

Named Tensors operator coverage

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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](#)

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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
<code>meth:'Tensor.abs', :func:'torch.abs'</code> <div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p><p>Unknown interpreted text role "meth".</p></div> <div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p><p>Unknown interpreted text role "func".</p></div>	<code>ref:'keeps_input_names-doc'</code> <div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p><p>Unknown interpreted text role "ref".</p></div>
<code>meth:'Tensor.abs_'</code> <div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p><p>Unknown interpreted text role "meth".</p></div>	<code>ref:'keeps_input_names-doc'</code> <div><p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p><p>Unknown interpreted text role "ref".</p></div>

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

API	Name inference rule
<p><code>.meth:Tensor.addmm`, :func:`torch.addmm`</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:contracts_away_dims-doc`</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.addmm_`</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p><code>ref:contracts_away_dims-doc`</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.addmv`, :func:`torch.addmv`</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:contracts_away_dims-doc`</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.addmv_`</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p><code>ref:contracts_away_dims-doc`</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

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

API	Name inference rule
<p><code>.meth:Tensor.asin`, :func:`torch.asin`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:`keeps_input_names-doc`</code></p> <div data-bbox="855 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.asin_`</code></p> <div data-bbox="213 810 738 1072"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p><code>.ref:`keeps_input_names-doc`</code></p> <div data-bbox="855 810 1380 1072"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.atan`, :func:`torch.atan`</code></p> <div data-bbox="213 1158 738 1420"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1449 738 1711"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:`keeps_input_names-doc`</code></p> <div data-bbox="855 1301 1380 1563"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

API	Name inference rule
<p><code>.meth:Tensor.atan2` , :func:`torch.atan2`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:unifies_names_from_inputs-doc`</code></p> <div data-bbox="855 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.atan2_`</code></p> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p><code>ref:unifies_names_from_inputs-doc`</code></p> <div data-bbox="855 808 1380 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.atan_`</code></p> <div data-bbox="213 1155 738 1417"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p><code>ref:keeps_input_names-doc`</code></p> <div data-bbox="855 1155 1380 1417"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.bernoulli` , :func:`torch.bernoulli`</code></p> <div data-bbox="213 1503 738 1765"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1794 738 2056"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:keeps_input_names-doc`</code></p> <div data-bbox="855 1653 1380 1915"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

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

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

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

API	Name inference rule
<p><code>.meth:Tensor.clamp`, :func:torch.clamp`</code></p> <div data-bbox="212 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="212 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:keeps_input_names-doc`</code></p> <div data-bbox="855 313 1382 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.clamp_`</code></p> <div data-bbox="212 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.copy_`</code></p> <div data-bbox="212 1162 738 1424"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p><code>ref:out_function_semantics-doc`</code></p> <div data-bbox="855 1162 1382 1424"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.cos`, :func:torch.cos`</code></p> <div data-bbox="212 1516 738 1778"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="212 1807 738 2069"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:keeps_input_names-doc`</code></p> <div data-bbox="855 1659 1382 1921"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

API	Name inference rule
<p><code>.meth:Tensor.cos_`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.cosh`, .func:torch.cosh`</code></p> <div data-bbox="213 519 738 781"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:keeps_input_names-doc`</code></p> <div data-bbox="857 660 1380 925"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.cosh_`</code></p> <div data-bbox="213 1158 738 1420"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.acosh`, .func:torch.acosh`</code></p> <div data-bbox="213 1507 738 1769"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1796 738 2058"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:keeps_input_names-doc`</code></p> <div data-bbox="857 1650 1380 1915"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

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

API	Name inference rule
<p><code>.meth:Tensor.cumsum`, :func:`torch.cumsum`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:`keeps_input_names-doc`</code></p> <div data-bbox="855 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.data_ptr`</code></p> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.deg2rad`, :func:`torch.deg2rad`</code></p> <div data-bbox="213 1160 738 1422"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1451 738 1713"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:`keeps_input_names-doc`</code></p> <div data-bbox="855 1303 1380 1565"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.deg2rad_`</code></p> <div data-bbox="213 1798 738 2060"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>

