



# Mathematics for Data Processing

McCullough, Robert N.

Note: This is not the actual book cover

# Mathematics For Data Processing By Mccullough 2nd Edition

**Daniel Peña, George C. Tiao, Ruey S. Tsay**



## **Mathematics For Data Processing By Mccullough 2nd Edition:**

Bayesian Data Analysis, Second Edition Andrew Gelman, John B. Carlin, Hal S. Stern, Donald B. Rubin, 2003-07-29

Incorporating new and updated information this second edition of THE bestselling text in Bayesian data analysis continues to emphasize practice over theory describing how to conceptualize perform and critique statistical analyses from a Bayesian perspective Its world class authors provide guidance on all aspects of Bayesian data analysis and include examples of real statistical analyses based on their own research that demonstrate how to solve complicated problems Changes in the new edition include Stronger focus on MCMC Revision of the computational advice in Part III New chapters on nonlinear models and decision analysis Several additional applied examples from the authors recent research Additional chapters on current models for Bayesian data analysis such as nonlinear models generalized linear mixed models and more Reorganization of chapters 6 and 7 on model checking and data collection Bayesian computation is currently at a stage where there are many reasonable ways to compute any given posterior distribution However the best approach is not always clear ahead of time Reflecting this the new edition offers a more pluralistic presentation giving advice on performing computations from many perspectives while making clear the importance of being aware that there are different ways to implement any given iterative simulation computation The new approach additional examples and updated information make Bayesian Data Analysis an excellent introductory text and a reference that working scientists will use throughout their professional life A Course in Time Series Analysis Daniel Peña, George C. Tiao, Ruey S. Tsay, 2011-01-25 New statistical methods and future directions of research in time series A Course in Time Series Analysis demonstrates how to build time series models for univariate and multivariate time series data It brings together material previously available only in the professional literature and presents a unified view of the most advanced procedures available for time series model building The authors begin with basic concepts in univariate time series providing an up to date presentation of ARIMA models including the Kalman filter outlier analysis automatic methods for building ARIMA models and signal extraction They then move on to advanced topics focusing on heteroscedastic models nonlinear time series models Bayesian time series analysis nonparametric time series analysis and neural networks Multivariate time series coverage includes presentations on vector ARMA models cointegration and multivariate linear systems Special features include Contributions from eleven of the world s leading figures in time series Shared balance between theory and application Exercise series sets Many real data examples Consistent style and clear common notation in all contributions 60 helpful graphs and tables Requiring no previous knowledge of the subject A Course in Time Series Analysis is an important reference and a highly useful resource for researchers and practitioners in statistics economics business engineering and environmental analysis An Instructor s Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley editorial department **Longitudinal Data Analysis** Donald Hedeker, Robert D. Gibbons, 2006-05-12 Longitudinal data analysis for biomedical and behavioral sciences This innovative

book sets forth and describes methods for the analysis of longitudinal data emphasizing applications to problems in the biomedical and behavioral sciences. Reflecting the growing importance and use of longitudinal data across many areas of research, the text is designed to help users of statistics better analyze and understand this type of data. Much of the material from the book grew out of a course taught by Dr. Hedeker on longitudinal data analysis. The material is therefore thoroughly classroom tested and includes a number of features designed to help readers better understand and apply the material. Statistical procedures featured within the text include Repeated measures analysis of variance, Multivariate analysis of variance for repeated measures, Random effects regression models, RRM, Covariance pattern models, Generalized estimating equations, GEE models, Generalizations of RRM and GEE for categorical outcomes. Practical in their approach, the authors emphasize the applications of the methods using real world examples for illustration. Some syntax examples are provided although the authors do not generally focus on software in this book. Several datasets and computer syntax examples are posted on this title's companion Web site. The authors intend to keep the syntax examples current as new versions of the software programs emerge. This text is designed for both undergraduate and graduate courses in longitudinal data analysis. Instructors can take advantage of overheads and additional course materials available online for adopters. Applied statisticians in biomedicine and the social sciences can also use the book as a convenient reference.

