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Simple syntax highlighted & preview

1. Text output

This code:

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

Produces:

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

`\[ (\text{wiki syntax} \Rightarrow 0) \text{cat}("\_\_\_\_\_\_\_) \]`[R]

**hello**

Parsing Wiki Syntax

`(R(wikisyntax=>1))\text{cat}("\_\_\_\_\_\_\_\_)`[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>LastModified</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>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>10</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This dataset is outdated.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>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**

```{wikitext}
Values for X:
- min: \(x_5\)
- max: \(x_6\)

Those are the results

\begin{align*}
\text{results} &\leftarrow (x_5)(x_6) \\
\text{plot}(x, y)
\end{align*}
```

---

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 image
Nice word clouds from just a few lines of R code

Custom maps with GoogleVis

```r
G5 <- googleGeoMap(CiudadPopular, locationvar="Ciudad", numvar="Popular", options=list(region="ES", height=350, dataMode="markers", colors=[0xFF8747, 0xFFB531, 0x006000]))

# 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: 60
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 Vaithyanathan. 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

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$setUrl("http://r.tiki.org/rcharts/libraries/leaflet")
map3$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")

n2LIB[2] <- "http://r.tiki.org/rcharts_libraries/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

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

Show names (500)

Groups
! Noise (279)
! Significant (221)

Animation in time-based charts

Violent Crime Rate in Decade 1961-1970

CrimeRate
Low Medium High

-0.8 -0.6 -0.4 -0.2 0 0.2 0.4 0.6 0.8
Ecoengine: distribution maps based on database records

Ecoengine: Photo viewer based on remote ecological data