Interactive RIGHT: R-Interactive-Graphics-vIa-HTml

Keyword: visualization, interactivity.

There is more and more emphasis on understanding data and turning them into knowledge as a larger amount of data become more readily available, and data visualization plays a critical role. Particularly, there has been a lot of proposals about adaptation of interactive visualization which overcomes the limitation of conventional, static visualization to make exploring and understanding large multi-faceted data even easier. The use of [D3 package](http://d3js.org/)  in New York Times articles and [Spotfire](http://spotfire.tibco.com/) are well-known examples. This trend will only accelerate as cheap, high-performance, and high-resolution computing devices, such as tablets, become more widely available.  
 I introduce RIGHT, a new R package that can deliver interactive data visualization using R and JavaScript to Web browser. Since HTML5 canvas and JavaScript can be used to create the visualization, it can be delivered to virtually any device/platform with a modern web browser. There will be three main components to realize this: (1) HTML5 and JavaScript libraries for interactive graphics; (2) R API to set up the visualization; More emphasis will be given on supporting data exploration than presentation: the package can highlight the relation among visual elements in multiple plots and facilitate downstream statistical analysis, which differentiates RIGHT from other tools such as Google Chart Tools and [googleVis](http://cran.r-project.org/web/packages/googleVis/index.html). RIGHT can also complement existing Qt-based ([cranvas](https://github.com/ggobi/cranvas)) or SVG-based ([SVGAnnotation](https://github.com/duncantl/SVGAnnotation), [gridSVG](http://sjp.co.nz/projects/gridsvg/), [SVGMapping](http://svgmapping.r-forge.r-project.org/SVG_Mapping/Home.html)) graphics packages by expanding the supported devices/platforms and by providing richer interactivity.