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()"
```

Simple syntax highlighted & preview

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

1. Text output

This code:

```r
1:10
```

Produces:

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

\{(R|wikisyntax\textasciitilde\textasciitilde 0)|\texttt{cat("_hello_")}|(R)\}

_hello_

Parsing Wiki Syntax

\{(R|wikisyntax\textasciitilde\textasciitilde 1)|\texttt{cat("_hello_")}|(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>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></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></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This dataset is outdated.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></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

Describe the change you made: 

Monitor this page: 

Preview  Save  Cancel Edit
Flexible databases in Trackers to hold run parameters

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>Type</th>
<th>List Title</th>
<th>Search 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>☒</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>✔</td>
</tr>
<tr>
<td>4</td>
<td>Dataset file</td>
<td>Attachment</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>5</td>
<td>Minimum value for axis X</td>
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<td>✔</td>
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<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>

Optional pop up helpers to edit plugin calls based on GUI

1. Basic image

```
RR (R syntax also)

- Same as PluginR, but allowing the execution of potentially dangerous commands once the admin has validate
- echo
- wikisyntax
- LoadAndSave

R Code
```

```
1. if(require(Cairo)){
2.   install.packages("Cairo", repos="http://ftp.heanet.ie/mirrors/cran.r-project.org")
3. }
```

```
1. x <- seq(1:10)
2. y <- x*x
3. plot(x,y)
```
Nice word clouds from just a few lines of R code

Custom maps with GoogleVis

```r
G5 <- gvisGeoMap(CiudadPopular, locationvar="Ciudad", numvar="Popular", 
                 options=list(regions="ES", height=350, 
                               dataMode="markers", 
                               colors=[0xFF8747, 0xFFF581, 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
device.height = convertHeight(sum(g[["heights"]]), "in", valueOnly=TRUE)
pdf("testr.pdf", height = device.height)
grid.draw(g)
invisible(dev.off())
```

Mobile display mode when needed

**bigger font size and buttons for human fingers in mobile devices**

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**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://ramnathv.com). 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

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, -0.063), bindPopup = "Hi, I am another popup")
map3$setView(c(51.505, -0.09), zoom = 13)
map3$marker(c(51.5, -0.09), bindPopup = "Hi, I am a popup")
map3$setView(c(51.495, -0.063), bindPopup = "Hi, I am another popup")
map$save("map3.html")
```

rCharts: Interactive magnification of figure regions

```r
n2 <- nPlot(Sepal.Length ~ Sepal.Width, data = sepal, type = "scatterChart",
group = "Species")
n2xAxis(axisLabel = "Sepal.Width") # add x axis label
n2yAxis(axisLabel = "Sepal.Length")
#n2print("nvd3Scatter")
n2$save("n2.html")
```

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![Map Image](Image1)

![Magnification Image](Image2)
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
Clickme: highlight data points with partial filter match

Animation in time-based charts
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>Bill</td>
<td>Stagnaro</td>
<td>Big Sur, Monterey County</td>
<td>2010-11-01</td>
<td></td>
</tr>
</tbody>
</table>

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