**Statistics of Extremes** Jan Beirlant, Yuri Goegebeur, Johan Segers, Jozef L. Teugels, 2004-10-15. Research in the statistical analysis of extreme values has flourished over the past decade; new probability models, inference and data analysis techniques have been introduced, and new application areas have been explored. *Statistics of Extremes* comprehensively covers a wide range of models and application areas, including risk and insurance, a major area of interest and relevance to extreme value theory. Case studies are introduced, providing a good balance of theory and application of each model discussed, incorporating many illustrated examples and plots of data. The last part of the book covers some interesting advanced topics, including time series, regression, multivariate and Bayesian modelling of extremes, the use of which has huge potential.

**A User's Guide to Principal Components** J. Edward Jackson, 2003-09-10. WILEY INTERSCIENCE PAPERBACK SERIES. The Wiley Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation. With these new unabridged softcover volumes, Wiley hopes to extend the lives of these works by making them available to future generations of statisticians, mathematicians, and scientists. From the Reviews of *A User's Guide to Principal Components*: The book is aptly and correctly named *A User's Guide*. It is the kind of book that a user at any level, novice or skilled practitioner, would want to have at hand for autotutorial, for refresher, or as a general purpose guide through the maze of modern PCA. Technometrics I recommend *A User's Guide to Principal Components* to anyone who is running multivariate analyses or who contemplates performing such analyses. Those who write their own software will find the book helpful in designing better programs. Those who use off the shelf software will find it invaluable in interpreting the

results Mathematical Geology      *SAS for Data Analysis* Mervyn G. Marasinghe, William J. Kennedy, 2008-12-10 This book is intended for use as the textbook in a second course in applied statistics that covers topics in multiple regression and analysis of variance at an intermediate level Generally students enrolled in such courses are primarily graduate majors or advanced undergraduate students from a variety of disciplines These students typically have taken an introductory level statistical methods course that requires the use of a software system such as SAS for performing statistical analysis Thus students are expected to have an understanding of basic concepts of statistical inference such as estimation and hypothesis testing Understandably adequate time is not available in a first course in statistical methods to cover the use of a software system adequately in the amount of time available for instruction The aim of this book is to teach how to use the SAS system for data analysis The SAS language is introduced at a level of sophistication not found in most introductory SAS books Important features such as SAS data step programming pointers and line hold speakers are described in detail The powerful graphics support available in SAS is emphasized throughout and many worked SAS program examples contain graphic components

*Randomization in Clinical Trials* William F. Rosenberger, John M. Lachin, 2015-11-23 Praise for the First Edition All medical statisticians involved in clinical trials should read this book Controlled Clinical Trials Featuring a unique combination of the applied aspects of randomization in clinical trials with a nonparametric approach to inference Randomization in Clinical Trials Theory and Practice Second Edition is the go to guide for biostatisticians and pharmaceutical industry statisticians Randomization in Clinical Trials Theory and Practice Second Edition features Discussions on current philosophies controversies and new developments in the increasingly important role of randomization techniques in clinical trials A new chapter on covariate adaptive randomization including minimization techniques and inference New developments in restricted randomization and an increased focus on computation of randomization tests as opposed to the asymptotic theory of randomization tests Plenty of problem sets theoretical exercises and short computer simulations using SAS to facilitate classroom teaching simplify the mathematics and ease readers understanding Randomization in Clinical Trials Theory and Practice Second Edition is an excellent reference for researchers as well as applied statisticians and biostatisticians The Second Edition is also an ideal textbook for upper undergraduate and graduate level courses in biostatistics and applied statistics William F Rosenberger PhD is University Professor and Chairman of the Department of Statistics at George Mason University He is a Fellow of the American Statistical Association and the Institute of Mathematical Statistics and author of over 80 refereed journal articles as well as The Theory of Response Adaptive Randomization in Clinical Trials also published by Wiley John M Lachin ScD is Research Professor in the Department of Epidemiology and Biostatistics as well as in the Department of Statistics at The George Washington University A Fellow of the American Statistical Association and the Society for Clinical Trials Dr Lachin is actively involved in coordinating center activities for clinical trials of diabetes He is the author of Biostatistical Methods The Assessment of Relative Risks Second

