

How can bar charts be created in SAS?

Authored by
stats writer

July 1, 2024

RECOMMENDED CITATION

stats writer (2024). *How can bar charts be created in SAS?*. PSYCHOLOGICAL SCALES.
Retrieved from <https://scales.arabpsychology.com/?p=164448>

Bar charts can be easily created in SAS using the PROC GCHART statement. This statement allows for the creation of a variety of bar charts, including vertical, horizontal, stacked, and grouped bars. The data for the bar chart can be specified using a SAS data set or by manually entering the data values. Additional options can be added to customize the appearance of the bar chart, such as labels, titles, and colors. Overall, SAS provides a straightforward and efficient method for creating visually appealing bar charts for data analysis and presentation purposes.

Create Bar Charts in SAS (3 Examples)

You can use the following methods to create different types of bar charts in SAS:

Method 1: Create One Bar Chart

```
proc sgplot data = my_data;  
vbar variable1;  
run;
```

Method 2: Create Stacked Bar Chart

```
proc sgplot data = my_data;  
vbar variable1 / group = variable2;  
run;
```

Method 3: Create Clustered Bar Chart

```
proc sgplot data = my_data;  
vbar variable1 / group = variable2 groupdisplay =
```

```
cluster;
```

```
run;
```

The following examples show how to use each method with the following dataset in SAS:

```
/*create dataset*/
```

```
data my_data;
```

```
input team $ position $ points;
```

```
datalines;
```

```
A Guard 8
```

```
A Guard 6
```

```
A Guard 6
```

```
A Forward 9
```

```
A Forward 14
```

```
A Forward 11
```

```
B Guard 10
```

```
B Guard 9
```

```
B Guard 5
```

```
B Forward 7
```

```
C Guard 10
```

```
C Forward 6
```

```
C Forward 8
```

```
;
```

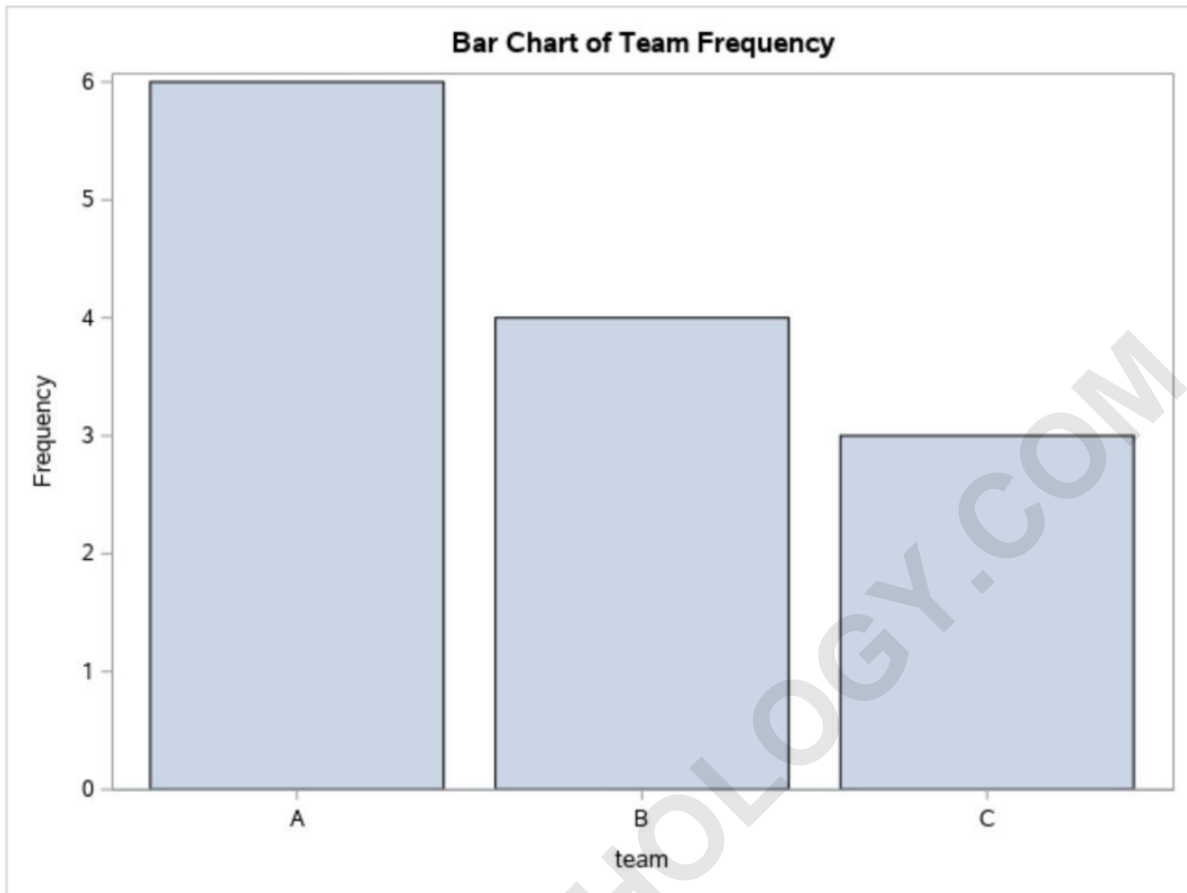
```
run;/*view dataset*/  
proc printdata=my_data;
```

