

Knitr With R Markdown Karl Broman

R Markdown
Introduction to Data Science
Reproducible Research with R and RStudio
Bioinformatics Data Skills
Dynamic Documents with R and knitr
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r markdown the definitive guide is the first official book authored by the core r markdown developers that provides a comprehensive and accurate reference to the r markdown ecosystem with r markdown you can easily create reproducible data analysis reports presentations dashboards interactive applications books dissertations websites and journal articles while enjoying the simplicity of markdown and the great power of r and other languages in this book you will learn basics syntax of markdown and r code chunks how to generate figures and tables and how to use other computing languages built in output formats of r markdown pdf html word rtf markdown documents and ioslides slidy beamer powerpoint presentations extensions and applications dashboards tufte handouts xaringan reveal js presentations websites books journal articles and interactive tutorials advanced topics parameterized reports html widgets document templates custom output formats and shiny documents yihui xie is a software engineer at rstudio he has authored and co authored several r packages including knitr rmarkdown bookdown blogdown shiny xaringan and animation he has published three other books dynamic documents with r and knitr bookdown authoring books and technical documents with r markdown and blogdown creating websites with r markdown j j allaire is the founder of rstudio and the creator of the rstudio ide he is an author of several packages in the r markdown

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unlike the first edition the new edition has been split into two books thoroughly revised and updated this is the first book of the second edition of introduction to data science data wrangling and visualization with r it introduces skills that can help you tackle real world data analysis challenges these include r programming data wrangling with dplyr data visualization with ggplot2 file organization with unix linux shell version control with git and github and reproducible document preparation with quarto and knitr the new edition includes additional material on data table locales and accessing data through apis the book is divided into four parts r data visualization data wrangling and productivity tools each part has several chapters meant to be presented as one lecture and includes dozens of exercises the second book will cover topics including probability statistics and prediction algorithms with r throughout the book we use motivating case studies in each case study we try to realistically mimic a data scientist s experience for each of the skills covered we start by asking specific questions and answer these through data analysis examples of the case studies included in the book are us murder rates by state self reported student heights trends in world health and economics and the impact of vaccines on infectious disease rates this book is meant to be a textbook for a first course in data science no previous knowledge of r is necessary although some experience with programming may be helpful to be a successful data analyst implementing these skills covered in this book requires understanding advanced statistical concepts such as those covered the second book if you read and understand all the chapters and complete all the exercises in this book and understand statistical concepts you will be well positioned to perform basic data analysis tasks and you will be prepared to learn the more advanced concepts and skills needed to become an expert

praise for previous editions gandrud has written a great outline of how a fully

reproducible research project should look from start to finish with brief explanations of each tool that he uses along the way advanced undergraduate students in mathematics statistics and similar fields as well as students just beginning their graduate studies would benefit the most from reading this book many more experienced r users or second year graduate students might find themselves thinking i wish i'd read this book at the start of my studies when i was first learning r this book could be used as the main text for a class on reproducible research the american statistician reproducible research with r and r studio third edition brings together the skills and tools needed for doing and presenting computational research using straightforward examples the book takes you through an entire reproducible research workflow this practical workflow enables you to gather and analyze data as well as dynamically present results in print and on the web supplementary materials and example are available on the author's website new to the third edition updated package recommendations examples urls and removed technologies no longer in regular use more advanced r markdown and less latex in discussions of markup languages and examples stronger focus on reproducible working directory tools updated discussion of cloud storage services and persistent reproducible material citation added discussion of jupyter notebooks and reproducible practices in industry examples of data manipulation with tidyverse tibbles in addition to standard data frames and pivot longer and pivot wider functions for pivoting data features incorporates the most important advances that have been developed since the editions were published describes a complete reproducible research workflow from data gathering to the presentation of results shows how to automatically generate tables and figures using r includes instructions on formatting a presentation document via markup languages discusses cloud storage and versioning services particularly github explains how to use unix like shell programs for working with large research projects

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