Edition also published by Wiley      **Quantile Regression** Cristina Davino, Marilena Furno, Domenico Vistocco, 2013-12-31 A guide to the implementation and interpretation of Quantile Regression models This book explores the theory and numerous applications of quantile regression offering empirical data analysis as well as the software tools to implement the methods The main focus of this book is to provide the reader with a comprehensive description of the main issues concerning quantile regression these include basic modeling geometrical interpretation estimation and inference for quantile regression as well as issues on validity of the model diagnostic tools Each methodological aspect is explored and followed by applications using real data Quantile Regression Presents a complete treatment of quantile regression methods including estimation inference issues and application of methods Delivers a balance between methodology and application Offers an overview of the recent developments in the quantile regression framework and why to use quantile regression in a variety of areas such as economics finance and computing Features a supporting website [www.wiley.com/go/quantile\\_regression](http://www.wiley.com/go/quantile_regression) hosting datasets along with R Stata and SAS software code Researchers and PhD students in the field of statistics economics econometrics social and environmental science and chemistry will benefit from this book      **Statistics and Causality** Wolfgang Wiedermann, Alexander von Eye, 2016-06-07 b STATISTICS AND CAUSALITY A one of a kind guide to identifying and dealing with modern statistical developments in causality Written by a group of well known experts Statistics and Causality Methods for Applied Empirical Research focuses on the most up to date developments in statistical methods in respect to causality Illustrating the properties of statistical methods to theories of causality the book features a summary of the latest developments in methods for statistical analysis of causality hypotheses The book is divided into five accessible and independent parts The first part introduces the foundations of causal structures and discusses issues associated with standard mechanistic and difference making theories of causality The second part features novel generalizations of methods designed to make statements concerning the direction of effects The third part illustrates advances in Granger causality testing and related issues The fourth part focuses on counterfactual approaches and propensity score analysis Finally the fifth part presents designs for causal inference with an overview of the research designs commonly used in epidemiology Statistics and Causality Methods for Applied Empirical Research also includes New statistical methodologies and approaches to causal analysis in the context of the continuing development of philosophical theories End of chapter bibliographies that provide references for further discussions and additional research topics Discussions on the use and applicability of software when appropriate Statistics and Causality Methods for Applied Empirical Research is an ideal reference for practicing statisticians applied mathematicians psychologists sociologists logicians medical professionals epidemiologists and educators who want to learn more about new methodologies in causal analysis The book is also an excellent textbook for graduate level courses in causality and qualitative logic      **Bayesian Data Analysis** Andrew Gelman, John B. Carlin, Hal S. Stern, David B. Dunson, Aki Vehtari, Donald B. Rubin, 2013-11-27 Winner of the 2016 De Groot Prize from the International Society for

Bayesian Analysis Now in its third edition this classic book is widely considered the leading text on Bayesian methods lauded for its accessible practical approach to analyzing data and solving research problems Bayesian Data Analysis Third Edition continues to take an applied

*Recent Advances in Quantitative Methods in Cancer and Human Health Risk Assessment* Lutz Edler, Christos Kitsos, 2005-12-13 Human health risk assessment involves the measuring of risk of exposure to disease with a view to improving disease prevention Mathematical biological statistical and computational methods play a key role in exposure assessment hazard assessment and identification and dose response modelling *Recent Advances in Quantitative Methods in Cancer and Human Health Risk Assessment* is a comprehensive text that accounts for the wealth of new biological data as well as new biological toxicological and medical approaches adopted in risk assessment It provides an authoritative compendium of state of the art methods proposed and used featuring contributions from eminent authors with varied experience from academia government and industry Provides a comprehensive summary of currently available quantitative methods for risk assessment of both cancer and non cancer problems Describes the applications and the limitations of current mathematical modelling and statistical analysis methods classical and Bayesian Includes an extensive introduction and discussion to each chapter Features detailed studies of risk assessments using biologically based modelling approaches Discusses the varying computational aspects of the methods proposed Provides a global perspective on human health risk assessment by featuring case studies from a wide range of countries Features an extensive bibliography with links to relevant background information within each chapter *Recent Advances in Quantitative Methods in Cancer and Human Health Risk Assessment* will appeal to researchers and practitioners in public health epidemiology and postgraduate students alike It will also be of interest to professionals working in risk assessment agencies

