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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
```

Produces:

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

```
(P\(\text{wiki syntax}\rightarrow\text{O}\))\text{cat}("__hello__")\(P\)
```

__hello__

Parsing Wiki Syntax

```
(P\(\text{wiki syntax}\rightarrow\text{1}\))\text{cat}("__hello__")\(P\)
```

hello

Simple Interface: list runs/datasets

<table>
<thead>
<tr>
<th>List raw datasets</th>
<th>Results</th>
<th>Edit dataset (if chosen)</th>
<th>Insert new dataset</th>
<th>No Tabs</th>
</tr>
</thead>
</table>

### 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This dataset is outdated.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

---

**Simple templates for custom output**

```plaintext
Values for X:
- min: \( \text{\$f_5\} \)
- max: \( \text{\$f_6\} \)

Those are the results

Graph with xmin 1 & xmax 10 and y=x^2
```

---

**Edit page**

**Properties**

---

**Change Highlighter**

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

RR (R syntax also)

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

R Code

```r
x <- rnorm(10)
y <- x*x
plot(x,y)
```
Custom maps with GoogleVis

```r
G5 <- gvisGeoMap(CiudadPopular, locationvar = "Ciudad", numvar = "Popular", 
                  options = list(region = "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**

**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 Valiyarathan. 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 4 ties Romney has 18 ways to win

83% of paths 3.1% of paths 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$addTo(Leaflet(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")
```

```
<http://r.tiki.org/rcharts_libraries/leaflet>
```

```
<http://r.tiki.org/rcharts_libraries/nvd3>
```

```
<http://r.tiki.org/rcharts_libraries/nvd3>
```
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

INSIG2
Significance (-log10) 3.62
Fold-change (log2) -0.72
Probe A_33_P3321342
Groups Noise

Show names (500)
ins
Groups
○ Noise (279)
○ Significant (221)

Animation in time-based charts

Violent Crime Rate in Decade 1961-1970
CrimeRate Low Medium High
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>
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