Named Tensors operator coverage

> **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 1`)**
>
> Unknown directive type "currentmodule".
>
> ```
> .. currentmodule:: torch
> ```

Please read :ref:`named_tensors-doc` first for an introduction to named tensors.

> **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 8`); *backlink***
>
> Unknown interpreted text role "ref".

This document is a reference for *name inference*, a process that defines how named tensors:

1. use names to provide additional automatic runtime correctness checks
2. propagate names from input tensors to output tensors

Below is a list of all operations that are supported with named tensors and their associated name inference rules.

If you don't see an operation listed here, but it would help your use case, please search if an issue has already been filed and if not, file one.

> **Warning**
>
> The named tensor API is experimental and subject to change.

Supported Operations

API	Name inference rule
:meth:`Tensor.abs`, :func:`torch.abs` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink*** Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink*** Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink*** Unknown interpreted text role "ref".
:meth:`Tensor.abs_` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink*** Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink*** Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.acos`, :func:`torch.acos`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); backlink Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); backlink** Unknown interpreted text role "func".	**System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); backlink** Unknown interpreted text role "ref".
:meth:`Tensor.acos_`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); backlink Unknown interpreted text role "meth".	**System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); backlink** Unknown interpreted text role "ref".
:meth:`Tensor.add`, :func:`torch.add`	:ref:`unifies_names_from_inputs-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); backlink Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); backlink** Unknown interpreted text role "func".	**System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); backlink** Unknown interpreted text role "ref".
:meth:`Tensor.add_`	:ref:`unifies_names_from_inputs-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); backlink Unknown interpreted text role "meth".	**System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); backlink** Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.addmm`, :func:`torch.addmm`	:ref:`contracts_away_dims-doc`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

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System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "ref".

:meth:`Tensor.addmm_`   :ref:`contracts_away_dims-doc`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

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:meth:`Tensor.addmv`, :func:`torch.addmv`   :ref:`contracts_away_dims-doc`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

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System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "ref".

:meth:`Tensor.addmv_`   :ref:`contracts_away_dims-doc`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.align_as` **System Message: ERROR/3** `(D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29);` *backlink* Unknown interpreted text role "meth".	See documentation
:meth:`Tensor.align_to` **System Message: ERROR/3** `(D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29);` *backlink* Unknown interpreted text role "meth".	See documentation
:meth:`Tensor.all`, :func:`torch.all` **System Message: ERROR/3** `(D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29);` *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** `(D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29);` *backlink* Unknown interpreted text role "func".	None
:meth:`Tensor.any`, :func:`torch.any` **System Message: ERROR/3** `(D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29);` *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** `(D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29);` *backlink* Unknown interpreted text role "func".	None

API	Name inference rule
:meth:`Tensor.asin`, :func:`torch.asin`	:ref:`keeps_input_names-doc`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

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System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

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System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "ref".

:meth:`Tensor.asin_` :ref:`keeps_input_names-doc`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "ref".

:meth:`Tensor.atan`, :func:`torch.atan` :ref:`keeps_input_names-doc`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.atan2`, :func:`torch.atan2` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`unifies_names_from_inputs-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.atan2_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	:ref:`unifies_names_from_inputs-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.atan_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.bernoulli`, :func:`torch.bernoulli` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.bernoulli_` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "meth".	None
:meth:`Tensor.bfloat16` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "ref".
:meth:`Tensor.bitwise_not`, :func:`torch.bitwise_not` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "ref".
:meth:`Tensor.bitwise_not_` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.bmm`, :func:`torch.bmm` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "func".	:ref:`contracts_away_dims-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.bool` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.byte` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:func:`torch.cat` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "func".	:ref:`unifies_names_from_inputs-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.cauchy_` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.ceil`, :func:`torch.ceil`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.ceil_`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	
:meth:`Tensor.char`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.chunk`, :func:`torch.chunk`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.clamp`, :func:`torch.clamp`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.clamp_`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	
:meth:`Tensor.copy_`	:ref:`out_function_semantics-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.cos`, :func:`torch.cos`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.cos_` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "meth".	None
:meth:`Tensor.cosh`, :func:`torch.cosh` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "ref".
:meth:`Tensor.cosh_` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "meth".	None
:meth:`Tensor.acosh`, :func:`torch.acosh` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*** Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.acosh_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.cpu` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.cuda` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.cumprod`, :func:`torch.cumprod` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.cumsum`, :func:`torch.cumsum` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.data_ptr` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.deg2rad`, :func:`torch.deg2rad` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.deg2rad_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.detach`, :func:`torch.detach`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29); backlink	**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29); backlink**
Unknown interpreted text role "meth".	Unknown interpreted text role "ref".
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29); backlink	
Unknown interpreted text role "func".	
:meth:`Tensor.detach_`	None
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29); backlink	
Unknown interpreted text role "meth".	
:attr:`Tensor.device`, :func:`torch.device`	None
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29); backlink	
Unknown interpreted text role "attr".	
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29); backlink	
Unknown interpreted text role "func".	

