Notes on RNMGraphics

Mango Solutions

August 19, 2014

This set of notes is a brief overview of the RNMGraphics package. At the moment (version 4.0-x), these are quite terse, but will be expanded upon in later releases. This is meant to give only a basic idea of how the package works.

```
> require(RNMGraphics)
```

```
Full path to configuration file:
 D:/R/R-3.0.2/library/RNMImport/configdata/NONMEM2_Variables.csv
```

All of the plot functions have the prefixes "nm". The current package includes:

nmACPlot plots a given variable in a data set against itself "lagged" by one time step.

nmBarChart generates a categorical barchart of a set of categorical variables against another one.

nmBoxPlot creates a boxplot of continuous variables against factor variables.

nmDotPlot create a custom dotplot of one or more continuous variables against a categorical variable.

nmHistogram creates histograms of one or more NONMEM variables.

nmQQNorm generates a qq-plot (for the normal distribution) from one or more NONMEM variables.

nmScatterMatrix generates a scatterplot matrix of a set of variables from a PK/PD dataset.

nmScatterPlot generates a set of scatter plots with features that are tailored for PK/PD data generated by NONMEM.

They can plot basic objects such as `data.frame`. For example:

Moreover, each function can plot `NMRun` and `NMProblem` objects generated from `RNMImport` package. For example:

```
> nmBarChart(mtcars, xVars = "cyl", yVars = "gear", bVars = "vs")
```

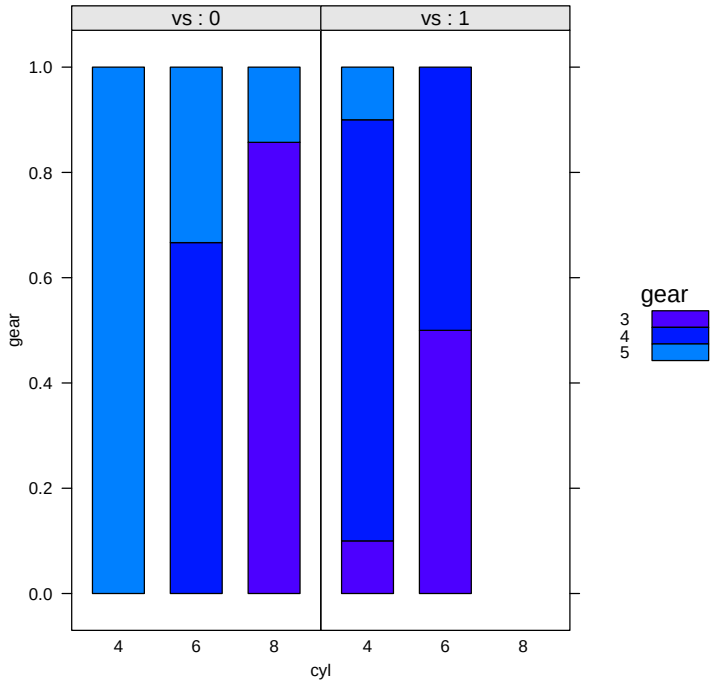

Figure 1: nmBarChart for data.frame

```
> run1 <- importNm("TestData1.ctl", path =
+   system.file("unittests", "testdata", "TestRun",
+   package = "RNMGraphics") )
> class(run1)
```

```
[1] "NMRun"
attr(,"package")
[1] "RNMImport"
```

```
> timeEventSPlot(run1, title = "Time/event", xLab = "Time",
+   yLab = "Concentration", subjectNum = 2:4)
```

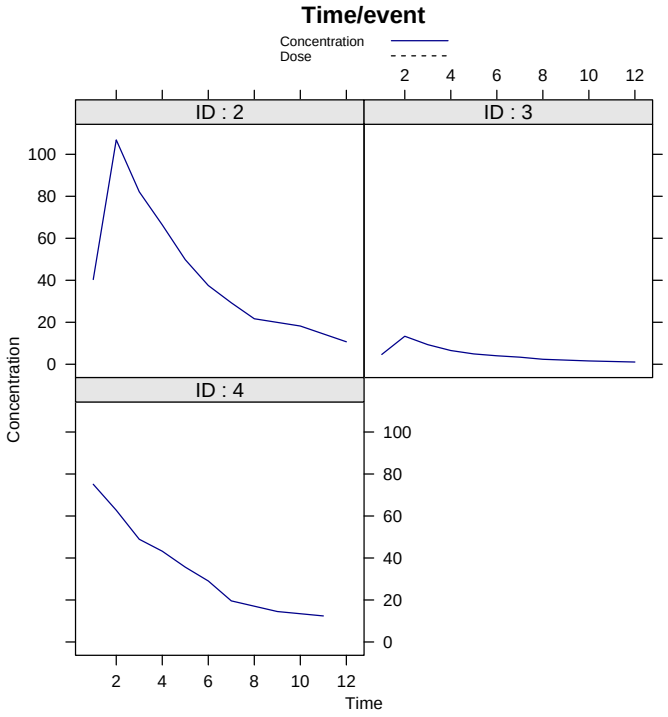

Figure 2: timeEventSPlot for NMRun object