**Permutation Tests for Complex Data** Fortunato Pesarin, Luigi Salmaso, 2010-02-25 Complex multivariate testing problems are frequently encountered in many scientific disciplines such as engineering medicine and the social sciences As a result modern statistics needs permutation testing for complex data with low sample size and many variables especially in observational studies The Authors give a general overview on permutation tests with a focus on recent theoretical advances within univariate and multivariate complex permutation testing problems this book brings the reader completely up to date with today's current thinking Key Features Examines the most up to date methodologies of univariate and multivariate permutation testing Includes extensive software codes in MATLAB R and SAS featuring worked examples and uses real case studies from both experimental and observational studies Includes a standalone free software NPC Test Release 10 with a graphical interface which allows practitioners from every scientific field to easily implement almost all complex testing procedures included in the book Presents and discusses solutions to the most important and frequently encountered real problems in multivariate analyses A supplementary website containing all of the data sets examined in the book along with ready to use software codes Together with a wide set of application cases the Authors present a thorough theory of permutation testing both with

formal description and proofs and analysing real case studies Practitioners and researchers working in different scientific fields such as engineering biostatistics psychology or medicine will benefit from this book

**Random Graphs for Statistical Pattern Recognition** David J. Marchette, 2005-01-28 A timely convergence of two widely used disciplines Random Graphs for Statistical Pattern Recognition is the first book to address the topic of random graphs as it applies to statistical pattern recognition Both topics are of vital interest to researchers in various mathematical and statistical fields and have never before been treated together in one book The use of data random graphs in pattern recognition in clustering and classification is discussed and the applications for both disciplines are enhanced with new tools for the statistical pattern recognition community New and interesting applications for random graph users are also introduced This important addition to statistical literature features Information that previously has been available only through scattered journal articles Practical tools and techniques for a wide range of real world applications New perspectives on the relationship between pattern recognition and computational geometry Numerous experimental problems to encourage practical applications With its comprehensive coverage of two timely fields enhanced with many references and real world examples Random Graphs for Statistical Pattern Recognition is a valuable resource for industry professionals and students alike

*Regression Models for Time Series Analysis* Benjamin Kedem, Konstantinos Fokianos, 2005-02-25 A thorough review of the most current regression methods in time series analysis Regression methods have been an integral part of time series analysis for over a century Recently new developments have made major strides in such areas as non continuous data where a linear model is not appropriate This book introduces the reader to newer developments and more diverse regression models and methods for time series analysis Accessible to anyone who is familiar with the basic modern concepts of statistical inference Regression Models for Time Series Analysis provides a much needed examination of recent statistical developments Primary among them is the important class of models known as generalized linear models GLM which provides under some conditions a unified regression theory suitable for continuous categorical and count data The authors extend GLM methodology systematically to time series where the primary and covariate data are both random and stochastically dependent They introduce readers to various regression models developed during the last thirty years or so and summarize classical and more recent results concerning state space models To conclude they present a Bayesian approach to prediction and interpolation in spatial data adapted to time series that may be short and or observed irregularly Real data applications and further results are presented throughout by means of chapter problems and complements Notably the book covers Important recent developments in Kalman filtering dynamic GLMs and state space modeling Associated computational issues such as Markov chain Monte Carlo and the EM algorithm Prediction and interpolation Stationary processes

**Statistical Analysis of Designed Experiments** Ajit C. Tamhane, 2012-09-12 A indispensable guide to understanding and designing modern experiments The tools and techniques of Design of Experiments DOE allow researchers to successfully collect analyze and interpret data



