

# Spark by {Examples} (https://sparkbyexamples.com/)

- PySpark Tutorial**
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- [PySpark – Web/Application UI \(https://sparkbyexamples.com/spark/spark-web-ui-understanding/\)](https://sparkbyexamples.com/spark/spark-web-ui-understanding/)
- [PySpark – SparkSession \(https://sparkbyexamples.com/pyspark/pyspark-what-is-sparksession/\)](https://sparkbyexamples.com/pyspark/pyspark-what-is-sparksession/)
- [PySpark – RDD \(https://sparkbyexamples.com/pyspark-rdd\)](https://sparkbyexamples.com/pyspark-rdd)
- [PySpark – Parallelize \(https://sparkbyexamples.com/pyspark/pyspark-parallelize-create-rdd/\)](https://sparkbyexamples.com/pyspark/pyspark-parallelize-create-rdd/)
- [PySpark – repartition\(\) vs coalesce\(\) \(https://sparkbyexamples.com/pyspark/pyspark-repartition-vs-coalesce/\)](https://sparkbyexamples.com/pyspark/pyspark-repartition-vs-coalesce/)
- [PySpark – Broadcast Variables \(https://sparkbyexamples.com/pyspark/pyspark-broadcast-variables/\)](https://sparkbyexamples.com/pyspark/pyspark-broadcast-variables/)

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PySpark map() Transformation

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PySpark map (map()) is an RDD transformation that is used to apply the transformation function (lambda) on every element of RDD/DataFrame and returns a new RDD. In this article, you will learn the syntax and usage of the RDD map() transformation with an example and how to use it with DataFrame.

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RDD map() transformation is used to apply any complex operations like adding a column, updating a column, transforming the data e.t.c, the output

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[PySpark – Accumulator  
\(https://sparkbyexamples.com/pyspark/pyspark-accumulator-with-example/\)](https://sparkbyexamples.com/pyspark/pyspark-accumulator-with-example/)

## PySpark DataFrame

[PySpark – Create a DataFrame  
\(https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/\)](https://sparkbyexamples.com/pyspark/different-ways-to-create-dataframe-in-pyspark/)

[PySpark – Create an empty DataFrame  
\(https://sparkbyexamples.com/pyspark/pyspark-create-an-empty-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-create-an-empty-dataframe/)

[PySpark – Convert RDD to DataFrame  
\(https://sparkbyexamples.com/pyspark/convert-pyspark-rdd-to-dataframe/\)](https://sparkbyexamples.com/pyspark/convert-pyspark-rdd-to-dataframe/)

[PySpark – Convert DataFrame to Pandas  
\(https://sparkbyexamples.com/pyspark/convert-pyspark-dataframe-to-pandas/\)](https://sparkbyexamples.com/pyspark/convert-pyspark-dataframe-to-pandas/)

[PySpark – show\(\)  
\(https://sparkbyexamples.com/pyspark/pyspark-show-display-dataframe-contents-in-table/\)](https://sparkbyexamples.com/pyspark/pyspark-show-display-dataframe-contents-in-table/)

[PySpark – StructType & StructField  
\(https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/\)](https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/)

[PySpark – Row Class  
\(https://sparkbyexamples.com/pyspark/pyspark-row-using-rdd-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-row-using-rdd-dataframe/)

[PySpark – Column Class  
\(https://sparkbyexamples.com/pyspark/pyspark-column-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-column-functions/)

[PySpark – select\(\)  
\(https://sparkbyexamples.com/pyspark/select-columns-from-pyspark-dataframe/\)](https://sparkbyexamples.com/pyspark/select-columns-from-pyspark-dataframe/)

[PySpark – collect\(\)  
\(https://sparkbyexamples.com/pyspark/pyspark-collect/\)](https://sparkbyexamples.com/pyspark/pyspark-collect/)

[PySpark – withColumn\(\)  
\(https://sparkbyexamples.com/pyspark/pyspark-withcolumn/\)](https://sparkbyexamples.com/pyspark/pyspark-withcolumn/)

of map transformations would always have the same number of records as input.

- **Note1:** DataFrame doesn't have map() transformation to use with DataFrame hence you need to DataFrame to RDD first.
- **Note2:** If you have a heavy initialization use PySpark mapPartitions() transformation instead of map(), as with mapPartitions() heavy initialization executes only once for each partition instead of every record.

