

ML/DL for Everyone Season2

with PYTORCH

PackedSequence



Code: <https://github.com/deeplearningzerotoall/PyTorch>
Slides: <http://bit.ly/2VrZcWM>
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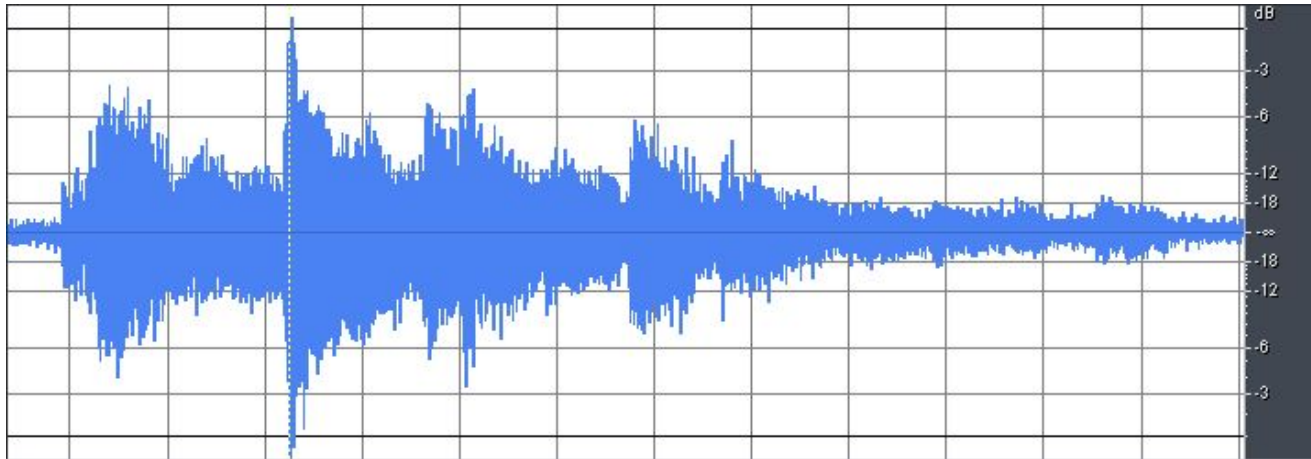


PackedSequence

- Examples of sequential data
- How do we make a batch with multiple sequence sizes?
 - Padding Method
 - Packing Method
- PyTorch Library Functions
 - `pad_sequence`
 - `pack_sequence`
 - `pad_packed_sequence`
 - `pack_padded_sequence`

Sequential data

- Text
 - "The quick brown fox jumps over the lazy dog"
- Audio



Example data

H	E	L	L	O	<space>	W	O	R	L	D		
M	I	D	N	I	G	H	T					
C	A	L	C	U	L	A	T	I	O	N		
P	A	T	H									
S	H	O	R	T	<space>	C	I	R	C	U	I	T

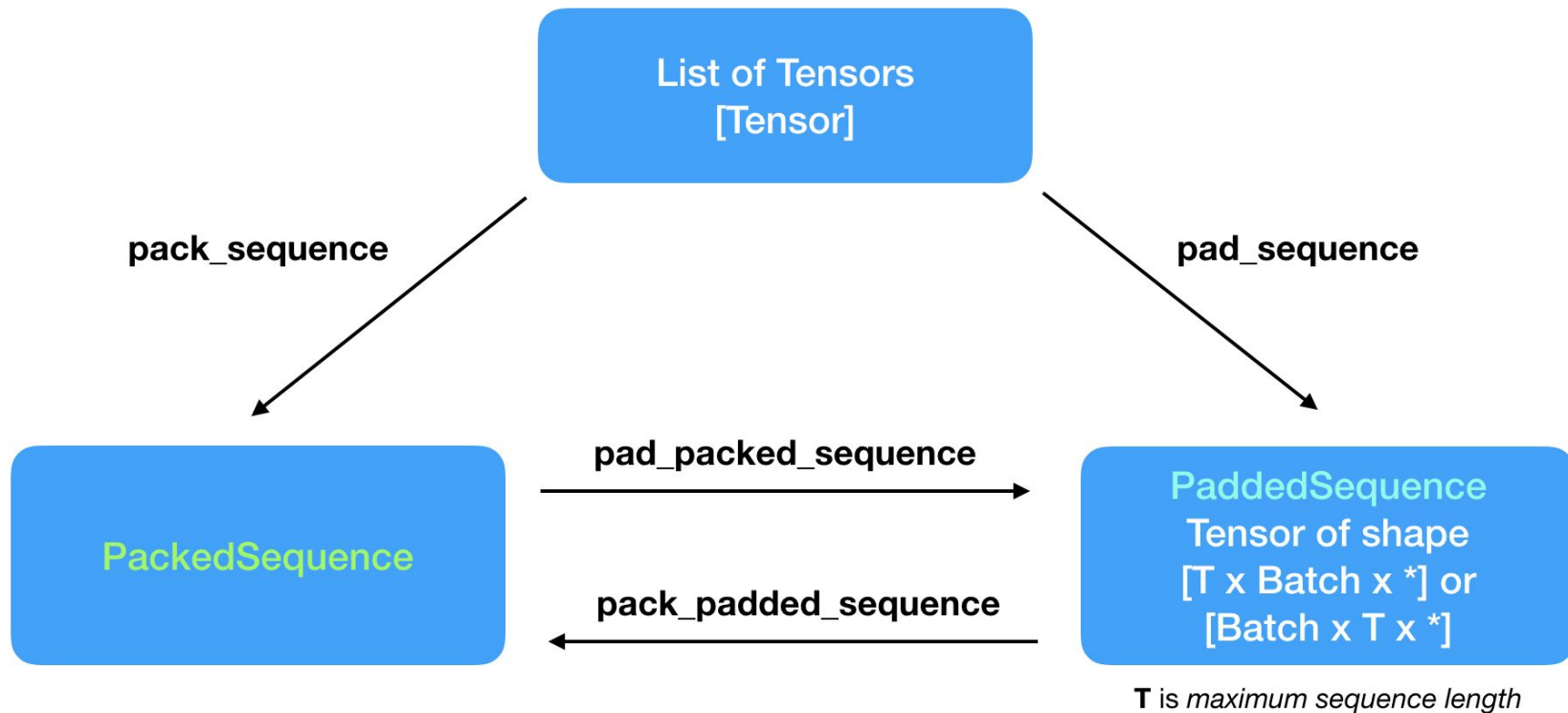
Padding Method

H	E	L	L	O	<space>	W	O	R	L	D	<pad>	<pad>
M	I	D	N	I	G	H	T	<pad>	<pad>	<pad>	<pad>	<pad>
C	A	L	C	U	L	A	T	I	O	N	<pad>	<pad>
P	A	T	H	<pad>	<pad>	<pad>	<pad>	<pad>	<pad>	<pad>	<pad>	<pad>
S	H	O	R	T	<space>	C	I	R	C	U	I	T

Packing Method

H	E	L	L	O	<space>	W	O	R	L	D		
M	I	D	N	I	G	H	T					
C	A	L	C	U	L	A	T	I	O	N		
P	A	T	H									
S	H	O	R	T	<space>	C	I	R	C	U	I	T

PyTorch Library Functions



What's Next?

- How do we implement PackedSequence?
- How does PackedSequence work?