API	Name inference rule
:meth:`Tensor.digamma`, :func:`torch.digamma`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.digamma_`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink* Unknown interpreted text role "meth".	
:meth:`Tensor.dim`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink* Unknown interpreted text role "meth".	
:meth:`Tensor.div`, :func:`torch.div`	:ref:`unifies_names_from_inputs-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 29`); *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.div_`	:ref:`unifies_names_from_inputs-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.dot`, :func:`torch.dot`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	
:meth:`Tensor.double`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.element_size`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	
:func:`torch.empty`	:ref:`factory-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:func:`torch.empty_like` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`factory-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.eq`, :func:`torch.eq` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`unifies_names_from_inputs-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.erf`, :func:`torch.erf` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.erf_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.erfc`, :func:`torch.erfc`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	
:meth:`Tensor.erfc_`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	
:meth:`Tensor.erfinv`, :func:`torch.erfinv`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	
:meth:`Tensor.erfinv_`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	

API	Name inference rule
:meth:\`Tensor.exp\`, :func:\`torch.exp\`	:ref:\`keeps_input_names-doc\`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink*

Unknown interpreted text role "ref".

API	Name inference rule
:meth:\`Tensor.exp_\`	None

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink*

Unknown interpreted text role "meth".

API	Name inference rule
:meth:\`Tensor.expand\`	:ref:\`keeps_input_names-doc\`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink*

Unknown interpreted text role "ref".

API	Name inference rule
:meth:\`Tensor.expm1\`, :func:\`torch.expm1\`	:ref:\`keeps_input_names-doc\`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink*

Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.expml_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.exponential_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.fill_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.flatten`, :func:`torch.flatten` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	See documentation
:meth:`Tensor.float` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.floor`, :func:`torch.floor` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.floor_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.frac`, :func:`torch.frac` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.frac_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.ge`, :func:`torch.ge`	:ref:`unifies_names_from_inputs-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	
:meth:`Tensor.get_device`, :func:`torch.get_device`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	
:attr:`Tensor.grad`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "attr".	

API	Name inference rule
:meth:`Tensor.gt`, :func:`torch.gt` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`unifies_names_from_inputs-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.half` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.has_names` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	See documentation
:meth:`Tensor.index_fill`, :func:`torch.index_fill` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.index_fill_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.int` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.is_contiguous` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None
:attr:`Tensor.is_cuda` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "attr".	None
:meth:`Tensor.is_floating_point`, :func:`torch.is_floating_point` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	None

API	Name inference rule
:attr:`Tensor.is_leaf` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "attr".	None
:meth:`Tensor.is_pinned` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.is_shared` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.is_signed`, :func:`torch.is_signed` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	None
:attr:`Tensor.is_sparse` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "attr".	None

API	Name inference rule
:attr:`Tensor.is_sparse_csr` **System Message: ERROR/3** **(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "attr".	None
:func:`torch.is_tensor` **System Message: ERROR/3** **(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "func".	None
:meth:`Tensor.item` **System Message: ERROR/3** **(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.kthvalue`, :func:`torch.kthvalue` **System Message: ERROR/3** **(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** **(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** **(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.le`, :func:`torch.le`	:ref:`unifies_names_from_inputs-doc`

