Mini-curso Noções básicas do R

Sollano R. Braga

Novembro de 2017

Contents

Atividade 1

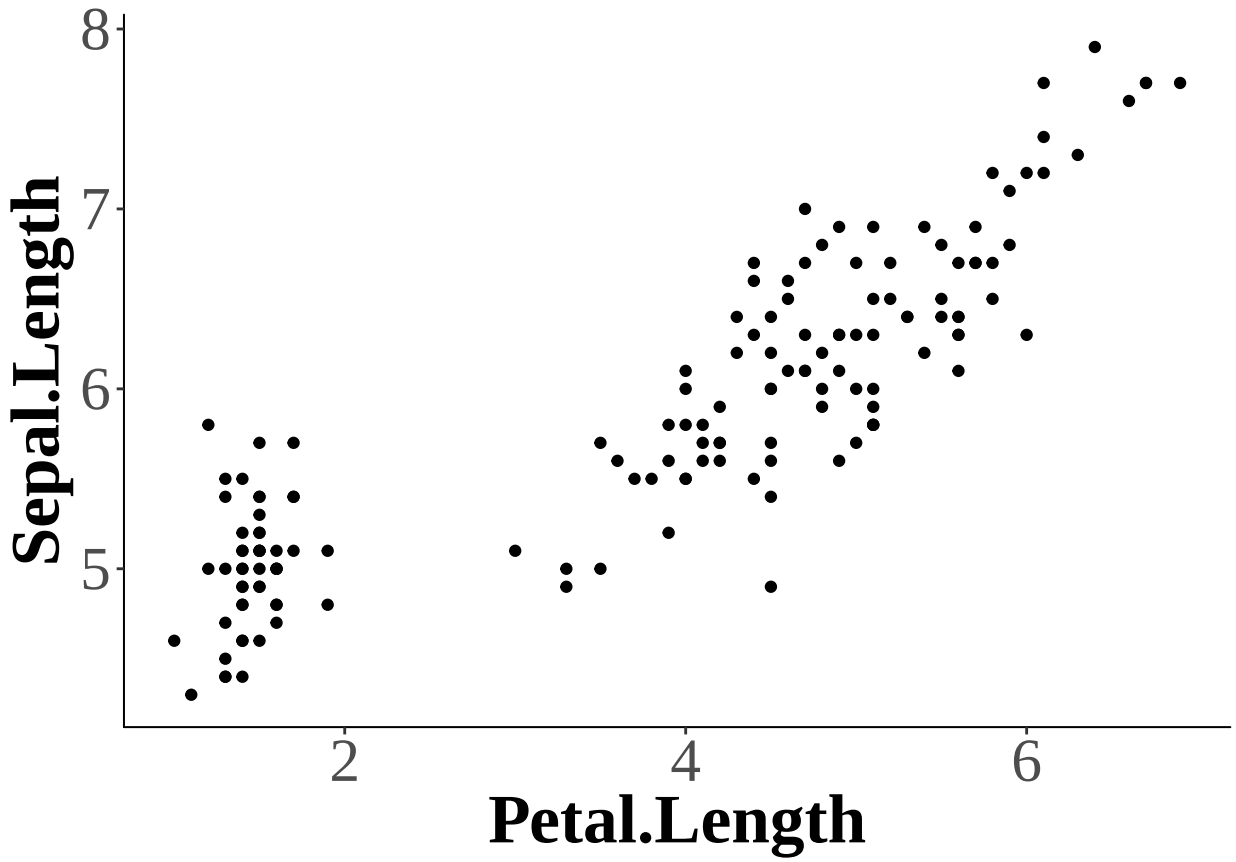
1. Calcular o comprimento médio das pétalas da espécie virginica

```
mean(iris[iris$Species=="virginica", "Petal.Length"], na.rm=T)
```

