

# How to display all rows of a Pandas DataFrame?

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June 27, 2024

## RECOMMENDED CITATION

stats writer (2024). *How to display all rows of a Pandas DataFrame?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=155480>

To display all rows of a Pandas DataFrame, use the "head()" method with no arguments. This will show all rows of the DataFrame without any limitation. Alternatively, you can use the "display()" function from the IPython.display module to print all rows of the DataFrame. This can be useful for inspecting large datasets or for printing the entire contents of a DataFrame in a Jupyter Notebook.

## Show All Rows of a Pandas DataFrame

You can force a Jupyter notebook to show all rows in a pandas DataFrame by using the following syntax:

```
pd.set_option('display.max_rows', None)
```

This tells the notebook to set no maximum on the number of rows that are shown.

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

**Example: Show All Rows in Pandas DataFrame**

Suppose we create a pandas DataFrame with 500 rows and 3 columns.

If we attempt to display the DataFrame in a Jupyter notebook, only the first five rows and last five rows will be shown:

```
import pandas as pd
```

```
import numpy as np
```

```
#create dataframe with 500 rows and 3 columns
```

```
df = pd.DataFrame(index=np.arange(500),  
columns=np.arange(3))
```

```
#view dataframe
```

```
df
```

---

	0	1	2
0	NaN	NaN	NaN
1	NaN	NaN	NaN
2	NaN	NaN	NaN
3	NaN	NaN	NaN
4	NaN	NaN	NaN
...	...	...	...
495	NaN	NaN	NaN
496	NaN	NaN	NaN
497	NaN	NaN	NaN
498	NaN	NaN	NaN
499	NaN	NaN	NaN

500 rows × 3 columns

---

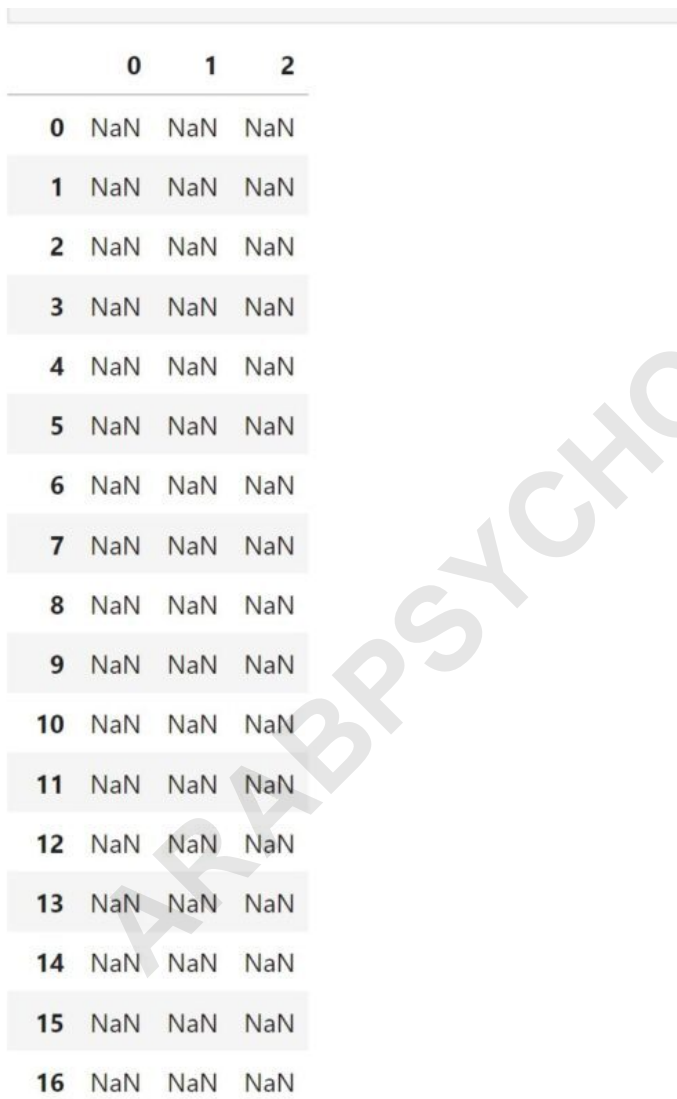
**To display all of the rows, we can use the following syntax:**

**#specify that all rows should be shown**

```
pd.set_option('display.max_rows', None)
```

**#view DataFrame**

```
df
```



	0	1	2
0	NaN	NaN	NaN
1	NaN	NaN	NaN
2	NaN	NaN	NaN
3	NaN	NaN	NaN
4	NaN	NaN	NaN
5	NaN	NaN	NaN
6	NaN	NaN	NaN
7	NaN	NaN	NaN
8	NaN	NaN	NaN
9	NaN	NaN	NaN
10	NaN	NaN	NaN
11	NaN	NaN	NaN
12	NaN	NaN	NaN
13	NaN	NaN	NaN
14	NaN	NaN	NaN
15	NaN	NaN	NaN
16	NaN	NaN	NaN

**The results are too long to display in a single screenshot, but the Jupyter notebook does indeed**

**display all 500 rows.**

**To reset the default display settings, we can use the following syntax:**

```
pd.reset_option('display.max_rows')
```

**If we attempt to display the DataFrame in the Jupyter notebook, only the first five rows and last five rows will be shown once again.**

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