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

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

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

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

API	Name inference rule
<p><code>.meth:Tensor.ercf` , :func:`torch.ercf`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:keeps_input_names-doc`</code></p> <div data-bbox="855 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.ercf_`</code></p> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.erfinv` , :func:`torch.erfinv`</code></p> <div data-bbox="213 1158 738 1420"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1449 738 1711"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:keeps_input_names-doc`</code></p> <div data-bbox="855 1303 1380 1565"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.erfinv_`</code></p> <div data-bbox="213 1796 738 2058"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>

API	Name inference rule
<p><code>.meth:'Tensor.exp', :func:'torch.exp'</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:'keeps_input_names-doc'</code></p> <div data-bbox="855 320 1380 582"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:'Tensor.exp_'</code></p> <div data-bbox="213 819 738 1081"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:'Tensor.expand'</code></p> <div data-bbox="213 1169 738 1431"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p><code>ref:'keeps_input_names-doc'</code></p> <div data-bbox="855 1169 1380 1431"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:'Tensor.expml', :func:'torch.expml'</code></p> <div data-bbox="213 1518 738 1780"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1809 738 2072"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:'keeps_input_names-doc'</code></p> <div data-bbox="855 1662 1380 1924"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

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

API	Name inference rule
<p><code>.meth: 'Tensor.floor', .func: 'torch.floor'</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref: 'keeps_input_names-doc'</code></p> <div data-bbox="855 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth: 'Tensor.floor_'</code></p> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth: 'Tensor.frac', .func: 'torch.frac'</code></p> <div data-bbox="213 1160 738 1422"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1451 738 1713"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref: 'keeps_input_names-doc'</code></p> <div data-bbox="855 1303 1380 1565"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth: 'Tensor.frac_'</code></p> <div data-bbox="213 1798 738 2060"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>

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

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

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

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

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

API	Name inference rule
<p><code>.meth: 'Tensor.le', .func: 'torch.le'</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref: 'unifies_names_from_inputs-doc'</code></p> <div data-bbox="855 318 1380 582"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth: 'Tensor.log', .func: 'torch.log'</code></p> <div data-bbox="213 817 738 1079"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1108 738 1370"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref: 'keeps_input_names-doc'</code></p> <div data-bbox="855 963 1380 1227"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth: 'Tensor.log10', .func: 'torch.log10'</code></p> <div data-bbox="213 1460 738 1722"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1751 738 2013"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref: 'keeps_input_names-doc'</code></p> <div data-bbox="855 1617 1380 1881"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

API	Name inference rule
<p><code>.meth:Tensor.log10_`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.log1p`, :func:torch.log1p`</code></p> <div data-bbox="213 519 738 781"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 810 738 1072"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:'keeps_input_names-doc`</code></p> <div data-bbox="858 663 1380 925"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.log1p_`</code></p> <div data-bbox="213 1160 738 1422"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.log2`, :func:torch.log2`</code></p> <div data-bbox="213 1527 738 1789"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1818 738 2080"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:'keeps_input_names-doc`</code></p> <div data-bbox="858 1668 1380 1930"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

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

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

API	Name inference rule
<p><code>.meth:Tensor.masked_fill`, :func:`torch.masked_fill`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:`keeps_input_names-doc`</code></p> <div data-bbox="855 315 1380 577"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.masked_fill`</code></p> <div data-bbox="213 810 738 1072"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.masked_select`, :func:`torch.masked_select`</code></p> <div data-bbox="213 1162 738 1424"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1453 738 1715"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p>Aligns mask up to input and then unifies_names_from_input_tensors</p>

API	Name inference rule
<p><code>.meth:Tensor.matmul` , :func:`torch.matmul`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:contracts_away_dims-doc`</code></p> <div data-bbox="858 315 1382 577"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.mean` , :func:`torch.mean`</code></p> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1099 738 1361"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:removes_dimensions-doc`</code></p> <div data-bbox="858 963 1382 1225"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.median` , :func:`torch.median`</code></p> <div data-bbox="213 1469 738 1731"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1760 738 2022"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:removes_dimensions-doc`</code></p> <div data-bbox="858 1612 1382 1874"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

