ANOVA report

DIY\_ANOVA

07 giugno 2018

## 0. Report structure

This a report automatically generated by the DIY\_ANOVA app (<https://pecostats.shinyapps.io/DIY_ANOVA/>). It consists of the following sections:

1. Input data
2. Normality
3. Homoscedasticity
4. ANOVA
5. Post-hoc test

## 1. Input data

The input dataset has **36 records** and **4 variables**: *glycog, treat, rat, liver*. For the following analysis, **treat, rat, liver** will be modelled as categorical predictive variables (factors), and **glycog** as continuous response variable.

## 2. Normality

A **One-sample Kolmogorov-Smirnov test** performed on the response variable was **not significant** (D statistic = 0.09011, p-value = 0.9319). The distribution of the response variable, therefore, is not significantly different from a normal distribution with the same mean and variance.

The followings charts are: **on the left a *QQ plot***  produced to compare the distribution quantiles of the response variable with the theoretical quantiles of a normal distribution; **on the right a *bar chart*** that provides a visual representation of the distribution of the response variable itself.

## 3. Homoscedasticity

## 4. ANOVA

## 5. Post-hoc tests