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "ref".

| :meth:`Tensor.log`, :func:`torch.log` | :ref:`keeps_input_names-doc` |

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "ref".

| :meth:`Tensor.log10`, :func:`torch.log10` | :ref:`keeps_input_names-doc` |

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.log10_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.log1p`, :func:`torch.log1p` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.log1p_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.log2`, :func:`torch.log2` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.log2_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.log_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.log_normal_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.logical_not`, :func:`torch.logical_not` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.logical_not_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.logsumexp`, :func:`torch.logsumexp`	:ref:`removes_dimensions-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`**, line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`**, line 29);** *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`**, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.long`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`**, line 29);** *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`**, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.lt`, :func:`torch.lt`	:ref:`unifies_names_from_inputs-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`**, line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`**, line 29);** *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3 (**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`**, line 29);** *backlink* Unknown interpreted text role "ref".
:func:`torch.manual_seed`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`**, line 29);** *backlink* Unknown interpreted text role "func".	

API	Name inference rule
:meth:`Tensor.masked_fill`, :func:`torch.masked_fill`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	
:meth:`Tensor.masked_fill_`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	
:meth:`Tensor.masked_select`, :func:`torch.masked_select`	
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	Aligns mask up to input and then unifies_names_from_input_tensors
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	

API	Name inference rule
:meth:`Tensor.matmul`, :func:`torch.matmul`	:ref:`contracts_away_dims-doc`

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "ref".

:meth:`Tensor.mean`, :func:`torch.mean`

:ref:`removes_dimensions-doc`

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "ref".

:meth:`Tensor.median`, :func:`torch.median`

:ref:`removes_dimensions-doc`

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "meth".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "func".

System Message: ERROR/3
(`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink*

Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.nanmedian`, :func:`torch.nanmedian` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.mm`, :func:`torch.mm` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`contracts_away_dims-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.mode`, :func:`torch.mode` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.mul`, :func:`torch.mul` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`unifies_names_from_inputs-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.mul_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	:ref:`unifies_names_from_inputs-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.mv`, :func:`torch.mv` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`contracts_away_dims-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:attr:`Tensor.names` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "attr".	See documentation

API	Name inference rule
:meth:`Tensor.narrow`, :func:`torch.narrow`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink*	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink*
Unknown interpreted text role "meth".	Unknown interpreted text role "ref".
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink*	
Unknown interpreted text role "func".	
:attr:`Tensor.ndim`	
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink*	None
Unknown interpreted text role "attr".	
:meth:`Tensor.ndimension`	
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink*	None
Unknown interpreted text role "meth".	
:meth:`Tensor.ne`, :func:`torch.ne`	:ref:`unifies_names_from_inputs-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink*	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink*
Unknown interpreted text role "meth".	Unknown interpreted text role "ref".
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink*	
Unknown interpreted text role "func".	

API	Name inference rule
:meth:`Tensor.neg`, :func:`torch.neg` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.neg_` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	None
:func:`torch.normal` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.normal_` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.numel`, :func:`torch.numel` **System Message: ERROR/3** **(**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst,` **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** **(**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst,` **line 29);** *backlink* Unknown interpreted text role "func".	None
:func:`torch.ones` **System Message: ERROR/3** **(**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst,` **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`factory-doc` **System Message: ERROR/3** **(**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst,` **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.pow`, :func:`torch.pow` **System Message: ERROR/3** **(**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst,` **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** **(**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst,` **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`unifies_names_from_inputs-doc` **System Message: ERROR/3** **(**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst,` **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.pow_` **System Message: ERROR/3** **(**`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst,` **line 29);** *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.prod`, :func:`torch.prod` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.rad2deg`, :func:`torch.rad2deg` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.rad2deg_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None
:func:`torch.rand` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`factory-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:func:`torch.rand` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`factory-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:func:`torch.randn` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`factory-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:func:`torch.randn` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`factory-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.random_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.reciprocal`, :func:`torch.reciprocal` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.reciprocal_` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.refine_names` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	See documentation
:meth:`Tensor.register_hook` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.rename` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	See documentation

