

5. 16. NOV. - REGRESSION

There are no weekly exercises this week. But if you want something to try:

Exercise 14. *Take your preferred statistics text book and find the examples for linear models. (These may occur as comparison of treatments/ANOVA, linear regression or in other context). Do a formal regression, and inspect the residuals by residual plot, QQ-plot, leverage, Cook's distance and DIFFITs.*

Are the conditions for simple linear models satisfied?

5.1. Project task: body fat.

Exercise 15. * Project Task *

Directory <<http://statlab.uni-heidelberg.de/data/fat/>> contains a waste book with collected statistics and displays on the body fat data set: a data frame with 252 observations on 19 variables, the body fat percentage of adult men, and a list of possible variables to be used to construct a surrogate. The pdf file name is build using the same conventions as used in the other examples.

Use this as a starting point to analyse the data. Prepare a short report of your analysis, and a collection of the relevant analysis material.

You are free to make use of the material in the waste-book as long as you give proper citation.

5.2. Project task: olive oils.

Exercise 16. * Project Task *

Directory <<http://statlab.uni-heidelberg.de/data/olive/>> contains a waste book with collected statistics and displays on the olive oil data set: typical fatty acid compositions in oil from various regions. The pdf file name is build using the same conventions as used in the other examples.

Use this as a starting point to analyse the data. Prepare a short report of your analysis, and a collection of the relevant analysis material.

You are free to make use of the material in the waste-book as long as you give proper citation.
