

LISTEN

076 073 083 084 069 078

Diagram illustrating the word "LISTEN" with corresponding numbers above each letter, connected by red arrows:

| Number | Letter |
|--------|--------|
| 076 | L |
| 073 | I |
| 083 | S |
| 084 | T |
| 069 | E |
| 078 | N |

083 073 076 069 078 084
↓ ↓ ↓ ↓ ↓ ↓
S I L E N T

076 073 083 084 069 078
↓ ↓ ↓ ↓ ↓ ↓
L I S T E N

I love my dog

I love my dog



001

I love my dog

001



002



003



004



I love my dog

001

002

003

004

I love my cat

I love my dog

001

002

003

004

I love my cat

001

002

003

I love my dog

001

002

003

004

I love my cat

001

002

003

005



001

002

003

004

001

002

003

005

```
import tensorflow as tf

sentences = [
    'I love my dog',
    'I love my cat'
]

vectorize_layer = tf.keras.layers.TextVectorization()

vectorize_layer.adapt(sentences)

vocabulary = vectorize_layer.get_vocabulary(include_special_tokens=False)

print(vocabulary)
```

```
import tensorflow as tf

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]

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```
import tensorflow as tf
```

```
sentences = [  
    'I love my dog',  
    'I love my cat'  
]
```

```
vectorize_layer = tf.keras.layers.TextVectorization()
```

```
vectorize_layer.adapt(sentences)
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```
vocabulary = vectorize_layer.get_vocabulary(include_special_tokens=False)
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print(vocabulary)
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```
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```
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sentences = [
    'I love my dog',
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]

vectorize_layer = tf.keras.layers.TextVectorization()

vectorize_layer.adapt(sentences)

vocabulary = vectorize_layer.get_vocabulary(include_special_tokens=False)

print(vocabulary)
```




```
['my', 'love', 'i', 'dog', 'cat']
```

```
sentences = [  
    'I love my dog',  
    'I love my cat',  
    'You love my dog!'  
]
```



```
sentences = [  
    'I love my dog',  
    'I love my cat',  
    'You love my dog!'  
]
```



```
[ 'my' , 'love' , 'i' , 'dog' , 'you' , 'cat' ]
```



```
[ 'my' , 'love' , 'i' , 'dog' , 'you' , 'cat' ]
```

