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

```markdown
____hello__
```

Parsing Wiki Syntax

```markdown
{|R(wikisyntax=>0)|cat("____hello__")|}
```

```markdown
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>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>2013-08-30 17:37</td>
<td></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>
<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This dataset is outdated.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

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>Type</th>
<th>List Title</th>
<th>Search Public</th>
<th>Mandatory</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Summary</td>
<td>Text Field</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>×</td>
</tr>
<tr>
<td>2</td>
<td>Description</td>
<td>Text Area</td>
<td></td>
<td>✔</td>
<td></td>
<td>×</td>
</tr>
<tr>
<td>3</td>
<td>From user</td>
<td>User Selector</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>×</td>
</tr>
<tr>
<td>4</td>
<td>Dataset file</td>
<td>Attachment</td>
<td></td>
<td>✔</td>
<td></td>
<td>×</td>
</tr>
<tr>
<td>5</td>
<td>Minimum value for axis X</td>
<td>Text Field</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>×</td>
</tr>
<tr>
<td>6</td>
<td>Maximum value for axis X</td>
<td>Text Field</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>×</td>
</tr>
</tbody>
</table>

Save All ▼ Go

Optional pop up helpers to edit plugin calls based on GUI

1. Basic

RR (R syntax also)

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

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

```R
x<-seq(1:10)
y<-x*x
plot(x,y)
```

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

Wiki Syntax

Choose whether the output should be parsed as wiki syntax (Optional). Options: 0 (no parsing, default), 1 (parsing).
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, 0xFFB571, 0x066000]))

# 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, -0.063), bindPopup = "Hi. I am another popup")
map3$setView(c(51.5, -0.09), zoom = 13)
map3$setView(c(51.505, -0.09), zoom = 13)
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")
```
**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

- **Show names (500)**
  - b

- **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

Crime Rate: Low, Medium, High

Map of the United States with颜色表示犯罪率
Ecoengine: distribution maps based on database records

Ecoengine: Photo viewer based on remote ecological data

<table>
<thead>
<tr>
<th>Authors</th>
<th>County</th>
<th>Notes</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bill</td>
<td>Big Sur, Monterey County</td>
<td></td>
<td>2010-11-01</td>
</tr>
<tr>
<td>Stagnaro</td>
<td>Monterey County</td>
<td></td>
<td></td>
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