Obs	team	position	points
1	A	Guard	8
2	A	Guard	6
3	A	Guard	6
4	A	Forward	9
5	A	Forward	14
6	A	Forward	11
7	B	Guard	10
8	B	Guard	9
9	B	Guard	5
10	B	Forward	7
11	C	Guard	10
12	C	Forward	6
13	C	Forward	8

Example 1: Create One Bar Chart

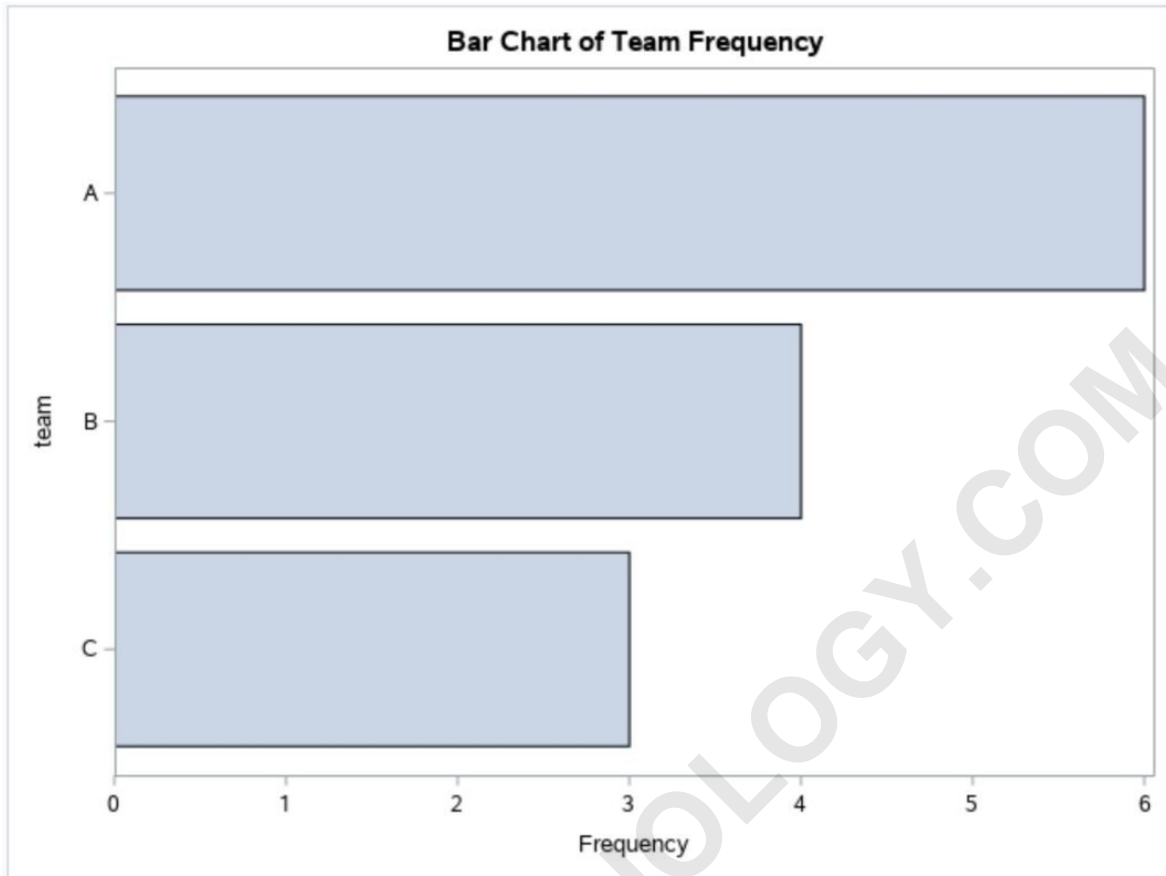
The following code shows how to create a bar chart to visualize the frequency of teams:

```
/*create bar chart to visualize frequency of teams*/  
title "Bar Chart of Team Frequency";  
proc sgplot data = my_data;  
vbar team;  
run;
```