Related: [Spark map\(\) vs mapPartitions\(\) Explained with Examples](#)  
(https://sparkbyexamples.com/spark/spark-map-vs-mappartitions-transformation/)

First, let's create an RDD from the list.

```
from pyspark.sql import SparkSession
spark = SparkSession.builder.master("local[*]").appName("SparkByExamples.com").getOrCreate()

data = ["Project", "Gutenberg's", "in", "Wonderland", "Project", "Gutenberg's", "in", "Wonderland", "Project", "Gutenberg's"]

rdd = spark.sparkContext.parallelize(data)
```

## map() Syntax

```
map(f, preservesPartitioning=False)
```

## PySpark map() Example with RDD

In this PySpark map() example, we are adding a new element with value 1 for each element, the result of the RDD is PairRDDFunctions which contains key-value pairs, word of type String as Key and 1 of type Int as value.

[PySpark – withColumnRenamed\(\).](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-rename-dataframe-column/>).

[PySpark – where\(\) & filter\(\).](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-where-filter/>).

[PySpark – drop\(\) & dropDuplicates\(\).](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-distinct-to-drop-duplicates/>).

[PySpark – orderBy\(\) and sort\(\).](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-orderby-and-sort-explained/>).

[PySpark – groupBy\(\).](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-groupby-explained-with-example/>).

[PySpark – join\(\).](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-join-explained-with-examples/>).

[PySpark – union\(\) & unionAll\(\).](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-union-and-unionall/>).

[PySpark – unionByName\(\).](#)  
(<https://sparkbyexamples.com/spark/spark-merge-two-dataframes-with-different-columns/>).

[PySpark – UDF \(User Defined Function\).](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-udf-user-defined-function/>).

[PySpark – map\(\).](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-map-transformation/>).

[PySpark – flatMap\(\).](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-flatmap-transformation/>).

[pyspark – foreach\(\).](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-loop-iterate-through-rows-in-dataframe/#use-foreach-loop-through-dataframe>).

[PySpark – sample\(\) vs sampleBy\(\).](#)

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```
rdd2=rdd.map(lambda x: (x,1))
for element in rdd2.collect():
    print(element)
```

This yields below output.

```
('Project', 1)
('Gutenberg's', 1)
('Alice's', 1)
('Adventures', 1)
('in', 1)
('Wonderland', 1)
('Project', 1)
('Gutenberg's', 1)
('Adventures', 1)
('in', 1)
('Wonderland', 1)
('Project', 1)
('Gutenberg's', 1)
```

## PySpark map() Example with DataFrame

PySpark DataFrame doesn't have `map()` transformation to apply the lambda function, when you wanted to apply the custom transformation, you need to convert the DataFrame to RDD and apply the `map()` transformation. Let's use another dataset to explain this.

[\(https://sparkbyexamples.com/pyspark/pyspark-sampling-example/\)](https://sparkbyexamples.com/pyspark/pyspark-sampling-example/)

[PySpark – fillna\(\) & fill\(\)  
\(https://sparkbyexamples.com/pyspark/pyspark-fillna-fill-replace-null-values/\)](https://sparkbyexamples.com/pyspark/pyspark-fillna-fill-replace-null-values/)

[PySpark – pivot\(\)\\_\(Row to Column\)  
\(https://sparkbyexamples.com/pyspark/pyspark-pivot-and-unpivot-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-pivot-and-unpivot-dataframe/)

[PySpark – partitionBy\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-partitionby-example/\)](https://sparkbyexamples.com/pyspark/pyspark-partitionby-example/)

[PySpark – ArrayType Column \(Array\).  
\(https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/\)](https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/)

[PySpark – MapType \(Map/Dict\).  
\(https://sparkbyexamples.com/pyspark/pyspark-maptypes-dict-examples/\)](https://sparkbyexamples.com/pyspark/pyspark-maptypes-dict-examples/)

## PySpark SQL Functions

[PySpark – Aggregate Functions  
\(https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/)

[PySpark – Window Functions  
\(https://sparkbyexamples.com/pyspark/pyspark-window-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-window-functions/)

[PySpark – Date and Timestamp Functions  
\(https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/\)](https://sparkbyexamples.com/pyspark/pyspark-sql-date-and-timestamp-functions/)

[PySpark – JSON Functions  
\(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/\)](https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/)

## PySpark Datasources

[PySpark – Read & Write CSV File  
\(https://sparkbyexamples.com/pyspark/pyspark-read-csv-file-into-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-read-csv-file-into-dataframe/)

[PySpark – Read & Write Parquet File  
\(https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file/\)](https://sparkbyexamples.com/pyspark/pyspark-read-write-parquet-file/)

