Table of Contents
Sample wiki page with R code and chart generated

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

![](chart.png)

**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
[[R://wikisyntax]]cat("__hello__")[[R]]
```

__hello__

Parsing Wiki Syntax

```r
[[R://wikisyntax]]cat("__hello__")[[R]]
```

```r
hello
```

Simple Interface: list runs/datasets

<table>
<thead>
<tr>
<th>Summary</th>
<th>Description</th>
<th>From user</th>
<th>File</th>
<th>Minimum value for axis X</th>
<th>Maximum value for axis X</th>
<th>Last Modif</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>
<td></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>
<td></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This dataset is outdated.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>
<td></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

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>Type</th>
<th>List Title Search</th>
<th>Public</th>
<th>Mandatory</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Summary</td>
<td>Text Field</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>2</td>
<td>Description</td>
<td>Text Area</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>From user</td>
<td>User Selector</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>4</td>
<td>Dataset file</td>
<td>Attachment</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>5</td>
<td>Minimum value for axis X</td>
<td>Text Field</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
<tr>
<td>6</td>
<td>Maximum value for axis X</td>
<td>Text Field</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Save All▼  Go

Add Field

Optional pop up helpers to edit plugin calls based on GUI

1. Basic image

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

Custom maps with GoogleVis

```r
G5 <- gvvisGeoMap(CiudadPopular, locationvar="Ciudad", numvar="Popular",
                  options=list(region="ES", height=350,
                                 dataMode="markers",
                                 colors=[0xFF8747, 0xFFB551, 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
Custom output for higher control on figure results (pdf)

```r
10 device.height = convertHeight(sum(g[["heights"]]), "in", valueOnly=TRUE)
11 pdf("test.pdf", height = device.height)
12 grid.draw(g)
13 invisible(dev.off())
```

*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 Vaithyanathan](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
Romney has 18 ways to win

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$referer("http://r.tiki.org/charts_libraries/leaflet")
map3$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$lib2 <- "http://r.tiki.org/charts_libraries/nvd3"
n2$sav("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

Show names (500)

b

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

Show names (500)

Groups
- Noise (279)
- Significant (221)

Animation in time-based charts

Violent Crime Rate in Decade 1961-1970

Crime Rate
- Low
- Medium
- High

(map of the United States with crime rate indications)

[control panel for animation]
Ecoengine: distribution maps based on database records

Ecoengine: Photo viewer based on remote ecological data