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

```r
[[R(wikisyntax==1)]]
cat("__hello__")
```

---

**Parsing Wiki Syntax**

```r
[[R(wikisyntax==1)]]
cat("hello")
```

---

**Simple Interface: list runs/datasets**

![List raw datasets table](image)
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 image

```r
if(!require(Cairo)){
  install.packages("Cairo", repos="http://ftp.heanet.ie/mirrors/CRAN.r-project.org")
}
```

```
R Code
1 x<-q(1:10)
2 y <- x*x
3 plot(x,y)
```
Nice word clouds from just a few lines of R code

Custom maps with GoogleVis

```r
G5 <- visGeoMap(CiudadPopular, locationvar="Ciudad", numvar="Popular",
    options=list(region="ES", height=350,
        dataMode="markers",
        colors=[0xFF8747, 0xFFB51, 0x06000B])
# 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
10 device.height = convertHeight(sum(g("heights")), "in", valueOnly=TRUE)
11 pdf("test.pdf", height = device.height)
12 grid.draw(g)
13 invisible(dev.off())
```

Mobile display mode when needed

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**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 [Rmknath Vaidyanathan](http://rcharts.io/). See more here: 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
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

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$setUrl("http://r.tiki.org/rcharts_libraries/leaflet")
map3$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$print("nvd3Scatter")
n2$print("nvd3Scatter")
n2$save("n2.html")
```

```r

```

```
rCharts: Select time range on X and vars on Y

Clickme: Interactive filtering charts by point names
Clickme: highlight data points with partial filter match

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

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

Animation in time-based charts

Violent Crime Rate in Decade 1961-1970

[Map of the United States with crime rate data]
Ecoengine: distribution maps based on database records

Ecoengine: Photo viewer based on remote ecological data