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Sample wiki page with R code and chart generated

```
R Code
1 require(gvis)
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:

```
(R())1:10(R)
```

Produces:

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

```r
[[wikisyntax]]cat("\_hello\_\_")[[r]]
```

```
__hello__
```

Parsing Wiki Syntax

```r
{{wikisyntax}}cat("__hello__"){{r}}
```

```r
\texttt{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 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This dataset is outdated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:
Flexible databases in Trackers to hold run parameters

- Optional pop up helpers to edit plugin calls based on GUI

1. Basic implementation

```R
layout(RR)
```

```R
if(require(Cairo)){
  install.packages("Cairo", repos="http://ftp.heanet.ie/mirrors/cran.r-project.org/")
}
```
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, 0xFFFF51, 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("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 Valiyathan. 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)

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
library(Leaflet)
map3 <- leaflet()
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("chart(7)")
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")
#n2print("nvd3Scatter")

n2$save("n2.html")
```
rCharts: Select time range on X and vars on Y

Clickme: Interactive filtering charts by point names

move slider ends on X axis to filter on new time frame and toggle variables clicking on legend
Clickme: highlight data points with partial filter match

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INSIG2</strong></td>
<td></td>
</tr>
<tr>
<td>Significance (-log10)</td>
<td>3.62</td>
</tr>
<tr>
<td>Fold-change (log2)</td>
<td>-0.72</td>
</tr>
<tr>
<td>Probe</td>
<td>A_33_P3321342</td>
</tr>
<tr>
<td>Groups</td>
<td>Noise</td>
</tr>
</tbody>
</table>

Show names (500)

- Noise (279)
- Significant (221)

Animation in time-based charts

**Violent Crime Rate in Decade 1961-1970**

- **CrimeRate**
  - Low
  - Medium
  - High

Map of the United States with states colored according to their crime rate.