across a wide array of disciplines Statistical Analysis of Designed Experiments provides a modern and balanced treatment of DOE methodology with thorough coverage of the underlying theory and standard designs of experiments guiding the reader through applications to research in various fields such as engineering medicine business and the social sciences The book supplies a foundation for the subject beginning with basic concepts of DOE and a review of elementary normal theory statistical methods Subsequent chapters present a uniform model based approach to DOE Each design is presented in a comprehensive format and is accompanied by a motivating example discussion of the applicability of the design and a model for its analysis using statistical methods such as graphical plots analysis of variance ANOVA confidence intervals and hypothesis tests Numerous theoretical and applied exercises are provided in each chapter and answers to selected exercises are included at the end of the book An appendix features three case studies that illustrate the challenges often encountered in real world experiments such as randomization unbalanced data and outliers Minitab software is used to perform analyses throughout the book and an accompanying FTP site houses additional exercises and data sets With its breadth of real world examples and accessible treatment of both theory and applications Statistical Analysis of Designed Experiments is a valuable book for experimental design courses at the upper undergraduate and graduate levels It is also an indispensable reference for practicing statisticians engineers and scientists who would like to further their knowledge of DOE

**Nonparametric Hypothesis Testing** Stefano Bonnini,Livio Corain,Marco Marozzi,Luigi Salmaso,2014-07-01 A novel presentation of rank and permutation tests with accessible guidance to applications in R Nonparametric testing problems are frequently encountered in many scientific disciplines such as engineering medicine and the social sciences This book summarizes traditional rank techniques and more recent developments in permutation testing as robust tools for dealing with complex data with low sample size Key Features Examines the most widely used methodologies of nonparametric testing Includes extensive software codes in R featuring worked examples and uses real case studies from both experimental and observational studies Presents and discusses solutions to the most important and frequently encountered real problems in different fields Features a supporting website [www.wiley.com/go/hypothesis\\_testing](http://www.wiley.com/go/hypothesis_testing) containing all of the data sets examined in the book along with ready to use R software codes Nonparametric Hypothesis Testing combines an up to date overview with useful practical guidance to applications in R and will be a valuable resource for practitioners and researchers working in a wide range of scientific fields including engineering biostatistics psychology and medicine

**Robust Regression and Outlier Detection** Peter J. Rousseeuw,Annick M. Leroy,2003-10-03 WILEY INTERSCIENCE PAPERBACK SERIES The Wiley Interscience Paperback Series consists of selected books that have been made more accessible to consumers in an effort to increase global appeal and general circulation With these new unabridged softcover volumes Wiley hopes to extend the lives of these works by making them available to future generations of statisticians mathematicians and scientists The writing style is clear and informal and much of the discussion is oriented to application In short the book is a keeper Mathematical

Geology I would highly recommend the addition of this book to the libraries of both students and professionals It is a useful textbook for the graduate student because it emphasizes both the philosophy and practice of robustness in regression settings and it provides excellent examples of precise logical proofs of theorems Even for those who are familiar with robustness the book will be a good reference because it consolidates the research in high breakdown affine equivariant estimators and includes an extensive bibliography in robust regression outlier diagnostics and related methods The aim of this book the authors tell us is to make robust regression available for everyday statistical practice Rousseeuw and Leroy have included all of the necessary ingredients to make this happen Journal of the American Statistical Association

Statistical Meta-Analysis with Applications Joachim Hartung, Guido Knapp, Bimal K. Sinha, 2011-09-20 An accessible introduction to performing meta analysis across various areas of research The practice of meta analysis allows researchers to obtain findings from various studies and compile them to verify and form one overall conclusion Statistical Meta Analysis with Applications presents the necessary statistical methodologies that allow readers to tackle the four main stages of meta analysis problem formulation data collection data evaluation and data analysis and interpretation Combining the authors expertise on the topic with a wealth of up to date information this book successfully introduces the essential statistical practices for making thorough and accurate discoveries across a wide array of diverse fields such as business public health biostatistics and environmental studies Two main types of statistical analysis serve as the foundation of the methods and techniques combining tests of effect size and combining estimates of effect size Additional topics covered include Meta analysis regression procedures Multiple endpoint and multiple treatment studies The Bayesian approach to meta analysis Publication bias Vote counting procedures Methods for combining individual tests and combining individual estimates Using meta analysis to analyze binary and ordinal categorical data Numerous worked out examples in each chapter provide the reader with a step by step understanding of the presented methods All exercises can be computed using the R and SAS software packages which are both available via the book's related Web site Extensive references are also included outlining additional sources for further study Requiring only a working knowledge of statistics Statistical Meta Analysis with Applications is a valuable supplement for courses in biostatistics business public health and social research at the upper undergraduate and graduate levels It is also an excellent reference for applied statisticians working in industry academia and government

