

How to Easily Create and Customize Scatter Plots in SAS

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December 1, 2025

RECOMMENDED CITATION

stats writer (2025). *How to Easily Create and Customize Scatter Plots in SAS*.
PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=103170>

Creating scatter plots in SAS is a simple process that can be done in a few steps. First, you need to enter the data into SAS and then create a scatter plot using the SGPlot procedure. You can customize your scatter plot by changing the color, size, symbol, and other aspects of the plot. Additionally, you can add labels and a title for clarity. Finally, you can export the plot as an image file or save it as a SAS dataset for further analysis.

You can use the following methods to create scatter plots in SAS:

Method 1: Create One Scatter Plot

```
proc sgplot data=my_data;  
scatter x=var1 y=var2;  
run;
```

Method 2: Create Scatter Plots by Group

```
proc sgplot data=my_data;  
scatter x=var1 y=var2 / group=var3;  
run;
```

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

```
/*create dataset*/  
data my_data;  
input team $ points rebounds;  
datalines;  
A 29 8  
A 23 6  
A 20 6  
A 21 9  
A 33 14  
A 35 11  
A 31 10  
B 21 9  
B 14 5  
B 15 7  
B 11 10  
B 12 6  
B 10 8
```

B 15 10

;

run;

/*view dataset*/

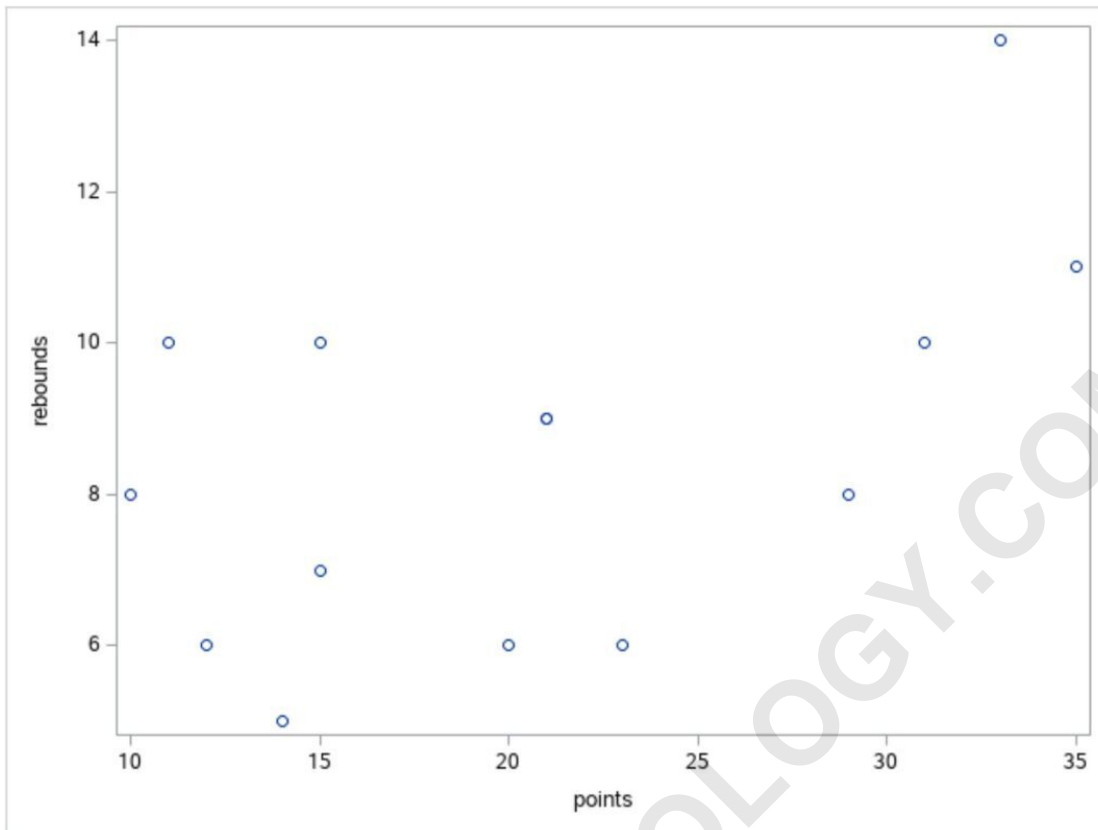
proc print data=my_data;

