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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:

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

```
(R:wikisyntax="hello")\{cat("\_\_\_\_hello\_\_\_\_\")\}
```

```
_hello_
```

•

Parsing Wiki Syntax

```
(R:wikisyntax="hello")\{cat("\_\_\_\_hello\_\_\_\_\")\}
```

```
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>
</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</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This dataset is outdated.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")
}
```

```r
x <- seq(1:10)
y <- x^2
plot(x,y)
```
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, 0xFFF851, 0xFF6000])

# 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
device.height = convertHeight(sum(g(values)[heights]), "in", valueOnly=TRUE)
pdf("test.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 [Ramanth Vaidyanathan](http://www.rcharts.io/). 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
Romney has 18 ways to win

rCharts: show data on hover & control vars. displayed
rCharts: Easy creation of georeferenced custom maps

```r
map3 <- Leaflet$new()
mmap3view(c(51.505, -0.09), zoom = 13)
mmap3marker(c(51.5, -0.09), bindPopup = "Hi, I am a popup")
mmap3marker(c(51.495, -0.063), bindPopup = "Hi, I am another popup")
map3print("chart3")
map3html("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")
```

---

```r
n2$Lib2 <- http://r.tiki.org/rcharts_libraries/nvd3"
n2$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

Animation in time-based charts
Ecoengine: distribution maps based on database records

Ecoengine: Photo viewer based on remote ecological data