

# Week 5

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NK **map() method with tf.pad() throws an error**

**Nikolaos Kot** · Assignment: Capstone Project · 6 months ago

I am struggling to find a solution to the following issue.

I successfully use tf.pad() to pad the english sequence of embedded tokens to a length of 13. I do this in the colab cells for single elements of the training dataset, like this:

```
1 #paddings is a tf.constant where I have used tf.shape().numpy() to get the number of extra tokens needed for padding
2 #a is the seq of embedded english tokens
3 p = tf.pad(a, paddings = paddings)
4 print(tf.shape(p))
5 #OUTPUT:
6 tf.Tensor([ 13 128], shape=(2,), dtype=int32)
```

When I try the same code in a function to be used by Dataset.map(map\_func), there is an error:

```
1 AttributeError: 'Tensor' object has no attribute 'numpy'
```

But, I have used the same tensor object with numpy successfully in a cell! As far as I know, it has something to do with eager execution within the .map() but I cannot understand how this can be solved.

Any ideas & insights would be welcome. Thanks!

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MN **Mateus Nakahata** · 4 months ago

I am having the same problem, the only way that I found was creating the padding with concat:

```
paddings = tf.concat([[[13-tf.shape(x)[0],0]], [[0,0]]], axis=0)
```

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AJ **Asko Jokinen** · 4 months ago

I had the same problem. I solved it by giving paddings as a double list

```
paddings = [[.,.], [.,.]]
```

According to the TensorFlow API web page paddings should be a Tensor, but when using either a Tensor or a Numpy array in paddings, I got error messages when using the map-function.

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WG **Wahyu Guntara** · 4 months ago



Stumbled upon the same problem. Seems like map() function still uses the static graph paradigm of old tensorflow, hence we can't use the usual python functionality (we should use all tensorflow operation, building the graph). Going to update as soon as I resolve this.

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SL **Stijn Lievens** · 2 months ago

Did you actually resolve this? I am facing the same issue.

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