['my' , 'love' , 'i' , 'dog' , 'you' , 'cat']



```
import tensorflow as tf

sentences = [
    'I love my dog',
    'I love my cat'
]

vectorize_layer = tf.keras.layers.TextVectorization()

vectorize_layer.adapt(sentences)

vocabulary = vectorize_layer.get_vocabulary(include_special_tokens=False)

print(vocabulary)
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```
import tensorflow as tf

sentences = [
    'I love my dog',
    'I love my cat'
]

vectorize_layer = tf.keras.layers.TextVectorization()

vectorize_layer.adapt(sentences)

vocabulary = vectorize_layer.get_vocabulary()

print(vocabulary)
```




```
[ ' ', '[UNK]', 'my', 'love', 'i', 'dog', 'you', 'cat' ]
```

```
import tensorflow as tf

sentences = [
    'I love my dog',
    'I love my cat',
    'You love my dog!',
    'Do you think my dog is amazing?'
]

vectorize_layer = tf.keras.layers.TextVectorization()

vectorize_layer.adapt(sentences)

vocabulary = vectorize_layer.get_vocabulary()

for index, word in enumerate(vocabulary):
    print(index, word)
```



```
import tensorflow as tf
```

```
sentences = [  
    'I love my dog',  
    'I love my cat',  
    'You love my dog!',  
    'Do you think my dog is amazing?'  
]
```

```
vectorize_layer = tf.keras.layers.TextVectorization()
```

```
vectorize_layer.adapt(sentences)
```

```
vocabulary = vectorize_layer.get_vocabulary()
```

```
for index, word in enumerate(vocabulary):  
    print(index, word)
```



```
import tensorflow as tf

sentences = [
    'I love my dog',
    'I love my cat',
    'You love my dog!',
    'Do you think my dog is amazing?'
]

vectorize_layer = tf.keras.layers.TextVectorization()

vectorize_layer.adapt(sentences)

vocabulary = vectorize_layer.get_vocabulary()

for index, word in enumerate(vocabulary):
    print(index, word)
```



```
for index, word in enumerate(vocabulary):  
    print(index, word)
```

```
0  
1 [UNK]  
2 my  
3 love  
4 dog  
5 you  
6 i  
7 think  
8 is  
9 do  
10 cat  
11 amazing
```



```
import tensorflow as tf

sentences = [
    'I love my dog',
    'I love my cat',
    'You love my dog!',
    'Do you think my dog is amazing?'
]

vectorize_layer = tf.keras.layers.TextVectorization()

vectorize_layer.adapt(sentences)

vocabulary = vectorize_layer.get_vocabulary()

sequence = vectorize_layer('I love my dog')

for index, word in enumerate(vocabulary):
    print(index, word)

print(sequence)
```



```
for index, word in enumerate(vocabulary):  
    print(index, word)
```

```
0  
1 [UNK]  
2 my  
3 love  
4 dog  
5 you  
6 i  
7 think  
8 is  
9 do  
10 cat  
11 amazing
```

```
print(sequence)
```

```
tf.Tensor([6 3 2 4], shape=(4,), dtype=int64)
```



```
import tensorflow as tf

sentences = [
    'I love my dog',
    'I love my cat',
    'You love my dog!',
    'Do you think my dog is amazing?'
]

vectorize_layer = tf.keras.layers.TextVectorization()

vectorize_layer.adapt(sentences)

vocabulary = vectorize_layer.get_vocabulary()

sequences = vectorize_layer(sentences)

for index, word in enumerate(vocabulary):
    print(index, word)

print(sequences)
```




```
for index, word in enumerate(vocabulary):  
    print(index, word)
```

```
0  
1 [UNK]  
2 my  
3 love  
4 dog  
5 you  
6 i  
7 think  
8 is  
9 do  
10 cat  
11 amazing
```

```
print(sequences)
```

```
tf.Tensor(  
[[ 6  3  2  4  0  0  0]  
 [ 6  3  2 10  0  0  0]  
 [ 5  3  2  4  0  0  0]  
 [ 9  5  7  2  4  8 11]], shape=(4, 7), dtype=int64)
```

```
for index, word in enumerate(vocabulary):  
    print(index, word)
```

```
0  
1 [UNK]  
2 my  
3 love  
4 dog  
5 you  
6 i  
7 think  
8 is  
9 do  
10 cat  
11 amazing
```

```
print(sequences)
```

```
tf.Tensor(  
[[ 6  3  2  4  0  0  0]  
 [ 6  3  2 10  0  0  0]  
 [ 5  3  2  4  0  0  0]  
 [ 9  5  7  2  4  8 11]], shape=(4, 7), dtype=int64)
```

```
for index, word in enumerate(vocabulary):  
    print(index, word)
```

```
0  
1 [UNK]  
2 my  
3 love  
4 dog  
5 you  
6 i  
7 think  
8 is  
9 do  
10 cat  
11 amazing
```

```
print(sequences)
```

```
tf.Tensor(  
[[ 6  3  2  4  0  0  0]  
 [ 6  3  2 10  0  0  0]  
 [ 5  3  2  4  0  0  0]  
 [ 9  5  7  2  4  8 11]], shape=(4, 7), dtype=int64)
```

```
for index, word in enumerate(vocabulary):  
    print(index, word)
```

```
0  
1 [UNK]  
2 my  
3 love  
4 dog  
5 you  
6 i  
7 think  
8 is  
9 do  
10 cat  
11 amazing
```

```
print(sequences)
```

```
tf.Tensor(  
[[ 6  3  2  4  0  0  0]  
 [ 6  3  2 10  0  0  0]  
 [ 5  3  2  4  0  0  0]  
 [ 9  5  7  2  4  8 11]], shape=(4, 7), dtype=int64)
```



```
sequences_pre = tf.keras.utils.pad_sequences(sequences, padding='pre')
```

```
print(sequences)
```

