

How can I add a subtitle to my ggplot2 graph?"

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To add a subtitle to a ggplot2 graph, the user can utilize the "labs" function and specify the subtitle in the "subtitle" argument. This will add a descriptive title below the main title of the graph, providing additional context and information to the visualization. The subtitle can be customized with various formatting options and can be added to any type of ggplot2 graph. This feature allows for a more informative and visually appealing presentation of data.

Add Subtitle in ggplot2 (3 Examples)

You can use the following methods to add a subtitle to plots in ggplot2:

Method 1: Add Subtitle

```
p +  
labs(title='My Title', subtitle='My Subtitle')
```

Method 2: Add Multi-line Subtitle

```
p +  
labs(title='My Title', subtitle='My Subtitle  
Line1nLine2nLine3')
```

Method 3: Add Subtitle with Custom Font

```
p +  
labs(title='My Title', subtitle='My Subtitle  
Line1nLine2nLine3') +
```

```
theme(plot.subtitle=element_text(size=18, face='italic',  
color='red'))
```

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

```
#create data frame
```

```
df <- data.frame(hours=c(1, 2, 2, 3, 4, 6, 7, 7, 8, 9),  
score=c(76, 77, 75, 79, 84, 88, 85, 94, 95, 90))
```

```
#view data frame
```

```
df
```

```
hours score
```

```
1 1 76
```

```
2 2 77
```

```
3 2 75
```

```
4 3 79
```

```
5 4 84
```

```
6 6 88
```

```
7 7 85
```

```
8 7 94
```

```
9 8 95
```

