

# How can I remove a legend in ggplot2?

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## RECOMMENDED CITATION

stats writer (2024). *How can I remove a legend in ggplot2?*. PSYCHOLOGICAL SCALES.  
Retrieved from <https://scales.arabpsychology.com/?p=141594>

To remove a legend in ggplot2, the user can use the "theme" function and set the legend position to "none". This will remove the legend from the plot. Alternatively, the user can specify which specific legend to remove by using the "guides" function and setting the legend to "FALSE". This will also remove the specified legend from the plot.

## Remove a Legend in ggplot2 (With Examples)

You can use the following syntax to remove a legend from a plot in ggplot2:

```
ggplot(df, aes(x=x, y=y, color=z)) +  
geom_point() +  
theme(legend.position="none")
```

By specifying `legend.position="none"` you're telling ggplot2 to remove all legends from the plot.

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

Step 1: Create the Data Frame

First, let's create a data frame:

```
#create data frame  
df <- data.frame(assists=c(3, 4, 4, 3, 1, 5, 6, 7, 9),  
points=c(14, 8, 8, 16, 3, 7, 17, 22, 26),
```

```
position=rep(c('Guard', 'Forward', 'Center'), times=3))
```

```
#view data frame
```

```
df
```

```
assists points position
```

```
1 3 14 Guard
```

```
2 4 8 Forward
```

```
3 4 8 Center
```

```
4 3 16 Guard
```

```
5 1 3 Forward
```

```
6 5 7 Center
```

```
7 6 17 Guard
```

```
8 7 22 Forward
```

```
9 9 26 Center
```

Step 2: Create a Plot Using ggplot2

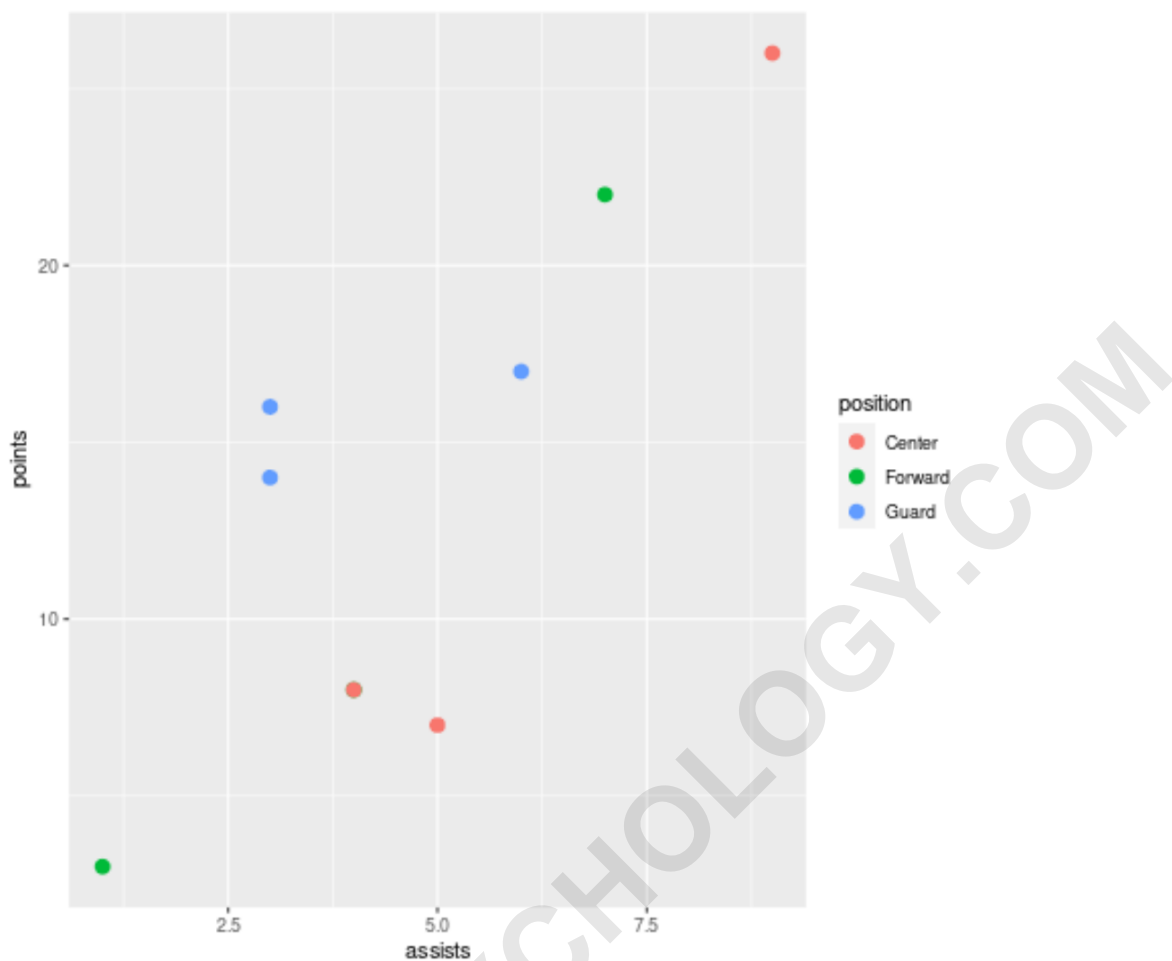
Next, let's use ggplot2 to create a simple scatterplot:

```
library(ggplot2)
```

```
#create scatterplot
```

```
ggplot(df, aes(x=assists, y=points, color=position)) +
```

```
geom_point(size=3)
```