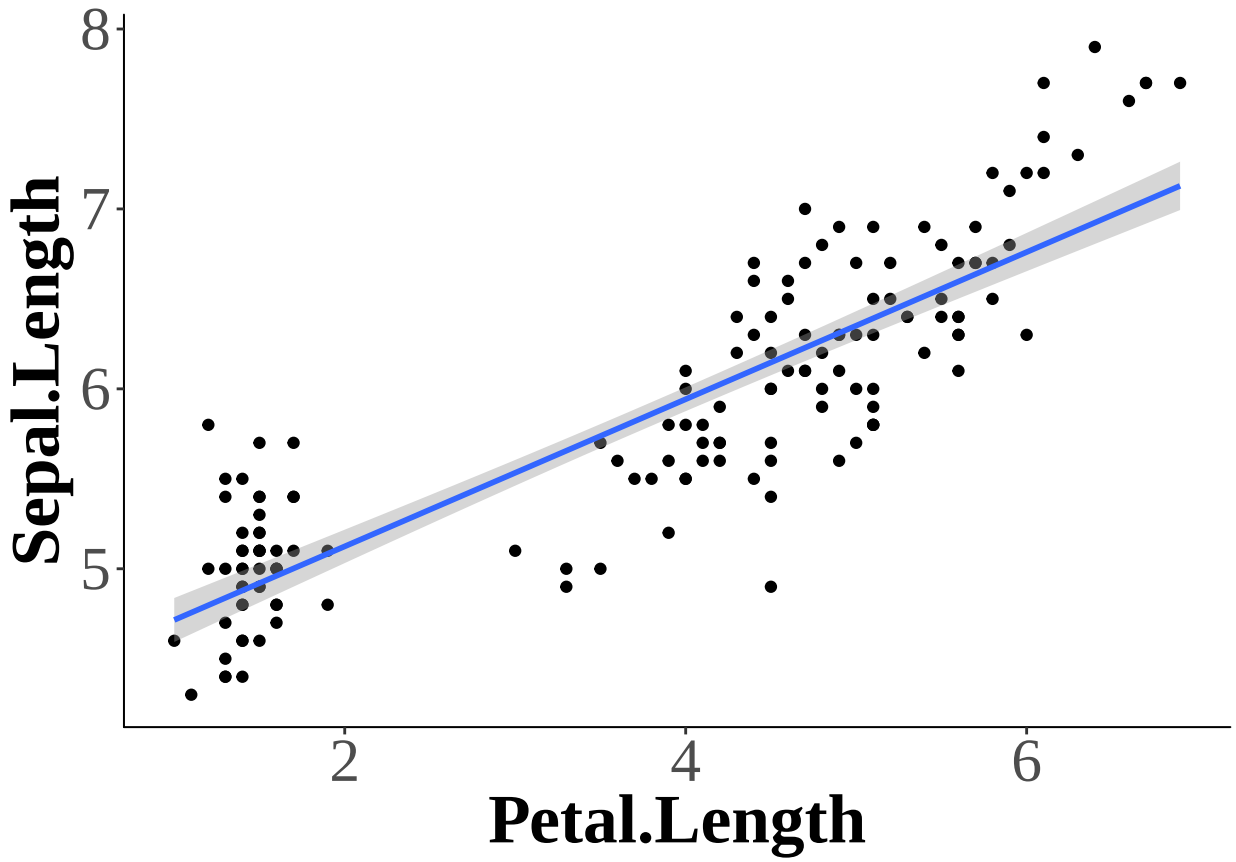
```
## [1] 5.552
```

2. Criar um Gráfico de dispersão do comprimento da pétala em função do comprimento da sépala, por espécie, com linha de tendência linear

