SimpleRegression

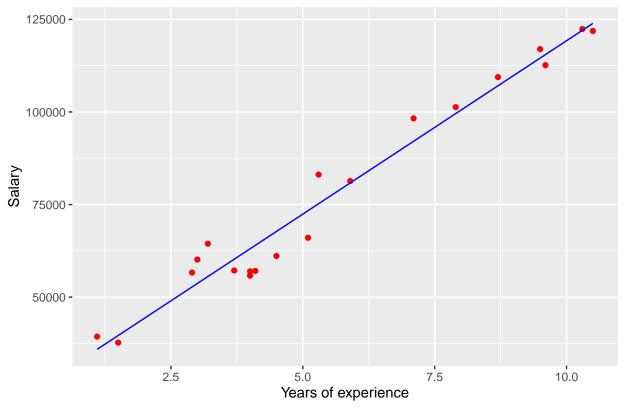
```
dataset = read.csv(file='Salary_Data.csv')
dataset
##
      YearsExperience Salary
## 1
                 1.1 39343
## 2
                 1.3 46205
## 3
                 1.5 37731
## 4
                 2.0 43525
                 2.2 39891
## 5
## 6
                 2.9 56642
## 7
                 3.0 60150
## 8
                 3.2 54445
## 9
                 3.2 64445
## 10
                 3.7 57189
## 11
                 3.9 63218
                 4.0 55794
## 12
                 4.0 56957
## 13
## 14
                 4.1 57081
## 15
                 4.5 61111
                 4.9 67938
## 16
## 17
                 5.1 66029
## 18
                 5.3 83088
## 19
                 5.9 81363
## 20
                 6.0 93940
## 21
                 6.8 91738
## 22
                 7.1 98273
## 23
                 7.9 101302
## 24
                 8.2 113812
## 25
                 8.7 109431
## 26
                 9.0 105582
## 27
                 9.5 116969
## 28
                 9.6 112635
## 29
                 10.3 122391
## 30
                 10.5 121872
# Splitting the dataset into the Training set and Test set
# install.packages('caTools')
library(caTools)
## Warning: package 'caTools' was built under R version 3.6.1
set.seed(123)
split = sample.split(dataset$Salary, SplitRatio = 2/3)
training_set = subset(dataset, split == TRUE)
test_set = subset(dataset, split == FALSE)
# Fitting Simple Linear Regression to the Training set
regressor = lm(formula = Salary ~ YearsExperience,
               data = training_set)
```

```
# Predicting the Test set results
y_pred = predict(regressor, newdata = test_set)

# Visualising the Training set results
library(ggplot2)
```

Warning: package 'ggplot2' was built under R version 3.6.1

Salary vs Experience (Training set)



```
ggtitle('Salary vs Experience (Test set)') +
xlab('Years of experience') +
ylab('Salary')
```

Salary vs Experience (Test set)

