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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:\wiki\syntax=>0)]cat("__hello__")\]
```

```text
__hello__
```

•

Parsing Wiki Syntax

```r
[[R:\wiki\syntax=>1)]cat("__hello__")\]
```

```text
hello
```

•

Simple Interface: list runs/datasets

![List raw datasets](image)

<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>10</td>
<td>2013-08-30 17:37</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>10</td>
<td>2012-05-11 16:57</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This dataset is outdated.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>110</td>
<td>2012-05-11 16:57</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 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>✗</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

Add Field

Optional pop up helpers to edit plugin calls based on GUI

1. Basic image

RR (R syntax also)

- echo: Shows 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: Load a previous R user session (.Rdata, if any) for the same wiki page so that R object will be used while you are editing (wiki pages with .Rmd extension), the R session data (.Rdata) will be shared for the same .Rmd extension.

R Code

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

Custom maps with GoogleVis

```
G5 <- googleGeoMap(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
Mobile display mode when needed

**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 Valiyanathan](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
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

```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$set('http://r.tiki.org/charts_libraries/leaflet')
map3$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")
```

```r
n2$set('http://r.tiki.org/charts_libraries/nvd3")
n2$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

Show names (500)

Groups: Show one
- A (168)
- B (165)
- C (167)
Clickme: highlight data points with partial filter match

- Show names (500)
  - ins

Groups
- Noise (279)
- Significant (221)

Animation in time-based charts

Violent Crime Rate in Decade 1961–1970

Map of the United States with states shaded in different colors representing crime rates: green for low, orange for medium, and red for high.
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,</td>
<td></td>
<td>2010-11-01</td>
</tr>
<tr>
<td></td>
<td>Stagnaro</td>
<td>Monterey County</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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</table>