

How can I connect data points with lines in ggplot2? Can you provide an example?

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In ggplot2, data points can be connected with lines by using the `geom_line()` function. This function takes the x and y variables as inputs and creates a line connecting the data points. An example of this can be seen in the following code:

```
ggplot(data = df, aes(x = x_var, y = y_var)) +  
geom_point() +  
geom_line()
```

This will create a scatter plot with a line connecting the data points. Additional arguments can be added to customize the appearance of the line, such as color, linetype, and size.

Connect Points with Lines in ggplot2 (With Example)

You can use the following basic syntax to connect points with lines in a plot in ggplot2:

```
library(ggplot2)
```

```
ggplot(df, aes(x=x_var, y=y_var)) + geom_line() +  
geom_point()
```

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

Example: Connect Points with Lines in ggplot2

Suppose we have the following data frame that contains the number of sales made at some store during 10 consecutive days:

```
#create data frame  
df <- data.frame(day=1:10,  
sales=c(3, 5, 5, 8, 12, 10, 8, 8, 5, 9))
```

```
#view data frame  
df
```

```
day sales
```

```
1 1 3
```

```
2 2 5
```

```
3 3 5
```

```
4 4 8
```

```
5 5 12
```

```
6 6 10
```

```
7 7 8
```

```
8 8 8
```

