

# How can a column be added to a NumPy array?

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May 11, 2024

## RECOMMENDED CITATION

stats writer (2024). *How can a column be added to a NumPy array?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=143720>

A column can be added to a NumPy array by using the "np.column\_stack" function. This function takes in the original array and the new column as parameters and returns a new array with the added column. The new column must have the same number of rows as the original array. This method allows for easy manipulation and expansion of NumPy arrays, making it a useful tool for data analysis and manipulation.

## Add a Column to a NumPy Array (With Examples)

You can use one of the following methods to add a column to a NumPy array:

### Method 1: Append Column to End of Array

```
np.append(my_array, , , , ...], axis=1)
```

### Method 2: Insert Column in Specific Position of Array

```
np.insert(my_array, 3, , axis=1)
```

The following examples show how to use each method in practice.

#### Example 1: Append Column to End of NumPy Array

Suppose we have the following NumPy array:

```
import numpy as np
```

```
#create NumPy array  
my_array = np.array(, )
```

```
#view NumPy array  
my_array
```

```
array(,  
)]
```

We can use the following syntax to add a column to the end of the NumPy array:

```
#append column to end of NumPy array  
new_array = np.append(my_array, , ], axis=1)
```

```
#view updated array  
new_array
```

```
array(,  
)]
```

Example 2: Insert Column in Specific Position of NumPy Array

Suppose we have the following NumPy array:

```
import numpy as np
```

```
#create NumPy array  
my_array = np.array(, , ])
```

```
#view NumPy array  
my_array
```

```
array(,  
,  
])
```

We can use the following syntax to insert a new column before the column in index position 2 of the NumPy array:

```
#insert new column before column in index position 2  
new_array = np.insert(my_array, 2, , axis=1)
```

```
#view updated array  
new_array
```

```
array(,  
,  
])
```

**Notice that the new column of values has been inserted**

**before the column in index position 2.**

**The following tutorials explain how to perform other common operations in NumPy:**

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