

Homework on ANOVA
SBDM course
Use R-studio software

Exercise 1

Open dataset PlantGrowth (included in R):

1. compute some summary statistics;
2. compute mean of weight by group;
3. represent graphically variable weight by group with a box plot;
4. compute ANOVA. Provide an interpretation of the obtained result.
5. Check for homoscedasticity assumption.
6. Which group is different from the other(s)? Reply to this question by using Tukey test and the graphical representation tool.

Exercise 2

Open dataset Iris (included in R):

1. compute some summary statistics;
2. compute mean of Petal.Length by Species;
3. compute ANOVA of Petal.Length by Species. Provide an interpretation of the obtained result.
4. Check for homoscedasticity assumption.
5. Which group is different from the other(s)? Reply to this question by using Tukey test and the graphical representation tool.