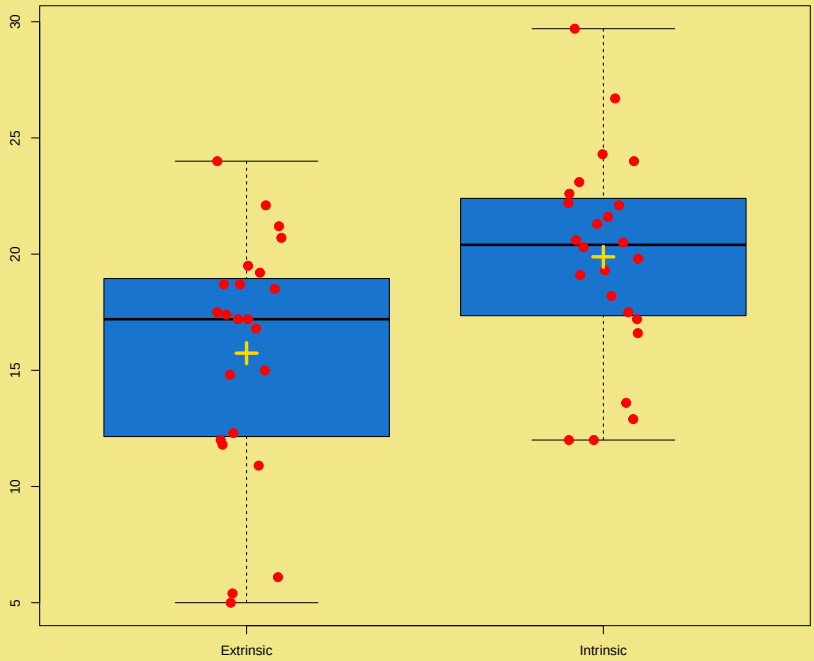
```r
head(case0101,n=5)
summary(case0101)
data("case0101") ; attach(case0101)
#tapply(Score, Treatment, summary)
library(psych)
psych::describeBy(Score,group=Treatment)
```

```r
boxplot( Score ~ Treatment,col="dodgerblue3")
stripchart(Score ~ Treatment, vertical = TRUE,
    method = "jitter", add = TRUE, pch = 20, cex=2.2,col = 'red')
(means <- tapply(Score,Treatment,mean))
points(means,col="gold1",pch=3,cex=2.4,lwd=4)
```


30
25
20
15
10
5
Extrinsic
Intrinsic

```
tapply(Score, Treatment, summary)
```

```
$Extrinsic
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
   5.00   12.15   17.20   15.74   18.95   24.00

$Intrinsic
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  12.00   17.43   20.40   19.88   22.30   29.70
```

```r
t.test(Score ~ Treatment)
```

```
    Welch Two Sample t-test

data:  Score by Treatment
t = -2.9153, df = 43.108, p-value = 0.005618
alternative hypothesis: true difference in means between group Extri
95 percent confidence interval:
 -7.010803 -1.277603
sample estimates:
mean in group Extrinsic mean in group Intrinsic
               15.73913                19.88333
```

```r
t.test(Score ~ Treatment,var.equal=TRUE)
```

