Extending interactive statistical graphics

Martin Theus Simon Urbanek

Interactive graphics are often confined to fixed implementation and lack extensibility. On the other hand a programmable environment like R is the ideal platform to provide flexible extensions to existing graphics. The iPlots 2.0 package offers fully interactive, programmable objects such as rectangles, polygons, lines and points, which can be used to build custom interactive graphics with R commands alone. Each such object is linked to underlying data records, and responds in the usual way to interactions like selections, linked-highlighting or queries.

This talk gives an overview of the extensibility of iPlots 2.0 along with several examples, which illustrate the power of custom made interactive graphics. The integration of iPlots with iWidgets and JGR provides a complete toolkit to build interactive, custom applications which use R as a foundation.