

Mesures de position et de dispersion : la pratique

```
> summary(smp.c)
```

age		prof	dep.cons		scz.cons
Min.	:19.0	ouvrier	:227	Min.	:0.0000
1st Qu.:	:28.0	sans emploi	:222	1st Qu.:	:0.0000
Median	:37.0	employé	:135	Median	:0.0000
Mean	:38.9	artisan	: 90	Mean	:0.3967
3rd Qu.:	:48.0	prof.intermédiaire:	58	3rd Qu.:	:0.0000
Max.	:83.0	(Other)	: 61	Max.	:1.0000
NA's	:2	NA's	: 6		

grav.cons		n.enfant		rs	ed	dr	
Min.	:1.000	Min.	: 0.000	Min.	:1.000	Min.	:1.000
1st Qu.:	:2.000	1st Qu.:	: 0.000	1st Qu.:	:1.000	1st Qu.:	:1.000
Median	:4.000	Median	: 1.000	Median	:2.000	Median	:2.000
Mean	:3.643	Mean	: 1.755	Mean	:2.057	Mean	:1.866
3rd Qu.:	:5.000	3rd Qu.:	: 3.000	3rd Qu.:	:3.000	3rd Qu.:	:3.000
Max.	:7.000	Max.	:13.000	Max.	:3.000	Max.	:3.000
NA's	:4	NA's	:26	NA's	:103	NA's	:107

```
> library(prettyR)
> describe(smp.c)
Description of smp.c
```

Numeric

	mean	median	var	sd	valid.n
age	38.9	37	176.4	13.28	797
dep.cons	0.3967	0	0.2396	0.4895	799
scz.cons	0.0826	0	0.07587	0.2755	799
grav.cons	3.643	4	2.726	1.651	795
n.enfant	1.755	1	3.364	1.834	773
rs	2.057	2	0.7708	0.8779	696
ed	1.866	2	0.759	0.8712	692
dr	2.153	2	0.6885	0.8297	688

Factor

prof	Value	Count	Percent
ouvrier	227	28.41	
sans emploi	222	27.78	
employé	135	16.9	
artisan	90	11.26	
prof.intermédiaire	58	7.26	
autre	31	3.88	
cadre	24	3	
agriculteur	6	0.75	
NA	6	0.75	
mode=ouvrier	Valid n=793		

```
>describe(smp.c,num.desc=c("mean","sd","median","min","max","valid.n"))
```

Description of smp.c

Numeric

	mean	sd	median	min	max	valid.n
age	38.9	13.28	37	19	83	797
dep.cons	0.3967	0.4895	0	0	1	799
scz.cons	0.0826	0.2755	0	0	1	799
grav.cons	3.643	1.651	4	1	7	795
n.enfant	1.755	1.834	1	0	13	773
rs	2.057	0.8779	2	1	3	696
ed	1.866	0.8712	2	1	3	692
dr	2.153	0.8297	2	1	3	688

Factor

prof

Value	Count	Percent
ouvrier	227	28.41
sans emploi	222	27.78
employé	135	16.9
artisan	90	11.26
prof.intermédiaire	58	7.26
autre	31	3.88
cadre	24	3
agriculteur	6	0.75
NA	6	0.75
mode=ouvrier	Valid n=793	

```
> mean(smp.c$age, na.rm=TRUE)
[1] 38.89962
> sd(smp.c$age, na.rm=TRUE)
[1] 13.28098
> table(smp.c$prof, deparse.level=2, useNA="always")
smp.c$prof
```

agriculteur	artisan	autre	cadre
6	90	31	24
employé	ouvrier	prof.intermédiaire	sans emploi
135	227	58	222
<NA>			
6			

Conclusion

Introduction à la statistique avec R > Position, dispersion : la pratique



```
summary(smp.c)
library(prettyR)
describe(smp.c)
describe(smp.c, num.desc=c("mean", "sd", "median", "min", "max", "valid.n"))
mean(smp.c$age, na.rm=TRUE)
sd(smp.c$age, na.rm=TRUE)
table(smp.c$prof, deparse.level=2, useNA="always")
```