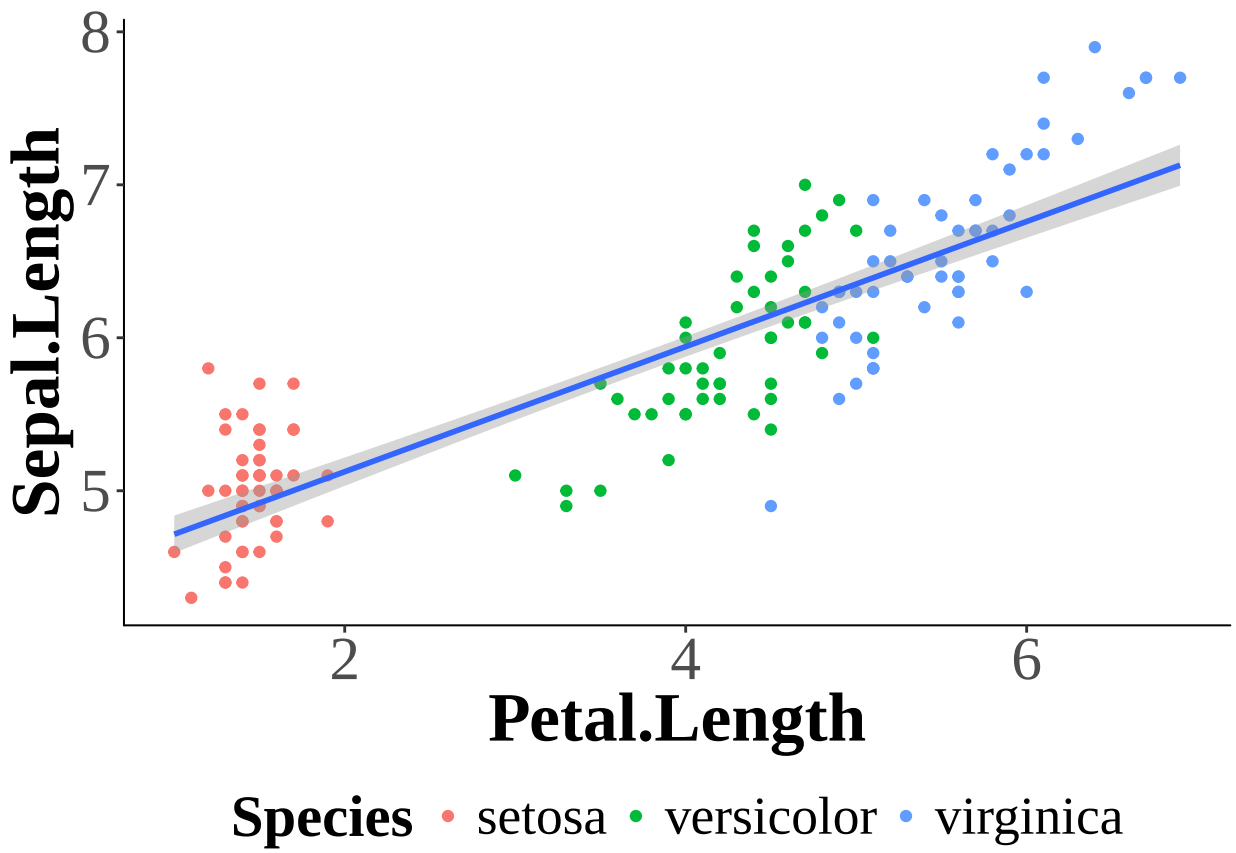
```
library(ggplot2)
base_grafico <- ggplot(iris, aes(x=Petal.Length, y = Sepal.Length)) +
  theme_bw(base_family = "serif") +
  theme(
    legend.position = "bottom",
    panel.grid.major = element_blank(),
    panel.grid.minor = element_blank(),
    panel.border = element_blank(),
    plot.title = element_text(size = 26, face = "bold", hjust = 0.5),
    axis.title = element_text(size = 26, face = "bold"),
    axis.text = element_text(size = 23),
    axis.line.x = element_line(color = "black"),
    axis.line.y = element_line(color = "black"),
    strip.text.x = element_text(size = 22,face = "bold"),
    legend.text = element_text(size = 20),
    legend.title = element_text(size = 22, face="bold") )

base_grafico + geom_point()
```



