A Handbook of Statistical Analyses Using **R**

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CHAPTER 16

Errata

The document gives a list of typos, errors, inconsistencies etc. which have been spotted. Moreover, small numeric output differences which are due to updated packages are reported here. To get a full list of differences run `R CMD check HSAUR` on the source package.

Preface

Typo in name of vignette for Chapter 1, should read

```
R> vignette("Ch_introduction_to_R", package = "HSAUR")
```

and

```
R> edit(vignette("Ch_introduction_to_R", package = "HSAUR"))
```

As of version 1.0-3, only the correctly named vignette is available.

16.1 Introduction to R

Typo at page 20 (Ex. 1.5): number of companies, not number of countries.

16.2 Simple Inference

Typo at page 31, code line 4: use argument `varwidth = TRUE`, not `var.width = TRUE`.

16.3 Conditional Inference

- The names of the test statistics in the output have been changed from `T` to `Z` or `chi-squared` throughout the chapter.
- Reference Hothorn et al. (2006a) updated

16.4 Analysis of Variance

–nothing known–

16.5 Multiple Linear Regression

Page 83: both `fitted` and `predict` can be used to compute fitted values, the later on can be applied to new unseen data as well.

16.6 Logistic Regression and Generalised Linear Models

Function `myplot` (page 100): the `vfont` argument in `text` has been changed to `family = "HersheySerif"` (the resulting plots remain the same).

16.7 Density Estimation

- Page 121: small numeric differences for the output of `optim`
- update to *mclust* version 3.0-0 (new names of parameters in `mclust` objects)

16.8 Recursive Partitioning

- Page 139: small differences in `predtab`
- Page 140: small differences in table at bottom of this page
- Reference Hothorn et al. (2006b) updated

16.9 Survival Analysis

The name of the test statistic in the output of `surv_test` has been changed to `chi-squared`.

16.10 Analysing Longitudinal Data I

Page 168, Figure 10.2: `summary` does not provide degrees of freedom and p-values in newer versions of *lme4*.

16.11 Analysing Longitudinal Data II

–nothing known–

16.12 Meta-Analysis

–nothing known–

16.13 Principal Component Analysis

–nothing known–

16.14 Multidimensional Scaling

–nothing known–

16.15 Cluster Analysis

update to *mclust* version 3.0-0 (new plot method)

Thanks

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- Brian D. Ripley

Bibliography

Hothorn, T., Hornik, K., van de Wiel, M. A., and Zeileis, A. (2006a), "A Lego system for conditional inference," *The American Statistician*, 60, 257–263, URL `http://statmath.wu-wien.ac.at/~zeileis/papers/Hothorn+Hornik+VanDeWiel-2006.pdf`.

Hothorn, T., Hornik, K., and Zeileis, A. (2006b), "Unbiased recursive partitioning: A conditional inference framework," *Journal of Computational and Graphical Statistics*, 15, 651–674, URL `http://statmath.wu-wien.ac.at/~zeileis/papers/Hothorn+Hornik+Zeileis-2006.pdf`.