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Sample wiki page with R code and chart generated

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
\[ \text{\texttt{\textbackslash{\_\textbackslash{\_}\_hello\_\_\_}}} \]
```

**Parsing Wiki Syntax**

```r
\[ \text{\texttt{\_\_hello\_\_\_}}} \]
```

**Simple Interface: list runs/datasets**

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This dataset is outdated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

*No Tags*
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

Optional pop up helpers to edit plugin calls based on GUI

1. Basic image

RR (R syntax also)

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

- **echo**
  - **Yes**
  - Show a code block with the R commands to be run before running them (similar to the echo command)

- **wikisyntax**
  - Choose whether the output should be parsed as wiki syntax (Optional). Options: 0 (no parsing, default), 1 (yes parsing)

- **LoadAndSave**
  - **Yes**
  - Load a previous R user session (.RData, if any) for the same wiki page so that R object will be used while you're in the page. If the object is not loaded, the R session data (.RData) will be shared for the same cohort across different sessions.

R Code

1. if(require(Cairo)) {
2.   install.packages("Cairo", repos="http://ftp.heanet.ie/mirrors/cran.r-project.org/")
3. }

```R
1 x <- c(1:10)
2 y <- x^3
3 plot(x,y)
```
Nice word clouds from just a few lines of R code

Custom maps with GoogleVis

```
G5 <- googleGeoMap(CiudadPopular, locationvar="Ciudad", numvar="Popular",
options=list(region="ES", height=350,
dataMode="markers",
colors=[0xFF8747, 0xFFB551, 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
Mobile display mode when needed

**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/](http://rcharts.io/)

Below you will find a series of examples of nice charts using *rcharts* [http://rcharts.io](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$setUrl("http://r.tiki.org/charts_libraries/leaflet")
map3$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$print("nvd3Scatter")
n2$save("n2.html")
```

![Map with georeferenced markers](image1)

![Interactive magnification of figure regions](image2)
**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**

O Show names (500)

© 2005-2023 Clickme.com

Groups Show one

- A (168)
- B (165)
- C (167)
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
  - CrimeRate
  - Low, Medium, High
Ecoengine: distribution maps based on database records

Ecoengine: Photo viewer based on remote ecological data