By default, ggplot2 includes a legend so that it's easier to interpret the colors in the scatterplot.

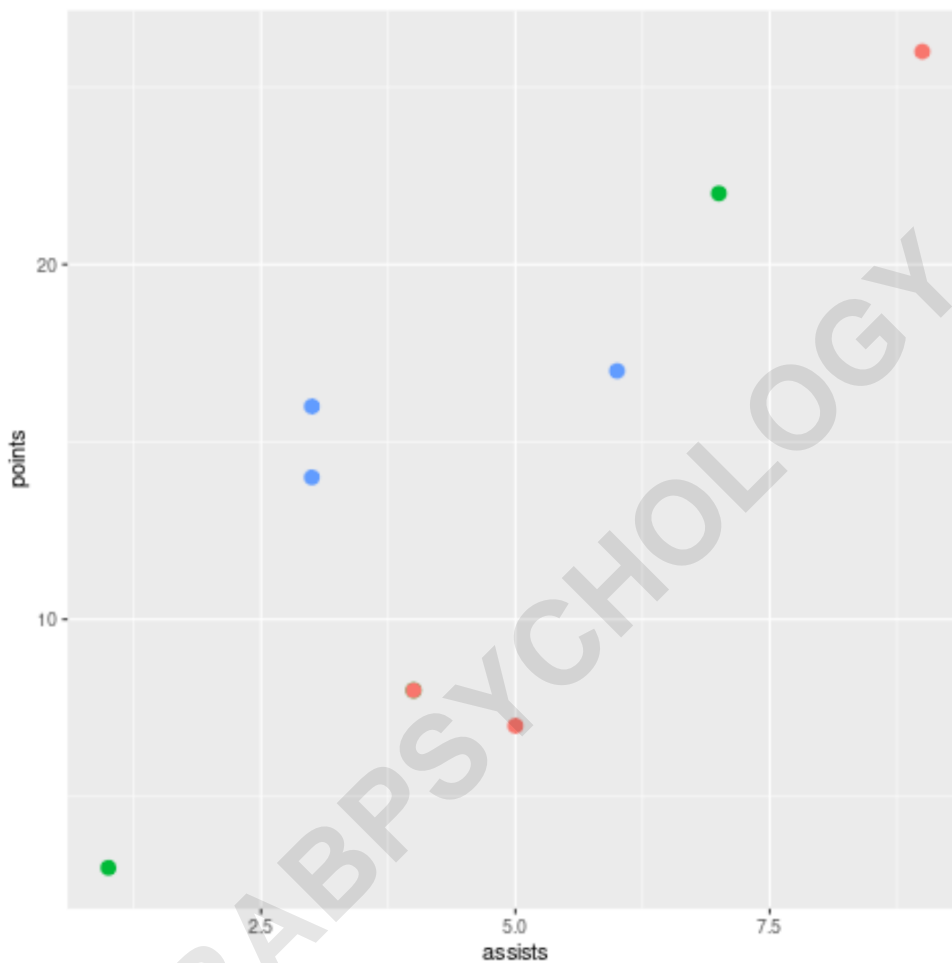
Step 3: Remove the Legend from the Plot

Next, let's use `legend.position="none"` to remove the legend from the plot:

```
library(ggplot2)
```

```
#create scatterplot with no legend
```

```
ggplot(df, aes(x=assists, y=points, color=position)) +  
geom_point(size=3) +  
theme(legend.position="none")
```



The legend has been completely removed from the plot.

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