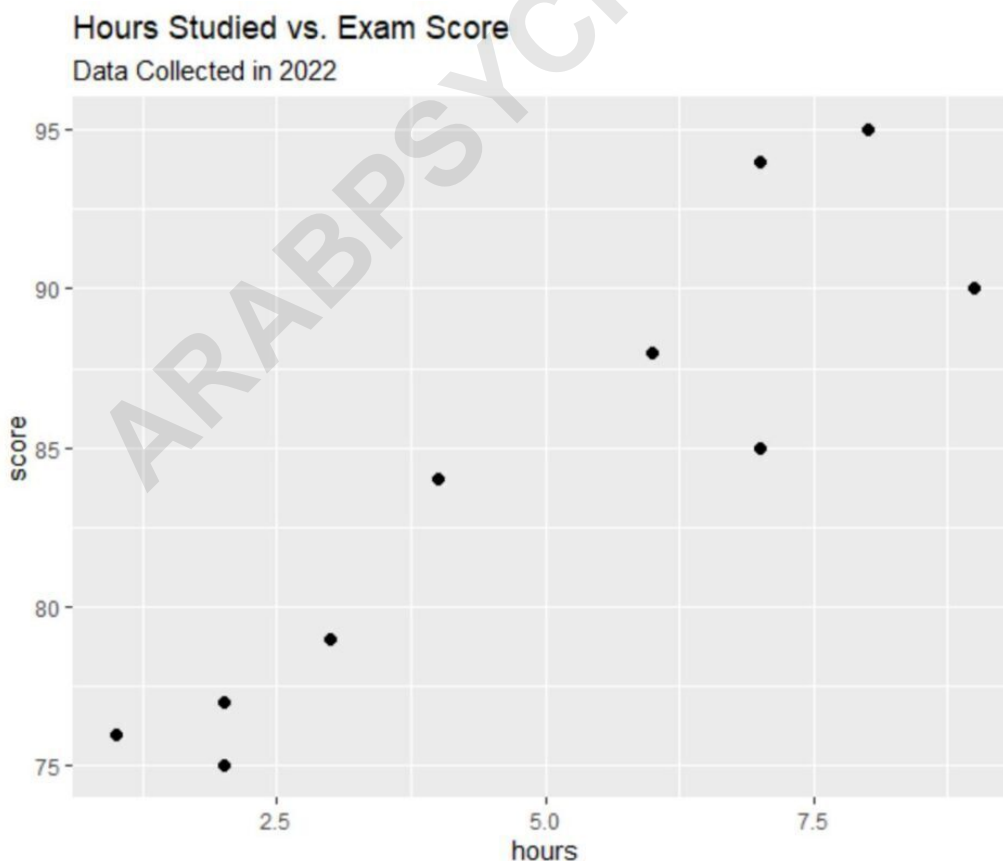
```
10 9 90
```

Example 1: Add Subtitle in ggplot2

The following code shows how to add a one-line subtitle to a scatterplot in ggplot2:

```
library(ggplot2)
```

```
#create scatter plot with subtitle on one line  
ggplot(df, aes(x=hours, y=score)) +  
geom_point(size=2) +  
labs(title='Hours Studied vs. Exam Score',  
      subtitle='Data Collected in 2022')
```

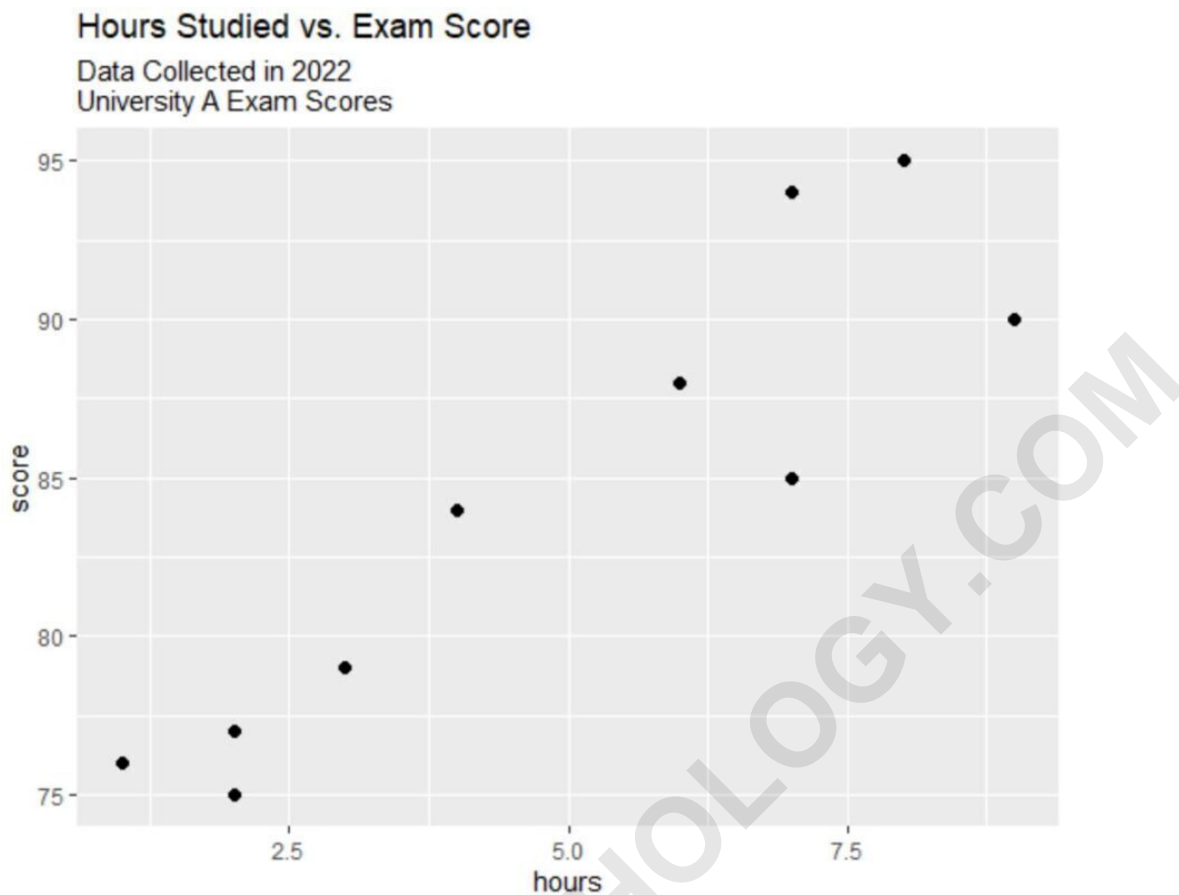


Notice that a one-line subtitle has been added directly below the plot title.

