

How can I change the facet axis labels in ggplot2?

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RECOMMENDED CITATION

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The process of changing the facet axis labels in ggplot2 involves modifying the labels of the x and y axes within each facet of a plot. This can be achieved by accessing the facet labels through the "labs" function and using the "x" and "y" arguments to specify the desired labels. By customizing the facet axis labels, one can effectively enhance the visual representation and clarity of their ggplot2 plots.

Change Facet Axis Labels in ggplot2

You can use the `as_labeller()` function to change facet axis labels in ggplot2:

```
ggplot(df, aes(x, y)) +  
geom_point() +  
facet_wrap(~group,  
strip.position = 'left',  
labeller = as_labeller(c(A='new1', B='new2', C='new3',  
D='new4')))) +  
ylab(NULL) +  
theme(strip.background = element_blank(),  
strip.placement='outside')
```

This particular example replaces the following old labels:

A, B, C, D

with the following new labels:

new1, new2, new3, new4

The following example shows how to use this syntax in practice.

Example: Change Facet Axis Labels in ggplot2

Suppose we have the following data frame in R:

```
#create data frame
```

```
df <- data.frame(team=c('A', 'A', 'B', 'B', 'C', 'C', 'D', 'D'),  
points=c(8, 14, 20, 22, 25, 29, 30, 31),  
assists=c(10, 5, 5, 3, 8, 6, 9, 12))
```

```
#view data frame
```

```
df
```

```
team points assists
```

```
1 A 8 10
```

```
2 A 14 5
```

```
3 B 20 5
```

```
4 B 22 3
```

```
5 C 25 8
```

```
6 C 29 6
```

