Sample wiki page with R code and chart generated

```r
require(gvis)
M <- gvisMotionChart(Fruits, "Fruit", "Year", options = list(width = 550, height = 450))
print(M, "chart()
```

Simple syntax highlighted & preview

Note: Remember that this is only a preview, and has not yet been saved!

1. Text output

This code:

```r
{R}1:10(R)
```

Produces:

```
[1] 1 2 3 4 5 6 7 8 9 10
```
Escaping Wiki syntax

```r
\{\texttt{wiki\_syntax:0}\}\texttt{cat(``hello``')}\texttt{[\R]}
```

```
\_hello__
```

Parsing Wiki Syntax

```r
\{\texttt{wiki\_syntax:1}\}\texttt{cat(``hello``')}\texttt{[\R]}
```

```
hello
```

Simple Interface: list runs/datasets

<table>
<thead>
<tr>
<th>Summary</th>
<th>Description</th>
<th>From user</th>
<th>Dataset minimum value for axis X</th>
<th>Maximum value for axis X</th>
<th>LastModif</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sample dataset</td>
<td>This dataset was created as part of the sample data for r.test.</td>
<td>admin</td>
<td>1</td>
<td>10</td>
<td>2013-08-30 17:37</td>
</tr>
<tr>
<td>We are working on this dataset</td>
<td>This will soon be changed</td>
<td>admin</td>
<td>21</td>
<td>30</td>
<td>2012-05-11 16:57</td>
</tr>
<tr>
<td>A really old dataset</td>
<td>This dataset is outdated.</td>
<td>admin</td>
<td>100</td>
<td>110</td>
<td>2012-05-11 16:57</td>
</tr>
</tbody>
</table>
Simple interface: Results for one run/dataset

Results

Values for X:
min: 1
max: 10

Those are the results:

Results from 1*10: 10
No attachment to display in this raw dataset

Graph with xmin 1 & xmax 10 and y=x^2

Simple templates for custom output
Flexible databases in Trackers to hold run parameters

Optional pop up helpers to edit plugin calls based on GUI

1. Basic implementation

```r
if(require(Cairo)){
  x <- rnorm(10)
  y <- x * x
  plot(x, y)
  install.packages("Cairo", repos="http://ftp.heanet.ie/mirrors/cran.r-project.org")
}
```
Nice word clouds from just a few lines of R code

Custom maps with GoogleVis

```
G5 <- gvizGeoMap(CiudadPopular, locationvar="Ciudad", numvar="Popular",
                 options=list(region="ES", height=350,
                                dataMode="markers",
                                colors=[0xFF8747, 0xFFF851, 0x060000])

# plot(G5)
print(G5, "chart")
```

Spanish city popularity after UseR!2013 ;-)
Embedded plot.ly charts
Fun with the Lognormal distribution

Embedded plot.ly charts: Heatmaps
Mobile display mode when needed

**rCharts**

**rCharts** is an R package to create, customize and publish interactive javascript visualizations from R using a familiar lattice style plotting interface. It has been created by [Ramanath Valiyathan](http://rcharts.io/). See more here: [http://rcharts.io/](http://rcharts.io/)

Below you will find a series of examples of nice charts using rcharts and the corresponding javascript library used in each case.

**Page contents:**

- Introduction
- Examples
- Credits
- License
rCharts Interactive figures: NYT 512 Paths to White House

Obama has 106 ways to win
83% of paths

Romney has 18 ways to win
14% of paths

4 ties
3.1% of paths

rCharts: show data on hover & control vars. displayed

Toggle display of variables by clicking on them in legend
rCharts: Easy creation of georeferenced custom maps

```r
map3 <- Leaflet$new()
map3$setView(c(51.505, -0.09), zoom = 13)
map3$marker(c(51.5, -0.09), bindPopup = "Hi, I am a popup")
map3$marker(c(51.495, -0.083), bindPopup = "Hi, I am another popup")
map3$print("chart3")
map3$save("map3.html")
```

rCharts: Interactive magnification of figure regions

```r
n2 <- nPlot(Sepal.Length ~ Sepal.Width, data = sepal, type = "scatterChart",
group = "Species")
n2$XAxis(axisLabel = "Sepal.Width") # add x axis label
n2$YAxis(axisLabel = "Sepal.Length")
#n2$print("nvd3Scatter")

n2$save("n2.html")
```
rCharts: Select time range on X and vars on Y

move slider ends on X axis to filter on new time frame and toggle variables clicking on legend

Clickme: Interactive filtering charts by point names

Groups Show one
- A (168)
- B (165)
- C (167)
Clickme: highlight data points with partial filter match

- **INSIG2**
  - Significance (-log10): 3.62
  - Fold-change (log2): -0.72
  - Probe: A_33_P3321342
  - Groups: Noise

- **Groups**
  - Noise (279)
  - Significant (221)

Animation in time-based charts

- Violent Crime Rate in Decade 1961-1970
  - Crime Rate: Low, Medium, High
  - Interactive Map of the United States
Ecoengine: distribution maps based on database records

Ecoengine: Photo viewer based on remote ecological data

<table>
<thead>
<tr>
<th>Photo</th>
<th>Authors</th>
<th>County</th>
<th>Notes</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bill</td>
<td>Big Sur,</td>
<td></td>
<td>2010-11-01</td>
</tr>
<tr>
<td></td>
<td>Stagnaro</td>
<td>Monterey County</td>
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