Obs	team	points	rebounds
1	A	29	8
2	A	23	6
3	A	20	6
4	A	21	9
5	A	33	14
6	A	35	11
7	A	31	10
8	B	21	9
9	B	14	5
10	B	15	7
11	B	11	10
12	B	12	6
13	B	10	8
14	B	15	10

Example 1: Create One Scatter Plot

The following code shows how to create a scatterplot for the **points** and **rebounds** variables:

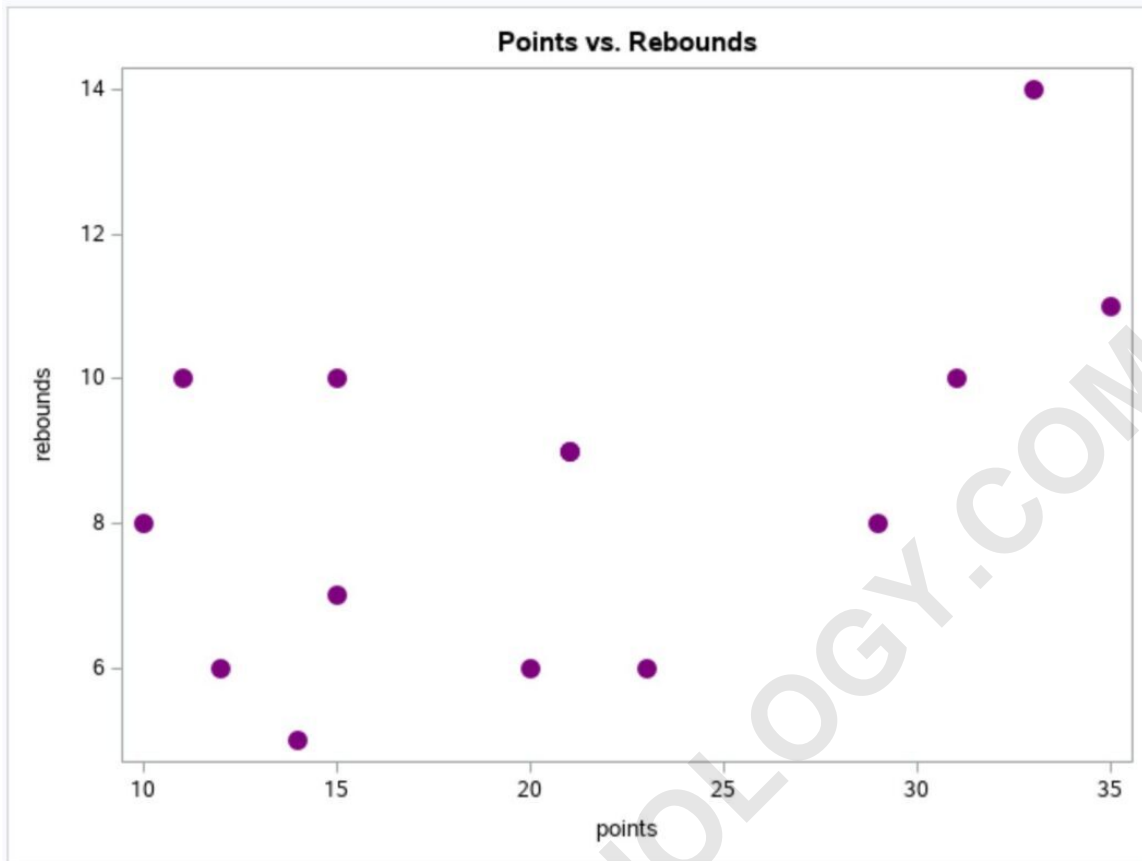
```
proc sgplot data=my_data;  
scatter x=points y=rebounds;  
run;
```



The x-axis displays the values for the **points** variable and the y-axis displays the values for the **rebounds** variable.