If you'd like a horizontal bar chart instead, simply use the `hbar` option:

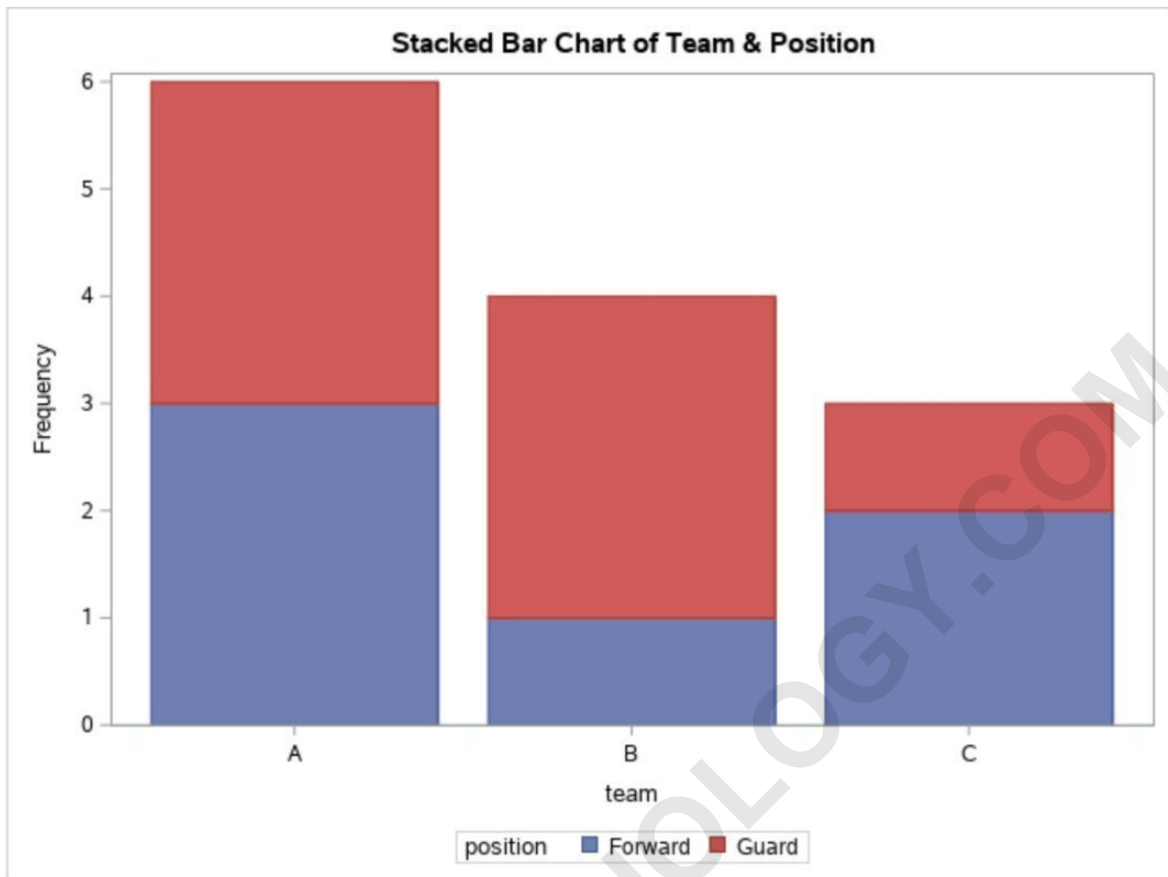
```
/*create horizontal bar chart to visualize frequency of  
teams*/  
title "Bar Chart of Team Frequency";  
proc sgplot data = my_data;  
hbar team;  
run;
```



Example 2: Create Stacked Bar Chart

The following code shows how to create a stacked bar chart to visualize the frequency of both team and position:

```
/*create stacked bar chart*/title "Stacked Bar Chart of  
Team & Position";  
proc sgplot data = my_data;  
vbar team / group = position;  
run;
```



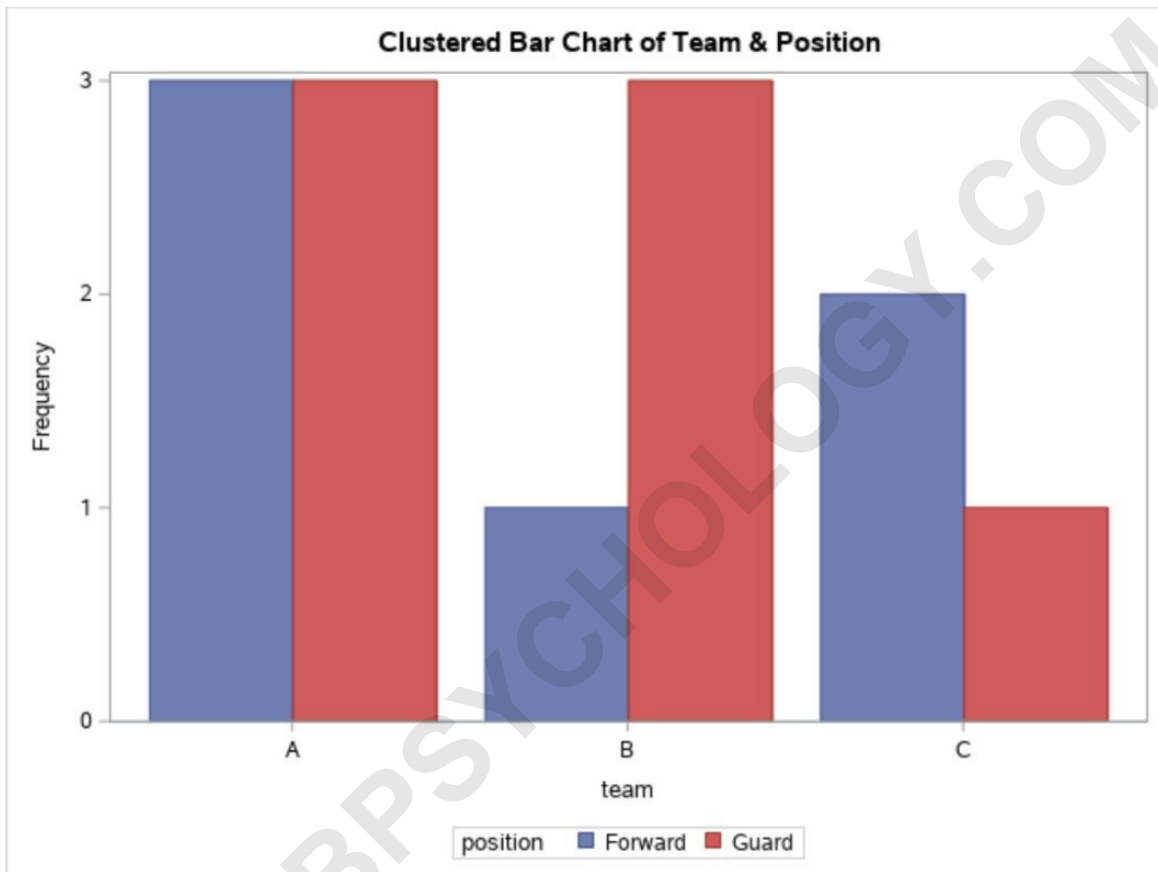
This chart allows us to visualize the frequency of each team along with the frequency of positions within each team.

Example 3: Create Clustered Bar Chart

The following code shows how to create a clustered bar chart to visualize the frequency of both team and position:

```
/*create clustered bar chart*/title "Clustered Bar Chart of Team & Position";
```

```
proc sgplot data = my_data;  
vbar team / group = position groupdisplay = cluster;  
run;
```



This bar chart displays the same information as the previous bar chart, except the bars are "clustered" together instead of stacked on top of each other.

Additional Resources

The following tutorials explain how to create other charts in SAS: