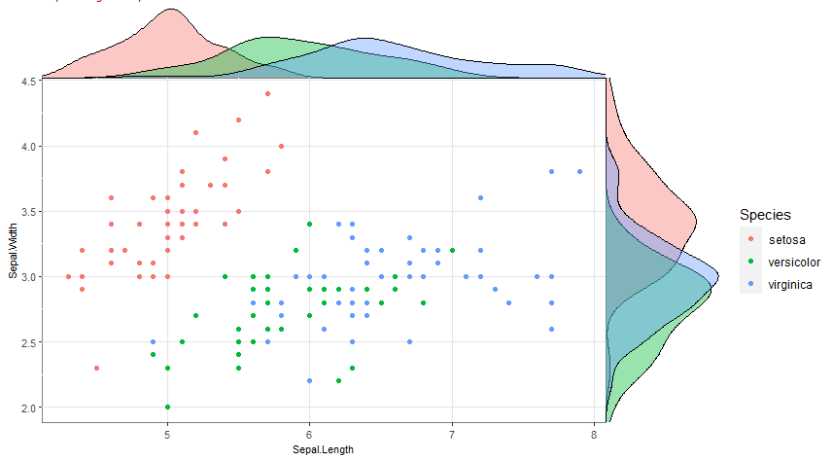


# Scatterplot with multiple densities

## Scatterplot with marginal densities

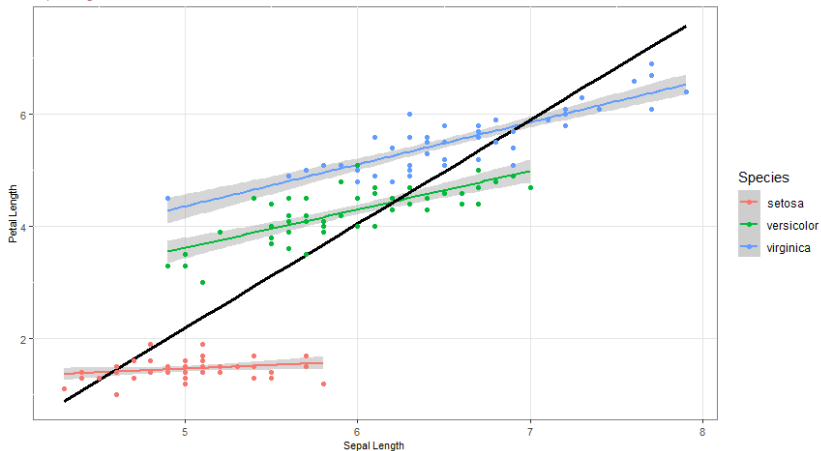
*Sepal.Length x Sepal.Width from Iris dataset*



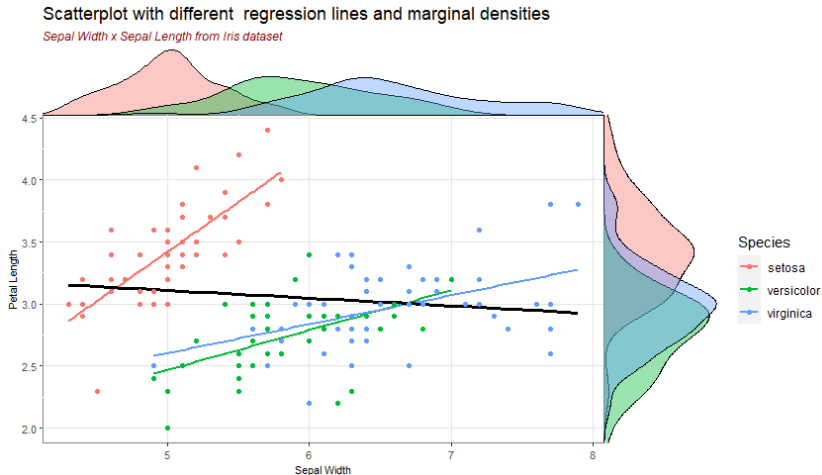
# Scatterplot with multiple regression lines

Scatterplot with different regression lines

*Sepal.Length x Petal.Width from Iris dataset*



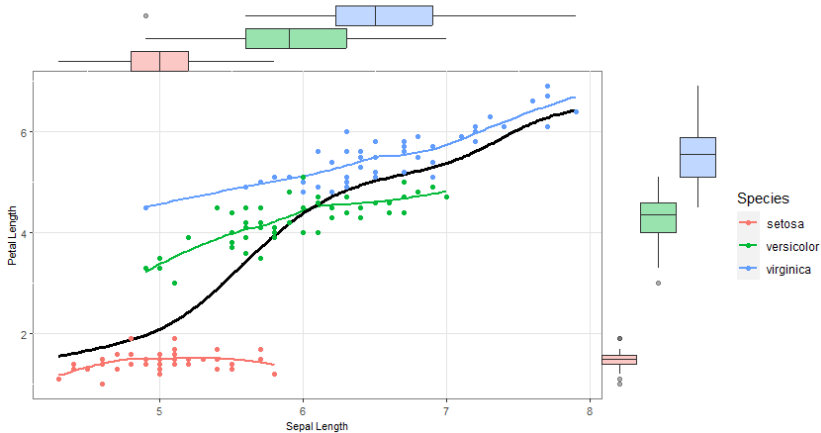
# Scatterplot with multiple regression lines and densities



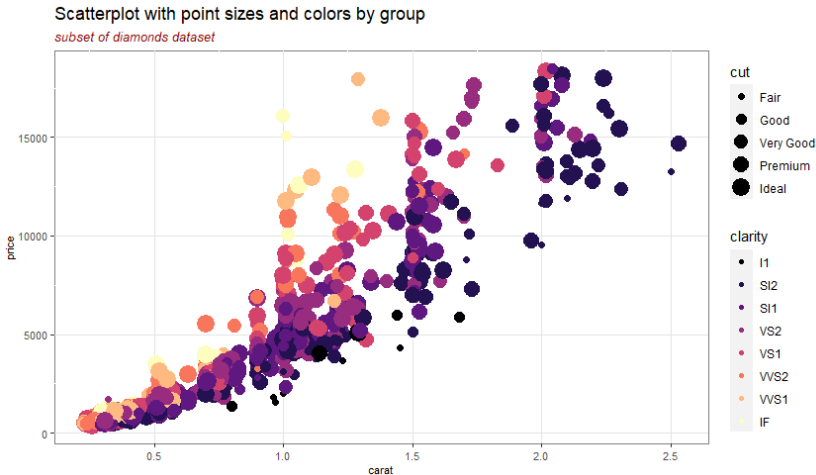
# Scatterplot with multiple nonparametric lines and boxplots

Scatterplot with different Nonparametric regression lines and marginal boxplots plots

*Sepal.Length x Petal.Length from Iris dataset*



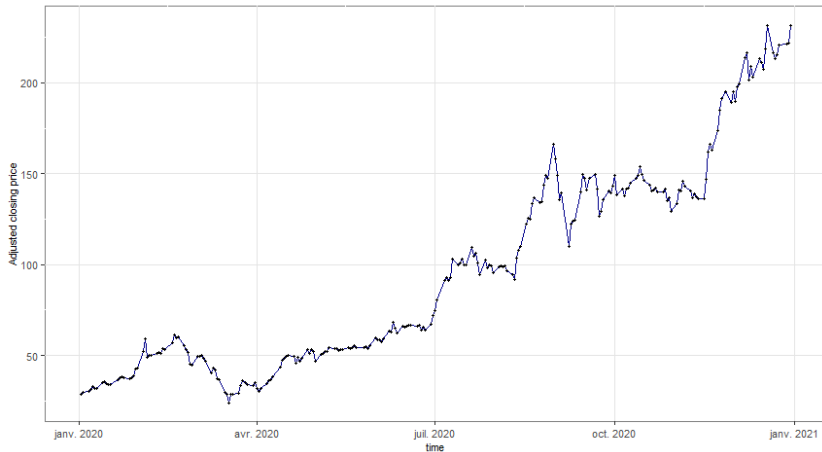
# Scatterplot with point sizes and color by group



# Plot of time series data

Time series plot

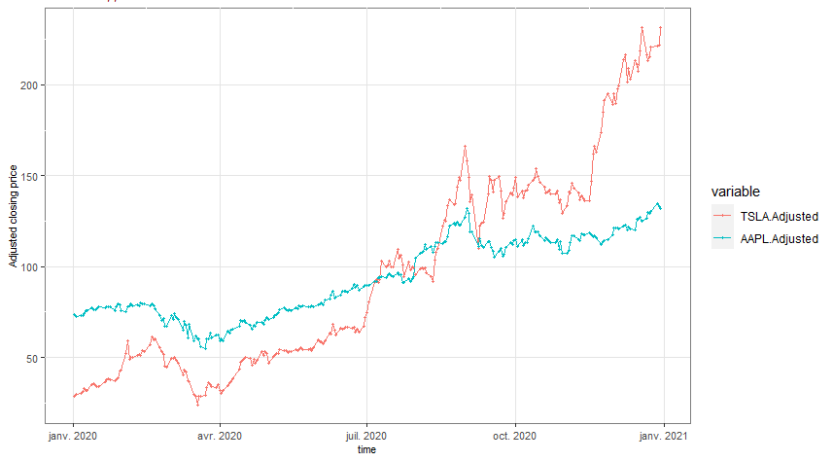
*Tesla stock*



# Multiple time series

## Multiple time series plot

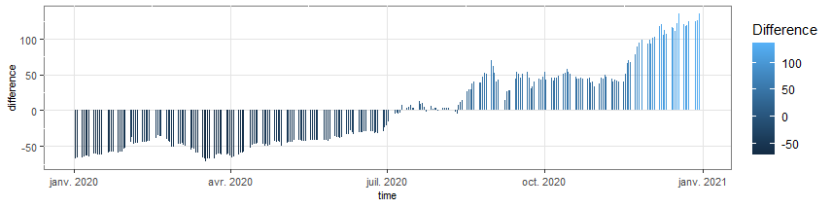
*Tesla and Apple stocks*



# Diverging bar plot

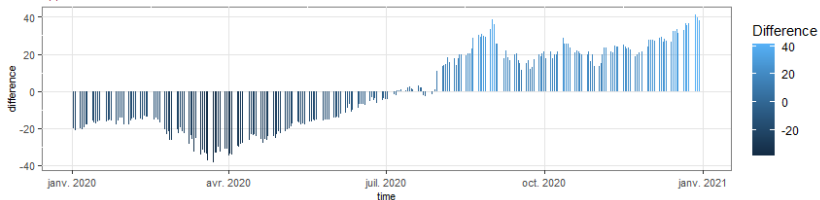
Diverging time series bar plot

*Tesla*



Diverging time series bar plot

*Apple*

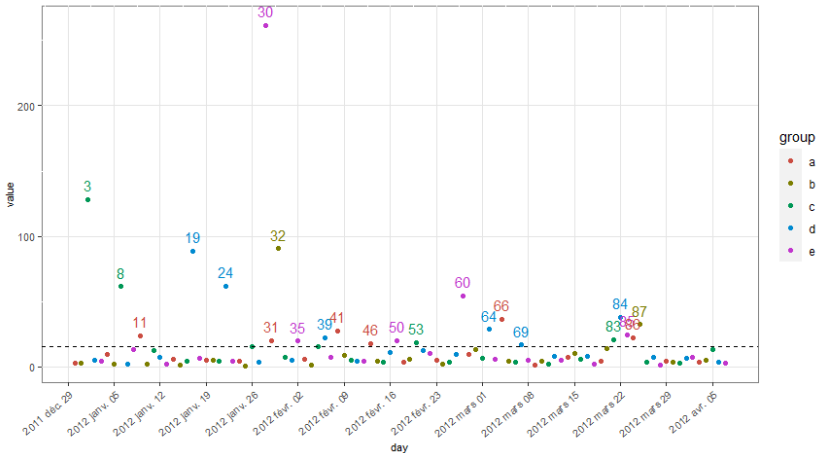




# Time data with selected labels

## Time data with labels above average

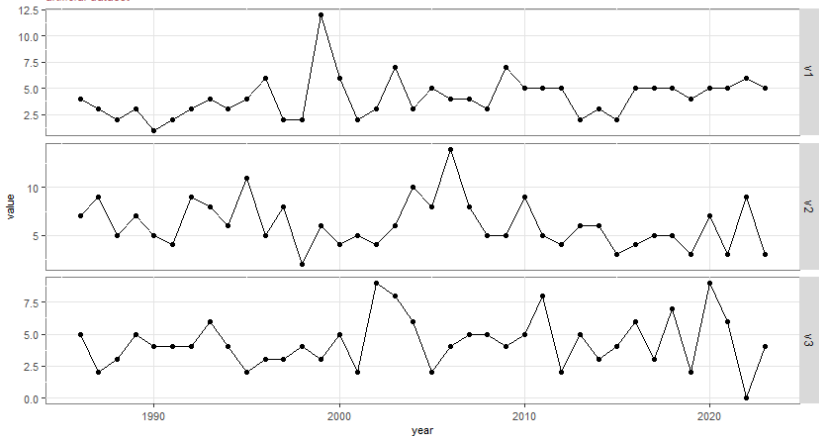
*variable y by month colored by group label, on artificial dataset*



# Sparklines plots

Sparklines plot with facet\_grid

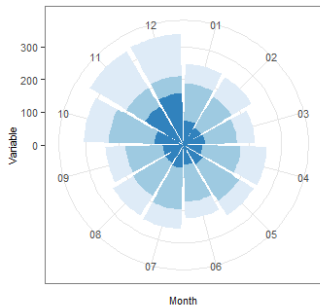
*artificial dataset*



# Circular stacked bar plot

Circular stacked bar plot 1

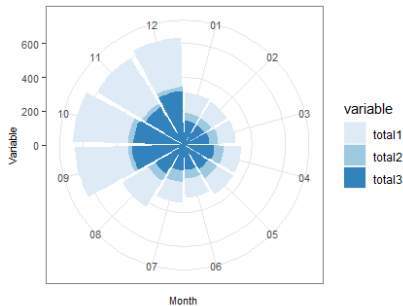
*Variable x Month on artificial dataset*