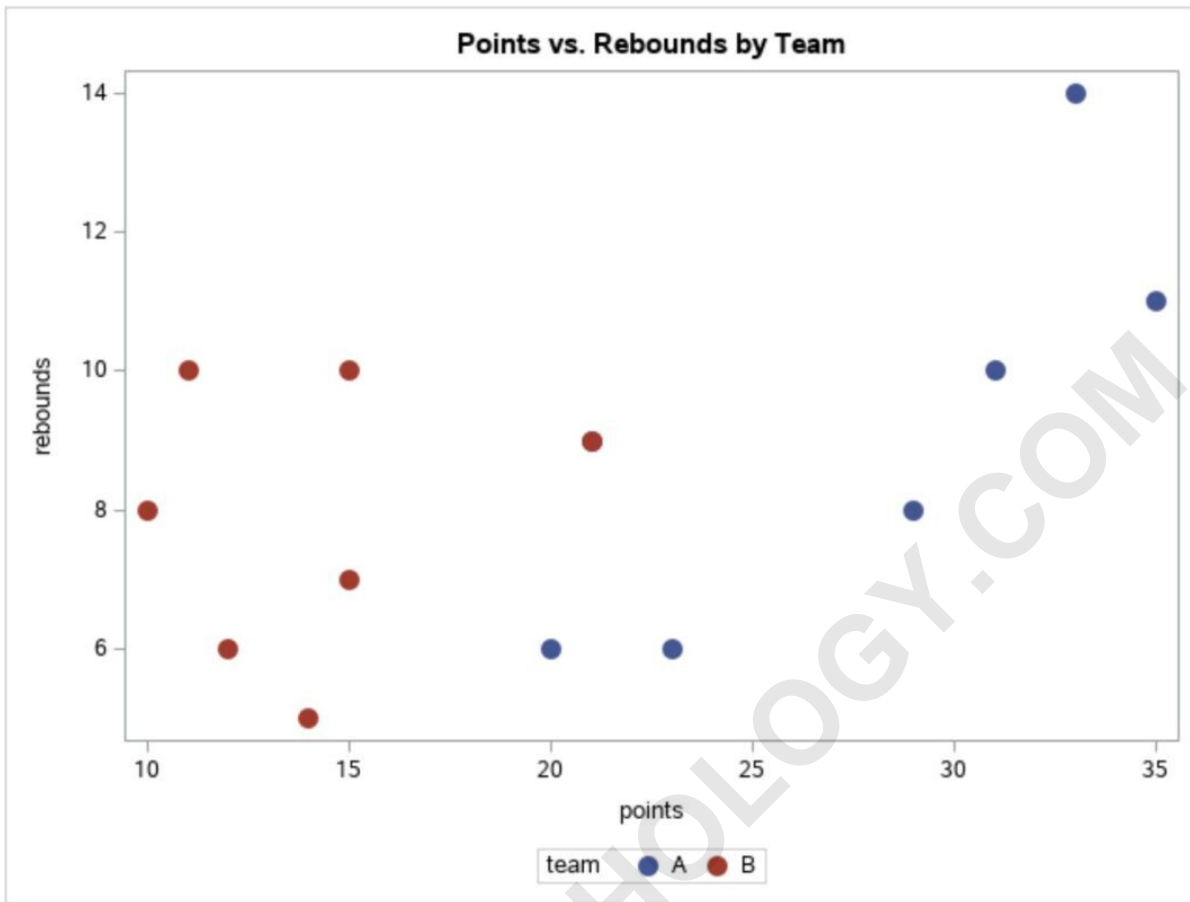
Note that we can also add a title to the plot and modify the appearance of the markers within the plot to make it more aesthetically pleasing:

```
title "Points vs. Rebounds";  
proc sgplot data=my_data;  
scatter x=points y=rebounds /  
markerattrs=(symbol=CircleFilled size=12 color=purple);  
run;
```



Example 2: Create Scatter Plots by Group

```
title "Points vs. Rebounds by Team";  
proc sgplot data=my_data;  
scatter x=points y=rebounds /  
markerattrs=(symbol=CircleFilled size=12)  
group=team;  
run;
```



This plot allows us to quickly visualize the relationship between points and rebounds for both team A and team B.

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

[How to Create Histograms in SAS](#)