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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.

**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

Histogram in base R

WARNING¹
Figure 1: Histogram with lattice
Figure 2: Histogram with ggplot2
WARNING

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!

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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!
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!
lattice

Barplot with lattice

Foil bar

Foil

Bar

Freq

Figure 3:
Figure 4:
ggplot2

Points

Base R plot

Points in base R

WARNING$^3$
Figure 5:
Figure 6: Points with ggplot2
I have no idea how to do that besides manually adding points.

I have no idea how to do that besides \texttt{par(mfrow=c(foo, bar))}. 
Figure 7: Grouped plot with lattice
Faceted barplot with lattice

Figure 9:
Figure 10: Faceted barplot with ggplot2
lattice

ggplot2

Boxplot

Base R plot

WARNING

^{3} Applying default formatting to image is somehow compromised (the result could differ from what you specified in \texttt{panderOptions}). Hints: printing \texttt{lattice/ggplot2} is not needed and tweaking \texttt{base} plots with \texttt{par} might have some side-effects!

^{4} Applying default formatting to image is somehow compromised (the result could differ from what you specified in \texttt{panderOptions}). Hints: printing \texttt{lattice/ggplot2} is not needed and tweaking \texttt{base} plots with \texttt{par} might have some side-effects!
Boxplot with lattice

Figure 11:

ggplot2

Lines

Base R plot

ERROR\textsuperscript{5}

\textsuperscript{5}:1:1: unexpected \\

19
**Custom options**

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

```r
panderOptions('graph.fontfamily', "Comic Sans MS")
panderOptions('graph.fontsize', 18)
```
Figure 14:
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

Figure 15:
lattice

Figure 16:

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:
Figure 17: Histogram with ggplot2
Figure 18: Barplot in base R
Figure 19:
Barplot in base R

Figure 20:
Barplot with lattice

Figure 21:

ggplot2

Points

Base R plot

ERROR\textsuperscript{6}

\textsuperscript{6}:1:1: unexpected '/' 1: / ^
Figure 22: Barplot with ggplot2
I have no idea how to do that besides manually adding points.

\textbf{ggplot2}

\textbf{Grouped plot}

\textbf{Base R plot}

I have no idea how to do that besides manually adding points.
Figure 24: Points with ggplot2
Figure 25: Grouped plot with lattice

- Bar
- Foo
- Foo bar
Facets

Base R plot

I have no idea how to do that besides `par(mfrow=c(foo, bar))`. 
Figure 27:
lattice

ggplot2

Figure 28:
Boxplot in base R

Figure 29:
Figure 30:
Figure 31: Boxplot with ggplot2
Boxplot

Base R plot

lattice

ggplot2

Lines

Base R plot

ERROR

lattice

ggplot2
Figure 33: