

# How can I plot a subset of a data frame in R?

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June 27, 2024

## RECOMMENDED CITATION

stats writer (2024). *How can I plot a subset of a data frame in R?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=155607>

To plot a subset of a data frame in R, first use the `subset()` function to create a new data frame containing only the desired subset of data. Then, use the `plot()` function to create a visual representation of the data. This allows for the selection and visualization of a specific portion of the original data frame, making it easier to analyze and interpret the data.

## Plot a Subset of a Data Frame in R

You can use the following methods to plot a subset of a data frame in R:

### Method 1: Plot Subset of Data Frame Based on One Condition

```
#plot var1 vs. var2 where var3 is less than 15  
with(df, plot(var1, var2))
```

### Method 2: Plot Subset of Data Frame Based on Multiple Conditions

```
#plot var1 vs. var2 where var3 is less than 15 and var4  
is greater than 3  
with(df, plot(var1, var2))
```

The following examples show how to use each method in practice with the following data frame:

```
#create data frame
```

```
df <- data.frame(A=c(1, 3, 3, 4, 5, 7, 8),  
B=c(3, 6, 9, 12, 15, 14, 10),  
C=c(10, 12, 14, 14, 17, 19, 20),  
D=c(5, 7, 4, 3, 3, 2, 1))
```

```
#view data frame
```

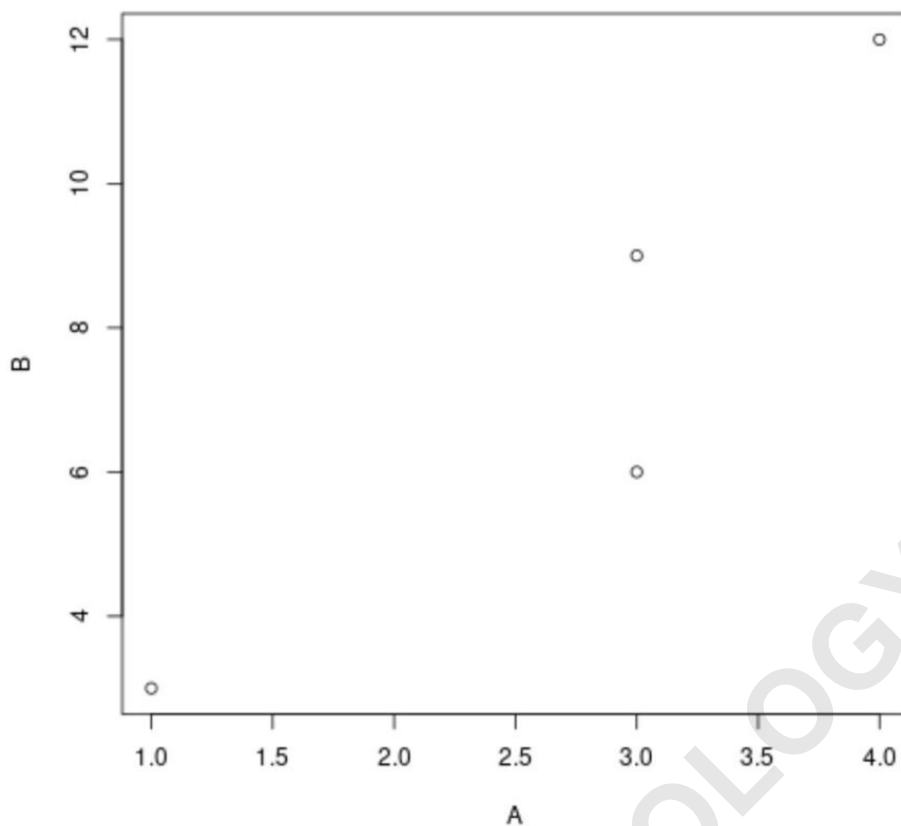
```
df
```

```
A B C D  
1 1 3 10 5  
2 3 6 12 7  
3 3 9 14 4  
4 4 12 14 3  
5 5 15 17 3  
6 7 14 19 2  
7 8 10 20 1
```

**Example 1: Plot Subset of Data Frame Based on One Condition**

The following code shows how to create a scatter plot of variable A vs. variable B where variable C is less than 15:

```
#plot A vs. B where C is less than 15  
with(df, plot(A, B))
```



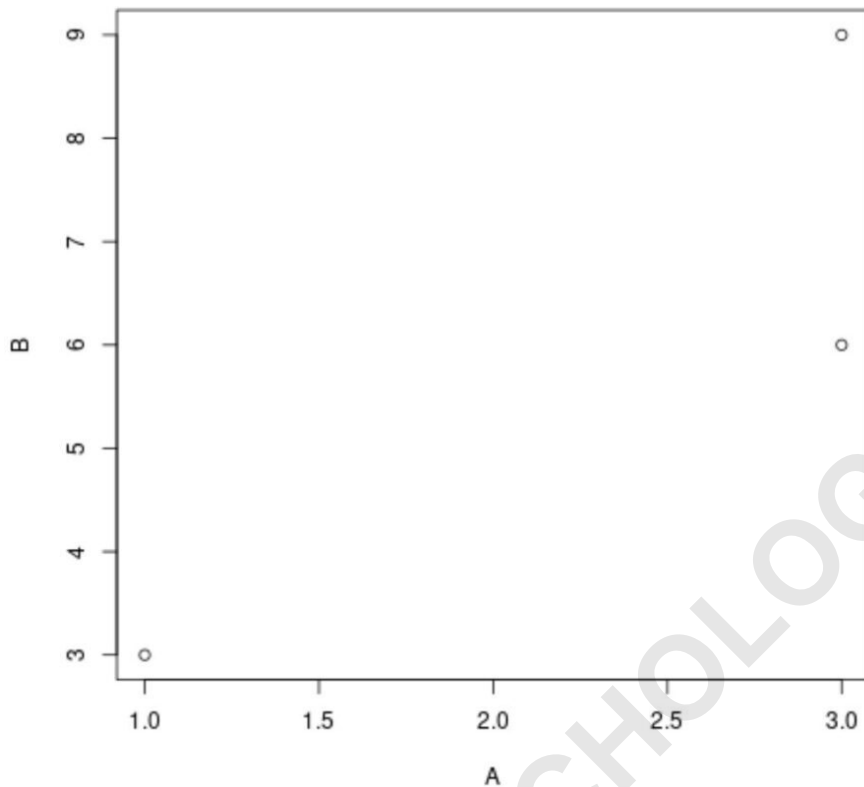
**Notice that only the rows in the data frame where variable C is less than 15 are shown in the plot.**

### **Example 2: Plot Subset of Data Frame Based on Multiple Conditions**

**The following code shows how to create a scatter plot of variable A vs. variable B where variable C is less than 15 and variable D is greater than 3:**

```
#plot A vs. B where C is less than 15 and D is greater than 3
```

## with(df, plot(A, B))



**Notice that only the rows in the data frame where variable C is less than 15 and variable D is greater than 3 are shown in the plot.**