeeze()		
Tensor.squeeze_	In-place version of squeeze()		
Tensor.std	See torch.std()		
Tensor.stft	See torch.stft()		
Tensor.storage	Returns the un erlying TypedStorage.		
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Tensor.storage_offset	Returns self tensor's offset in the un erlying storage in terms of num er of storage elements (not ytes).		
Tensor.storage_type	Returns the type of the un erlying storage.		
Tensor.stride	Returns the stri e of self tensor.		
Tensor.sub	See torch.sub().		
Tensor.sub_	In-place version of sub()		
Tensor.subtract	See torch.subtract().		
Tensor.subtract_	In-place version of subtract().		
Tensor.sum	See torch.sum()		
Tensor.sum_to_size	Sum this tensor to size.		
Tensor.svd	See torch.svd()		
Tensor.swapaxes	See torch.swapaxes()		
Tensor.swapdims	See torch.swapdims()		
Tensor.t	See torch.t()		
Tensor.t_	In-place version of t()		
Tensor.tensor_split	See torch.tensor_split()		
Tensor.tile	See torch.tile()		
Tensor.to	Performs Tensor type an /or evice conversion.		
Tensor.to_mkldnn	Returns a copy of the tensor in torch.mkldnn layout.		
Tensor.take	See torch.take()		
Tensor.take_along_dim	See torch.take_along_dim()		
Tensor.tan	See torch.tan()		
Tensor.tan_	In-place version of tan()		
Tensor.tanh	See torch.tanh()		
Tensor.tanh_	In-place version of tanh()		
Tensor.atanh	See torch.atanh()		
Tensor.atanh_	In-place version of atanh()		
Tensor.arctanh	See torch.arctanh()		
Tensor.arctanh_	In-place version of arctanh()		
Tensor.tolist	Returns the tensor as a (neste) list.		
Tensor.topk	See torch.topk()		
Tensor.to_dense	Creates a stri e copy of self if self is not a stri e tensor, otherwise returns self.		
Tensor.to_sparse	Returns a sparse copy of the tensor.		
Tensor.to_sparse_csr	Convert a tensor to compresse row storage format (CSR).		
Tensor.to_sparse_csc	Convert a tensor to compresse column storage (CSC) format.		
Tensor.to_sparse_bsr	Convert a tensor to a lock sparse row (BSR) storage format of given locksize.		
Tensor.to_sparse_bsc	Convert a tensor to a lock sparse column (BSC) storage format of given locksize.		
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Tensor.transpose_	In-place version of transpose()		
Tensor.triangular_solve	See torch.triangular_solve()		
Tensor.tril	See torch.tril()		
Tensor.tril_	In-place version of tril()		
Tensor.triu	See torch.triu()		
Tensor.triu_	In-place version of triu()		
Tensor.true_divide	See torch.true_divide()		
Tensor.true_divide_	In-place version of true_divide_()		
Tensor.trunc	See torch.trunc()		
Tensor.trunc_	In-place version of trunc()		
Tensor.type	Returns the type if <i>dtype</i> is not provi e, else casts this o ect to the specifie type.		
Tensor.type_as	Returns this tensor cast to the type of the given tensor.		
Tensor.unbind	See torch.unbind()		
Tensor.unflatten	See torch.unflatten().		
Tensor.unfold	Returns a view of the original tensor which contains all slices of size size from self tensor in the imension dimension.		
Tensor.uniform_	Fills self tensor with num ers sample from the continuous uniform istri ution:		
Tensor.unique	Returns the unique elements of the input tensor.		
Tensor.unique_consecutive	Eliminates all ut the first element from every consecutive group of equivalent elements.		
Tensor.unsqueeze	See torch.unsqueeze()		
Tensor.unsqueeze_	In-place version of unsqueeze()		
Tensor.values	Return the values tensor of a sparse COO tensor.		
Tensor.var	See torch.var()		
Tensor.vdot	See torch.vdot()		
Tensor.view	Returns a new tensor with the same ata as the self tensor ut of a ifferent shape.		
Tensor.view_as	View this tensor as the same size as other.		
Tensor.vsplit	See torch.vsplit()		
Tensor.where	<pre>self.where(condition, y) is equivalent to torch.where(condition, self, y).</pre>		
Tensor.xlogy	See torch.xlogy()		
Tensor.xlogy_	In-place version of xlogy()		
Tensor.xpu	Returns a copy of this o ect in XP memory.		
Tensor.zero_	Fills self tensor with zeros.		

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