RStudio

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Go to file/function | Addins | Project: (None)

Untitled10* | Untitled11* | Untitled12* | Untitled13* | Untitled14* | Untitled15* | Untitled16*

Source on Save | Run | Source

```
1  data("iris")
2  str(iris)
3  plot(iris$Sepal.Length, iris$Petal.Length, main = "Scatter plot of Sepal.Length vs.
4  Petal.Length",xlab = "Sepal.Length", ylab = "Petal.Length", col = "skyblue", pch = 16)
5  model <- lm(Petal.Length ~ Sepal.Length, data = iris)
6  abline(model, col = "orange")
7  new_data <- data.frame(Sepal.Length = 5.5)
8  predicted_Petal_Length <- predict(model, newdata = new_data)
9  predicted_Petal_Length
```

9:23 (Top Level) R Script

Console | Terminal | Background Jobs

R 4.3.1 · ~/

```
> data("iris")
> str(iris)
'data.frame':   150 obs. of  5 variables:
 $ Sepal.Length: num  5.1 4.9 4.7 4.6 5 5.4 4.6 5 4.4 4.9 ...
 $ Sepal.Width : num  3.5 3 3.2 3.1 3.6 3.9 3.4 3.4 2.9 3.1 ...
 $ Petal.Length: num  1.4 1.4 1.3 1.5 1.4 1.7 1.4 1.5 1.4 1.5 ...
 $ Petal.Width : num  0.2 0.2 0.2 0.2 0.2 0.4 0.3 0.2 0.2 0.1 ...
 $ Species     : Factor w/ 3 levels "setosa","versicolor",..: 1 1 1 1 1 1 1 1 1 1 ...
> plot(iris$Sepal.Length, iris$Petal.Length, main = "Scatter plot of Sepal.Length vs.
+ Petal.Length",xlab = "Sepal.Length", ylab = "Petal.Length", col = "skyblue", pch = 16)
> model <- lm(Petal.Length ~ Sepal.Length, data = iris)
> abline(model, col = "orange")
> new_data <- data.frame(Sepal.Length = 5.5)
> predicted_Petal_Length <- predict(model, newdata = new_data)
> predicted_Petal_Length
       1
3.119938
>
```

Environment | History | Connections | Tutorial

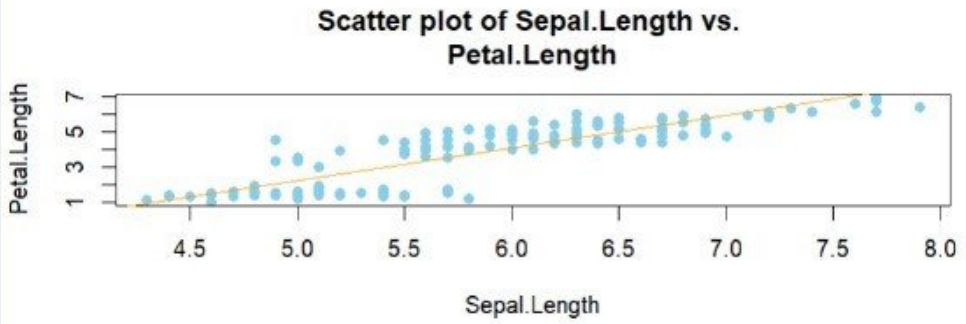
Import Dataset | 137 MiB | List

R | Global Environment

| Data | |
|---|---|
| iris | 150 obs. of 5 variables |
| model | List of 12 |
| new_data | 1 obs. of 1 variable |
| **Values** | |
| predicted_Petal_Leng.. | Named num 3.12 |

Files | Plots | Packages | Help | Viewer | Presentation

Zoom | Export | Publish




78°F Very humid | Search | ENG IN | 20:42 21-11-2023