iris_data_set_vm3 vx.y

Han Oostdijk (www.hanoostdijk.nl)

14 December, 2015

Contents

Libraries used	1
Load data and create plot object	2
Plot iris data with alternative themes	3
External parameters used	3
Session Info	6
References	6

Libraries used

library(ggplot2)
library(ggthemes)

Table 1: first 10 observations of iris data set

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa
4.6	3.4	1.4	0.3	setosa
5.0	3.4	1.5	0.2	setosa
4.4	2.9	1.4	0.2	setosa
4.9	3.1	1.5	0.1	setosa

Load data and create plot object

Before plotting the iris data set (in Figure 1 on page 4) we list the first 10 (because we set variable *numlist* to 10 in a chunck we do not present to the reader) observations in the data set in Table 1 on page 2.

As an example of a reference we use [author1] with another reference in a footnote¹. NB. we now have to use the LATEX \cite and \footnote commands explicitly.

```
p <- ggplot(iris, aes(Sepal.Length, Sepal.Width, colour = Species))+
geom_point()</pre>
```

Plot iris data with alternative themes

We plot the iris data with package *ggplot2* in Figure 1 on page 4.

Because parameter *altplot* was set to TRUE (in a chunck we do not present to the reader) two plots with a different theme are also printed. The themes are the stata color theme (s2color) and a theme often used in the magazine *The Economist*. These can be found in Figure 2a and Figure 2b on page 5.

```
p +
    labs(title = 'default theme')
cat(paste(' #produced',ref_tab('r1a','F')))

#produced in Figure 1 on page 4

p + theme_stata(scheme = "s2color", base_size = 12, base_family = fam) +
    labs(title = sprintf('theme_stata scheme = "s2color", base_size = 12, base_family = "%s"',fam))
cat(paste(' #produced',ref_tab('r1b1','F')))

#produced in Figure 2a on page 5

p + theme_economist(base_size = 10, base_family = fam) +
    labs(title = sprintf('theme_economist base_size = 10, base_family = "%s"',fam))
# this is a comment
cat(paste(' #produced',ref_tab('r1b2','F')))

#produced in Figure 2b on page 5
```

External parameters used

The external parameters used can be found in in Table 2 on page 5.

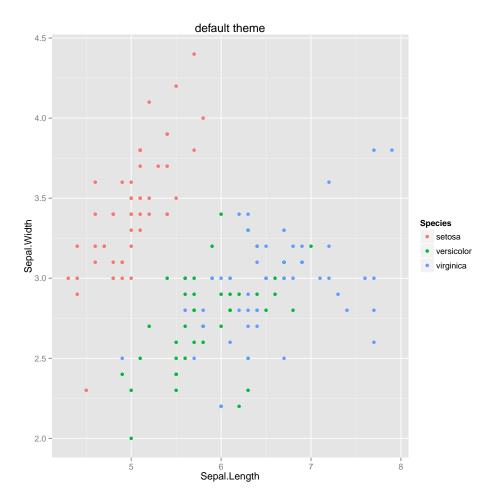


Figure 1: default theme

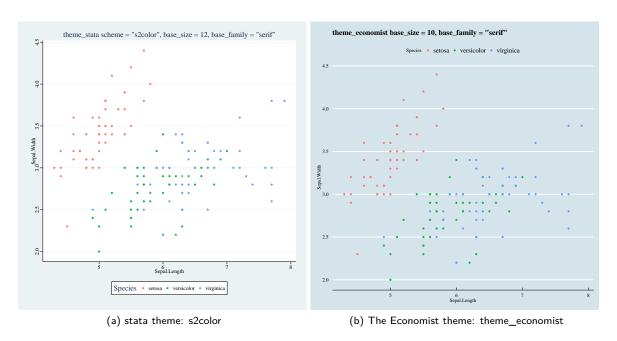


Figure 2: examples of non-default themes

Table 2: External parameters used

parameter	value
doc_version	x.y
altplot	TRUE

Session Info

sessionInfo()

```
## R version 3.2.0 (2015-04-16)
## Platform: x86_64-w64-mingw32/x64 (64-bit)
## Running under: Windows 8 x64 (build 9200)
##
## locale:
## [1] LC_COLLATE=English_United States.1252 LC_CTYPE=English_United States.1252
## [3] LC_MONETARY=English_United States.1252 LC_NUMERIC=C
## [5] LC_TIME=English_United States.1252
##
## attached base packages:
## [1] stats
                graphics grDevices utils
                                              datasets methods
##
## other attached packages:
## [1] ggthemes_2.2.1 ggplot2_1.0.1 knitr_1.11.18
## loaded via a namespace (and not attached):
## [1] Rcpp 0.11.6
                        digest 0.6.8
                                         MASS 7.3-45
                                                          grid 3.2.0
                                                                           plyr 1.8.3
## [6] gtable 0.1.2
                        formatR 1.2.1
                                         magrittr 1.5
                                                          scales 0.2.5
                                                                           evaluate 0.8
## [11] stringi 1.0-1
                        reshape2 1.4.1 rmarkdown 0.8.1 labeling 0.3
                                                                           proto 0.3-10
## [16] tools_3.2.0
                        stringr_1.0.0
                                         munsell_0.4.2
                                                          yaml_2.1.13
                                                                           colorspace_1.2-6
## [21] htmltools_0.2.6
```

References

```
[author1] example of reference for author1 [author2] example of reference for author2
```