Discrete Data Analysis with R
Visualization and Modeling Techniques for Categorical and Count Data

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The special nature of discrete variables and frequency data vis-a-vis statistical graphics is now more widely accepted, and many of these methods (e.g., mosaic displays, fourfold plots, diagnostic plots for generalized linear models) have become, if not main stream, then at least more widely used in research and teaching. This book provides an accessible introduction to the major methods of categorical data analysis for data exploration, statistical testing and statistical models. As opposed to more theoretical books, the goal here is to help the reader to translate theory into practical application, by providing skills and software tools for carrying out these methods.
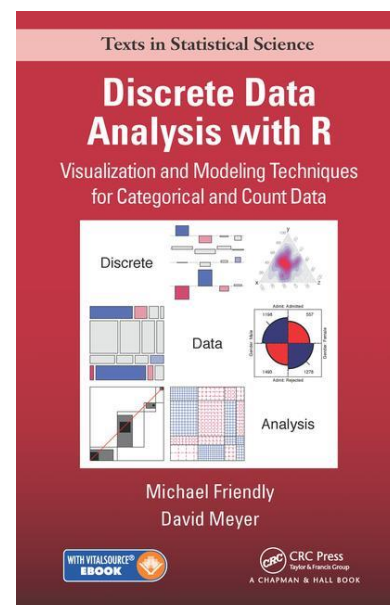
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Key Features

- Provides an accessible introduction to the major methods of categorical data analysis for data exploration, statistical testing and statistical models
- The emphasis throughout is on computing, visualizing, understanding and communicating the results of these analyses
- As opposed to more theoretical books, it help the reader to translate theory into practical application, by providing skills and software tools for carrying out these methods
- Supported directly by R packages **vcd** and **vcdExtra**, along with numerous other R packages

Texts in Statistical Science

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Discrete

Data

Analysis

Michael Friendly
David Meyer

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Selected Contents

Working with Categorical Data. Fitting and Graphing Discrete Distributions. Two-Way Contingency Tables. Mosaic Displays for n-Way Tables. Correspondence Analysis. Loglinear and Logit Models. Logistic Regression. Generalized Linear Models. Regression Models for Count Data. Repeated Measures and Longitudinal Data. Classification and Regression Trees. Other Material.