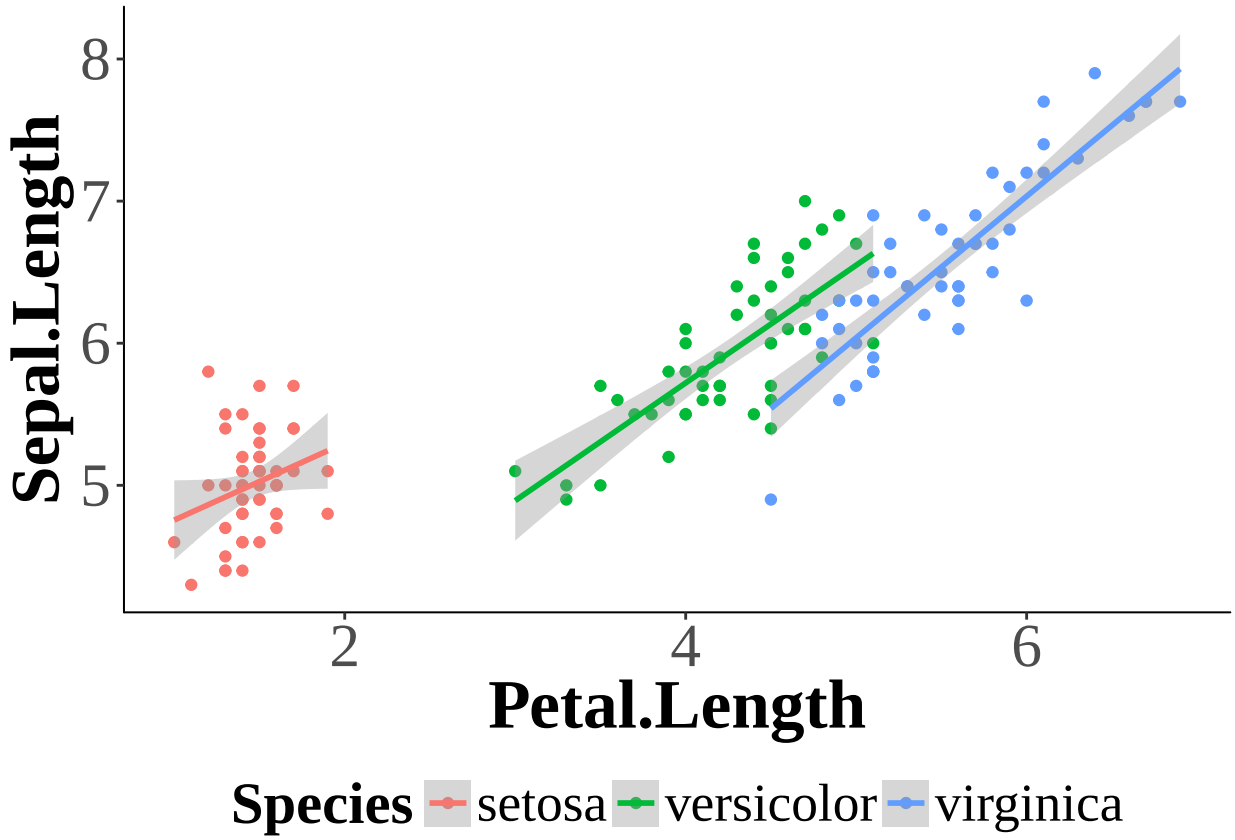

```
base_grafico + geom_point() + geom_smooth(method = "lm")
```




```
base_grafico + geom_point(aes(color=Species)) + geom_smooth(method = "lm")
```




```
base_grafico + geom_point(aes(color=Species)) + geom_smooth(aes(color=Species),method = "lm")
```


Sepal.Length
8
7
6
5
2
4
6
Petal.Length
Species
setosa
versicolor
virginica