API	Name inference rule
<p><code>.meth:Tensor.nanmedian`, .func:`torch.nanmedian`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:removes_dimensions-doc`</code></p> <div data-bbox="855 315 1380 577"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.mm`, .func:`torch.mm`</code></p> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1099 738 1361"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:contracts_away_dims-doc`</code></p> <div data-bbox="855 954 1380 1216"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.mode`, .func:`torch.mode`</code></p> <div data-bbox="213 1447 738 1709"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1738 738 2000"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:removes_dimensions-doc`</code></p> <div data-bbox="855 1592 1380 1854"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

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

API	Name inference rule
<p><code>.meth:Tensor.narrow`, :func:torch.narrow`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:keeps_input_names-doc`</code></p> <div data-bbox="857 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>attr:Tensor.ndim`</code></p> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "attr".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.ndimension`</code></p> <div data-bbox="213 1160 738 1422"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.ne`, :func:torch.ne`</code></p> <div data-bbox="213 1514 738 1776"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1805 738 2067"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:unifies_names_from_inputs-doc`</code></p> <div data-bbox="857 1653 1380 1915"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

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

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

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

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

API	Name inference rule
<p><code>.meth: 'Tensor.reciprocal', .func: 'torch.reciprocal'</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref: 'keeps_input_names-doc'</code></p> <div data-bbox="857 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth: 'Tensor.reciprocal_'</code></p> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth: 'Tensor.refine_names'</code></p> <div data-bbox="213 1162 738 1424"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>See documentation</p>
<p><code>.meth: 'Tensor.register_hook'</code></p> <div data-bbox="213 1516 738 1778"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth: 'Tensor.rename'</code></p> <div data-bbox="213 1870 738 2132"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>See documentation</p>

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

API	Name inference rule
<p><code>.meth:Tensor.round` , .func:`torch.round`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:'keeps_input_names-doc`</code></p> <div data-bbox="857 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.round_`</code></p> <div data-bbox="213 810 738 1072"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.rsqrt` , .func:`torch.rsqrt`</code></p> <div data-bbox="213 1162 738 1424"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1453 738 1715"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:'keeps_input_names-doc`</code></p> <div data-bbox="857 1303 1380 1565"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.rsqrt_`</code></p> <div data-bbox="213 1803 738 2065"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>

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

API	Name inference rule
<p><code>.meth:Tensor.sign`, :func:torch.sign`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:keeps_input_names-doc`</code></p> <div data-bbox="855 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.sign_`</code></p> <div data-bbox="213 810 738 1072"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.sgn`, :func:torch.sgn`</code></p> <div data-bbox="213 1162 738 1424"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1453 738 1715"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:keeps_input_names-doc`</code></p> <div data-bbox="855 1308 1380 1570"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.sgn_`</code></p> <div data-bbox="213 1816 738 2078"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>

API	Name inference rule
<p><code>.meth:Tensor.sin` , :func:`torch.sin`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:'keeps_input_names-doc`</code></p> <div data-bbox="855 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.sin_`</code></p> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.sinh` , :func:`torch.sinh`</code></p> <div data-bbox="213 1160 738 1422"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1451 738 1713"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:'keeps_input_names-doc`</code></p> <div data-bbox="855 1303 1380 1565"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.sinh_`</code></p> <div data-bbox="213 1798 738 2060"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>

API	Name inference rule
<p><code>.meth:Tensor.asinh`, .func:torch.asinh`</code></p> <div data-bbox="212 170 738 434"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="212 461 738 725"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:keeps_input_names-doc`</code></p> <div data-bbox="855 318 1382 582"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.asinh`</code></p> <div data-bbox="212 819 738 1084"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.size`</code></p> <div data-bbox="212 1169 738 1433"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.split`, .func:torch.split`</code></p> <div data-bbox="212 1518 738 1783"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="212 1809 738 2074"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:keeps_input_names-doc`</code></p> <div data-bbox="855 1666 1382 1930"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

