Sample wiki page with R code and chart generated

```
R Code
1. require(gvisVis)
2. M <- gvisMotionChart(Fruits, "Fruit", "Year", options = list(width = 550,
3. height = 450))
4. 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
```n

Produces:

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

```r
[[R[wiki=0]]]
cat("\_hello\_")\n```

```
_hello_
```

Parsing Wiki Syntax

```r
[[R[wiki=1]]]
cat("\_hello\_")\n```

```
hello
```

Simple Interface: list runs/datasets

![List raw datasets](image)

<table>
<thead>
<tr>
<th>Summary</th>
<th>Description</th>
<th>From user</th>
<th>Dataset</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This dataset is outdated.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**

![Graph](image)

**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</th>
<th>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>✓</td>
<td>✗</td>
</tr>
<tr>
<td>2</td>
<td>Description</td>
<td>Text Area</td>
<td></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>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Dataset file</td>
<td>Attachment</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Minimum value for axis X</td>
<td>Text Field</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></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>
<td></td>
</tr>
</tbody>
</table>

Save All  Go
Add Field

Optional pop up helpers to edit plugin calls based on GUI

1. Basic image

RR (R syntax also)

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

LoadAndSave

Yes

Load previous R user session (.RData, if any) for the same wiki page so that R object will be used while you save objects. If the same R session data (.RData) will be shared for the same login account.
Nice word clouds from just a few lines of R code

Custom maps with GoogleVis

```r
G5 <- visGeoMap(CiudadPopular, locationvar="Ciudad", numvar="Popular",
    options=list(region="ES", height=350,
    dataMode="markers",
    colors=[0xFF8747, 0xFFB581, 0x0c0680])

# 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("testr.pdf", height = device.height)
12 grid.draw(g)
13 invisible(dev.off())
```

Mobile display mode when needed

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

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 Valiyavanathan](http://www.rcharts.io/). See more here: [http://rcharts.io/](http://rcharts.io/)

Below you will find a series of examples of nice charts using rcharts http://rcharts.io 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

If Obama wins North Carolina...

and Wisconsin...

Obama wins.

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$print("chart7")
map3$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")
```

```r
n2$LIB[2] <- "http://r.tiki.org/rcharts_libraries/nvd3"
n2$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**

- A (168)
- B (165)
- C (167)
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></td>
<td>Bill</td>
<td>Big Sur</td>
<td></td>
<td>2010-11-01</td>
</tr>
<tr>
<td></td>
<td>Stagnaro</td>
<td>Monterey</td>
<td>County</td>
<td></td>
</tr>
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