Creating Statistical Graphs in Base R

Emilee McWilliams

DATA SCIENTIST

@data_technik

Overview

Understand statistical analysis and how to graph them
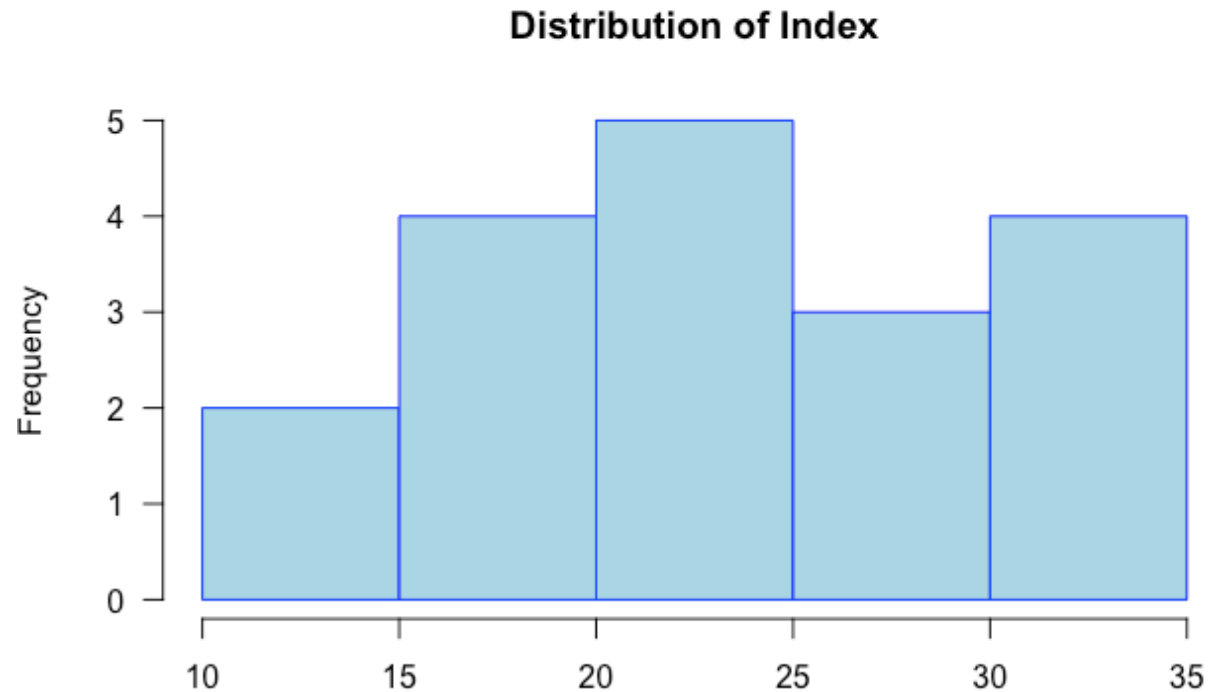
See a histogram in R

Create a scatterplot in plot the function of the line

Apply these insights to graphs or analysis to a project

Histogram

Distribution of Index

Histogram:

Most frequently occurring price of an index

Goal:
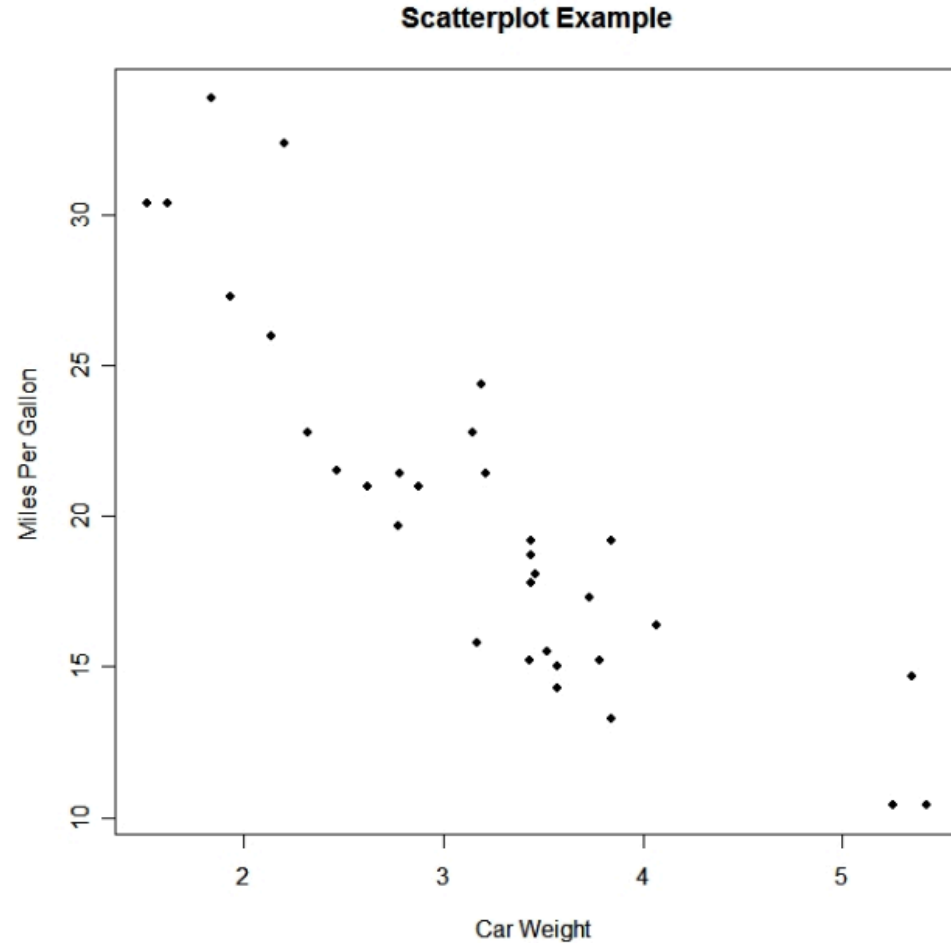
Distribution of a variable

Demo

Import data frame

Convert data variable

Create histogram and customize it

Scatterplot

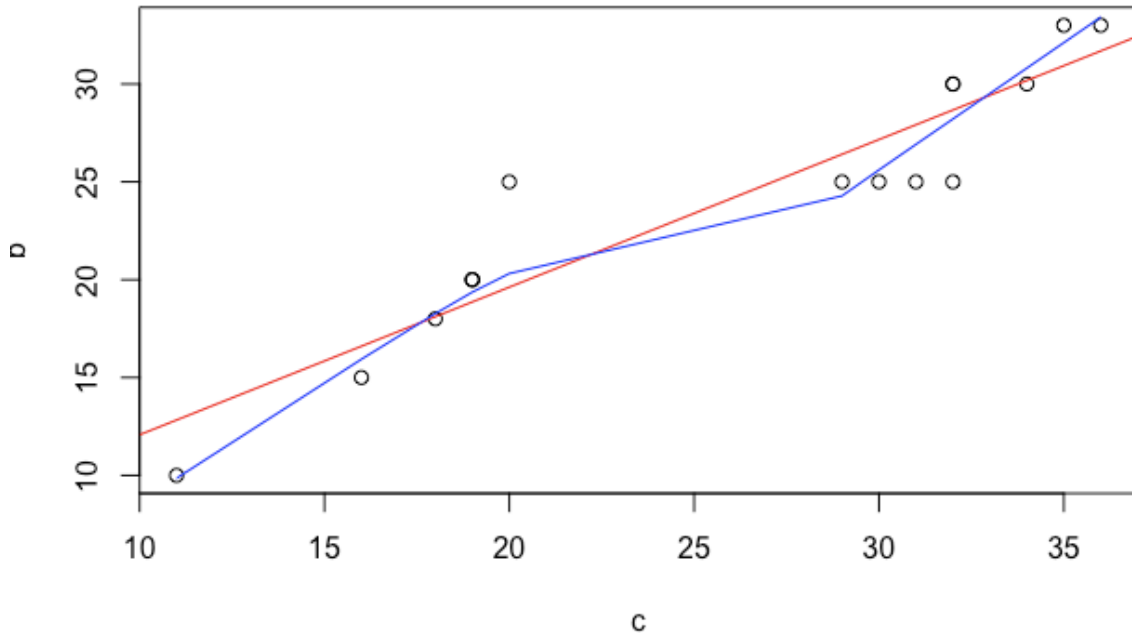Scatterplot Example

Scatterplot:

Returns of Two Stocks

Goal:

Correlation between variables

Function of a Line

R squared value of linear equation
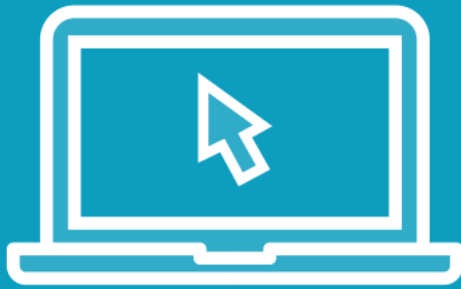
Function of a Line:

Relationship between two stocks

Goal:

Adding the regression line for two variables

Demo

Create scatterplot

Find the regression function of the scatter plot

Plot the line in R

Summary

Know how to understand statistical techniques

Create a histogram and scatterplot

Find distributions and relationships between variables

Communicate the results

- Describe a dataset in statistical terms