OUTPUT:

```
[[ 0  0  0  6  3  2  4]
 [ 0  0  0  6  3  2 10]
 [ 0  0  0  5  3  2  4]
 [ 9  5  7  2  4  8 11]]
```

```
sentences = [  
    'I love my dog',  
    'I love my cat',  
    'You love my dog!',  
    'Do you think my dog is amazing?'  
]
```

```
vectorize_layer = tf.keras.layers.TextVectorization()  
vectorize_layer.adapt(sentences)  
vocabulary = vectorize_layer.get_vocabulary()
```

```
sequences = vectorize_layer(sentences)  
  
print(sequences)  
  
tf.Tensor(  
[[ 6  3  2  4  0  0  0]  
 [ 6  3  2 10  0  0  0]  
 [ 5  3  2  4  0  0  0]  
 [ 9  5  7  2  4  8 11]], shape=(4, 7), dtype=int64)
```

```
sentences = [  
    'I love my dog',  
    'I love my cat',  
    'You love my dog!',  
    'Do you think my dog is amazing?'  
]
```

```
vectorize_layer = tf.keras.layers.TextVectorization()  
vectorize_layer.adapt(sentences)  
vocabulary = vectorize_layer.get_vocabulary()
```

```
sentences_dataset = tf.data.Dataset.from_tensor_slices(sentences)
```

```
sequences = sentences_dataset.map(vectorize_layer)
```



```
sentences = [  
    'I love my dog',  
    'I love my cat',  
    'You love my dog!',  
    'Do you think my dog is amazing?'  
]  
  
vectorize_layer = tf.keras.layers.TextVectorization()  
vectorize_layer.adapt(sentences)  
vocabulary = vectorize_layer.get_vocabulary()  
  
sentences_dataset = tf.data.Dataset.from_tensor_slices(sentences)  
  
sequences = sentences_dataset.map(vectorize_layer)
```




```
sentences = [  
    'I love my dog',  
    'I love my cat',  
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vectorize_layer = tf.keras.layers.TextVectorization()  
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```
sentences_dataset = tf.data.Dataset.from_tensor_slices(sentences)
```

```
sequences = sentences_dataset.map(vectorize_layer)
```

```
print(sequences)
```

```
<_MapDataset element_spec=TensorSpec(shape=(None,), dtype=tf.int64, name=None)>
```



```
sentences = [  
    'I love my dog',  
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    'Do you think my dog is amazing?'  
]
```

```
vectorize_layer = tf.keras.layers.TextVectorization()  
vectorize_layer.adapt(sentences)  
vocabulary = vectorize_layer.get_vocabulary()
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```
sentences_dataset = tf.data.Dataset.from_tensor_slices(sentences)
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```
sequences = sentences_dataset.map(vectorize_layer)
```

```
print(sequences)
```

```
<_MapDataset element_spec=TensorSpec(shape=(None,), dtype=tf.int64, name=None)>
```

```
sentences = [  
    'I love my dog',  
    'I love my cat',  
    'You love my dog!',  
    'Do you think my dog is amazing?'  
]  
  
vectorize_layer = tf.keras.layers.TextVectorization()  
vectorize_layer.adapt(sentences)  
vocabulary = vectorize_layer.get_vocabulary()  
  
sentences_dataset = tf.data.Dataset.from_tensor_slices(sentences)  
  
sequences = sentences_dataset.map(vectorize_layer)  
  
for sentence, sequence in zip(sentences, sequences):  
    print(f'{sentence} ---> {sequence}')
```



```
vectorize_layer = tf.keras.layers.TextVectorization()  
vectorize_layer.adapt(sentences)  
vocabulary = vectorize_layer.get_vocabulary()  
  
sentences_dataset = tf.data.Dataset.from_tensor_slices(sentences)  
  
sequences = sentences_dataset.map(vectorize_layer)  
  
for sentence, sequence in zip(sentences, sequences):  
    print(f'{sentence} ---> {sequence}')  
I love my dog ---> [6 3 2 4]  
I love my cat ---> [6 3 2 10]  
You love my dog! ---> [5 3 2 4]  
Do you think my dog is amazing? ---> [9 5 7 2 4 8 11]
```



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vectorize_layer = tf.keras.layers.TextVectorization()  
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I love my dog ---> [6 3 2 4]  
I love my cat ---> [6 3 2 10]  
You love my dog! ---> [5 3 2 4]  
Do you think my dog is amazing? ---> [9 5 7 2 4 8 11]
```



```
vectorize_layer = tf.keras.layers.TextVectorization()  
vectorize_layer.adapt(sentences)  
vocabulary = vectorize_layer.get_vocabulary()  
  
sentences_dataset = tf.data.Dataset.from_tensor_slices(sentences)  
  
sequences = sentences_dataset.map(vectorize_layer)  
  
sequences_pre = tf.keras.utils.pad_sequences(sequences, padding='pre')  
  
print(sequences_pre)
```

```
[[ 0  0  0  6  3  2  4]  
 [ 0  0  0  6  3  2 10]  
 [ 0  0  0  5  3  2  4]  
 [ 9  5  7  2  4  8 11]]
```

```
vectorize_layer = tf.keras.layers.TextVectorization()  
vectorize_layer.adapt(sentences)  
vocabulary = vectorize_layer.get_vocabulary()  
  