Artificial dataset 2019

Circular stacked bar plot 2

*Variable x Month on artificial dataset*

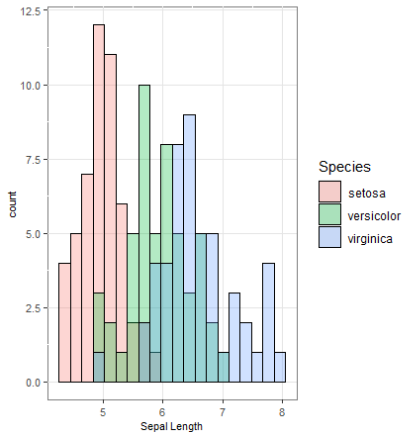


Artificial dataset 2020

# Overlaying histograms

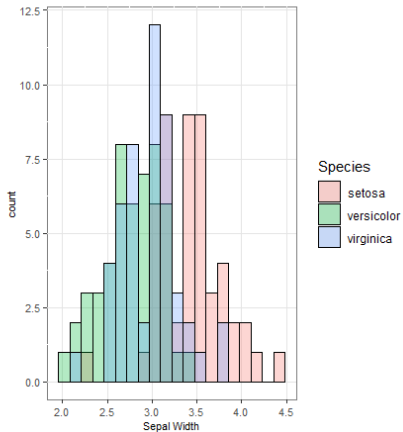
Overlaying histogram 2

*iris dataset*



Overlaying histogram 1

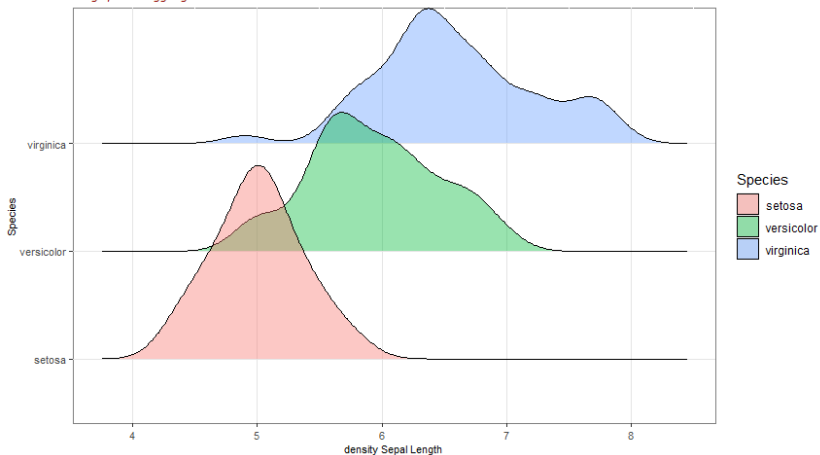
*iris dataset*



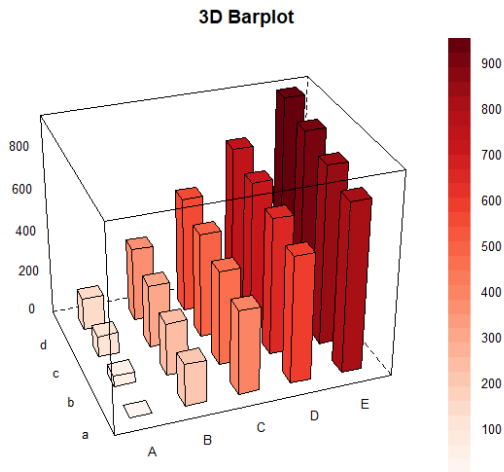
# Ridge plot with 'gggridges'

## Multiple densities on different levels

*Ridge plot with gggridges on iris dataset*



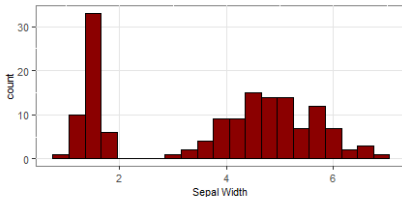
# 3D bar plot



# Histograms and Kernel Density Estimators (KDE)

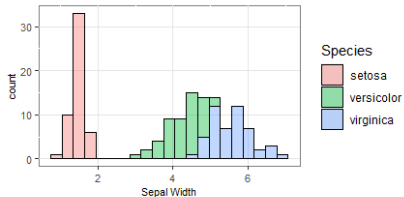
Histogram of Sepal Width

*iris dataset*



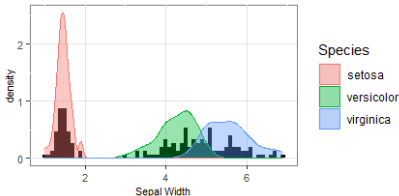
Histogram by Species

*iris dataset*



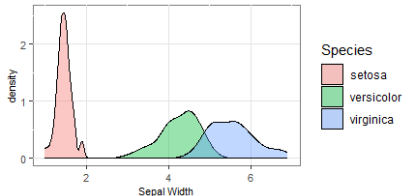
Histogram with overlying densities by Species

*iris dataset*



Densities by Species

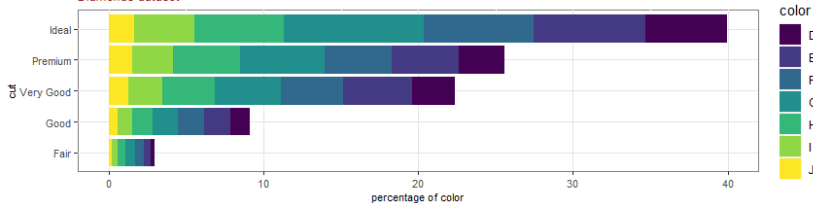
*iris dataset*



# Stacked bar plot

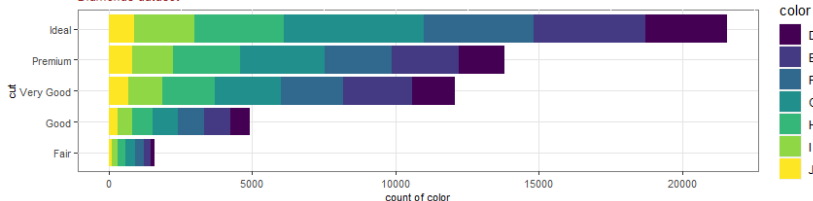
Stacked bar plot with percentages

*Diamonds dataset*



Stacked bar plot with counts

*Diamonds dataset*

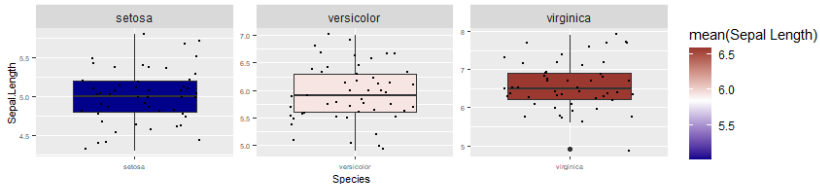




# Boxplots and violin plots with mean color gradient

Box plots for Sepal Length x Species, for each Species group

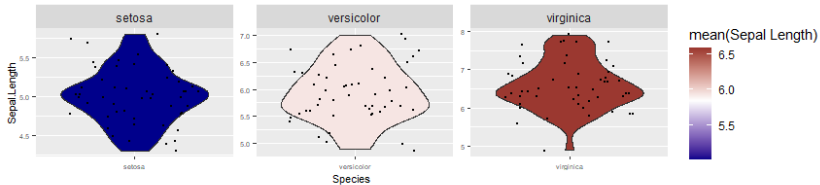
Color gradient indicate the mean of the variable "Sepal Length"



