

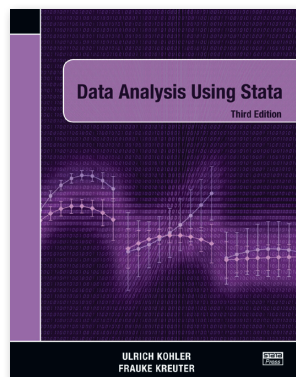
Brief contents

- 1 The first time
- 2 Working with do-files
- 3 The grammar of Stata
- 4 General comments on the statistical commands
- 5 Creating and changing variables
- 6 Creating and changing graphs
- 7 Describing and comparing distributions
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What's new in this edition

- New chapter on statistical inference
 - » Random samples
 - » Standard errors based on random samples and complex samples
 - » Dealing with nonresponse
 - » Causal inference
- Factor-variable notation
 - » Categorical predictors
 - » Interaction terms
- Updated techniques for interpreting results
 - » **margins** command for obtaining average partial effects instead of marginal effects at the means
 - » **marginsplot** command for illustrating differences in behavior among groups

Data Analysis Using Stata, Third Edition



By Ulrich Kohler and
Frauke Kreuter

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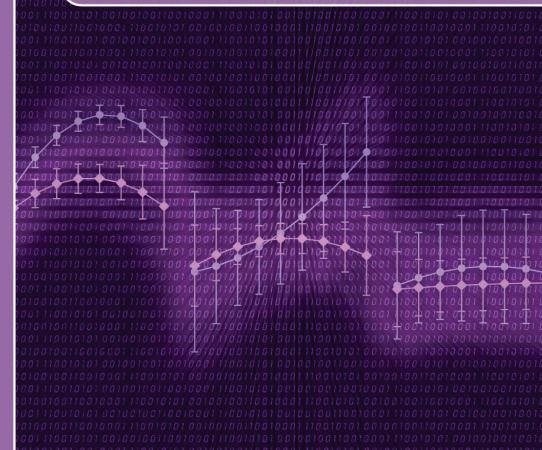
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Stata Press presents

Data Analysis Using Stata

Third Edition



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About the authors

Ulrich Kohler is a sociologist at the Social Science Research Center Berlin (WZB). Dr. Kohler is an organizer of the German Stata Users Group meetings. Frauke Kreuter is an associate professor at the Joint Program in Survey Methodology (JPSM) in the University of Maryland—College Park, professor at the Statistics Department in the Ludwig-Maximilians-University of Munich, and currently head of the Statistical Methods group at the Institute for Employment Research (IAB) in Nuremberg, Germany. Both authors are associate editors of the *Stata Journal*. They coauthored a German textbook, *Datenanalyse mit Stata*, which was the predecessor of this book. They used *Data Analysis Using Stata* to teach several classes and short courses at the University of Mannheim, the University of Konstanz, the Free University of Berlin, and the University of California—Los Angeles, among others.

The book's audience

- New Stata users—the authors do not assume familiarity with Stata
- Experienced Stata users who would like to learn
 - » careful work habits for simple reproducible research
 - » a practical, efficient approach to data analysis
 - » the nuts and bolts of Stata graphs
- Anyone interested in analyzing data, especially biometricians, econometricians, psychometricians, and other “metricians”
- Students and academic researchers in social sciences

Comment from the Stata technical group

Data Analysis Using Stata, Third Edition has been completely revamped to reflect the capabilities of Stata 12. This book will appeal to those just learning statistics and Stata as well as to the many users who are switching to Stata from other packages. Throughout the book, Kohler and Kreuter show examples using data from the German Socio-Economic Panel, a large survey of households containing demographic, income, employment, and other key information.

Kohler and Kreuter take a hands-on approach, first showing how to use Stata's graphical interface and then describing Stata's syntax. The core of the book covers all aspects of social science research, including data manipulation, production of tables and graphs, linear regression analysis, and logistic modeling. The authors describe Stata's handling of categorical covariates and show how the new **margins** and **marginsplot** commands greatly simplify the interpretation of

regression and logistic results. An entirely new chapter discusses aspects of statistical inference, including random samples, complex survey samples, nonresponse, and causal inference.

The rest of the book includes chapters on reading text files into Stata, writing programs and do-files, and using Internet resources such as the **search** command and the SSC archive.

Data Analysis Using Stata, Third Edition has been structured so that it can be used as a self-study course or as a textbook in an introductory data analysis or statistics course. It will appeal to students and academic researchers in all the social sciences.

Excerpt from a review of the first edition in the *Stata Journal*, Volume 5:

Too often, courses in applied statistics and data analysis are taught using a text covering the theory behind the methods but expecting students to pick up the details of a particular software package on their own via hastily assembled or otherwise inadequate resources. This can create unnecessary stumbling blocks and frustration, but perhaps more importantly, it reduces the chance that the student will acquire a set of skills that he or she can apply effectively outside the classroom. The addition of a book like this would be a substantial improvement because of its systematic approach to learning how to manipulate and analyze data using the software and its strategies and advice for organizing the research process....

In addition to its value in the classroom, this book is also likely to be useful for experienced researchers. Those new to Stata will find that going through the book is one of the best (and quickest) ways to acquire a solid working knowledge of the program. Those who have been using Stata for a while are likely to find several new tips and tricks, which will make them more productive in their work.

— L. Philip Schumm
University of Chicago