Example 2: Add Multi-Line Subtitle in ggplot2

The following code shows how to add a multi-line subtitle to a scatterplot in ggplot2:

```
library(ggplot2)  
  
#create scatter plot with subtitle on multiple lines  
ggplot(df, aes(x=hours, y=score)) +  
geom_point(size=2) +  
labs(title='Hours Studied vs. Exam Score',  
subtitle='Data Collected in 2022nUniversity A Exam  
Scores')
```



By using the line break syntax (`\n`) we are able to create a multi-line subtitle.

Example 3: Add Subtitle with Custom Font

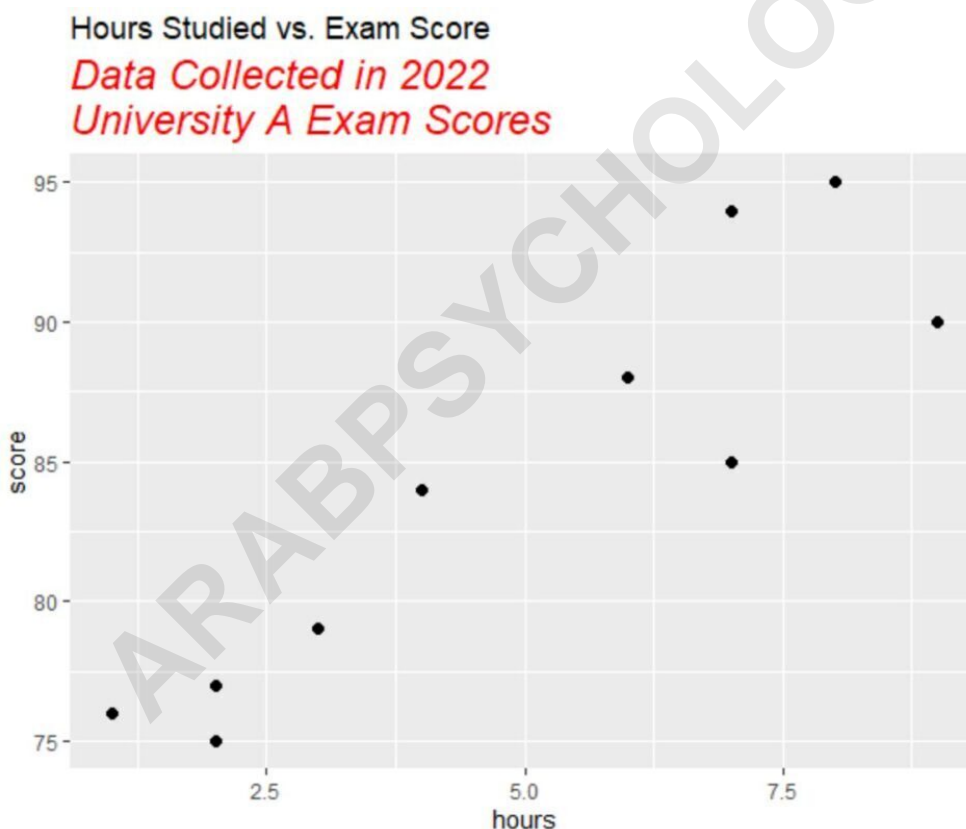
The following code shows how to use the `theme()` function in `ggplot2` to add a subtitle with a custom font size, style, and color:

```
library(ggplot2)
```

```
#create scatter plot with subtitle that has customized
```

font

```
ggplot(df, aes(x=hours, y=score)) +  
geom_point(size=2) +  
labs(title='Hours Studied vs. Exam Score',  
      subtitle='Data Collected in 2022nUniversity A Exam  
Scores') +  
theme(plot.subtitle=element_text(size=18, face='italic',  
color='red'))
```



Notice that the subtitle now has a font size of 18, an italic style, and a red color.

Note: You can also use `face='bold'` to use a bold font style.

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

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