

Preliminaries

Torch Tensor

Creating a tensor.

<pre>torch.<method>(<options>)</options></method></pre>	
arange(1, r, s)	$(l, l+s, \cdots, l+ks) \ni l+ks < r \text{ and } k \text{ is the}$
	largest such integer.
	Default: $l = 0, s = 1$.
<pre>linspace(1, r, n) ones(<shape>) zeros(<shape>)</shape></shape></pre>	$(l, l+s, \cdots, r(=l+n \times s)) \& s = (r-l)/n.$
full(<shape>, k)</shape>	Constant tensor filled with each element $= k$.
randn	
tensor	From NDArray.
	Eg: torch.tensor([1, 2, 3]).
from_numpy	
Other related methods:	zeros_like, ones_like, empty_like.
Eg: $y = ones_like(x)$.	

Tensor Properties & Operation

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numel()	Number of elements. Eg, a 2×2 tensor has 4 elements.
dtype	
shape	
reshape()	Eg: torch.arange(8).reshape(4, 4)
	Eg: torch.arange(8).reshape(4, -1)
	Use -1 to automatically infer one of the dimensions.
numpy()	
item()	Can be applied only to a tensor with single element.
	Returns the element.
	Single element tensors can also be coverted as follows:
	<pre>int(x), float(x), etc.</pre>
cat	Concatenate along a dimension. Specify dim.
sum	
Operations	

Uncategorized