iris dataset

Violin plots for Sepal Length x Species, for each Species group

Color gradient indicate the mean of the variable "Sepal Length"

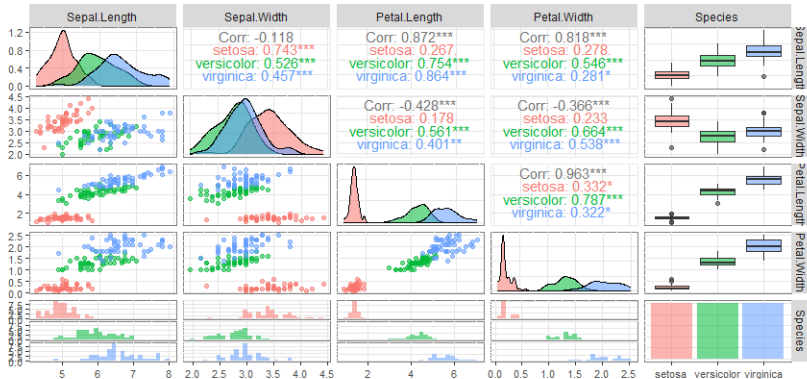


iris dataset

# Example of dashboard 1: multiple densities using 'ggpairs'

## Summary of distributions with ggpairs

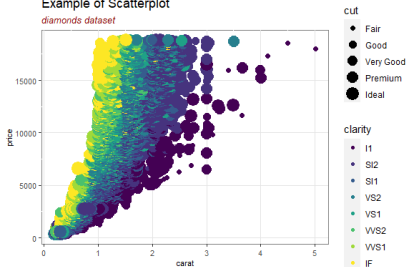
*all variables x all variables, by group, iris dataset*



