Simple syntax highlighted & preview

Note: Remember that this is only a preview, and has not yet been saved!

1. Text output

This code:

\{
R()
\}

\{R\}1:10\{R\}

Produces:

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

```markdown
**hello**
```

Parsing Wiki Syntax

```markdown
**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
  - Minimum value for axis X: 1
  - Maximum value for axis X: 10
  - Last Modified: 2013-08-30 17:37
- We are working on this dataset: This will soon be changed.
  - From user: admin
  - Minimum value for axis X: 21
  - Maximum value for axis X: 30
  - Last Modified: 2012-05-11 16:57
- A really old dataset: This dataset is outdated.
  - From user: admin
  - Minimum value for axis X: 100
  - Maximum value for axis X: 110
  - Last Modified: 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 image

```
RR (R syntax also)

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

echo

Show a code block with the R commands to be run before running them (similarly to the echo command)

wikisyntax

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

LoadAndSave

Load a previous R session (.RData, if any) for the same wiki page so that R object will be used while you editors are used (wiki pages with loadAndSave). The R session data (.RData) will be shared for the same loadAndSave account

R Code

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

Custom maps with GoogleVis

```r
G5 <- gvisGeoMap(data = 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("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. 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 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

```
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, -0.053), bindPopup = "Hi, I am another popup")
map3$setView(c(51.505, -0.09), zoom = 13)
map3$save("map3.html")
```

rCharts: Interactive magnification of figure regions

```
n2 <- nPlot(Sepal.Length ~ Sepal.Width, data = sepal, type = "scatterChart",
group = "Species")
n2$addAxis(axisLabel = "Sepal.Width") # add x axis label
n2$addAxis(axisLabel = "Sepal.Length")
n2prints("nvd3Scatter")
n2$save("n2.html")
n2$setView(c(51.505, -0.09), zoom = 13)
```

- [Map](http://r.tiki.org/charts_libraries/leaflet)
- [Figure](http://r.tiki.org/charts_libraries/nvd3)
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)
  - ins

- Groups:
  - Noise (279)
  - Significant (221)

Animation in time-based charts

Violent Crime Rate in Decade 1961-1970

- CrimeRate: Low, Medium, High
- Map of the United States with states color-coded according to 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>
</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>
<td></td>
</tr>
</tbody>
</table>

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