

udf by ars0107



Run

```
%pyspark
from pyspark.ml.feature import Tokenizer
from pyspark.sql.functions import col, udf
from pyspark.sql.types import IntegerType
```

```
%pyspark
dataframe = spark.createDataFrame([
    (0, "Mary had a little lamb"),
    (1, "It's fleece was white as snow"),
    (2, "And everywhere Mary went"),
    (3, "The lamb was sure to go")
], ["id", "Nursery Rhyme"])
dataframe.show()
```

```
+---+-----+
| id|      Nursery Rhyme|
+---+-----+
|  0|Mary had a little...|
|  1|It's fleece was w...|
|  2|And everywhere Ma...|
|  3|The lamb was sure...|
+---+-----+
```

```
%pyspark (/U4G66226D/spaces)
# Tokenize word
tokenizer = Tokenizer(inputCol="Nursery Rhyme", outputCol="words")
tokenizer
```

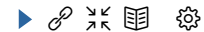
Tokenizer_4013b483aaa213eae29c



Run

```
%pyspark
# Create a function to return the length of a list
def word_list_length(word_list):
    return len(word_list)
```

```
%pyspark
# Create a user defined function
count_tokens = udf(word_list_length, IntegerType())
count_tokens
```



<pyspark.sql.functions.UserDefinedFunction at 0x7f39f0132d90>

Interpreter: spark.pyspark. **FINISHED** Took 1 sec 503 millsec. Updated by ars0107 on February 04 2019, 8:40:17 AM (CST)



```
%pyspark
# Transform DataFrame
tokenized = tokenizer.transform(dataframe)

# Select the needed columns and don't truncate results
tokenized.select("Nursery Rhyme", "words")\
    .withColumn("tokens", count_tokens(col("words"))).show(truncate=False)
```

Nursery Rhyme	words	tokens
Mary had a little lamb	[mary, had, a, little, lamb]	5
It's fleece was white as snow	[it's, fleece, was, white, as, snow]	6
And everywhere Mary went	[and, everywhere, mary, went]	4
The lamb was sure to go	[the, lamb, was, sure, to, go]	6

Started

Juno ▾





Run