API	Name inference rule
:meth:`Tensor.rename_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	See documentation
:attr:`Tensor.requires_grad` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "attr".	None
:meth:`Tensor.requires_grad_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.resize_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	Only allow resizes that do not change shape
:meth:`Tensor.resize_as_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	Only allow resizes that do not change shape
API	Name inference rule

API	Name inference rule
:meth:`Tensor.round`, :func:`torch.round` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.round_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.rsqrt`, :func:`torch.rsqrt` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.rsqrt_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.select`, :func:`torch.select` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.short` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.sigmoid`, :func:`torch.sigmoid` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.sigmoid_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.sign`, :func:`torch.sign`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.sign_`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	
:meth:`Tensor.sgn`, :func:`torch.sgn`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.sgn_`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	

API	Name inference rule
:meth:`Tensor.sin`, :func:`torch.sin` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.sin_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.sinh`, :func:`torch.sinh` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.sinh_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line **29**); *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:meth:`Tensor.asinh`, :func:`torch.asinh`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "func".	
:meth:`Tensor.asinh_`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth".	
:meth:`Tensor.size`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth".	
:meth:`Tensor.split`, :func:`torch.split`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "func".	

API	Name inference rule
:meth:`Tensor.sqrt`, :func:`torch.sqrt` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.sqrt_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.squeeze`, :func:`torch.squeeze` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.std`, :func:`torch.std` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:func:`torch.std_mean` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.stride` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.sub`, :func:`torch.sub` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`unifies_names_from_inputs-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.sub_`	:ref:`unifies_names_from_inputs-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth".	**System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.sum`, :func:`torch.sum`	:ref:`removes_dimensions-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.tan`, :func:`torch.tan`	:ref:`keeps_input_names-doc`
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "func".	**System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.tan_`	None
System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink* Unknown interpreted text role "meth".	

API	Name inference rule
:meth:`Tensor.tanh`, :func:`torch.tanh` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.tanh_` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.atanh`, :func:`torch.atanh` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "func".	:ref:`keeps_input_names-doc` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.atanh_` **System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29);** *backlink* Unknown interpreted text role "meth".	None

API	Name inference rule
:func:`torch.tensor` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`factory-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.to` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth".	:ref:`keeps_input_names-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.topk`, :func:`torch.topk` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.transpose`, :func:`torch.transpose` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "func".	:ref:`permutes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29);** *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:meth:`Tensor.trunc`, :func:`torch.trunc`	:ref:`keeps_input_names-doc`

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:meth:`Tensor.trunc_`

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Unknown interpreted text role "meth".

None

:meth:`Tensor.type`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

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None

:meth:`Tensor.type_as` | :ref:`keeps_input_names-doc`

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

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System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, line 29); *backlink*

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API	Name inference rule
:meth:`Tensor.unbind`, :func:`torch.unbind` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.unflatten` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	See documentation
:meth:`Tensor.uniform_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None
:meth:`Tensor.var`, :func:`torch.var` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth". **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".

API	Name inference rule
:func:`torch.var_mean` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`removes_dimensions-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".
:meth:`Tensor.zero_` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "meth".	None
:func:`torch.zeros` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "func".	:ref:`factory-doc` **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 29**); *backlink* Unknown interpreted text role "ref".

Keeps input names

All pointwise unary functions follow this rule as well as some other unary functions.

- Check names: None
- Propagate names: input tensor's names are propagated to the output.

```
>>> x = torch.randn(3, 3, names=('N', 'C'))
>>> x.abs().names
('N', 'C')
```

Removes dimensions

All reduction ops like :meth:`~Tensor.sum` remove dimensions by reducing over the desired dimensions. Other operations like :meth:`~Tensor.select` and :meth:`~Tensor.squeeze` remove dimensions.