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sequences = sentences_dataset.map(vectorize_layer)  
  
sequences_pre = tf.keras.utils.pad_sequences(sequences, padding='pre')  
  
print(sequences_pre)
```

```
[[ 0  0  0  6  3  2  4]  
 [ 0  0  0  6  3  2 10]  
 [ 0  0  0  5  3  2  4]  
 [ 9  5  7  2  4  8 11]]
```

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vectorize_layer.adapt(sentences)  
vocabulary = vectorize_layer.get_vocabulary()  
  
sentences_dataset = tf.data.Dataset.from_tensor_slices(sentences)  
  
sequences = sentences_dataset.map(vectorize_layer)  
  
sequences_pre = tf.keras.utils.pad_sequences(sequences, padding='pre')  
  
print(sequences_pre)
```

| | | | | | | | |
|---|---|---|---|---|---|---|------|
| [| 0 | 0 | 0 | 6 | 3 | 2 | 4] |
| [| 0 | 0 | 0 | 6 | 3 | 2 | 10] |
| [| 0 | 0 | 0 | 5 | 3 | 2 | 4] |
| [| 9 | 5 | 7 | 2 | 4 | 8 | 11]] |


```
import tensorflow as tf

sentences = [
    'I love my dog',
    'I love my cat',
    'You love my dog!',
    'Do you think my dog is amazing?'
]

vectorize_layer = tf.keras.layers.TextVectorization(ragged=True)

vectorize_layer.adapt(sentences)

vocabulary = vectorize_layer.get_vocabulary()

ragged_sequences = vectorize_layer(sentences)

for index, word in enumerate(vocabulary):
    print(index, word)

print(ragged_sequences)
```



```
for index, word in enumerate(vocabulary):  
    print(index, word)
```

```
0  
1 [UNK]  
2 my  
3 love  
4 dog  
5 you  
6 i  
7 think  
8 is  
9 do  
10 cat  
11 amazing
```

```
print(ragged_sequences)
```

```
<tf.RaggedTensor [[6, 3, 2, 4], [6, 3, 2, 10], [5, 3, 2, 4], [9, 5, 7, 2, 4, 8, 11]]>
```

```
for index, word in enumerate(vocabulary):  
    print(index, word)
```

```
0  
1 [UNK]  
2 my  
3 love  
4 dog  
5 you  
6 i  
7 think  
8 is  
9 do  
10 cat  
11 amazing
```

```
print(ragged_sequences)
```

```
<tf.RaggedTensor [[6, 3, 2, 4] [6, 3, 2, 10], [5, 3, 2, 4], [9, 5, 7, 2, 4, 8, 11]] >
```

```
import tensorflow as tf

sentences = [
    'I love my dog',
    'I love my cat',
    'You love my dog!',
    'Do you think my dog is amazing?'
]

vectorize_layer = tf.keras.layers.TextVectorization(ragged=True)

vectorize_layer.adapt(sentences)

vocabulary = vectorize_layer.get_vocabulary()

ragged_sequences = vectorize_layer(sentences)

pre_padded_sequences = tf.keras.utils.pad_sequences(ragged_sequences.numpy())

print(pre_padded_sequences)
```



```
print(pre_padded_sequences)
```

```
[[ 0  0  0  6  3  2  4]  
 [ 0  0  0  6  3  2 10]  
 [ 0  0  0  5  3  2  4]  
 [ 9  5  7  2  4  8 11]]
```



```
sentences = [  
    'I love my dog',  
    'I love my cat',  
    'You love my dog!',  
    'Do you think my dog is amazing?'  
]  
  
vectorize_layer = tf.keras.layers.TextVectorization()  
vectorize_layer.adapt(sentences)  
  
test_data = [  
    'i really love my dog',  
    'my dog loves my manatee'  
]
```



```
sentences = [  
    'I love my dog',  
    'I love my cat',  
    'You love my dog!',  
    'Do you think my dog is amazing?'  
]
```

```
vectorize_layer = tf.keras.layers.TextVectorization()  
vectorize_layer.adapt(sentences)
```

```
test_data = [  
    'i really love my dog',  
    'my dog loves my manatee'  
]
```



```
test_data = [  
    'i really love my dog',  
    'my dog loves my manatee'  
]  
  
test_seq = vectorize_layer(test_data)  
  
print(test_seq)
```



```
test_data = [  
    'i really love my dog',  
    'my dog loves my manatee'  
]  
  
test_seq = vectorize_layer(test_data)  
  
print(test_seq)  
  
tf.Tensor(  
[[6 1 3 2 4]  
 [2 4 1 2 1]], shape=(2, 5), dtype=int64)
```

```
test_data = [  
    'i really love my dog',  
    'my dog loves my manatee'  
]
```

```
test_seq = vectorize_layer(test_data)
```

```
print(test_seq)
```


```
tf.Tensor(  
[[6 1 3 2 4]  
 [2 4 1 2 1]], shape=(2, 5), dtype=int64)
```

```
0  
1 [UNK]  
2 my  
3 love  
4 dog  
5 you  
6 i  
7 think  
8 is  
9 do  
10 cat  
11 amazing
```




