Sample wiki page with R code and chart generated

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

```
(1:10)
```

Produces:

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

\[\text{\_\_hello\_\_}\text{\_\_}]

Parsing Wiki Syntax

\[\text{\_\_hello\_\_}\text{\_\_}]

Simple Interface: list runs/datasets

<table>
<thead>
<tr>
<th>Summary</th>
<th>Description</th>
<th>From user</th>
<th>Dataset file</th>
<th>Minimum value for axis X</th>
<th>Maximum value for axis X</th>
<th>LastModif</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sample dataset</strong></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>10</td>
<td>2013-08-30 30 17:37</td>
</tr>
<tr>
<td><strong>We are working on this dataset</strong></td>
<td>This will soon be changed</td>
<td>admin</td>
<td>21</td>
<td>30</td>
<td>30</td>
<td>2012-05-11 16:57</td>
</tr>
<tr>
<td><strong>A really old dataset</strong></td>
<td>This dataset is outdated.</td>
<td>admin</td>
<td>100</td>
<td>110</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
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>
<td>Text Field</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>
</tr>
</tbody>
</table>

Save All  Go
Add Field

Optional pop up helpers to edit plugin calls based on GUI

1. Basic image

```
RR Code:
1 if(require(Cairo)){
2   install.packages()
3 }
```

```
R Code
1 y <- x^x
2 plot(x,y)
3
```

RR (R syntax also)

Same as PluginR, but allowing the execution of potentially dangerous commands once the admin has validated

- echo: Show a code block with the R commands to be run before running them (similarly to the echo command)
- wikisyntax: Choose whether the output should be parsed as wiki syntax (Optional). Options: 0 (no parsing, default), 1 (parse)
- LoadAndSave: Load a previous R user session (.RData, if any) for the same wiki page so that R object will be used while you
  keep editing the page (wiki pages with .RData), the R session data (.RData) will be shared for the same libmid across

R Code
1 if(require(Cairo)){
2   install.packages("Cairo", repos="http://ftp.heanet.ie/mirrors/CRAN.R-project.org")
3 }
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(region="ES", height=350), dataMode="markers", colors=[0xFF8747, 0xFFB551, 0x06000F])

# 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

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 Ramanth Vidyaranathan. See more here: 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

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$setURL("http://r.tiki.org/rchartsibraries/leaflet")
map3$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")
```

---

```r
n2$lib[2] <- "http://r.tiki.org/rchartslibraries/nvd3"
n2$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
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

Map of the United States with states color-coded according to crime rate.
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, Monterey County</td>
<td></td>
<td>2010-11-01</td>
</tr>
<tr>
<td></td>
<td>Stagnaro</td>
<td></td>
<td></td>
<td></td>
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