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System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 265**); *backlink*

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Wherever one can pass an integer dimension index to an operator, one can also pass a dimension name. Functions that take lists of dimension indices can also take in a list of dimension names.

- Check names: If :attr:`dim` or :attr:`dims` is passed in as a list of names, check that those names exist in :attr:`self`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 273`); *backlink*
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> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 273`); *backlink*
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> Unknown interpreted text role "attr".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 273`); *backlink*
>
> Unknown interpreted text role "attr".

- Propagate names: If the dimensions of the input tensor specified by :attr:`dim` or :attr:`dims` are not present in the output tensor, then the corresponding names of those dimensions do not appear in `output.names`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 275`); *backlink*
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> Unknown interpreted text role "attr".

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 275`); *backlink*
>
> Unknown interpreted text role "attr".

```
>>> x = torch.randn(1, 3, 3, 3, names=('N', 'C', 'H', 'W'))
>>> x.squeeze('N').names
('C', 'H', 'W')

>>> x = torch.randn(3, 3, 3, 3, names=('N', 'C', 'H', 'W'))
>>> x.sum(['N', 'C']).names
('H', 'W')

# Reduction ops with keepdim=True don't actually remove dimensions.
>>> x = torch.randn(3, 3, 3, 3, names=('N', 'C', 'H', 'W'))
>>> x.sum(['N', 'C'], keepdim=True).names
('N', 'C', 'H', 'W')
```

Unifies names from inputs

All binary arithmetic ops follow this rule. Operations that broadcast still broadcast positionally from the right to preserve compatibility with unnamed tensors. To perform explicit broadcasting by names, use :meth:`Tensor.align_as`.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst, line 300`); *backlink*
>
> Unknown interpreted text role "meth".

- Check names: All names must match positionally from the right. i.e., in `tensor + other`, `match(tensor.names[i], other.names[i])` must be true for all `i` in `(-min(tensor.dim(), other.dim()) + 1, -1]`.
- Check names: Furthermore, all named dimensions must be aligned from the right. During matching, if we match a named dimension `A` with an unnamed dimension `None`, then `A` must not appear in the tensor with the unnamed dimension.
- Propagate names: unify pairs of names from the right from both tensors to produce output names.

For example,

```
# tensor: Tensor[   N, None]
# other:  Tensor[None,    C]
>>> tensor = torch.randn(3, 3, names=('N', None))
>>> other = torch.randn(3, 3, names=(None, 'C'))
>>> (tensor + other).names
('N', 'C')
```

Check names:

- `match(tensor.names[-1], other.names[-1])` is `True`

- `match(tensor.names[-2], tensor.names[-2])` is `True`

- Because we matched `None` in :attr:`tensor` with `'C'`, check to make sure `'C'` doesn't exist in :attr:`tensor` (it does not).

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 328**); *backlink*
  >
  > Unknown interpreted text role "attr".

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 328**); *backlink*
  >
  > Unknown interpreted text role "attr".

- Check to make sure `'N'` doesn't exists in :attr:`other` (it does not).

  > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 330**); *backlink*
  >
  > Unknown interpreted text role "attr".

Finally, the output names are computed with `[unify('N', None), unify(None, 'C')] = ['N', 'C']`

More examples:

```
# Dimensions don't match from the right:
# tensor: Tensor[N, C]
# other:  Tensor[   N]
>>> tensor = torch.randn(3, 3, names=('N', 'C'))
>>> other = torch.randn(3, names=('N',))
>>> (tensor + other).names
RuntimeError: Error when attempting to broadcast dims ['N', 'C'] and dims
['N']: dim 'C' and dim 'N' are at the same position from the right but do
not match.

# Dimensions aren't aligned when matching tensor.names[-1] and other.names[-1]:
# tensor: Tensor[N, None]
# other:  Tensor[      N]
>>> tensor = torch.randn(3, 3, names=('N', None))
>>> other = torch.randn(3, names=('N',))
>>> (tensor + other).names
RuntimeError: Misaligned dims when attempting to broadcast dims ['N'] and
dims ['N', None]: dim 'N' appears in a different position from the right
across both lists.
```