**Handbook of Monte Carlo Methods** Dirk P. Kroese, Thomas Taimre, Zdravko I. Botev, 2013-06-06 A comprehensive overview of Monte Carlo simulation that explores the latest topics techniques and real world applications More and more of today's numerical problems found in engineering and finance are solved through Monte Carlo methods The heightened popularity of these methods and their continuing development makes it important for researchers to have a comprehensive understanding of the Monte Carlo approach Handbook of Monte Carlo Methods provides the theory algorithms and applications that helps provide a thorough understanding of the emerging dynamics of this rapidly growing

field The authors begin with a discussion of fundamentals such as how to generate random numbers on a computer Subsequent chapters discuss key Monte Carlo topics and methods including Random variable and stochastic process generation Markov chain Monte Carlo featuring key algorithms such as the Metropolis Hastings method the Gibbs sampler and hit and run Discrete event simulation Techniques for the statistical analysis of simulation data including the delta method steady state estimation and kernel density estimation Variance reduction including importance sampling latin hypercube sampling and conditional Monte Carlo Estimation of derivatives and sensitivity analysis Advanced topics including cross entropy rare events kernel density estimation quasi Monte Carlo particle systems and randomized optimization The presented theoretical concepts are illustrated with worked examples that use MATLAB a related Web site houses the MATLAB code allowing readers to work hands on with the material and also features the author s own lecture notes on Monte Carlo methods Detailed appendices provide background material on probability theory stochastic processes and mathematical statistics as well as the key optimization concepts and techniques that are relevant to Monte Carlo simulation Handbook of Monte Carlo Methods is an excellent reference for applied statisticians and practitioners working in the fields of engineering and finance who use or would like to learn how to use Monte Carlo in their research It is also a suitable supplement for courses on Monte Carlo methods and computational statistics at the upper undergraduate and graduate levels

*Predicting Species Occurrences* J. Michael Scott, Patricia Heglund, Michael L. Morrison, 2002-02 Predictions about where different species are where they are not and how they move across a landscape or respond to human activities if timber is harvested for instance or stream flow altered are important aspects of the work of wildlife biologists land managers and the agencies and policymakers that govern natural resources Despite the increased use and importance of model predictions these predictions are seldom tested and have unknown levels of accuracy Predicting Species Occurrences addresses those concerns highlighting for managers and researchers the strengths and weaknesses of current approaches as well as the magnitude of the research required to improve or test predictions of currently used models The book is an outgrowth of an international symposium held in October 1999 that brought together scientists and researchers at the forefront of efforts to process information about species at different spatial and temporal scales It is a comprehensive reference that offers an exhaustive treatment of the subject with 65 chapters by leading experts from around the world that review the history of the theory and practice of modeling and present a standard terminology examine temporal and spatial scales in terms of their influence on patterns and processes of species distribution offer detailed discussions of state of the art modeling tools and descriptions of methods for assessing model accuracy discuss how to predict species presence and abundance present examples of how spatially explicit data on demographics can provide important information for managers An introductory chapter by Michael A Huston examines the ecological context in which predictions of species occurrences are made and a concluding chapter by John A Wiens offers an insightful review and synthesis of the topics examined along

with guidance for future directions and cautions regarding misuse of models Other contributors include Michael P Austin Barry R Noon Alan H Fielding Michael Goodchild Brian A Maurer John T Rotenberry Paul Angermeier Pierre R Vernier and more than a hundred others Predicting Species Occurrences offers important new information about many of the topics raised in the seminal volume Wildlife 2000 University of Wisconsin Press 1986 and will be the standard reference on this subject for years to come Its state of the art assessment will play a key role in guiding the continued development and application of tools for making accurate predictions and is an indispensable volume for anyone engaged in species management or conservation

## Reviewing **Mathematics For Data Processing By Mccullough 2nd Edition**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Mathematics For Data Processing By Mccullough 2nd Edition**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Mathematics For Data Processing By Mccullough 2nd Edition Introduction**

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