```
data = [('James','Smith','M',30),
        ('Anna','Rose','F',41),
        ('Robert','Williams','M',62),
        ]
```

```
columns = ["firstname","lastname","gender","salary"]
df = spark.createDataFrame(data,columns)
df.show()
```

```
+-----+-----+-----+-----+
|firstname|lastname|gender|salary|
+-----+-----+-----+-----+
|   James|   Smith|     M|    3000|
|   Anna|   Rose|     F|   41000|
| Robert|Williams|     M|   62000|
+-----+-----+-----+-----+
```

```
# Referring columns by index.
rdd2=df.rdd.map(lambda x:
                (x[0]+", "+x[1],x[2],x[3]*2)
                )
df2=rdd2.toDF(["name","gender","new_salary"])
df2.show()
```

```
+-----+-----+-----+-----+
|          name|gender|new_salary|
+-----+-----+-----+-----+
| James,Smith|     M|    60000|
| Anna,Rose|     F|  820000|
|Robert,Williams|     M| 1240000|
+-----+-----+-----+-----+
```

Note that above I have used index to get the column values, alternatively, you can also refer to the DataFrame column names while iterating.

```
# Referring Column Names
rdd2=df.rdd.map(lambda x:
                (x["firstname"]+", "+x["lastname"],x["salary"]*2)
                )
```

Another alternative

```
# Referring Column Names
rdd2=df.rdd.map(lambda x:
                (x.firstname+", "+x.lastname,x.salary*2)
                )
```

[pyspark/pyspark-read-and-write-parquet-file/](#)

[PySpark – Read & Write JSON file](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-read-json-file-into-dataframe/>)



## PySpark Built-In Functions

[PySpark – when\(\)](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-when-otherwise/>)

[PySpark – expr\(\)](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-sql-expr-expression-function/>)

[PySpark – lit\(\)](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/>)

[PySpark – split\(\)](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-convert-string-to-array-column/>)

[PySpark – concat\\_ws\(\)](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-convert-array-column-to-string-column/>)

[Pyspark – substring\(\)](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-substring-from-a-column/>)

[PySpark – translate\(\)](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#translate-replace-character-by-character>)

[PySpark – regexp\\_replace\(\)](#)  
(<https://sparkbyexamples.com/pyspark/pyspark-replace-column->

You can also create a custom function to perform an operation. Below `func1()` function executes for every DataFrame row from the lambda function.

```
# By Calling function
def func1(x):
    firstName=x.firstname
    lastName=x.lastname
    name=firstName+","+lastName
    gender=x.gender.lower()
    salary=x.salary*2
    return (name,gender,salary)

rdd2=df.rdd.map(lambda x: func1
```

## Complete PySpark map() example

Below is complete example of PySpark `map()` transformation.

[values/#regex\\_replace-replace-string-columns\).](#)

[PySpark – overlay\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-replace-column-values/#overlay-function\)](#)

[PySpark – to\\_timestamp\(\).  
\(https://sparkbyexamples.com/spark/pyspark-to\\_timestamp-convert-string-to-timestamp-type/\)](#)

[PySpark – to\\_date\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-to\\_date-convert-timestamp-to-date/\)](#)

[PySpark – date\\_format\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-date\\_format-convert-date-to-string-format/\)](#)

[PySpark – datediff\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#datediff\)](#)

[PySpark – months\\_between\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-difference-between-two-dates-days-months-years/#months\\_between\(\)\)](#)

[PySpark – explode\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-explode-nested-array-into-rows/\)](#)

[PySpark – array\\_contains\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/#array\\_contains\)](#)

[PySpark – array\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-arraytype-column-with-examples/#array\)](#)

[PySpark – collect\\_list\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/#collect-list\)](#)

[PySpark – collect\\_set\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-aggregate-functions/#collect-set\)](#)

[PySpark – create\\_map\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-convert-dataframe-columns-to-maptype-dict/\)](#)

```
from pyspark.sql import SparkSession
spark = SparkSession.builder.appName('PySpark SQL').getOrCreate()
```

```
data = ["Project",
        "Gutenberg's",
        "Alice's",
        "Adventures",
        "in",
        "Wonderland",
        "Project",
        "Gutenberg's",
        "Adventures",
        "in",
        "Wonderland",
        "Project",
        "Gutenberg's"]
```

