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

```
R Code
1: require(googleVis)
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(R)
```

Produces:

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

```r
[[wikisyntax==0]]cat("_hello_")[[R]]
```

```
_hello_
```

* Parsing Wiki Syntax

```r
[[wikisyntax==1]]cat("_hello_")[[R]]
```

```
hello
```

* Simple Interface: list runs/datasets

![List raw datasets](image)

- **List raw 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>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This dataset is outdated.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

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")
}
```
Custom maps with GoogleVis

```r
G5 <- gvisGeoMap(CiudadPopular, locationvar="Ciudad", numvar="Popular", options=list(region="ES", height=350,
dataMode="markers", colors=[0xFF8747, 0xFF6B51, 0xc00600]))

# 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

x: Wednesday
y: Afternoon
z: 50
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

**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 Ramnath Vaidyanathan. 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$setView(c(51.505, -0.09), zoom = 13)
map3$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")
```

```r
#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
Click me: highlight data points with partial filter match

- **INSIG2**
  - Significance (-log10): 3.62
  - Fold-change (log2): -0.72
  - Probe: A_33_P3321342
  - Groups:
    - Noise (279)
    - Significant (221)

**Animation in time-based charts**

- Map of the United States showing crime rate for the decades 1961-1970 with colors representing different crime rates:
  - Green: Low
  - Orange: Medium
  - Red: High

- Interactive map controls for looping and speed adjustments.
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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