API	Name inference rule
<p><code>.meth:Tensor.sqrt`, .func:torch.sqrt`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:keeps_input_names-doc`</code></p> <div data-bbox="857 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.sqrt_`</code></p> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.squeeze`, .func:torch.squeeze`</code></p> <div data-bbox="213 1160 738 1422"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1451 738 1713"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:removes_dimensions-doc`</code></p> <div data-bbox="857 1299 1380 1561"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

API	Name inference rule
<p><code>.meth:Tensor.std`, :func:`torch.std`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref` removes_dimensions-doc`</code></p> <div data-bbox="855 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>:func:`torch.std_mean`</code></p> <div data-bbox="213 808 738 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref` removes_dimensions-doc`</code></p> <div data-bbox="855 808 1380 1070"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.stride`</code></p> <div data-bbox="213 1158 738 1420"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.sub`, :func:`torch.sub`</code></p> <div data-bbox="213 1536 738 1798"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1827 738 2089"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref` unifies_names_from_inputs-doc`</code></p> <div data-bbox="855 1680 1380 1942"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

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

API	Name inference rule
<p><code>.meth:Tensor.tanh`, .func:torch.tanh`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:keeps_input_names-doc`</code></p> <div data-bbox="855 318 1380 580"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.tanh_`</code></p> <div data-bbox="213 817 738 1079"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:Tensor.atanh`, .func:torch.atanh`</code></p> <div data-bbox="213 1164 738 1426"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1456 738 1718"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>.ref:keeps_input_names-doc`</code></p> <div data-bbox="855 1310 1380 1572"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:Tensor.atanh_`</code></p> <div data-bbox="213 1803 738 2065"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>

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

API	Name inference rule
<p><code>.meth:'Tensor.trunc', .func:'torch.trunc'</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref:'keeps_input_names-doc'</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth:'Tensor.trunc_'</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:'Tensor.type'</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth:'Tensor.type_as'</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p><code>ref:'keeps_input_names-doc'</code></p> <div> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

API	Name inference rule
<p><code>.meth: Tensor.unbind`, .func: torch.unbind`</code></p> <div data-bbox="213 170 738 432"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 461 738 723"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref: removes_dimensions-doc`</code></p> <div data-bbox="855 313 1380 575"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>
<p><code>.meth: Tensor.unflatten`</code></p> <div data-bbox="213 810 738 1072"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>See documentation</p>
<p><code>.meth: Tensor.uniform_`</code></p> <div data-bbox="213 1162 738 1424"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div>	<p>None</p>
<p><code>.meth: Tensor.var`, .func: torch.var`</code></p> <div data-bbox="213 1514 738 1776"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "meth".</p> </div> <div data-bbox="213 1805 738 2067"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "func".</p> </div>	<p><code>ref: removes_dimensions-doc`</code></p> <div data-bbox="855 1653 1380 1915"> <p>System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\ (pytorch-master) (docs) (source) name_inference.rst, line 29); backlink</p> <p>Unknown interpreted text role "ref".</p> </div>

API	Name inference rule
<code>.func: torch.var_mean`</code> <div> System Message: ERROR/3 (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". </div>	<code>ref: removes_dimensions-doc`</code> <div> System Message: ERROR/3 (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". </div>
<code>.meth: Tensor.zero_`</code> <div> System Message: ERROR/3 (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". </div>	None
<code>.func: torch.zeros`</code> <div> System Message: ERROR/3 (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". </div>	<code>ref: factory-doc`</code> <div> System Message: ERROR/3 (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". </div>

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.

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

Unknown interpreted text role "meth".

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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- 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`.

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```
>>> 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'`.

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- 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).

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(source)name_inference.rst, line 328); [backlink](#)

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(source)name_inference.rst, line 328); [backlink](#)

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- Check to make sure `'N'` doesn't exist 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](#)

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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.

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(source)name_inference.rst, line 359); [backlink](#)

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(source)name_inference.rst, line 359); [backlink](#)

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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.

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

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

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- 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.

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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.nv`, `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:

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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 409); [backlink](#)

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```
>>> 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.

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- 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`.

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Factory functions

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

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```
>>> 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')
```