重点: ANOVA步骤

2022年2月26日 星期六

XX AMOVA步骤

一: 控测使用条件 → normality of residuals

① 建模: model ← aov (A ~ B + C, data =) ~ 左侧因变量, 右侧自变量

+为 model without interaction

*为 model with interaction

② 检查: (1) 画图: hist (resid (model), main = "residuals")

(三张一)
(2) normal R-R图 (dots should be aligned along the diagonal plot (model, Z)

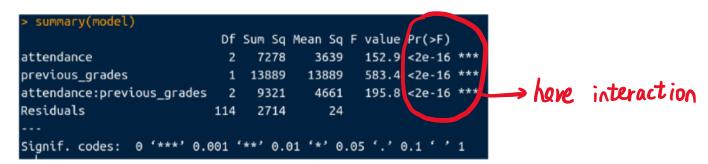
(3) shapiro.test(resid (model))

Ho> data is normally distributed

二. 检测条件 > equality of variances (var.test 只比较 27样本不适用) 次 => plot (model,1) -> look for similar heights of each columns

三.依 AMOVA

summary (model) 指p-value



回: post -hoc test

Tukey HSD (model) 查看每一姐 t-test

泡若检验未通过,则使用non-parametric。

→ kruskal.test (y~x, data=~)

tuo-way AnovA BO Ho5 HA

Hypotheses:

- H₀: There is no effect of class attendance or previous grades on course performance
- H_A: At least one of those factors (class attendance or previous grades) influences course performance.

Additional Hypotheses if we test for interactions:

- H₀: There is no interaction between class attendance and previous grades
- H_A: There is an interaction between class attendance and previous grades

ANOVA的 simulation inner-group = c(d1,d2····) 抽组内两样本与组间两样本,分别等差值 diff_group = c(D1,D2····) 再对等 电来的数据作 t-test/uilcox