

# How can I order the bars in a countplot generated by Seaborn based on count values?

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## RECOMMENDED CITATION

stats writer (2024). *How can I order the bars in a countplot generated by Seaborn based on count values?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=151548>

Countplot is a visualization tool provided by Seaborn library to represent the count of categorical data. In order to order the bars in a countplot based on count values, one can use the "order" parameter in the countplot function. This parameter takes in a list of categories and arranges the bars in the specified order. Alternatively, one can also use the "hue" parameter to group the data by a certain category and then use the "order" parameter to order the bars within each group. This allows for a more organized and informative representation of the count data in the countplot.

## Seaborn countplot: Order Bars by Count

You can use the following basic syntax to order the bars in a seaborn countplot in descending order:

```
sns.countplot(data=df, x='var',  
order=df.value_counts().index)
```

To order the bars in ascending order, simply add `ascending=True` in the `value_counts()` function:

```
sns.countplot(data=df, x='var',  
order=df.value_counts(ascending=True).index)
```

The following examples show how to use this syntax in practice with the following pandas DataFrame:

```
import pandas as pd
```

```
#create DataFrame
```

```
df = pd.DataFrame({'team': ,
```

```
'points': })
```

```
#view DataFrame
```

```
print(df)
```

```
team points
```

```
0 A 12
```

```
1 A 11
```

```
2 A 18
```

```
3 A 15
```

```
4 B 14
```

```
5 C 20
```

```
6 C 25
```

```
7 C 24
```

```
8 D 32
```

```
9 D 30
```

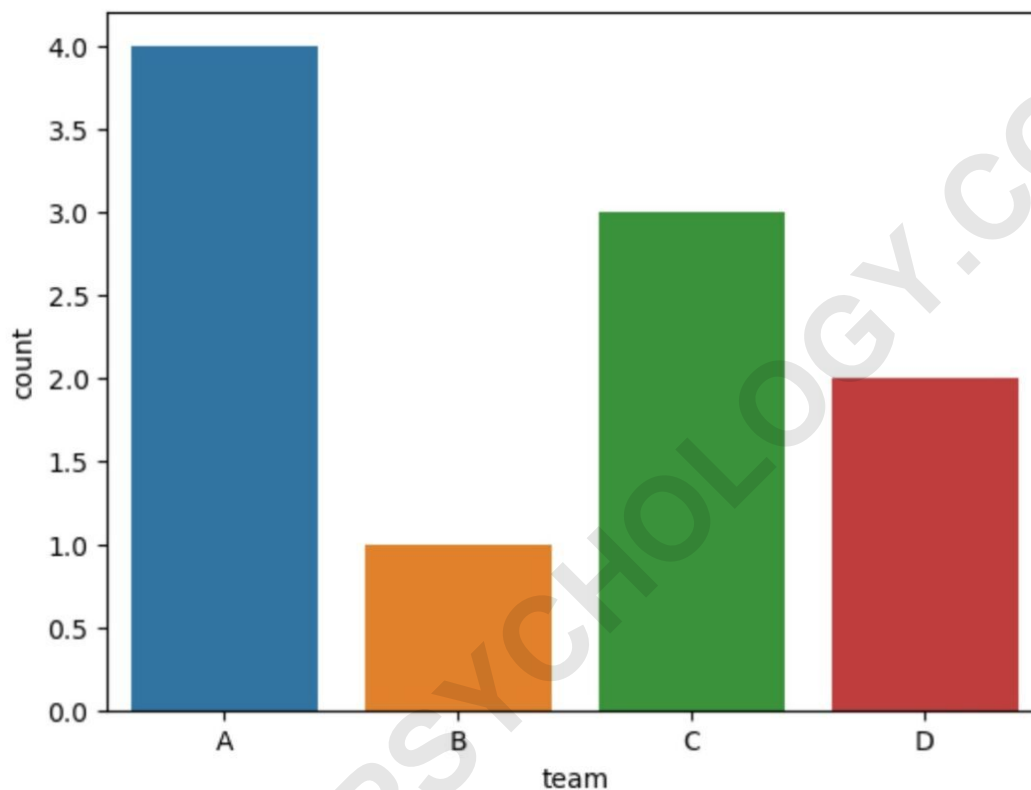
**Example 1: Create Seaborn countplot with Bars in Default Order**

The following code shows how to create a seaborn countplot in which the bars are in the default order (i.e. the order in which the unique values appear in the column):

```
import seaborn as sns
```

**#create countplot to visualize occurrences of unique values in 'team' column**

```
sns.countplot(data=df, x='team')
```



**Notice that the bars in the plot are simply ordered based on the order in which the unique values appear in the team column.**

