

Introdução ao R

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Por que R?

- <http://www.r-project.org/>
- <http://sites.google.com/site/r4statistics/popularity>
- <http://bits.blogs.nytimes.com/2009/01/08/r-you-ready-for-r/>
- <http://planetr.stderr.org/>
- <http://www.r-bloggers.com/>
- <http://r-project.markmail.org/>
- [http://en.wikipedia.org/wiki/R_\(programming_language\)](http://en.wikipedia.org/wiki/R_(programming_language))
- <http://bit.ly/dGQXpL>

Primeira impressão

- Download
- Instalação
- O ambiente
- Editores

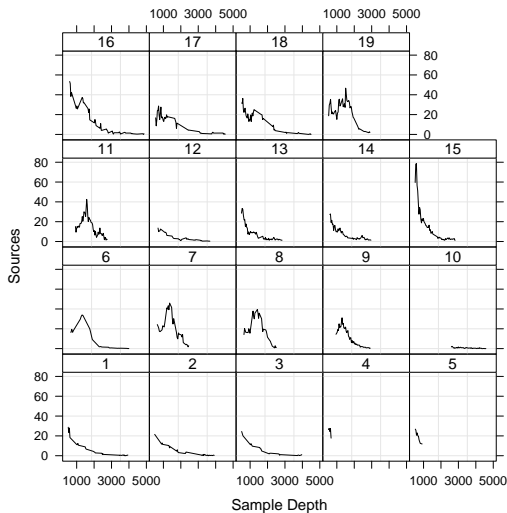
A “arte” de programar

```
ISIT<-read.table("ISIT.txt",header=TRUE)
library(lattice)
xyplot(Sources~SampleDepth|factor(Station),data=ISIT,
xlab="Sample Depth",ylab="Sources",
strip=function(bg='white', ...)
strip.default(bg='white', ...),
panel = function(x, y) {
panel.grid(h=-1, v= 2)
I1<-order(x)
llines(x[I1], y[I1],col=1)})
```

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```
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xyplot(Sources ~ SampleDepth | factor(Station),
       data=ISIT,
       xlab="Sample Depth", ylab="Sources",
       strip = function(bg='white', ...) {
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       },
       panel = function(x, y) {
         panel.grid(h=-1, v= 2)
         I1<-order(x)
         llines(x[I1], y[I1],col=1)
       })
```

A “arte” de programar



Help!

```
> `?`(boxplot)
> help(boxplot)

> str(InsectSprays)

'data.frame':      72 obs. of  2 variables:
 $ count: num   10  7 20 14 14 12 10 23 17 20 ...
 $ spray: Factor w/ 6 levels "A","B","C","D",...: 1 1 1 1 1 1 1 1 1 1 ...

> `?`(InsectSprays)
```

Packages

```
> library(lattice)
> install.packages("lattice")
> update.packages()
```


Quit! Mas...

```
> q()
> q(save = "no")
> setwd(file = "c:\\")
> getwd()
> rm(list = ls(all = TRUE))
> citation()
```