

Theming in ggplot

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1 Get The Data

In the HTML version, click on the `hide` buttons to see the code.

```
data("iris") # famous iris flower data
```

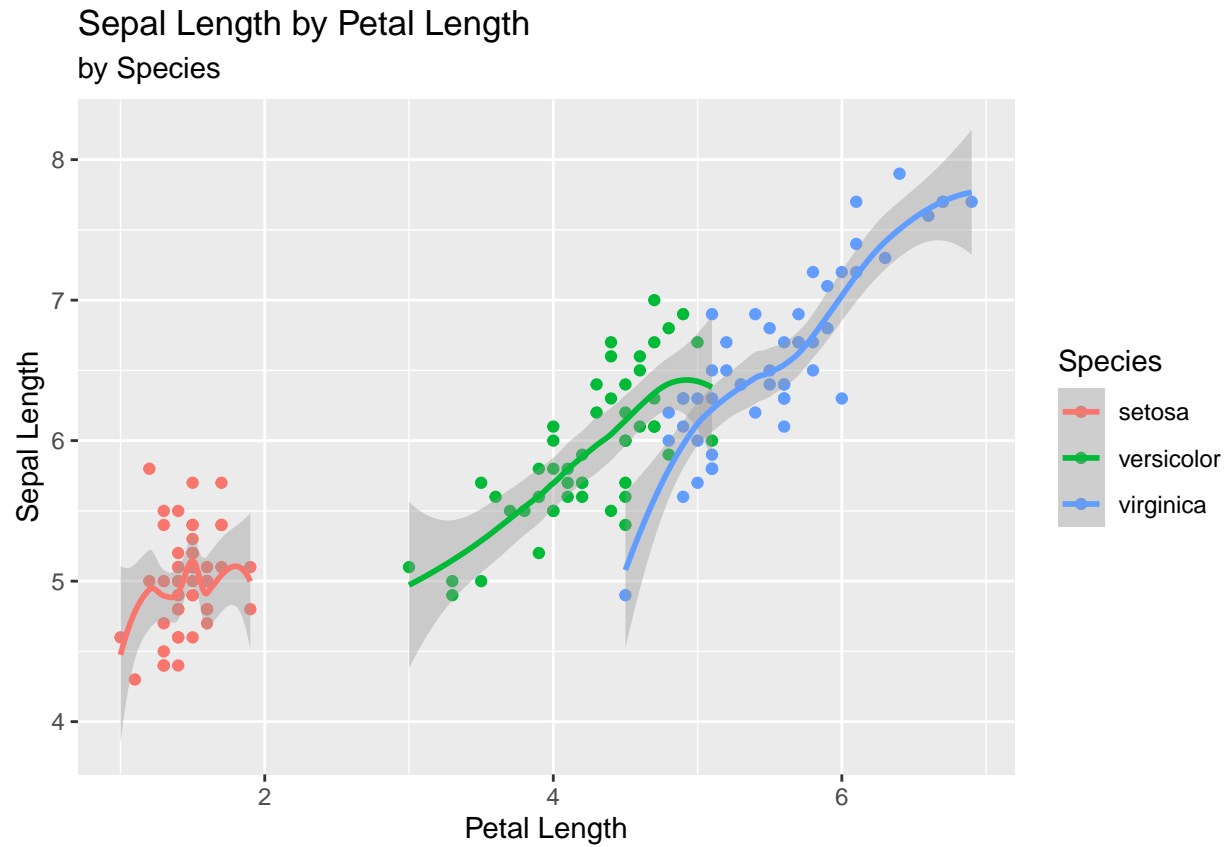
2 Load The ggplot Library

```
library(ggplot2)
```