# Example of dashboard 2: several plots in one window

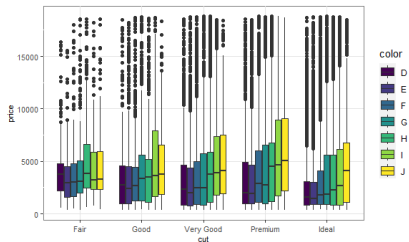
Example of Scatterplot

*diamonds dataset*



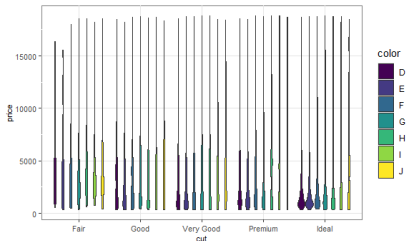
Example of Boxplots

*diamonds dataset*



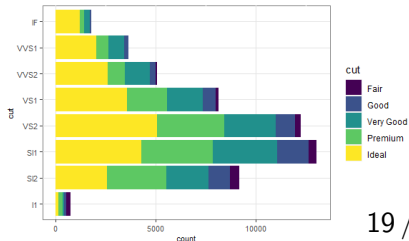
Example of Violin plots

*diamonds dataset*



Example of Bar plots

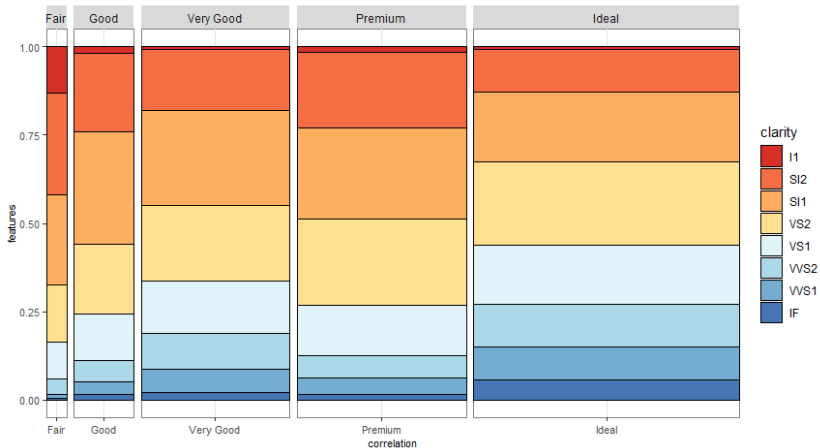
*diamonds dataset*



# Mosaic plot

Mosaic plot of frequency for two nominal or categorical variables

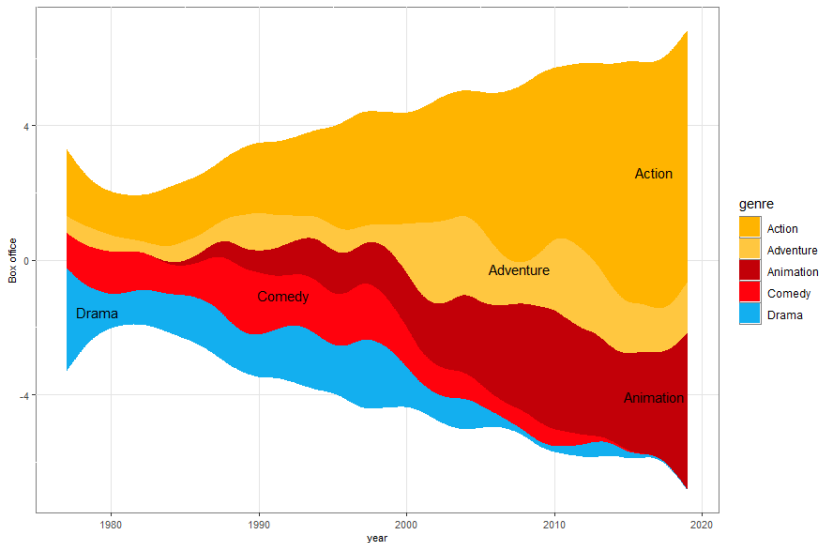
*Diamonds dataset*



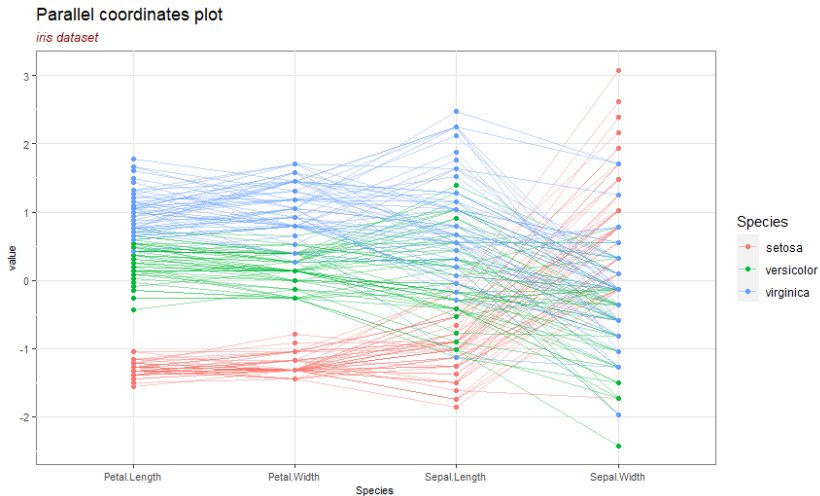
# Streams with ggstream

Stream: volume or quantity over time

*blockbusters dataset*



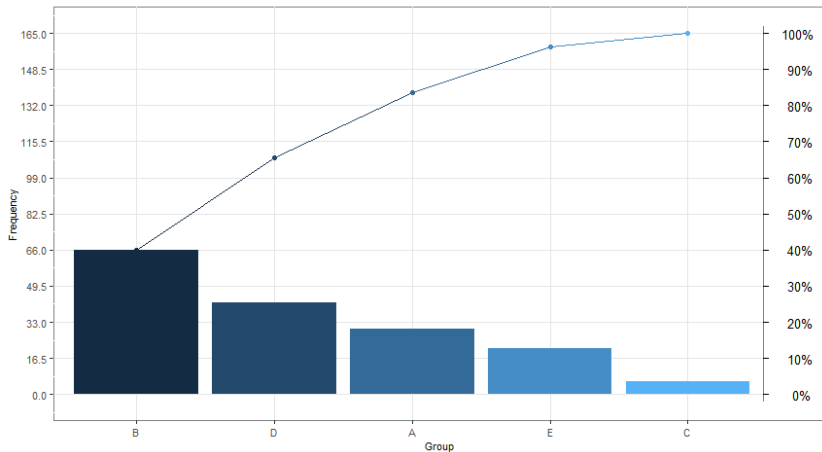
# Parallel coordinates plot



# Pareto plot

Pareto plot (frequency and percentage by group)

