

Note re developments in R, that affect code in the text of
**Data Analysis and Graphics Using R – An Example-Based
Approach, 2nd edn**

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The lattice package – columns in parallel: Columns can now be plotted in parallel. Code that stacks the relevant columns to create a new data frame, as on pages 55 (lines -8 to -12) and 433 (lines 6, 8 and 10), is thus redundant. The call to `xyplot()` in lines 15 through 17 on page 433 becomes:

```
xyplot(Ontario+Quebec+BC+Alberta+Prairies+Atlantic ~ Date,  
       outer=FALSE, data=jobs, ylab="Number of workers",  
       scales=list(at=atdates, labels=datelabs),  
       auto.key=list(columns=3, between=1))
```

The column names (Ontario, etc.) are juxtaposed in the graphics formula, with “+” as separator. Use of `outer=FALSE` causes overplotting in one panel, rather than the use of separate panels.

The lattice package – simpleTheme() Using the function `simpleTheme()`, the code in footnote 8 on page 57 (Figure 2.10B) simplifies to:

```
xyplot(csoa ~ it | sex*agegp, data=tinting, groups=target,  
       par.settings=simpleTheme(col=c("black", "gray20"),  
                                pch=c(1, 16)),  
       auto.key=list(columns=2))
```

Similarly also pages 58 (footnote 9), 415 (lines 2 and 3) and 463 (lines -7 to -4). Lines 2 and 3 on page 415 simplify to:

```
trellis.par.set(theme=simpleTheme(cex=0.25, lwd=2, col.line=linecols))
```

Chapter 10 – output from mcmcSamp(): Changes to the structure of objects created by `mcmcSamp()` affect code on pages 310 (the lower half-page), 314 (lines -16 to -10) and 343 (line 2). The code on page 310 starts with the two lines:

```
> set.seed(41)           # Use to reproduce results below  
> ant111b.samp <- mcmcSamp(ant111b.lmer, n=1000)
```

The code in subsequent lines is no longer valid. Instead, use the function `HPDinterval()` to extract Bayesian credible intervals, thus:

```
HPDinterval(ant111b.samp, prob=0.95)
```

(If `HPDinterval()` is not in the installed version of *lme4*, attach the *coda* package.)

Additional details: See the web page
<http://www.maths.anu.edu.au/~johnm/r-book.html>