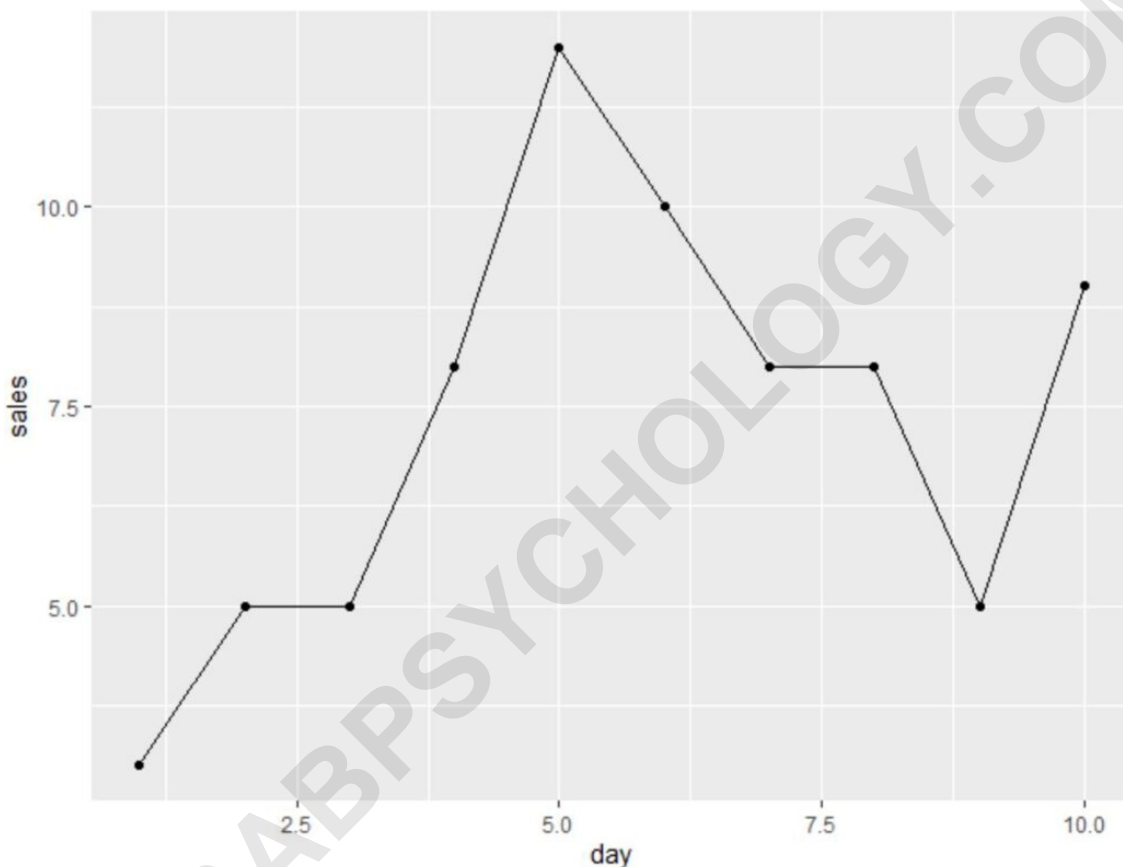
```
9 9 5
```

```
10 10 9
```

We can use the following code to create a plot in ggplot2 that has connected points to represent the sales made each day:

```
library(ggplot2)
```

```
#create plot with connected points  
ggplot(df, aes(x=day, y=sales)) +  
geom_line() +  
geom_point()
```



The x-axis displays the day and the y-axis displays the sales.

Also note that you can use the color, size, linetype, shape, and fill arguments to modify the appearance of both the line and the points in the plot:

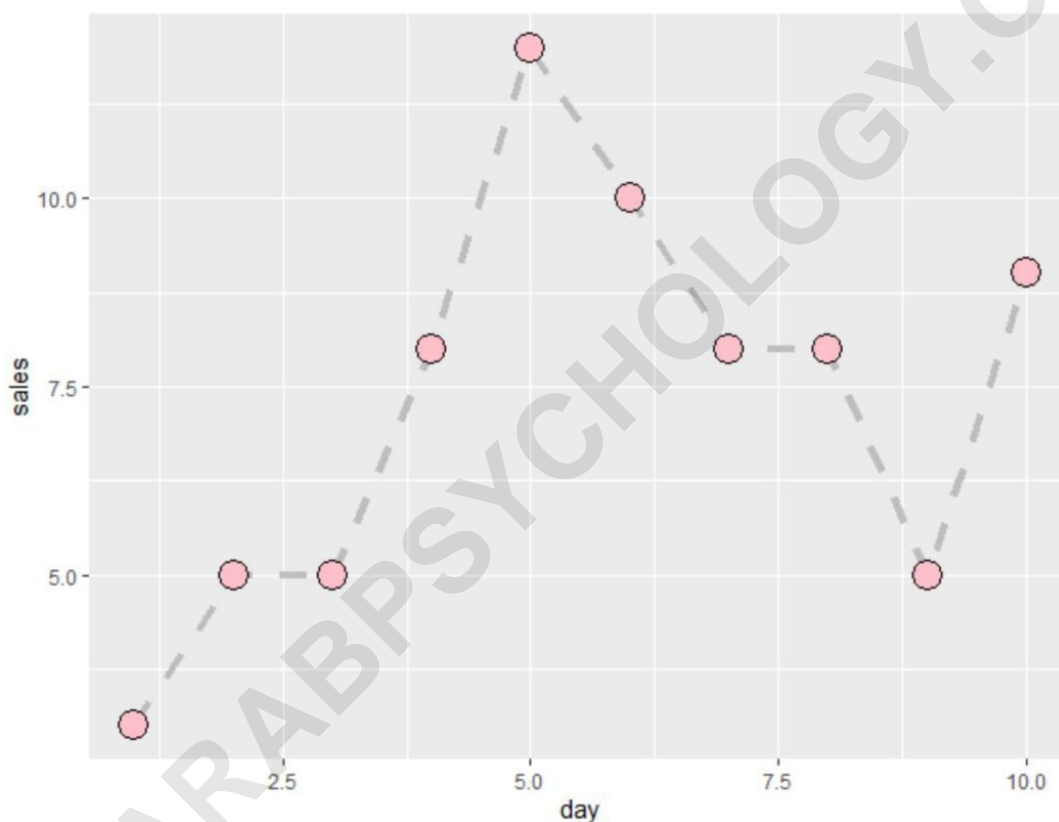
```
library(ggplot2)
```

```
#create plot with connected points
```

```
ggplot(df, aes(x=day, y=sales)) +
```

```
geom_line(color='grey', size=1.5, linetype='dashed') +
```

```
geom_point(shape=21, color='black', fill='pink', size=6)
```



Feel free to change the values for any of these arguments to make the plot appear exactly how you would like.

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

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