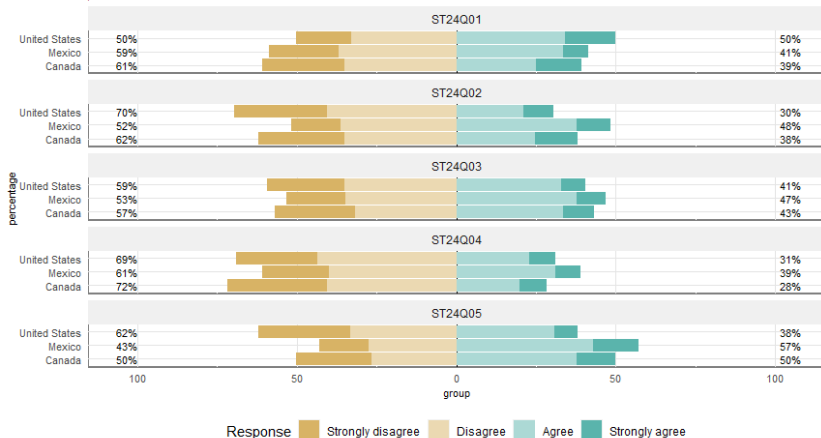
*artificial dataset*



# Likert items plot

## Plotting likert scales

*pisaitems dataset*

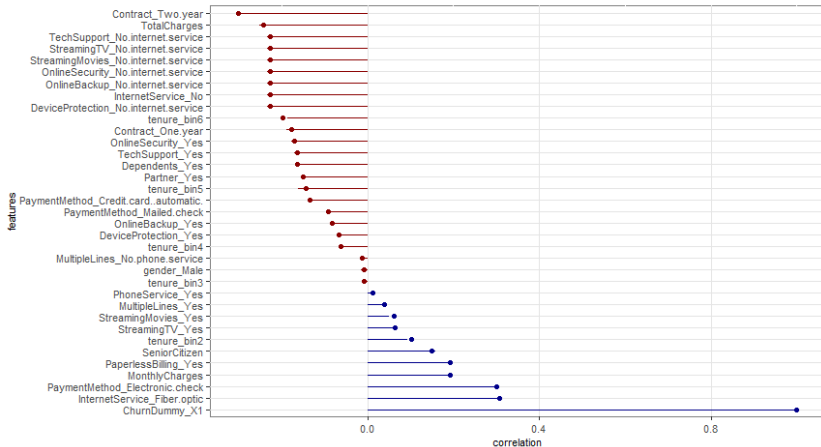




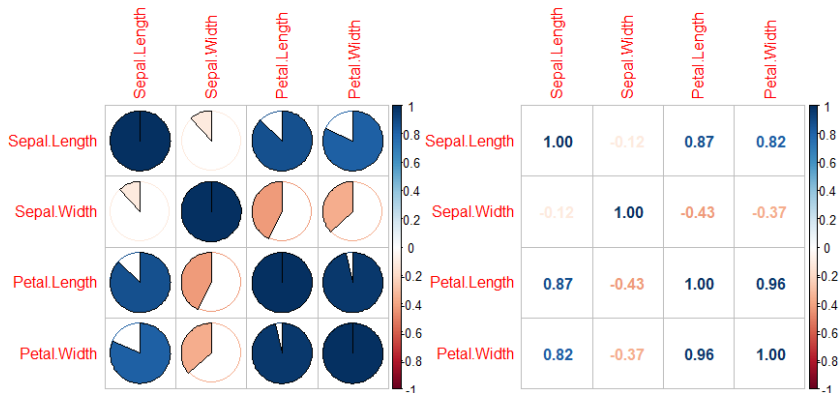
# Visualizing correlations among features to a response

Plotting correlations of features to a response (even nominal)

