

```
1: # comparaison de 2 moyennes
2: t.test(LOX~inocule, statenz, var.equal=TRUE)
3:
4: # comparaison de 2 variances
5: var.test(LOX~inocule, statenz)
6:
7: # corrélation
8: cor(statenz$PO, statenz$jours)
9: cor.test(~PO+jours,statenz)
10:
11: # tableau croisé : 1 variable quali * 1 variable quanti
12: with(statenz, tapply(GST,cultivar, mean))
13:
14: # tableau croisé : 2 variables quali * 1 variable quanti
15: with(statenz, tapply(GST,list(cultivar, inocule), mean))
16:
17: # tableau croisé : 2 variables quali, et test du chi2
18: temp<- data.frame(
19:   V1=sample(letters[1:5],300, replace=T),
20:   V2=sample(LETTERS[1:5],300, replace=T))
21: table(temp$V1, temp$V2)
22: chisq.test(table(temp))
23:
24: # test de normalité
25: W <- statenz$GST
26: shapiro.test(W)
27:
28: # régression linéaire simple
29: setwd("C:/R_ITA/")
30: weather <- read.table("data/meteo.dat", h = TRUE, dec = ',')
31: head(weather)
32: Fit<- lm(weather$Tmax~weather$radiation)
33: print(Fit)
34: summary(Fit)
35: COEF <- Fit$coefficients
36: plot(weather$radiation,weather$Tmax, xlab="radiation", ylab="Tmax")
37: abline(a=COEF[1], b=COEF[2],lty=2)
38:
39: # analyse de la variance
40: toto <- statenz[statenz$cultivar=="v1" &
41:   statenz$inocule=="i",]
42: toto$series <- as.factor(toto$series)
43: res_lm <- lm(PO~jours + series, toto)
44: anova(res_lm)
45: summary(res_lm)$sigma # ETR
46:
47:
48:
49:
```