



Statistics for Linguists

A patient, slow-paced introduction to
statistics and to the programming
language R

Written by
Gerold Schneider and Max Lauber

Statistics For Linguists

R. H. Baayen



Statistics For Linguists:

Statistics for Linguistics with R Stefan Th. Gries, 2013-03-22 This book is the revised and extended second edition of Statistics for Linguistics with R The volume is an introduction to statistics for linguists using the open source software R It is aimed at students and instructors professors with little or no statistical background and is written in a non technical and reader friendly accessible style It first introduces in detail the overall logic underlying quantitative studies exploration hypothesis formulation and operationalization and the notion and meaning of significance tests It then introduces some basics of the software R relevant to statistical data analysis A chapter on descriptive statistics explains how summary statistics for frequencies averages and correlations are generated with R and how they are graphically represented best A chapter on analytical statistics explains how statistical tests are performed in R on the basis of many different linguistic case studies For nearly every single example it is explained what the structure of the test looks like how hypotheses are formulated explored and tested for statistical significance how the results are graphically represented and how one would summarize them in a paper article A chapter on selected multifactorial methods introduces how more complex research designs can be studied methods for the study of multifactorial frequency data correlations tests for means and binary response data are discussed and exemplified step by step Also the exploratory approach of hierarchical cluster analysis is illustrated in detail The book comes with many exercises boxes with short think breaks and warnings recommendations for further study and answer keys as well as a statistics for linguists newsgroup on the companion website Just like the first edition it is aimed at students faculty and researchers with little or no statistical background in statistics or the open source programming language R It avoids mathematical jargon and discusses the logic and structure of quantitative studies and introduces descriptive statistics as well as a range of monofactorial statistical tests for frequencies distributions means dispersions and correlations The comprehensive revision includes new small sections on programming topics that facilitate statistical analysis the addition of a variety of statistical functions readers can apply to their own data a revision of overview sections on statistical tests and regression modeling a complete rewrite of the chapter on multifactorial approaches which now contains sections on linear regression binary and ordinal logistic regression multinomial and Poisson regression and repeated measures ANOVA and a new visual tool to identify the right statistical test for a given problem and data set The amount of code available from the companion website has doubled in size providing much supplementary material on statistical tests and advanced plotting

Statistics for Linguists: An Introduction Using R Bodo Winter, 2019-10-30 Statistics for Linguists An Introduction Using R is the first statistics textbook on linear models for linguistics The book covers simple uses of linear models through generalized models to more advanced approaches maintaining its focus on conceptual issues and avoiding excessive mathematical details It contains many applied examples using the R statistical programming environment Written in an accessible tone and style this text is the ideal main resource for graduate and advanced

undergraduate students of Linguistics statistics courses as well as those in other fields including Psychology Cognitive Science and Data Science Statistics for Linguists David Eddington,2016-01-14 Linguists with no background in statistics will find this book to be an accessible introduction to statistics Concepts are explained in non technical terms and mathematical formulas are kept to a minimum The book incorporates SPSS which is a statistics package that incorporates a point and click interface rather than complex line commands Step by step instructions are provided for some of the most widely used statistics in linguistics At the same time the concepts behind each procedure are also explained Traditional analyses such as ANOVA and t tests are included in the book but linguistic data is often not amenable to such analyses For this reason non parametric and mixed effects procedures are also introduced Essential Statistics for Applied Linguistics Hanneke Loerts,Wander Lowie,Bregtje Seton,2020-02-06 Assuming no prior knowledge this text provides a concise practical and accessible introduction to using analysing and interpreting statistics and methodologies in empirical work using R or JASP It takes an activity based approach in which students are first stimulated to consider a problem or question and find their own solution before the conventional way of solving that problem or question is introduced How To guides on R and JASP which take students step by step through statistical analyses and practical assignments are available on the book s companion website This book will be an invaluable resource for undergraduate and postgraduate students of applied linguistics New to this Edition Now focuses on R and JASP two increasingly popular open source softwares used by linguists How To guides to help students strengthen their understanding and apply what they have learnt available on a companion site Contains more comprehensive coverage of effect sizes basic methods regression theory relationship studies and non parametric tests **Statistics for Linguists** Frank Anshen,1978 *How to do Linguistics with R* Natalia Levshina,2015-11-25 This book provides a linguist with a statistical toolkit for exploration and analysis of linguistic data It employs R a free software environment for statistical computing which is increasingly popular among linguists How to do Linguistics with R Data exploration and statistical analysis is unique in its scope as it covers a wide range of classical and cutting edge statistical methods including different flavours of regression analysis and ANOVA random forests and conditional inference trees as well as specific linguistic approaches among which are Behavioural Profiles Vector Space Models and various measures of association between words and constructions The statistical topics are presented comprehensively but without too much technical detail and illustrated with linguistic case studies that answer non trivial research questions The book also demonstrates how to visualize linguistic data with the help of attractive informative graphs including the popular ggplot2 system and Google visualization tools This book has a companion website <http://doi.org/10.1075/z.195> website *Statistics for Linguistics with R* Stefan Th. Gries,2009-12-15 This book is an introduction to statistics for linguists using the open source software R It is aimed at students and instructors professors with little or no statistical background and is written in a non technical and reader friendly accessible style It first introduces in detail the overall logic

