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
\{(\text{wikisyntax}==0)\}\text{cat("\_hello\_")}\}

\_hello\_

Parsing Wiki Syntax
\{(\text{wikisyntax}==1)\}\text{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>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></td>
<td>1</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></td>
<td>21</td>
<td>30</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This dataset is outdated.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></td>
<td>100</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

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Simple templates for custom output

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Describe the change you made: ☑️

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

Optional pop up helpers to edit plugin calls based on GUI

1. Basic image
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=[0xFF5747, 0xFFB681, 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("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**

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**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 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, -0.053), bindPopup = "Hi, I am another popup")
map3$add("http://r.tiki.org/ChartsLibraries/leaflet"
map3$save("map3.html")
```

rCharts: Interactive magnification of figure regions

```r
n2 <- nPlot(Sepal.Length ~ Sepal.Width, data = sepal, type = "scatterChart",
group = "Species")
n2$addYAxis(axisLabel = "Sepal.Width") # add y axis label
n2$addXAxis(axisLabel = "Sepal.Length")
#n2$print("nvd3Scatter")
n2$save("n2.html")
```

![Map with markers and popups](image1.png)

![Scatter plot with magnification](image2.png)
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

○ 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
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>
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