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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__")[R]
```

```
_hello__
```

Parsing Wiki Syntax

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

```
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
  - File: r_test
  - Minimum value for axis X: 1
  - Maximum value for axis X: 10
  - LastModified: 2013-08-30 17:37

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

- A really old dataset: This dataset is outdated.
  - From user: admin
  - File: r_test
  - Minimum value for axis X: 100
  - Maximum value for axis X: 110
  - LastModified: 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

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>✓</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>From user</td>
<td>User Select</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

```r
x <- c(1:10)
y <- x^2
plot(x,y)
```

 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 (similar to the `echo` command).
- `wikisyntax` (No) Choose whether the output should be parsed as wiki syntax (Optional). Options: 0 (no parsing, default), 1 (parsing).
- `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 are editing. If you are editing a wiki page with a valid .RData file, the `LoadAndSave` option will be disabled.

```r
if(require(Cairo)){
  install.packages("Cairo", repos="http://ftp.heanet.ie/mirrors/cran.r-project.org")
}
```
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 ;-)
Custom output for higher control on figure results (pdf)

```r
device.height = convertHeight(sum(gg$"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 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/

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

4 ties
3.1% of paths

Romney has 18 ways to win
14% of paths

If Obama wins North Carolina...
and Iowa:
Obama wins.

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, -0.099), 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$addTo("chart3")
map3$save("map3.html")
```

rCharts: Interactive magnification of figure regions

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

O 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

- [Map image]

Ecoengine: Photo viewer based on remote ecological data

- [Table and images]