underlying quantitative studies exploration hypothesis formulation and operationalization and the notion and meaning of significance tests It then introduces some basics of the software R relevant to statistical data analysis A chapter on descriptive statistics explains how summary statistics for frequencies averages and correlations are generated with R and how they are graphically represented best A chapter on analytical statistics explains how statistical tests are performed in R on the basis of many different linguistic case studies For nearly every single example it is explained what the structure of the test looks like how hypotheses are formulated explored and tested for statistical significance how the results are graphically represented and how one would summarize them in a paper article A chapter on selected multifactorial methods introduces how more complex research designs can be studied methods for the study of multifactorial frequency data correlations tests for means and binary response data are discussed and exemplified step by step Also the exploratory approach of hierarchical cluster analysis is illustrated in detail The book comes with many exercises boxes with short think breaks and warnings recommendations for further study and answer keys as well as a statistics for linguists newsgroup on the companion website The volume is aimed at beginners on every level of linguistic education undergraduate students graduate students and instructors professors and can be used in any research methods and statistics class for linguists It presupposes no quantitative statistical knowledge whatsoever and unlike most competing books begins at step 1 for every method and explains everything explicitly

Analyzing Linguistic Data R. Harald Baayen, 2008 Statistical analysis is a useful skill for linguists and psycholinguists allowing them to understand the quantitative structure of their data This textbook provides a straightforward introduction to the statistical analysis of language Designed for linguists with a non mathematical background it clearly introduces the basic principles and methods of statistical analysis using R the leading computational statistics programme The reader is guided step by step through a range of real data sets allowing them to analyse acoustic data construct grammatical trees for a variety of languages quantify register variation in corpus linguistics and measure experimental data using state of the art models The visualization of data plays a key role both in the initial stages of data exploration and later on when the reader is encouraged to criticize various models Containing over 40 exercises with model answers this book will be welcomed by all linguists wishing to learn more about working with and presenting quantitative data

Statistics in Language Studies Anthony Woods, Paul Fletcher, Arthur Hughes, 1986-08-14 Presents a wide variety of linguistic examples to demonstrate the use of statistics in summarizing data appropriately The range of techniques introduced will help readers to evaluate and use literature employing statistical analysis and to apply statistics in their own research

Statistics for Corpus Linguistics Michael Oakes, 2019-08-06 No detailed description available for Statistics for Corpus Linguistics

Statistics in Linguistics Christopher Butler, 1985 *Corpus Linguistics and Statistics with R* Guillaume Desagulier, 2017-11-17 This textbook examines empirical linguistics from a theoretical linguistics perspective It provides both a theoretical discussion of what quantitative corpus linguistics entails and detailed hands on step by step

instructions to implement the techniques in the field The statistical methodology and R based coding from this book teach readers the basic and then more advanced skills to work with large data sets in their linguistics research and studies Massive data sets are now more than ever the basis for work that ranges from usage based linguistics to the far reaches of applied linguistics This book presents much of the methodology in a corpus based approach However the corpus based methods in this book are also essential components of recent developments in sociolinguistics historical linguistics computational linguistics and psycholinguistics Material from the book will also be appealing to researchers in digital humanities and the many non linguistic fields that use textual data analysis and text based sensorimetrics Chapters cover topics including corpus processing frequency data and clustering methods Case studies illustrate each chapter with accompanying data sets R code and exercises for use by readers This book may be used in advanced undergraduate courses graduate courses and self study

Statistics in Language Studies Anthony Woods,1989 **Analyzing Linguistic Data** R. H. Baayen,2008-03-06

Statistical analysis is a useful skill for linguists and psycholinguists allowing them to understand the quantitative structure of their data This textbook provides a straightforward introduction to the statistical analysis of language Designed for linguists with a non mathematical background it clearly introduces the basic principles and methods of statistical analysis using R the leading computational statistics programme The reader is guided step by step through a range of real data sets allowing them to analyse acoustic data construct grammatical trees for a variety of languages quantify register variation in corpus linguistics and measure experimental data using state of the art models The visualization of data plays a key role both in the initial stages of data exploration and later on when the reader is encouraged to criticize various models Containing over 40 exercises with model answers this book will be welcomed by all linguists wishing to learn more about working with and presenting quantitative data

Statistics in Historical Linguistics Sheila M. Embleton,1986 **Linguistics and Language Behavior Abstracts** ,2008 **Encyclopedia of Statistical Sciences: Li-Mi** ,2006 Statistical Methods in Language and Linguistic Research Pascual Cantos Gómez,2013-01-01

The linguistic community tend to regard statistical methods or more generally quantitative techniques with a certain amount of fear and suspicion There is a feeling that statistics falls in the province of science and mathematics and such methods may destroy the magic of the literary text This book seeks to make quantitative methods and statistical techniques less forbidding and show how they can contribute to linguistic analysis and research It present some mathematical and statistical properties of natural languages and introduces some of the quantitative methods which are of the most value in working empirically with texts and corpora The various issues are illustrated with helpful examples from the most basic descriptive techniques to decision taking techniques and to more sophisticated multivariate statistical language models

Journal of Linguistics ,2015 **Leuven contributions in linguistics and philology** ,1972

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