

Descriptives

A. Blejec

July 28, 2012

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```
> X <- matrix(rnorm(100), 20, 5)
> X <- data.frame(X)
> X
```

	x1	x2	x3	x4	x5
1	-1.6917369	-1.08914132	-1.6340904	0.70391467	0.16415589
2	0.2568849	-0.79345045	-1.7784047	2.44010307	0.35022569
3	-0.9954711	0.33425467	0.2955026	-0.68601071	0.63136375
4	-0.5209567	-1.06355389	-0.1276485	0.56385014	-1.40399815
5	-0.9919356	-1.24138797	-0.5884312	-1.86365128	-0.08655559
6	0.4474462	0.81155993	-0.6098433	-0.10387433	-0.99717616
7	1.8897028	-0.90040902	0.1409157	0.31512360	1.01798485
8	-0.7572298	-2.33395593	-0.5372186	-1.00609802	1.28422547
9	1.6641061	-0.77193940	0.9385687	-0.07637296	-0.39846621
10	-0.8572075	0.16982430	-1.7596103	0.02210275	1.15889551
11	0.4774075	-1.65858278	-1.0713041	-0.78831250	-1.79350930
12	-0.7487434	0.15195946	1.1729323	0.95974279	0.59341927
13	-0.6394045	0.59786588	2.4785404	0.09529022	-1.15583414
14	0.1737142	0.07423004	-0.2392330	2.33106661	-0.28878735
15	-0.4550553	-0.26829844	-1.0764248	-2.04410904	-0.01733249
16	-0.5505300	1.54032788	0.3110202	-0.28583751	1.10817438
17	1.2514956	1.09477160	-0.7130571	1.01812243	-1.49705762
18	-0.6511257	-0.20243743	-1.2167176	-0.46663946	0.44927580
19	-1.0757231	-0.12928401	0.6432600	-0.40111470	-0.33416901
20	0.1985238	-1.39510436	-1.4699990	0.91418392	-1.01515161

```
> group <- c(rep(1, 5), rep(2, 5), rep(3, 10))
>
```

```

> desc <- data.frame(Group =unique(group))
> for(fun in c("mean", "sd", "length")){
+ stat <- aggregate(X[, 1], list(group), fun)
+ desc <- data.frame(desc, stat[, 2])
+ dimnames(desc)[[2]][dim(desc)[2]] <- fun
+ }
> desc
  Group      mean      sd length
1     1 -0.7886431 0.718413     5
2     2  0.4773636 1.295112     5
3     3 -0.2019441 0.708417    10
>

> descriptives <- function(X, group, FUN = "mean"){
+ desc <- data.frame(Group =unique(group))
+ for(fun in FUN){
+ stat <- aggregate(X, list(group), fun)
+ desc <- data.frame(desc, stat[, 2])
+ dimnames(desc)[[2]][dim(desc)[2]] <- fun
+ }
+ return(desc)
+ }

> X <- X[, 1]
> descriptives(X, group)
  Group      mean
1     1 -0.7886431
2     2  0.4773636
3     3 -0.2019441
> descriptives(X, group, c("length", "min", "max", "mean", "median"))
  Group length      min      max      mean      median
1     1     5 -1.6917369 0.2568849 -0.7886431 -0.9919356
2     2     5 -0.8572075 1.8897028  0.4773636  0.4474462
3     3    10 -1.0757231 1.2514956 -0.2019441 -0.5027926
>

```

SessionInfo

Windows 7 x64 (build 7601) Service Pack 1

- R version 2.15.1 (2012-06-22), x86_64-pc-mingw32
- Locale: LC_COLLATE=Slovenian_Slovenia.1250, LC_CTYPE=Slovenian_Slovenia.1250, LC_MONETARY=Slovenian_Slovenia.1250, LC_NUMERIC=C, LC_TIME=Slovenian_Slovenia.1250
- Base packages: base, datasets, graphics, grDevices, methods, splines, stats, utils
- Other packages: Hmisc 3.9-3, patchDVI 1.8.1584, survival 2.36-14
- Loaded via a namespace (and not attached): cluster 1.14.2, grid 2.15.1, lattice 0.20-6, tools 2.15.1

Project path: D:/_Y/R/I2R

View as vignette

Project files can be viewed by pasting this code to R console:

```
> projectName <-"I2R"; mainFile <-"descriptives"

> commandArgs()
> library(tkWidgets)
> # getrootpath <- function() {
> # fp <- (strsplit(getwd(), "/"))[[1]]
> # file <- file.path(paste(fp[-length(fp)], collapse = "/"))
> # return(file)
> # }
> # fileName <- function(name="bla", ext="PDF") paste(name, ext, sep=".")
> openPDF(file.path(dirname(getwd()), "doc", paste(mainFile, "PDF", sep=".")))
> viewVignette("viewVignette", projectName, file.path("../doc", paste(mainFile, "PDF", sep=".")))
>
```