*Telco dataset*



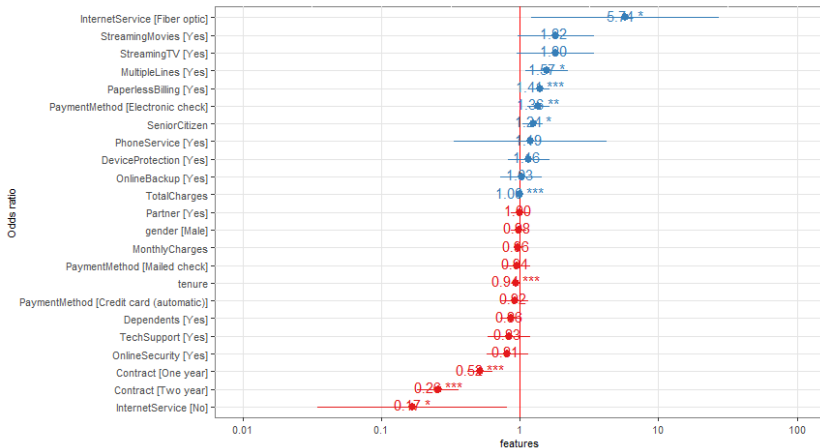
# Correlogram



# Plotting odds ratios

## Plotting odds ratios - Binary Logistic regression

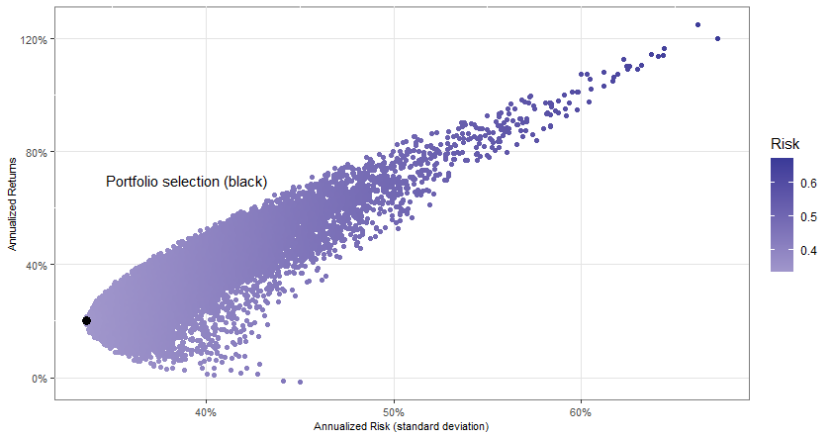
*Telco dataset*



# Plot of Markowitz Mean-Variance portfolio

## Tangent Portfolio - Maximizing the Sharpe ratio

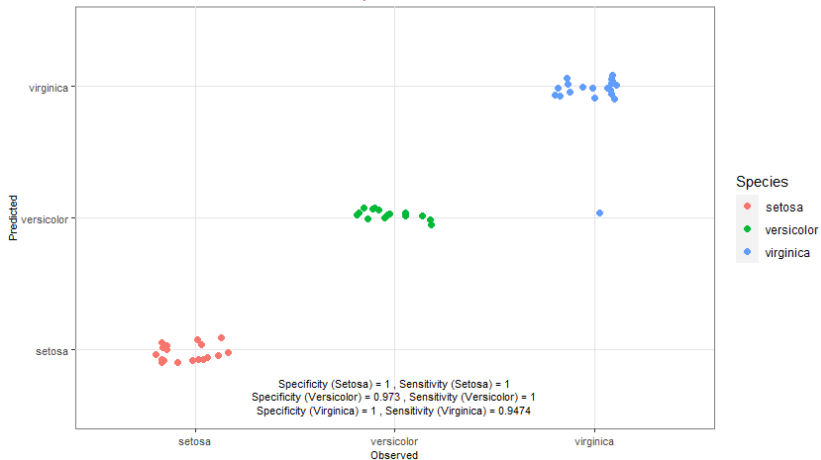
*Portfolio of 4 stocks retrieved from Yahoo finance*



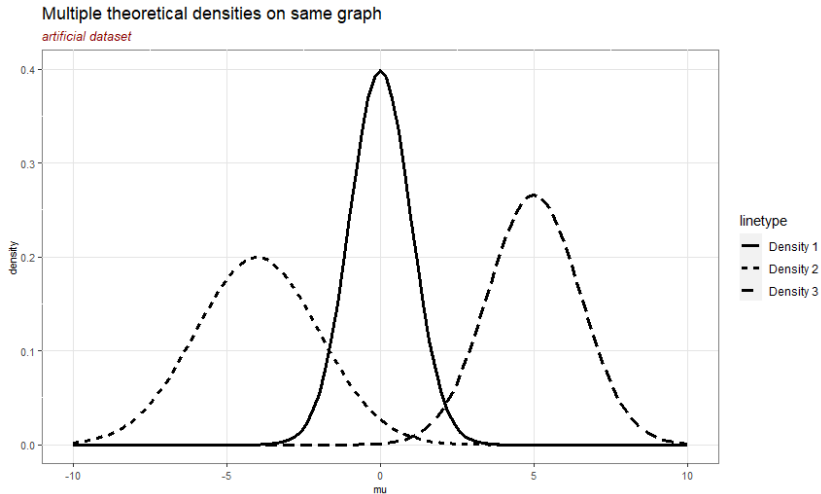
# Plot of a confusion matrix

## Confusion Matrix - Naive Bayes Classifier

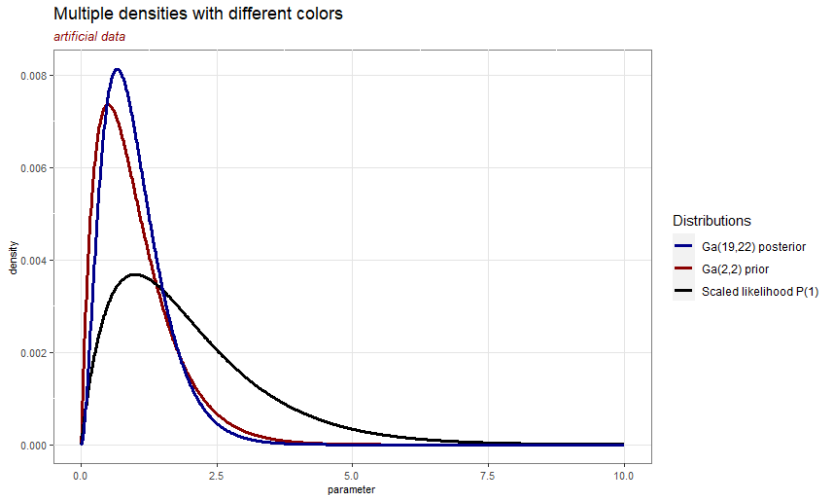
*Predicted vs. Observed from Iris dataset. Accuracy: 0.9808*



# Plot multiple theoretical densities



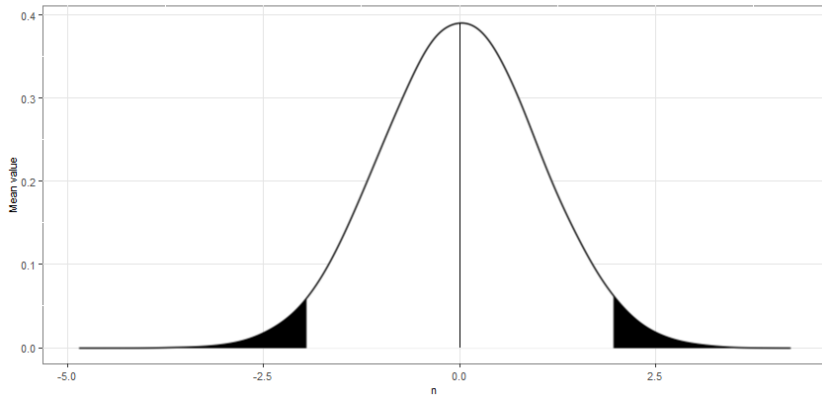
# Plot multiple densities with different colors



# Plot density with colored areas

Distribution with colored or shaded areas and segments

*Standard Normal artificial dataset*





# Plot of convergence of estimates