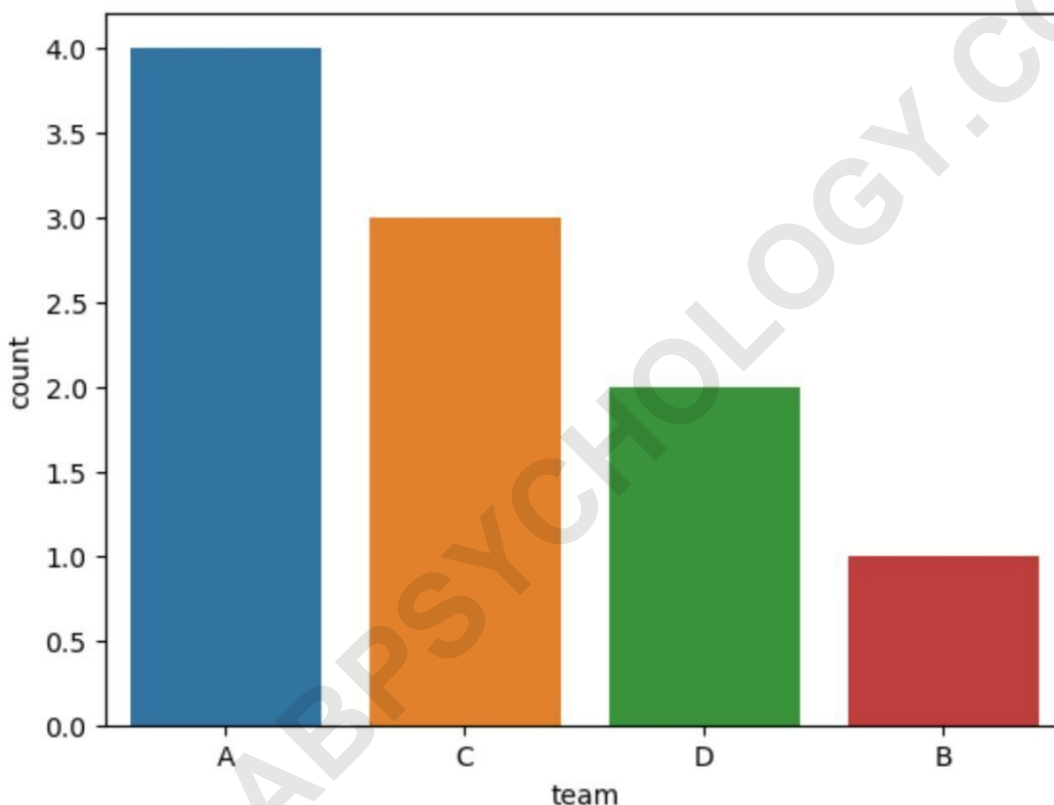
**Example 2: Create Seaborn countplot with Bars in Descending Order**

**The following code shows how to create a seaborn countplot in which the bars are in descending order:**

```
import seaborn as sns
```

```
#create countplot with values in descending order
```

```
sns.countplot(data=df, x='team',  
order=df.value_counts().index)
```

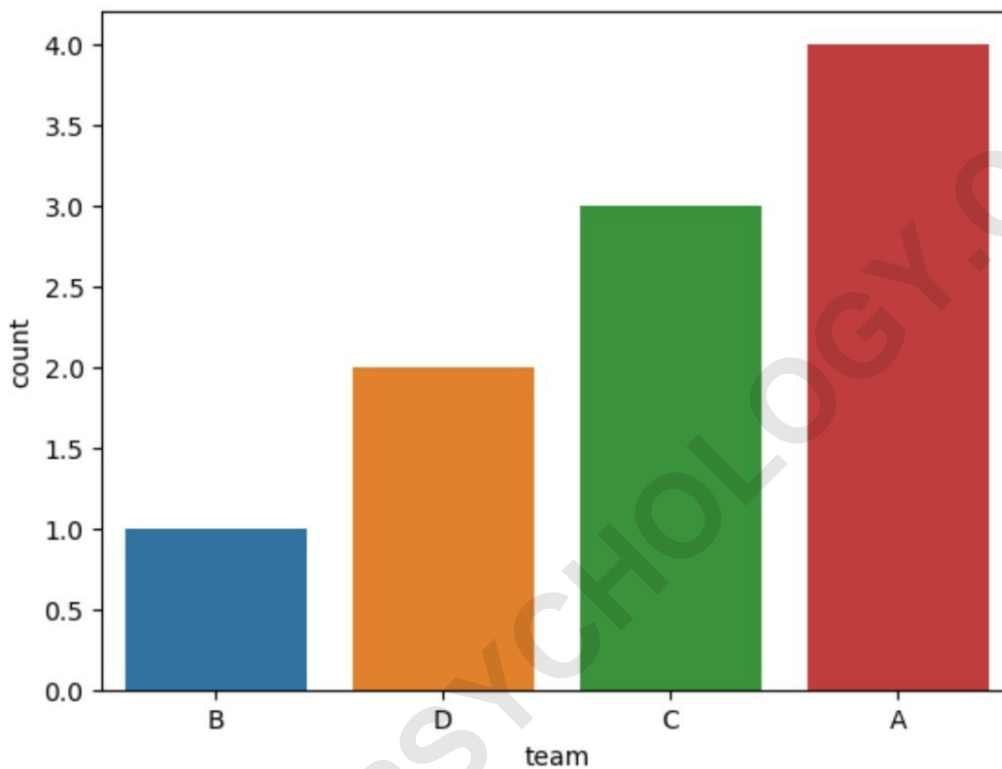


Notice that the bars in the plot are now in descending order.

Example 3: Create Seaborn countplot with Bars in Ascending Order

```
import seaborn as sns
```

```
#create countplot with values in ascending order  
sns.countplot(data=df, x='team',  
order=df.value_counts(ascending=True).index)
```



Notice that the bars in the plot are now in ascending order.

Note: You can find the complete documentation for the `seaborn countplot()` function .

The following tutorials explain how to perform other common functions in seaborn: