Gergely Daróczi

Unified plots

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This document demonstrates the features of unifying plots in pander. First, if you do not want to deal with styling each of your images, just activate it: evalsOptions('graph.unify', TRUE).

*Note*: please install lattice and ggplot2 on your computer prior to trying to run all examples of this document.

# Options

There are a bunch of options you might want to check out, these are:

* graph.nomargin
* graph.fontfamily
* graph.fontcolor
* graph.fontsize
* graph.grid
* graph.grid.minor
* graph.grid.color
* graph.grid.lty
* graph.boxes
* graph.legend.position
* graph.background
* graph.panel.background
* graph.colors
* graph.color.rnd
* graph.axis.angle
* graph.symbol

Find more details on [pander's homepage](http://rapporter.github.com/pander/#pander-options).

# Default options

Not touching the above ones, let us check out how different plots look like by calling base R graphing function, lattice or ggplot2!

## Histogram

### Base R plot

 **WARNING**[[1]](#footnote-27)

### lattice



### ggplot2



## Barplot

### Base R plot

 **WARNING**[[2]](#footnote-35)

### lattice



### ggplot2



## Points

### Base R plot

 **WARNING**[[3]](#footnote-43)

### lattice



### ggplot2



## Grouped plot

### Base R plot

I have no idea how to do that besides manually adding points.

### lattice



### ggplot2



## Facets

### Base R plot

I have no idea how to do that besides par(mfrow=c(foo, bar)).

### lattice



### ggplot2



## Boxplot

### Base R plot

 **WARNING**[[4]](#footnote-63)

### lattice



### ggplot2



## Lines

### Base R plot

**ERROR**[[5]](#footnote-70)

### lattice



### ggplot2



# Custom options

Below you can find some images generated by the exact same commands but with some modified panderOptions:

panderOptions('graph.fontfamily', "Comic Sans MS")
panderOptions('graph.fontsize', 18)
panderOptions('graph.fontcolor', 'blue')
panderOptions('graph.grid.color', 'blue')
panderOptions('graph.axis.angle', 3)
panderOptions('graph.boxes', T)
panderOptions('graph.legend.position', 'top')
panderOptions('graph.colors', rainbow(5))
panderOptions('graph.grid', FALSE)
panderOptions('graph.symbol', 22)

## Histogram

### Base R plot



### lattice



### ggplot2



## Barplot

### Base R plot



Yeah, the "Foo bar" label is cropped. We need a custom mar option here:



But wait, we lost the color! Right: unfortunately coloring base R plots is really hackish, pander is adding the col attribute to the calls. If you start to tweak par in a chunk, you should prepare to some unwanted side-effects. Solution:



### lattice



### ggplot2



## Points

### Base R plot

**ERROR**[[6]](#footnote-94)

### lattice



### ggplot2



## Grouped plot

### Base R plot

I have no idea how to do that besides manually adding points.

### lattice



### ggplot2



## Facets

### Base R plot

I have no idea how to do that besides par(mfrow=c(foo, bar)).

### lattice



### ggplot2



## Boxplot

### Base R plot



### lattice



### ggplot2



## Lines

### Base R plot

**ERROR**[[7]](#footnote-120)

### lattice



### ggplot2



1. Applying default formatting to image is somehow compromised (the result could differ from what you specified in panderOptions). Hints: printing lattice/ggplot2 is not needed and tweaking base plots with par might have some side-effects! [↑](#footnote-ref-27)
2. Applying default formatting to image is somehow compromised (the result could differ from what you specified in panderOptions). Hints: printing lattice/ggplot2 is not needed and tweaking base plots with par might have some side-effects! [↑](#footnote-ref-35)
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5. :1:1: unexpected '/' 1: / ^ [↑](#footnote-ref-70)
6. :1:1: unexpected '/' 1: / ^ [↑](#footnote-ref-94)
7. :1:1: unexpected '/' 1: / ^ [↑](#footnote-ref-120)