

# iPlots 2.0

Tobias Wichtrey, Alexander Gouberman,  
Martin Theus and Simon Urbanek

The iPlots package brings interactive graphics to R. It was introduced in its first version at the DSC meeting in 2003. Version 0.9 supported only the most elementary plots like scatterplots, histograms and barcharts. The next generation iPlots 2.0 implements the full suite of interactive statistical graphics including multivariate plots such as parallel coordinates and mosaic plots. All plots are fully linked and offer interactive features like sorting/reordering, alpha-blending or custom queries with a user interface consistent across all plots.

iPlots 2.0 are Java-based and the modular approach allows us to offer multiple rendering back-ends. The user can choose to use either pure AWT, Swing or OpenGL. The latter makes interactive analysis feasible even with very large datasets. The programming interface on the R side has further been improved and enables the use of interactive plots as easily as the integrated plots in R.