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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

![List raw datasets table]

- Sample dataset: This dataset was created as part of the sample data for r_test.
- We are working on this dataset: This will soon be changed.
- A really old dataset: This dataset is outdated.
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

- Optional pop up helpers to edit plugin calls based on GUI

1. Basic example

**RR (R syntax also)**

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

- `echo`
  - 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`
  - 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 the wiki page (with `loadr`), the R session data (.RData) will be shared for the same libid across pages.

```R
# R Code
r <- rep(1:10)
x <- r
y <- x^2
plot(x, y)
```

```R
# RR Code
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

```
G5 <- gvisGeoMap(CiudadPopular, locationvar="Ciudad", numvar="Popular",
                 options=list(region="ES", height=350,
                                dataMode="markers",
                                colors=[0xFF8747, 0xFFB581, 0x006000]))

# 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(\{"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 [Ranath Valiyathan](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 [http://rcharts.io](http://rcharts.io) and the corresponding javascript library used in each case.

Page contents:

- Introduction
- Examples
- Credits
- License
Obama has 106 ways to win
83% of paths

4 ties
3.1% 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, -0.083), bindPopup = "Hi, I am another popup")
map3$setView(c(51.505, -0.09))
map3$save("map3.html")
```

rCharts: Interactive magnification of figure regions

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

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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
Clickme: highlight data points with partial filter match

- **INSIG2**
  - Significance (-log10): 3.62
  - Fold-change (log2): -0.72
  - Probe: A_33_P3321342
  - Groups: Noise

- **Groups**
  - Noise (279)
  - Significant (221)

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**Animation in time-based charts**

- **Violent Crime Rate in Decade 1961-1970**
  - Crime Rate: Low, Medium, High

- Interactive map of the United States with color-coded crime rates.
Ecoengine: distribution maps based on database records

Ecoengine: Photo viewer based on remote ecological data

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<thead>
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<th>Authors</th>
<th>County</th>
<th>Notes</th>
<th>Start Date</th>
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<td>2010-11-01</td>
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<tr>
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<td>Monterey</td>
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