Table of Contents
1. Text output

This code:

```r
1:10
```

Produces:

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

```r
[[[wikisyntax==0]cat("__hello__")]]
```

__hello__

Parsing Wiki Syntax

```r
{[[wikisyntax==1]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>
<tbody>
<tr>
<td><img src="image" alt="List raw datasets table" /></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<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This dataset is outdated.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

Describe the change you made: 🌟

Monitor this page: ☑
Flexible databases in Trackers to hold run parameters

<table>
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>Type</th>
<th>List Title Search</th>
<th>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>x</td>
</tr>
<tr>
<td>2</td>
<td>Description</td>
<td>Text Area</td>
<td>easy</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>x</td>
</tr>
<tr>
<td>6</td>
<td>Maximum value for axis X</td>
<td>Text Field</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>x</td>
</tr>
</tbody>
</table>

Save All  ▼  Go
Add Field

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`  Yes ▼  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 (parse)
- `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 work, trackers are used (wiki pages with .RData), the R session data (.RData) will be shared for the same .RData acc

**R Code**

```r
1 x <- r(1:10)
2 y <- x * x
3 plot(x,y)
```
```r
1 if(require(Cairo)){
2   install.packages("Cairo", repos="http://ftp.heanet.ie/mirrors/cran.r-project.org")
3 }
```
Nice word clouds from just a few lines of R code

Custom maps with GoogleVis

```
G5 <- gvizGeoMap(CiudadPopular, locationvar="Ciudad", numvar="Popular",
                 options=list(region="ES", height=350,
                                dataMode="markers",
                                colors=[0xFF8747, 0xFFB581, 0xFF6000]))

# plot(G5)
print(G5, "chart")
```

Spanish city popularity after UseR!2013 ;-)}
Custom output for higher control on figure results (pdf)

```r
10 device.height = convertHeight(sum(q(""height""")), "in", valueOnly=TRUE)
11 pdf("testr.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 [Ramanath Vaidyanathan](http://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
4 ties
Romney has 18 ways to win

83% of paths
3.1% of paths
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$sprint("chart1")
map3$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$sprint("nvd3")
n2$sprint("chart2")
```
**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)

Groups:
- Show one
- A (168)
- B (165)
- C (167)
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