Sarcasm in News Headlines Dataset by Rishabh Misra

<https://rishabhmisra.github.io/publications/>

 Dataset

News Headlines Dataset For Sarcasm Detection

High quality dataset for the task of Sarcasm Detection

 Rishabh Misra · updated a year ago (Version 1)

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 classification, deep learning, nlp, linguistics

Description

Context

Past studies in Sarcasm Detection mostly make use of Twitter datasets collected using hashtag based supervision but such datasets are noisy in terms of labels and language. Furthermore, many tweets are replies to other tweets and detecting sarcasm in these requires the availability of contextual tweets.

To overcome the limitations related to noise in Twitter datasets, this **News Headlines dataset for Sarcasm Detection** is collected from two news website. [TheOnion](#) aims at producing sarcastic versions of current events and we collected all the headlines from News in Brief and News in Photos categories (which are sarcastic). We collect real (and non-sarcastic) news headlines from [HuffPost](#).

This new dataset has following advantages over the existing Twitter datasets:

- Since news headlines are written by professionals in a formal manner, there are no spelling mistakes and informal usage. This reduces the sparsity and also increases the chance of finding pre-trained embeddings.
- Furthermore, since the sole purpose of *TheOnion* is to publish sarcastic news, we get high-quality labels with much less noise as compared to Twitter datasets.
- Unlike tweets which are replies to other tweets, the news headlines we obtained are self-contained. This would help us in teasing apart the real sarcastic elements.

Content

Each record consists of three attributes:

- `is_sarcastic` : 1 if the record is sarcastic otherwise 0
- `headline` : the headline of the news article
- `article_link` : link to the original news article. Useful in collecting supplementary data

`is_sarcastic`: 1 if the record is sarcastic otherwise 0

`headline`: the headline of the news article

`article_link`: link to the original news article. Useful in collecting supplementary data

```
{"article_link":  
"https://politics.theonion.com/boehner-just-wants-wife-to-listen-not-come-up-with-alt-1819574302", "headline": "boehner just wants wife to listen, not come up with alternative debt-reduction ideas", "is_sarcastic": 1}
```

```
{"article_link":  
"https://www.huffingtonpost.com/entry/roseanne-revival-review_us_5ab3a497e4b054d118e04365",  
"headline": "the 'roseanne' revival catches up to our thorny political mood, for better and worse", "is_sarcastic": 0}
```

```
{"article_link":  
"https://local.theonion.com/mom-starting-to-fear-son-s-web-series-closest-thing-she-1819576697", "headline": "mom starting to fear son's web series closest thing she will have to grandchild", "is_sarcastic": 1}
```

[

```
{"article_link":  
"https://politics.theonion.com/boehner-just-wants-wife-to-listen-not-come-up-with-alt-1819574302", "headline": "boehner just wants wife to listen, not come up with alternative debt-reduction ideas", "is_sarcastic": 1},
```

```
{"article_link":  
"https://www.huffingtonpost.com/entry/roseanne-revival-review_us_5ab3a497e4b054d118e04365",  
"headline": "the 'roseanne' revival catches up to our thorny political mood, for better and worse", "is_sarcastic": 0},
```

```
{"article_link":  
"https://local.theonion.com/mom-starting-to-fear-son-s-web-series-closest-thing-she-1819576697", "headline": "mom starting to fear son's web series closest thing she will have to grandchild", "is_sarcastic": 1}
```

]

```
import json

with open("sarcasm.json", 'r') as f:
    datastore = json.load(f)

sentences = []
labels = []
urls = []
for item in datastore:
    sentences.append(item['headline'])
    labels.append(item['is_sarcastic'])
    urls.append(item['article_link'])
```



```
import json
```

```
with open("sarcasm.json", 'r') as f:  
    datastore = json.load(f)
```

```
sentences = []  
labels = []  
urls = []  
for item in datastore:  
    sentences.append(item['headline'])  
    labels.append(item['is_sarcastic'])  
    urls.append(item['article_link'])
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import json
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with open("sarcasm.json", 'r') as f:  
    datastore = json.load(f)
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import tensorflow as tf

vectorize_layer = tf.keras.layers.TextVectorization()

vectorize_layer.adapt(sentences)

vocabulary = vectorize_layer.get_vocabulary()

post_padded_sequences = vectorize_layer(sentences)

print(f'padded sequence: {post_padded_sequences[2]}')

padded sequence: [140 825 2 813 1100 2048 571 5057 199 139 39 46 2
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