

# How to Convert a NumPy Array to Pandas DataFrame

Authored by  
**stats writer**

December 17, 2025

## RECOMMENDED CITATION

stats writer (2025). *How to Convert a NumPy Array to Pandas DataFrame*.

PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=107652>

NumPy arrays can be easily converted to Pandas DataFrames by using the DataFrame constructor provided by Pandas. This constructor takes a NumPy array as its argument and converts it into a Pandas DataFrame. The DataFrame constructor also allows optional arguments to be passed in to customize the resulting DataFrame. This includes arguments such as column names, index names, and even data types. Once the DataFrame is created, the data can be manipulated and visualized using the Pandas library.

You can use the following syntax to convert a NumPy array into a pandas DataFrame:

```
#create NumPy array
```

```
data = np.array(, )
```

```
#convert NumPy array to pandas DataFrame
```

```
df = pd.DataFrame(data=data)
```

The following example shows how to use this syntax in practice.

### **Example: Convert NumPy Array to Pandas DataFrame**

Suppose we have the following NumPy array:

```
import numpy as np
```

```
#create NumPy array
```

```
data = np.array(, )
```

```
#print class of NumPy array
```

```
type(data)
```

```
numpy.ndarray
```

We can use the following syntax to convert the NumPy array into a pandas DataFrame:

```
import pandas as pd
```

```
#convert NumPy array to pandas DataFrame
```

```
df = pd.DataFrame(data=data)
```

```
#print DataFrame
```

```
print(df)
```

```
0 1 2 3 4
```

```
0 1 7 6 5 6
1 4 4 4 3 1
```

```
#print class of DataFrame
type(df)
```

```
pandas.core.frame.DataFrame
```

## Specify Row & Column Names for Pandas DataFrame

We can also specify row names and column names for the DataFrame by using the **index** and **columns** arguments, respectively.

```
#convert array to DataFrame and specify rows & columns
df = pd.DataFrame(data=data, index=, columns=)
```

```
#print the DataFrame
print(df)
```

```
A B C D E
r1 1 7 6 5 6
r2 4 4 4 3 1
```

[How to Add a Numpy Array to a Pandas DataFrame](#)

[How to Drop the Index Column in Pandas](#)

[Pandas: Select Rows Where Value Appears in Any Column](#)