> scatter.smooth(mtcars[, c(1, 2)])

Call Frame Search Path

Call Stack

scatter.smooth(mtcars[, c(1,2)])

xy.coords()

[

x	xlab
y	ylab
span	ylim
degree	evaluation
family	...
	lpars

x
y
xlab
ylab
recycle
setLab

x
i
j
...
drop

R_GlobalEnv

namespace::base

import::stats

namespace::stats

R_GlobalEnv

namespace::base

imports::grDevices

namespace::grDevices

R_GlobalEnv

namespace::base
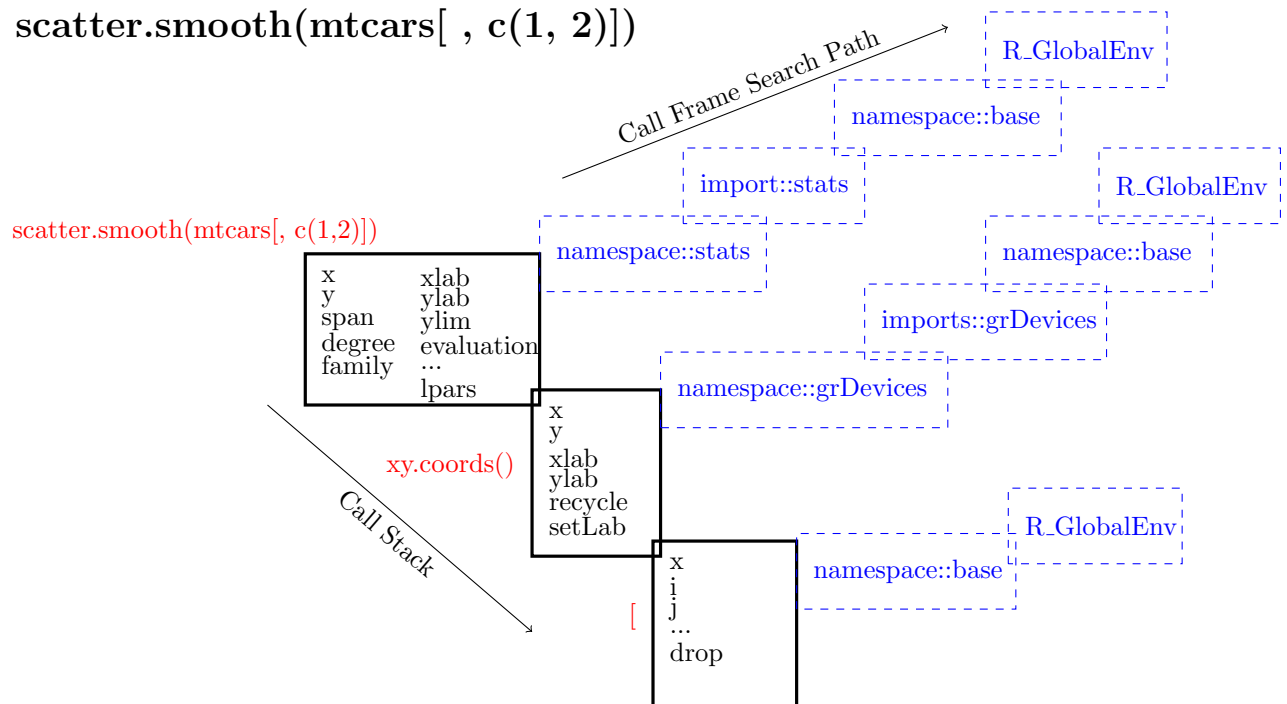
Figure 1: **The Call Stack, Call Frames and their Search Paths.** This shows the call stack for scatter.smooth(mtcars[, c(1, 2)]). scatter.smooth() calls xy.coords() and finally the argument for x in scatter.smooth is needed. Due to R's lazy evaluation, this is evaluated next, hence the call the [(mtcars, c(1, 2)). Within each of the three call frames, R searches for symbols by looking first in the call frame and then in its parent environment, and its parent environment, and so on. These environments are displayed moving from left to right and show the search through packages and their imports and their parents. Afer R_GlobalEnv, the search continues along the regular search path, i.e., the packages loaded on the seach path via require() and library().

1