```
rdd=spark.sparkContext.parallelize(data)
```

```
rdd2=rdd.map(lambda x: (x,1))
for element in rdd2.collect():
    print(element)
```

```
data = [('James','Smith','M',30),
        ('Anna','Rose','F',41),
        ('Robert','Williams','M',62),
        ]
```

```
columns = ["firstname","lastname","gender","salary"]
df = spark.createDataFrame(data,columns)
df.show()
```

```
rdd2=df.rdd.map(lambda x:
                (x[0]+" "+x[1],x[2],x[3]*2)
                )
df2=rdd2.toDF(["name","gender","salary"])
df2.show()
```

#Referring Column Names

```
rdd2=df.rdd.map(lambda x:
                (x["firstname"]+" "+x["lastname"],x["gender"],x["salary"]*2)
                )
```

#Referring Column Names

```
rdd2=df.rdd.map(lambda x:
                (x.firstname+" "+x.lastname,x.gender,x.salary*2)
                )
```

```
def func1(x):
    firstName=x.firstname
    lastName=x.lastname
    name=firstName+" "+lastName
    gender=x.gender.lower()
    salary=x.salary*2
    return (name,gender,salary)
```

[PySpark – map\\_keys\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/#map\\_keys\)](https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/#map_keys)

[PySpark – map\\_values\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/#map\\_values\)](https://sparkbyexamples.com/pyspark/pyspark-maptype-dict-examples/#map_values)

[PySpark – struct\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/#update-struct-function\)](https://sparkbyexamples.com/pyspark/pyspark-structtype-and-structfield/#update-struct-function)

[PySpark – countDistinct\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-count-distinct-from-dataframe/\)](https://sparkbyexamples.com/pyspark/pyspark-count-distinct-from-dataframe/)

[PySpark – sum\(\).avg\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-dataframe-groupby-and-sort-by-descending-order/\)](https://sparkbyexamples.com/pyspark/pyspark-dataframe-groupby-and-sort-by-descending-order/)

[PySpark – row\\_number\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-window-functions/#row\\_number\)](https://sparkbyexamples.com/pyspark/pyspark-window-functions/#row_number)

[PySpark – rank\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-window-functions/#rank\)](https://sparkbyexamples.com/pyspark/pyspark-window-functions/#rank)

[PySpark – dense\\_rank\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-window-functions/#dense\\_rank\)](https://sparkbyexamples.com/pyspark/pyspark-window-functions/#dense_rank)

[PySpark – percent\\_rank\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-window-functions/#percent\\_rank\)](https://sparkbyexamples.com/pyspark/pyspark-window-functions/#percent_rank)

[PySpark – typedLit\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/#typedlit\)](https://sparkbyexamples.com/pyspark/pyspark-lit-add-literal-constant/#typedlit)

[PySpark – from\\_json\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#from\\_json\)](https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#from_json)

[PySpark – to\\_json\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#to\\_json\)](https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#to_json)

[PySpark – json\\_tuple\(\).  
\(https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#json\\_tuple\)](https://sparkbyexamples.com/pyspark/pyspark-json-functions-with-examples/#json_tuple)

```
rdd2=df.rdd.map(lambda x: func1
```

In conclusion, you have learned how to apply a `map()` transformation on every element of PySpark RDD and learned it returns the same number of elements as input RDD. This is one of the differences between `map()` and `flatMap()` (<https://sparkbyexamples.com/pyspark/pyspark-rdd-flatmap-transformation/>) transformations. And you have also learned how to use `map()` on DataFrame by converting DataFrame to RDD.

Happy Learning !!

Reference:

<https://spark.apache.org/docs/latest/api/python/pyspark.sql.html>  
(<https://spark.apache.org/docs/latest/api/python/pyspark.sql.html>)

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TAGS: [MAP\(\)](#).  
([HTTPS://SPARKBYEXAMPLES.COM/TAG/MAP-2/](https://sparkbyexamples.com/tag/map-2/))



[PySpark – get\\_json\\_object\(\)  
\(https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#get\\_json\\_object\)](https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#get_json_object)

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[PySpark – schema\\_of\\_json\(\)  
\(https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#schema\\_of\\_json\)](https://sparkbyexamples.com/py-spark/pyspark-json-functions-with-examples/#schema_of_json)

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