3 Basic ggplot Graph

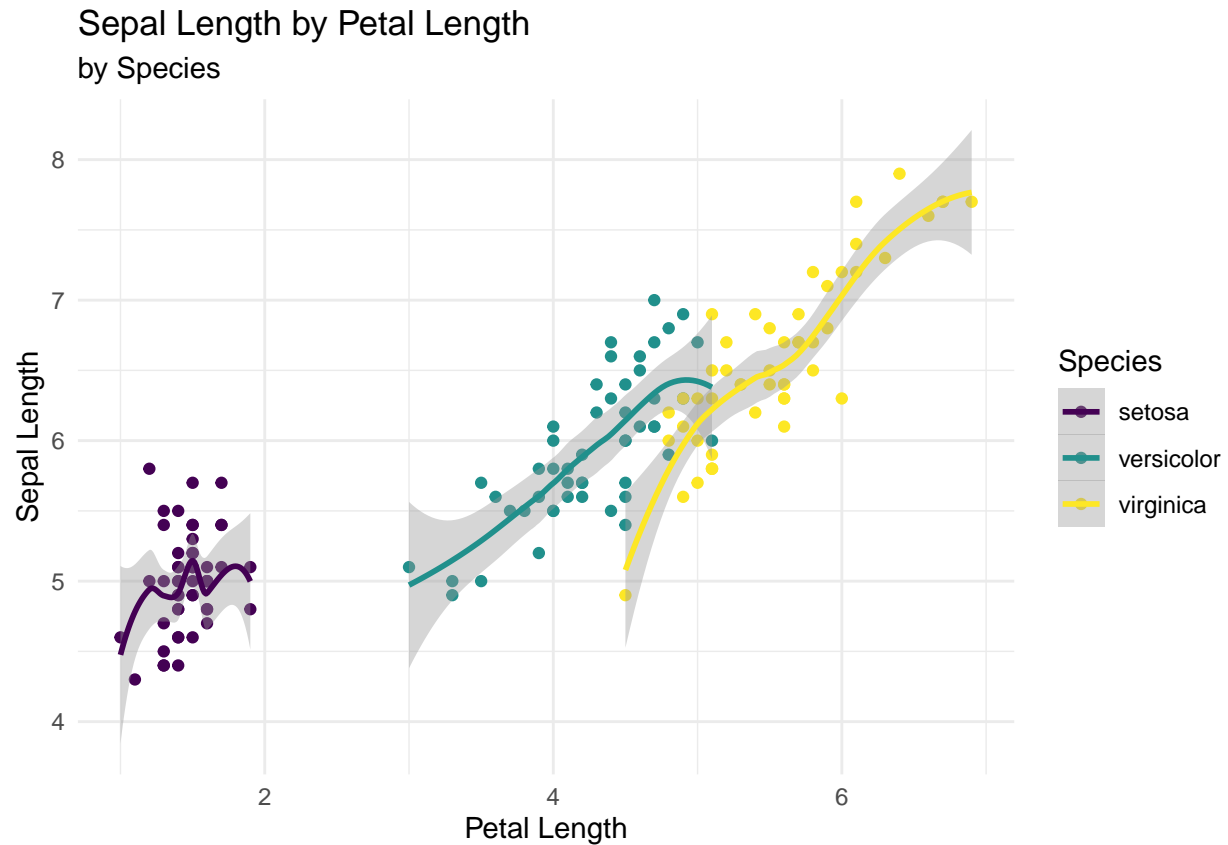
```
p0 <- ggplot(iris,
  aes(x = Petal.Length, # x is petal length
      y = Sepal.Length, # y is sepal length
      color = Species)) + # color is species
  geom_point() + # use points
  geom_smooth() + # use smoother
  labs(title = "Sepal Length by Petal Length",
      subtitle = "by Species",
      x = "Petal Length",
      y = "Sepal Length")

p0 # replay
```



4 Add A Built-In Theme and Built-In Color Scheme

```
p0 +  
  scale_color_viridis_d() + # viridis color palette  
  theme_minimal() # minimal (built-in) theme
```



5 Add More Modifications Using `theme()`

```
p0 +
  scale_color_viridis_d() + # viridis color palette
  theme_minimal() + # minimal "preset" theme
  theme(plot.title = element_text(size = 20, # larger title
    plot.subtitle = element_text(size = 18, # larger subtitle
      color = "grey"), # grey subtitle
    axis.text.x = element_text(angle = -45, # rotate x axis labels
    axis.text.y = element_text(angle = 45, # rotate y axis labels
      color = "red")) # y axis label color
```

Sepal Length by Petal Length

by Species

