

Corrections and Updates (as of January 29, 2007) to the 2nd, 3rd & 4th printings of the 1st (2003) edition of

**Data Analysis and Graphics Using R – An Example-Based Approach**

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## Part I

# Corrections to All Printings

NB: A separate document that has corrections for the first printing. For printings 2 & 3, this initial list supplements the corrections given in Part II below.

### Chapter 1

*p.5, line 4 of Section 1.1.6*

Replace `working directory` by `workspace`

*p.19, line 9 of Section 1.1.6*

Replace `default` by `current`

### Chapter 3

*p.59, line -4*

Replace `1.645` by `1.28`

### Chapter 4

*p.77, Figure 4.4*

Replace `pnorm(0.975)` by `qnorm(0.975)`.

Replace `pt(0.975, 8)` by `qt(0.975, 8)`

### Chapter 9

*p.240, final line*

Replace `agegpsenior` by `agegpOlder`, consistently with page341.

With version 0.84 of *DAAG* or later, this labeling of output can be reproduced by preceding the use of the code on page 240 with:

```
tinting$agegp <- capstring(tinting$agegp) # capstring is from DAAG
```

## Part II

# Corrections to Printings 2 – 3

NB: There is a separate document that has corrections for the first printing.

### General – Resulting from Changes to R

- Code that uses `data()` to bring datasets in attached packages into the workspace can now, for packages used in this text, be omitted. (It may still be useful to use an explicit call to `data()` to overwrite a dataset, or in some cases multiple datasets, already present in the workspace.)
- The *date* package, described in Section 12.2.3, has been superseded by `as.Date()` and allied functions that are in *base* R.
- The description of the handling of missing values in subscripts, in Section 12.5 on page 318, is no longer accurate.
- While the code given in the text should all run, there are now more direct ways to handle some computations. This is especially relevant to the use of the *lattice* package.

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

### Preface

**p.xviii, lines -6 to -5:** Replace with a CRAN (Comprehensive R Archive Network) site; go to <http://cran.r-project.org> and click on [Mirrors](#).

### Chapter 1

**p.1, line 15:** Replace pages <http://cbis.anu.edu.au/DAAG> and <http://www.stats.uwo.ca/DAAG> with page <http://www.stats.uwo.ca/DAAG>, or from <http://cran.r-project.org>.

#### *p.5*

**line 4 of Section 1.1.6:** Replace `working directory` by `workspace`

**line 9 of Section 1.1.6:** Replace `workshop` by `workspace`.

**p.14, line 5:** Omit `, eda, ts` (time series)

#### *p.19, line 16*

Replace `default` by `current`

### Chapter 2

**p.35, line 4:** Omit `(in the modreg package)`

[The function `lowess()` is now in *stats*; in an out-of-the-box installation this is attached at startup.]

## Chapter 4

p.77, Figure 4.4 Replace `pnorm(0.975)` by `qnorm(0.975)`.

Replace `pt(0.975, 8)` by `qt(0.975, 8)`

p.83, line -10: Omit `in the ctest package`

lines -2 to -1: Replace `This methodology is not, at the time of writing, implemented in R. with The function cor.test() implements this methodology.`

p.87, line 10: Replace `somewhat` with `substantially`

p.89, line -9: Replace `default).` with `default, before fitting the model).`

p.104 line 4: Omit `library(ts)`

exercise 7, line 2: Omit `that is in the ctest package`

## Chapter 5

p.112, line 10: Replace `a strong indication` with `an indication`

p.116, line 6: Replace `in the lqs package` with `(also in MASS)`

p.133, line -9: Omit `library(modreg)`, i.e., omit this line.

## Chapter 6

p.136, line 18: Following “confidence interval” insert `for the coefficient of volume`

p.173, lines -12 to -11: Replace `in the lqs package` with `(MASS)`

## Chapter 7

p.179, line 19: Replace `three` by `four`.

p.191, line 4: Omit `,` implemented in the `modreg` package,

p.194, lines 4-5: Omit `and references on the help pages for the modreg and mgcv packages` with `references on the help pages for the mgcv package, and for the smoothing functions used in this chapter`

## Chapter 8

p.214, line 15: Replace “`will be inaccurate, as it has only one short section and few moths`”, by `will give meaningless standard errors. (The approximation used in calculation of SEs breaks down when one of the counts that is to be compared is zero.)`

p.215, line 11: Replace “`have large standard errors.`”, by `the standard errors are meaningless.`

**Chapter 9** CRAN does not now allow data frames that are included in packages to use `plot` as a variable name. Hence, in the data frame `kiwishade` as it appears in recent version of *DAAG*, `plot` has been changed to `plt`.

In Tables 9.2 & 9.3 (pp. 232-233, ss 9.3.1 & 9.3.2), change `plot` to `plt` (twice in each table).

On **page 237**, change `plot` to `plt` in the code that appears in lines 6-7 on Subsection 9.3.5.

**p.240, line -1:** Replace `agegpsenior`, in the two places where it appears, by `agegp0lder`. With version 0.84 of *DAAG* or later, this labeling of output can be reproduced by preceding the use of the code on page 240 with:

```
tinting$agegp <- capstring(tinting$agegp) # capstring is from DAAG
```

**p.242, line 12:** Omit `,` in the *ts* package,

**footnote 15, line 1:** Omit this line (starting `library(ts)`)

**p.246, final line** Omit this line.

## Chapter 10

**p.268 line 9:** Omit `from the R modreg package`

**footnote 5, line 1:** Omit this line (`library(modreg)`)

## Chapter 11

**p.284, line 20:** Omit this line (starting `library(mva)`)

## Chapter 12

**p.305 line -3:** Replace *String functions* by *Character string functions*

**line -2:** Replace `text strings` by `character strings`.

**p.310, line 5:** Replace `These functions are suitable only for the simplest applications.` by `See however help(as.Date) for alternatives to the use of the date package.`

**p.315 line 21:** Replace `as.numeric(country)` by `unclass(country)`

**lines -12 to -11:** Omit these lines (i.e., omit this first bullet point).

[If the `labels` argument to `text()` is a factor, then as of 2.0.0 it is the level names that are plotted.]

**p.330, line 21:** [The names and contents of the base packages changed in R-1.9.0, and again in R-2.2.0. Partly as a result, the names of the packages that are attached at startup are now different.]

Replace `that methods, ctest and several other packages are` by `that a number of packages were`

## Part III

# Corrections to Printing 4

### Chapter 8

*p.215, line 8*

`exp(7.11)` should be `exp(6.623)`, as in the entry against `factor(habitat)Disturbed` in the output on p.214.

The computer output was corrected following the tightening of the convergence criteria for GLMs in version 1.8.0. The change in the text was missed. The quantity is anyway somewhat nonsensical; a finite computer calculation is trying to approximate to infinity; this arises because the ML estimate for Bank is zero, approximated in the computer output by  $\exp(-6.696)$