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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:

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

```r
[[R(wikisyntax==0)cat("\_hello\_")]()]
```

**hello**

**Parsing Wiki Syntax**

```r
[[R(wikisyntax==1)cat("\_hello\_")]()]
```

**hello**

**Simple Interface: list runs/datasets**

![List raw datasets table](image)

- **Sample dataset**: This dataset was created as part of the sample data for r_test.
  - **From user**: admin
  - **Dataset Minimum value for axis X**: 1
  - **Maximum value for axis X**: 10
  - **LastModif**: 2013-08-30 17:37

- **We are working on this dataset**: This will soon be changed.
  - **From user**: admin
  - **Dataset Minimum value for axis X**: 21
  - **Maximum value for axis X**: 30
  - **LastModif**: 2012-05-11 16:57

- **A really old dataset**: This dataset is outdated.
  - **From user**: admin
  - **Dataset Minimum value for axis X**: 100
  - **Maximum value for axis X**: 110
  - **LastModif**: 2012-05-11 16:57
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 imaging

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

```R
# Load previous R session (.RData, if any) for the same wiki page so that R object will be used while
# the trackers are used (wiki pages with .bomid), the R session data (.RData) will be shared for the same
# .bomid across users.
```
Nice word clouds from just a few lines of R code

Custom maps with GoogleVis

```r
G5 <- gvisGeoMap(CiudadPopular, locationvar='Ciudad', numvar='Popular',
                  options=list(region='ES', height=350,
                                dataMode='markers',
                                colors=[0xFF8747, 0xFFB581, 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 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

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$print("chart3")
map3$save("map3.html")
```

---

rCharts: Interactive magnification of figure regions

```r
n2 <- nPlot(Sepal.Length ~ Sepal.Width, data = sepal, type = "scatterChart",
group = "Species")
n2$Axis(axisLabel = "Sepal.Width") # add x axis label
n2$Axis(axisLabel = "Sepal.Length")
#n2$print("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

Show names (500)

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

CrimeType: Low, Medium, High

Map of the United States with states colored based on crime rate.
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>
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<tbody>
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<td>2010-11-01</td>
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<tr>
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<td>Stagnaro</td>
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