TorchScript Unsupported Pytorch Constructs

Torch and Tensor Unsupported Attributes

TorchScript supports most methods defined on torch and torch. Tensor, but we do not have full coverage. Here are specific known ops and categories of ops which have diverging behavior between Python and TorchScript. If you encounter something else that is not supported please file a GitHub issue. Deprecated ops are not listed below.

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

Unknown directive type "automodule".

.. automodule:: torch.jit.unsupported_tensor_ops
```

Functions Not Correctly Bound on Torch

The following functions will fail if used in TorchScript, either because they are not bound on *torch* or because Python expects a different schema than TorchScript.

• :func:`torch.tensordot`

```
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Unknown interpreted text role "func".
```

• :func:`torch.nn.init.calculate_gain`

```
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```

:func:`torch.nn.init.eye_`

```
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• :fune:`torch.nn.init.dirac

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\(pytorch-master\) (docs) (source) jit_unsupported.rst, line 30); backlink
Unknown interpreted text role "func".
```

• :func:`torch.nn.init.kaiming normal `

```
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• :fune:`torch.nn.init.orthogonal `

```
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```

• :func:`torch.nn.init.sparse`

```
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```

Ops With Divergent Schemas Between Torch & Python

The following categories of ops have divergent schemas:

Functions which construct tensors from non-tensor inputs do not support the *requires_grad* argument, except for *torch.tensor*. This covers the following ops:

• :func:`torch.norm`

```
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```

• :func:`torch.bartlett window`

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\((pytorch-master)\) (docs) (source) jit_unsupported.rst, line 45); backlink
Unknown interpreted text role "func".
```

• :func:'torch.blackman window'

```
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• :func:`torch.empty`

```
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```

• :func:`torch.empty like`

```
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• :func:`torch.empty_strided`

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\((pytorch-master)\) (docs) (source) jit_unsupported.rst, line 49); backlink
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```

• :func:`torch.eye`

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• :func:`torch.full`

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• :func:'torch.full like'

System Message: ERROR/3 (D:\onboarding-resources\sample-onboardingresources\pytorch-master\docs\source\((pytorch-master)\) (docs)
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:fune:`torch.hamming_window`

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• :func:`torch.hann_window`

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• :func:'torch.linspace'

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• :func:`torch.logspace`

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• :func:`torch.normal`

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• :func:`torch.ones`

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• :func:`torch.rand`

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• :func:`torch.rand like`

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• :func:`torch.randint like`

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• :func:`torch.randn`

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• :func:`torch.randn like`

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• :func:`torch.randperm`

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• :func:'torch.tril indices'

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• :func:`torch.triu indices`

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• :func:`torch.vander`

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:func:`torch.zeros`

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:func:`torch.zeros_like`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\((pytorch-master)\) (docs) (source) jit_unsupported.rst, line 69); backlink
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The following functions require dtype, layout, device as parameters in TorchScript, but these parameters are optional in Python.

• :func:`torch.randint`

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\((pytorch-master)\) (docs) (source) jit_unsupported.rst, line 74); backlink
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• :func:`torch.sparse_coo_tensor`

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• :meth:`~torch.Tensor.to`

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PyTorch Unsupported Modules and Classes

TorchScript cannot currently compile a number of other commonly used PyTorch constructs. Below are listed the modules that TorchScript does not support, and an incomplete list of PyTorch classes that are not supported. For unsupported modules we suggest using meth: torch.jit.trace'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\pytorch-master\docs\source\((pytorch-master)(docs)(source))jit_unsupported.rst, line 82); backlink
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• :class:`torch.nn.RNN`

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• :class:`torch.nn.AdaptiveLogSoftmaxWithLoss`

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• :class:`torch.autograd.Function`

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• :class:`torch.autograd.enable_grad`

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• :class:\torch.Generator\

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