

How can I convert a list to a DataFrame row in Python?

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Converting a list to a DataFrame row in Python is a useful process for organizing and manipulating data. This can be achieved by using the pandas library, which provides a function called "DataFrame" that allows users to convert a list into a row within a DataFrame. By specifying the list as the input and providing appropriate column labels, the function will create a new row in the DataFrame with the list values. This allows for easy integration of lists into larger datasets and simplifies the process of organizing data in a tabular format.

Convert a List to a DataFrame Row in Python

You can use the following syntax to convert a list into a DataFrame row in Python:

```
#define list
```

```
x =
```

```
#convert list to DataFrame
```

```
df = pd.DataFrame(x).T
```

And you can use the following syntax to convert a list of lists into several rows of a DataFrame:

```
#define list of lists
```

```
big_list = ,
```

```
,
```

```
]
```

```
#convert list of lists into DataFrame
```

```
df = pd.DataFrame(columns=, data=big_list)
```

The following examples show how to use each of these functions in practice.

Example 1: Convert a List into a DataFrame Row

The following code shows how to convert a single list into a DataFrame with one row in Python:

```
import pandas as pd  
  
#define list  
x =  
  
#convert list to DataFrame  
df = pd.DataFrame(x).T  
  
#specify column names of DataFrame  
df.columns = #display DataFrame  
print(df)
```

```
Points Assists Rebounds Team  
0 4 5 8 Mavericks
```

Example 2: Convert a List of Lists into Several DataFrame Rows

The following code shows how to convert a list of lists into a DataFrame with several rows in Python:

```
import pandas as pd
```

```
#define list of lists
```

```
big_list = ,
```

```
,
```

```
]
```

```
#convert list of lists into DataFrame
```

```
df = pd.DataFrame(columns=, data=big_list)
```

```
#display DataFrame
```

```
print(df)
```

```
Points Assists Rebounds Team
```

```
0 6 7 12 Mavericks
```

```
1 4 2 1 Lakers
```

```
2 12 4 8 Spurs
```

We can verify the number of rows and columns of the resulting DataFrame by using the `.shape()` function:

```
print(df.shape)
```

(3, 4)

This tells us that the resulting DataFrame has 3 rows and 4 columns.

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