Simple Regression Analysis

Abstract

Having learned the basic tools used in workflow reproducibility, the next step is to start applying the computational toolkit and R programming to reproduce a simple regression analysis. This report will replicate the regression analysis performed in Chapter 3 (Linear Regression) of the textbook, "An Introduction to Statistical Learning".

Introduction

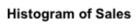
This analysis involves fitting a linear regression model to predict Sales onto a p

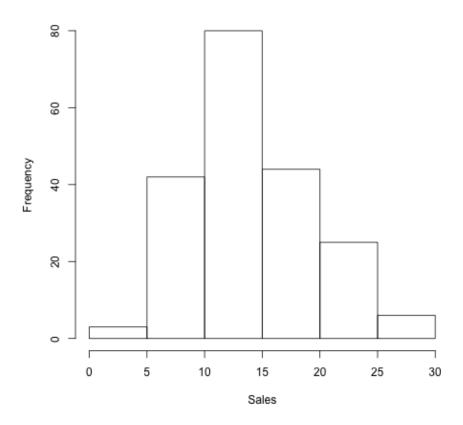
Data

Methodology

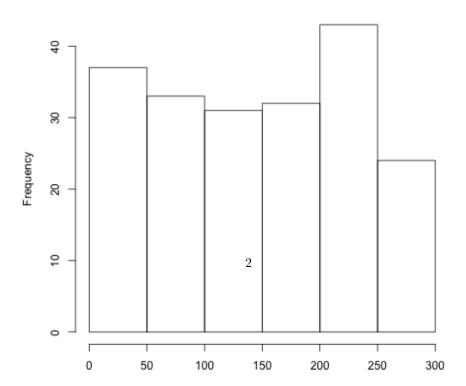
Coefficients	Estimate	Std. Error	t-statistic	p-value
Intercept TV	7.0325 0.0475	$0.4578 \\ 0.0027$	15.36 17.67	<0.0001 <0.0001

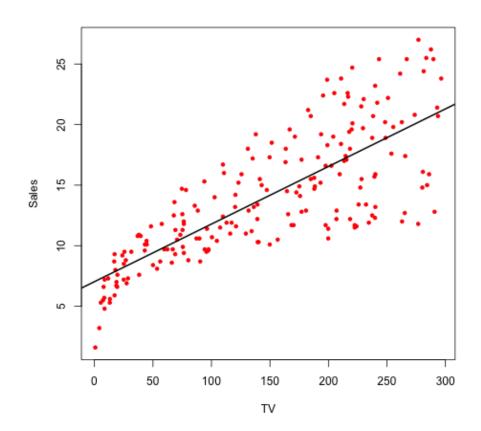
Quantity	Value
Residual Standard Error	3.259
R-squared	0.612
F-statistic	312.1





Histogram of TV





Results

Conclusions