

1. Preliminaries

1.1. Torch Tensor

Creating a tensor.

torch.<method>(<options>)	
arange(l, r, s)	$(l, l + s, \dots, l + ks) \ni l + ks < r$ and k is the largest such integer. Default: $l = 0, s = 1$.
linspace(l, r, n)	$(l, l + s, \dots, r(= l + n \times s)) \& s = (r - l)/n$.
ones(<shape>)	
zeros(<shape>)	
full(<shape>, k)	Constant tensor filled with each element = k .
randn	
tensor	From NDArrary. Eg: <code>torch.tensor([1, 2, 3])</code> .

Tensor Properties & Operation

shape	
numel()	Number of elements. Eg, a 2×2 tensor has 4 elements.
reshape()	Eg: <code>torch.arange(8).reshape(4, 4)</code> Eg: <code>torch.arange(8).reshape(4, -1)</code> Use -1 to automatically infer one of the dimensions.
cat	Concatenate along a dimension. Specify dim.
sum	

Operations

Uncategorized