> **Note**
>
> In both of the last examples, it is possible to align the tensors by names and then perform the addition. Use :meth:`Tensor.align_as` to align tensors by name or :meth:`Tensor.align_to` to align tensors to a custom dimension ordering.
>
> > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs][source]name_inference.rst`, **line 359**); *backlink*
> >
> > Unknown interpreted text role "meth".
>
> > **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\[pytorch-master][docs]`

Permutes dimensions

Some operations, like :meth:`Tensor.t()`, permute the order of dimensions. Dimension names are attached to individual dimensions so they get permuted as well.

If the operator takes in positional index :attr:`dim`, it is also able to take a dimension name as :attr:`dim`.

- Check names: If :attr:`dim` is passed as a name, check that it exists in the tensor.

- Propagate names: Permute dimension names in the same way as the dimensions that are being permuted.

```
>>> x = torch.randn(3, 3, names=('N', 'C'))
>>> x.transpose('N', 'C').names
('C', 'N')
```

Contracts away dims

Matrix multiply functions follow some variant of this. Let's go through :func:`torch.mm` first and then generalize the rule for batch matrix multiplication.

For `torch.mm(tensor, other)`:

- Check names: None
- Propagate names: result names are `(tensor.names[-2], other.names[-1])`.

```
>>> x = torch.randn(3, 3, names=('N', 'D'))
>>> y = torch.randn(3, 3, names=('in', 'out'))
>>> x.mm(y).names
('N', 'out')
```

Inherently, a matrix multiplication performs a dot product over two dimensions, collapsing them. When two tensors are matrix-multiplied, the contracted dimensions disappear and do not show up in the output tensor.

:func:`torch.mv`, :func:`torch.dot` work in a similar way: name inference does not check input names and removes the dimensions that are involved in the dot product:

```
>>> x = torch.randn(3, 3, names=('N', 'D'))
>>> y = torch.randn(3, names=('something',))
>>> x.mv(y).names
('N',)
```

Now, let's take a look at `torch.matmul(tensor, other)`. Assume that `tensor.dim() >= 2` and `other.dim() >= 2`.

- Check names: Check that the batch dimensions of the inputs are aligned and broadcastable. See :ref:`unifies_names_from_inputs-doc` for what it means for the inputs to be aligned.

- Propagate names: result names are obtained by unifying the batch dimensions and removing the contracted dimensions:
  `unify(tensor.names[:-2], other.names[:-2]) + (tensor.names[-2], other.names[-1])`.

Examples:

```
# Batch matrix multiply of matrices Tensor['C', 'D'] and Tensor['E', 'F'].
# 'A', 'B' are batch dimensions.
>>> x = torch.randn(3, 3, 3, 3, names=('A', 'B', 'C', 'D'))
>>> y = torch.randn(3, 3, 3, names=('B', 'E', 'F'))
>>> torch.matmul(x, y).names
('A', 'B', 'C', 'F')
```

Finally, there are fused `add` versions of many matmul functions. i.e., :func:`addmm` and :func:`addmv`. These are treated as composing name inference for i.e. :func:`mm` and name inference for :func:`add`.

Factory functions

Factory functions now take a new :attr:`names` argument that associates a name with each dimension.

```
>>> torch.zeros(2, 3, names=('N', 'C'))
tensor([[0., 0., 0.],
        [0., 0., 0.]], names=('N', 'C'))
```

out function and in-place variants

A tensor specified as an `out=` tensor has the following behavior:

- If it has no named dimensions, then the names computed from the operation get propagated to it.
- If it has any named dimensions, then the names computed from the operation must be exactly equal to the existing names. Otherwise, the operation errors.

All in-place methods modify inputs to have names equal to the computed names from name inference. For example:

```
>>> x = torch.randn(3, 3)
>>> y = torch.randn(3, 3, names=('N', 'C'))
>>> x.names
(None, None)

>>> x += y
>>> x.names
('N', 'C')
```