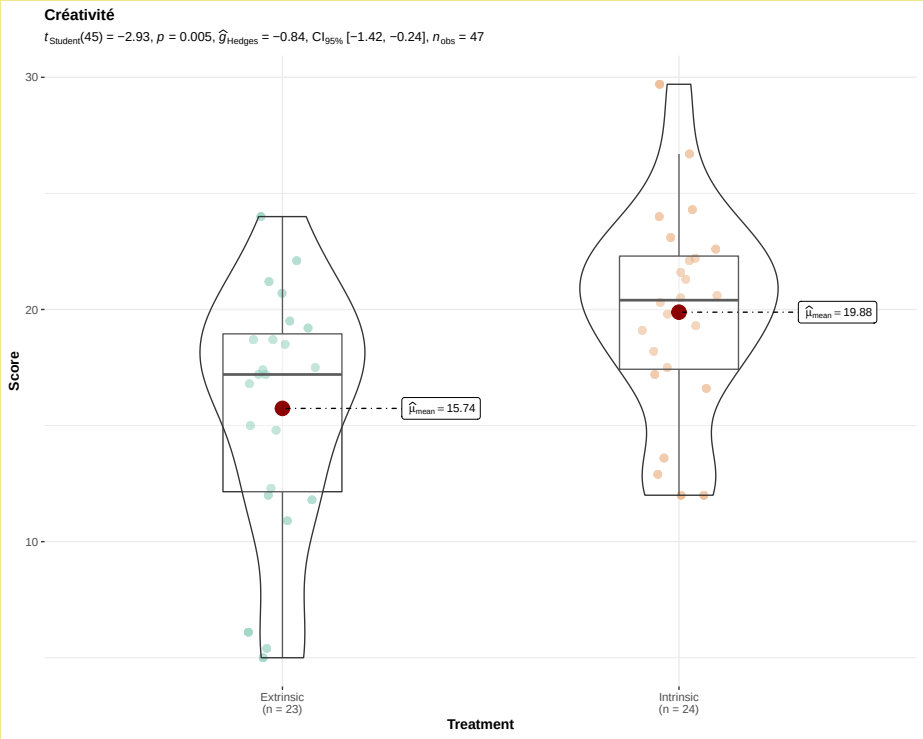
```
    Two Sample t-test

data:  Score by Treatment
t = -2.9259, df = 45, p-value = 0.005366
alternative hypothesis: true difference in means between group Extri
95 percent confidence interval:
 -6.996973 -1.291432
sample estimates:
mean in group Extrinsic mean in group Intrinsic
               15.73913                19.88333
```

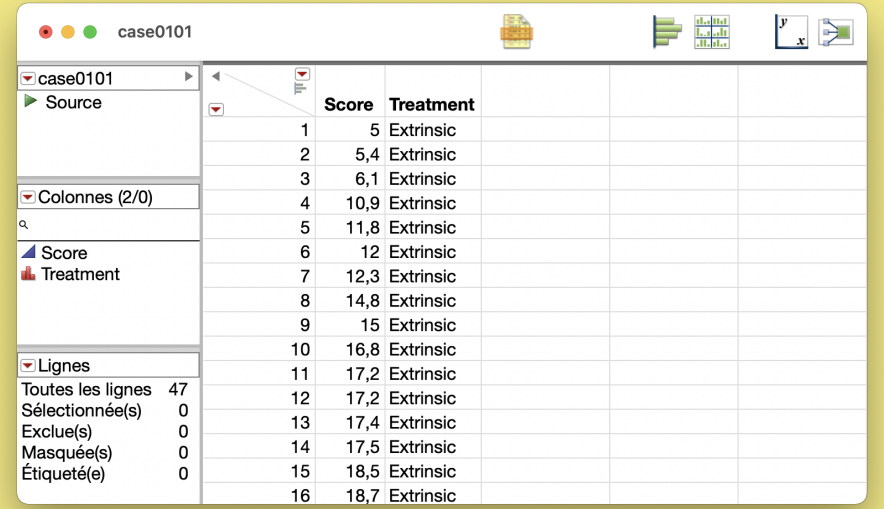
Autre solution:

```
install.packages("ggstatsplot")
library(ggstatsplot)

ggstatsplot::ggbetweenstats(
  title = "Créativité",
  data = case0101,
  x = Treatment,
  y = Score,
  bf.message = FALSE,
  var.equal = TRUE,
)
```


Créativité
$t_{Student}(45) = -2.93$, $p = 0.005$, $\hat{g}_{Hedges} = -0.84$, $CI_{95\%}$ [−1.42, −0.24], $n_{obs} = 47$
30
20
10
Score
$\hat{\mu}_{mean} = 15.74$
$\hat{\mu}_{mean} = 19.88$
Extrinsic
(n = 23)
Intrinsic
(n = 24)
Treatment

Une dernière solution : JMP.



	Score	Treatment
1	5	Extrinsic
2	5,4	Extrinsic
3	6,1	Extrinsic
4	10,9	Extrinsic
5	11,8	Extrinsic
6	12	Extrinsic
7	12,3	Extrinsic
8	14,8	Extrinsic
9	15	Extrinsic
10	16,8	Extrinsic
11	17,2	Extrinsic
12	17,2	Extrinsic
13	17,4	Extrinsic
14	17,5	Extrinsic
15	18,5	Extrinsic
16	18,7	Extrinsic