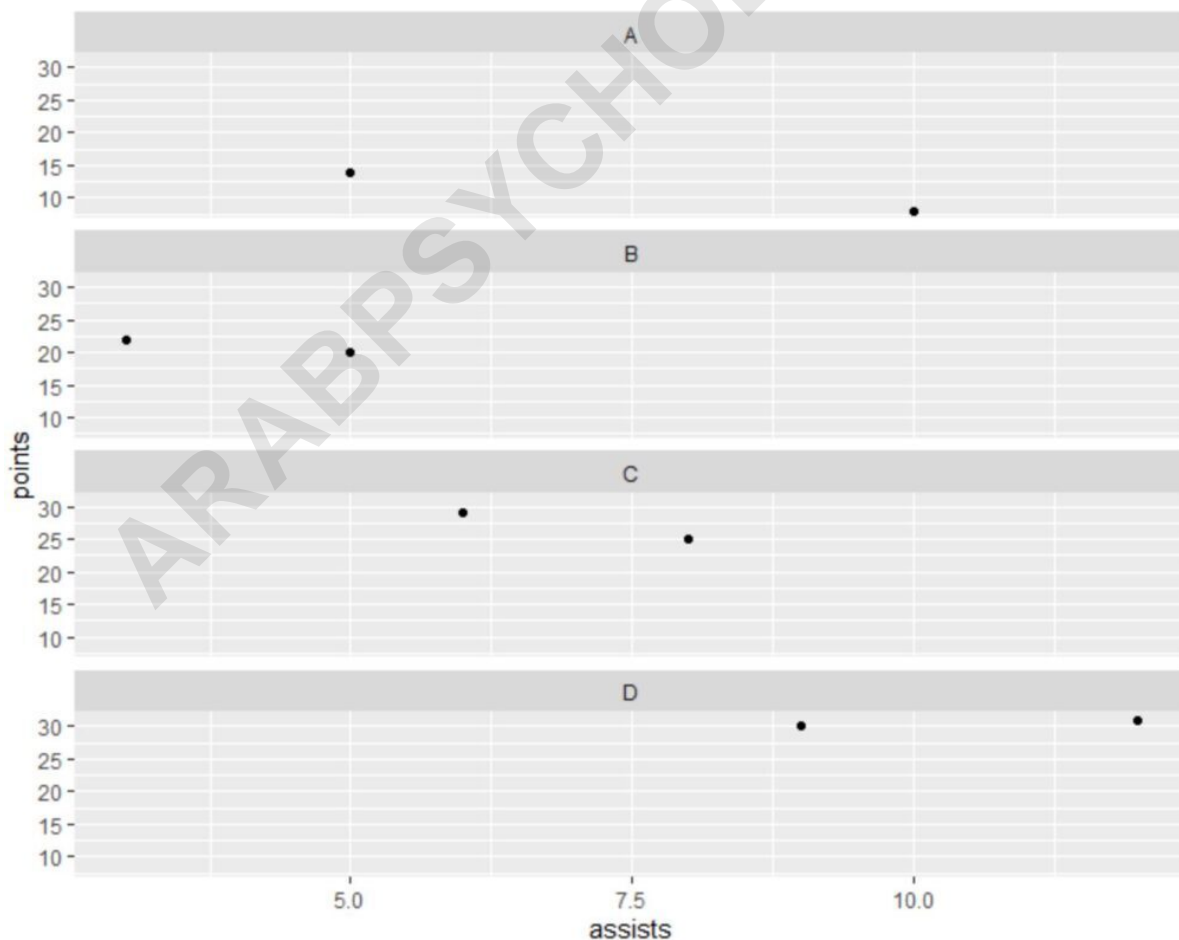
```
7 D 30 9
```

```
8 D 31 12
```

The following code shows how to use `facet_wrap()` to create a grid that displays a scatterplot of assists vs. points for each team:

```
library(ggplot2)
```

```
#create multiple scatter plots using facet_wrap  
ggplot(df, aes(assists, points)) +  
geom_point() +  
facet_wrap(~team, nrow=4)
```

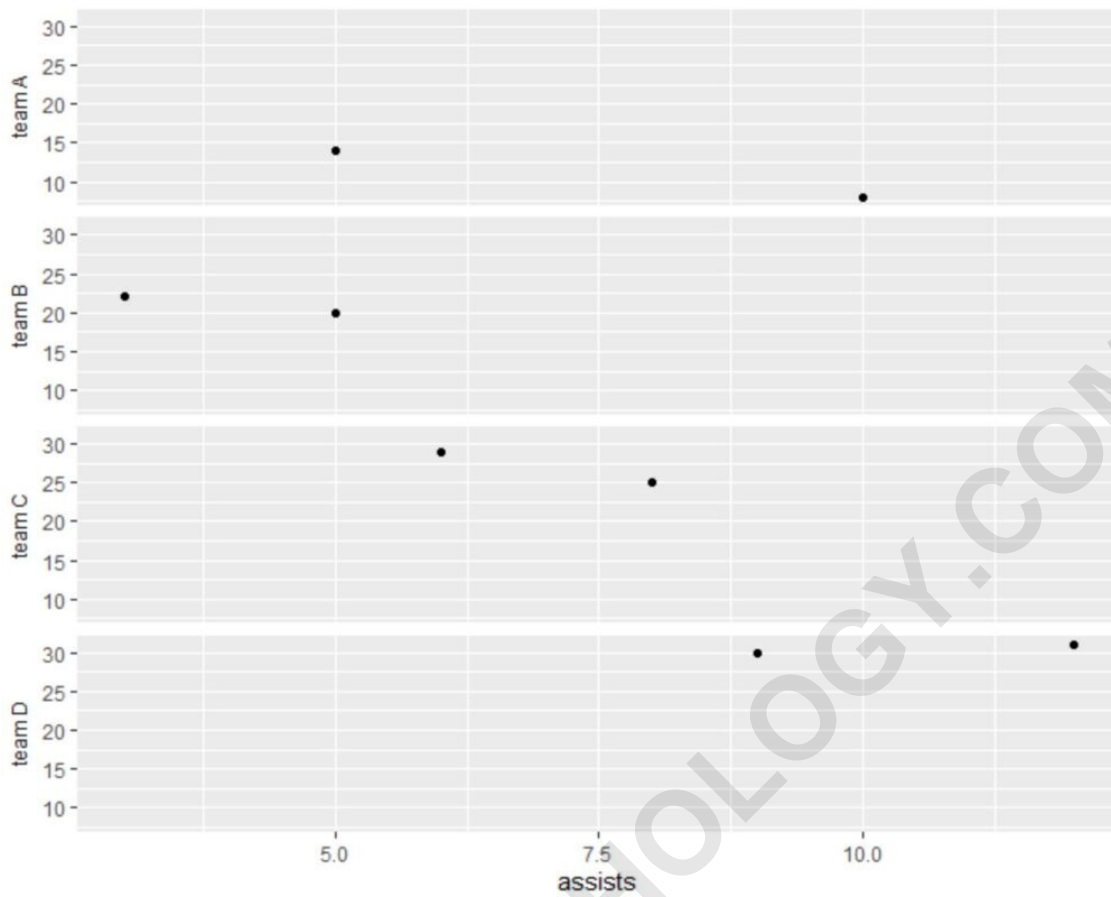


Currently the facets have the following labels: A, B, C, D.

However, we can use the following code to change the labels to team A, team B, team C, and team D:

```
library(ggplot2)

#create multiple scatter plots using facet_wrap with
custom facet labels
ggplot(df, aes(assists, points)) +
geom_point() +
facet_wrap(~team, nrow=4,
strip.position = 'left',
labeller = as_labeller(c(A='team A',
B='team B',
C='team C',
D='team D')))) +
ylab(NULL) +
theme(strip.background = element_blank(),
strip.placement='outside')
```



Note: The `strip.background` argument removes the grey background behind the facet labels and the `strip.placement` argument specifies that the labels should be placed outside of the axis ticks.

The following tutorials explain how to perform other common tasks in ggplot2: