

# Learn Ggplot2 Using Shiny App

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this book and app is for practitioners professionals researchers and students who want to learn how to make a plot within the r environment

using ggplot2 step by step without coding in widespread use in the statistical communities r is a free software language and environment for statistical programming and graphics many users find r to have a steep learning curve but to be extremely useful once overcome ggplot2 is an extremely popular package tailored for producing graphics within r but which requires coding and has a steep learning curve itself and shiny is an open source r package that provides a web framework for building web applications using r without requiring html css or javascript this manual integrating r ggplot2 and shiny introduces a new shiny app learn ggplot2 that allows users to make plots easily without coding with the learn ggplot2 shiny app users can make plots using ggplot2 without having to code each step reducing typos and error messages and allowing users to become familiar with ggplot2 code the app makes it easy to apply themes make multiplots combining several plots into one plot and download plots as png pdf or powerpoint files with editable vector graphics users can also make plots on any computer or smart phone learn ggplot2 using shiny app allows users to make publication ready plots in minutes without coding download plots with desired width height and resolution plot and download plots in png pdf and powerpoint formats with or without r code and with editable vector graphics

if you are a software programmer application developer or web developer with basic to intermediate knowledge of r programming and you want to build elegant graphs to display data that you can showcase to your clients this course is for you no knowledge of web technologies is required packt video courses are designed to cover the breadth of the topic in short hands on task based videos each course is divided into short manageable sections so you can watch the whole thing or jump to the bit you need the focus is on practical instructions and screencasts showing you how to get the job done following an example driven approach this course offers a practical way to learn how to build interactive graphs with ggplot 2 and shiny with the help of easy to understand examples and step by step instructions resource description page

shiny is an open source r package that provides an elegant and powerful web framework for building web applications using r this guide takes a fresh approach to developing scalable web applications it will enable you to create responsive interactive web applications using the complete r shiny suite

translate your data into info graphics using popular packages in r about this book use r s popular packages such as ggplot2 ggvis ggforce and more to create custom interactive visualization solutions create design and build interactive dashboards using shiny a highly practical guide to

help you get to grips with the basics of data visualization techniques and how you can implement them using r who this book is for if you are looking to create custom data visualization solutions using the r programming language and are stuck somewhere in the process this book will come to your rescue prior exposure to packages such as ggplot2 would be useful but not necessary however some r programming knowledge is required what you will learn get to know various data visualization libraries available in r to represent data generate elegant codes to craft graphics using ggplot2 ggvis and plotly add elements text animation and colors to your plot to make sense of data deepen your knowledge by adding bar charts scatterplots and time series plots using ggplot2 build interactive dashboards using shiny color specific map regions based on the values of a variable in your data frame create high quality journal publishable scatterplots create and design various three dimensional and multivariate plots in detail r is an open source language for data analysis and graphics that allows users to load various packages for effective and better data interpretation its popularity has soared in recent years because of its powerful capabilities when it comes to turning different kinds of data into intuitive visualization solutions this book is an update to our earlier r data visualization cookbook with 100 percent fresh content and covering all the cutting edge r data visualization tools this book is packed with practical recipes designed to provide you with all the guidance needed to get to grips with data visualization using r it starts off with the basics of ggplot2 ggvis and plotly visualization packages along with an introduction to creating maps and customizing them before progressively taking you through various ggplot2 extensions such as ggforce ggrepel and ganimate using real world datasets you will analyze and visualize your data as histograms bar graphs and scatterplots and customize your plots with various themes and coloring options the book also covers advanced visualization aspects such as creating interactive dashboards using shiny by the end of the book you will be equipped with key techniques to create impressive data visualizations with professional efficiency and precision style and approach this book is packed with practical recipes designed to provide you with all the guidance needed to get to grips with data visualization with r you will learn to leverage the power of r and ggplot2 to create highly customizable data visualizations of varying complexities the readers will then learn how to create design and build interactive dashboards using shiny

master the shiny web framework and take your r skills to a whole new level by letting you move beyond static reports shiny helps you create fully interactive web apps for data analyses users will be able to jump between datasets explore different subsets or facets of the data run models with parameter values of their choosing customize visualizations and much more hadley wickham from rstudio shows data scientists data

analysts statisticians and scientific researchers with no knowledge of html css or javascript how to create rich web apps from r this in depth guide provides a learning path that you can follow with confidence as you go from a shiny beginner to an expert developer who can write large complex apps that are maintainable and performant get started discover how the major pieces of a shiny app fit together put shiny in action explore shiny functionality with a focus on code samples example apps and useful techniques master reactivity go deep into the theory and practice of reactive programming and examine reactive graph components apply best practices examine useful techniques for making your shiny apps work well in production

the richly illustrated interactive based data visualization with r plotly and shiny focuses on the process of programming interactive web graphics for multidimensional data analysis it is written for the data analyst who wants to leverage the capabilities of interactive web graphics without having to learn web programming through many r code examples you will learn how to tap the extensive functionality of these tools to enhance the presentation and exploration of data by mastering these concepts and tools you will impress your colleagues with your ability to quickly generate more informative engaging and reproducible interactive graphics using free and open source software that you can share over email export to pdf and more key features convert static ggplot2 graphics to an interactive web based form link animate and arrange multiple plots in standalone html from r embed modify and respond to plotly graphics in a shiny app learn best practices for visualizing continuous discrete and multivariate data learn numerous ways to visualize geo spatial data this book makes heavy use of plotly for graphical rendering but you will also learn about other r packages that support different phases of a data science workflow such as tidyr dplyr and tidyverse along the way you will gain insight into best practices for visualization of high dimensional data statistical graphics and graphical perception the printed book is complemented by an interactive website where readers can view movies demonstrating the examples and interact with graphics

progressively explore ui development with shiny via practical examples key features write a shiny interface in pure html explore powerful layout functions to make attractive dashboards and other intuitive interfaces get to grips with bootstrap and leverage it in your shiny applications book description although vanilla shiny applications look attractive with some layout flexibility you may still want to have more control over how the interface is laid out to produce a dashboard hands on dashboard development with shiny helps you incorporate this in your applications the

book starts by guiding you in producing an application based on the diamonds dataset included in the ggplot2 package you'll create a single application but the interface will be reskinned and rebuilt throughout using different methods to illustrate their uses and functions using html css and javascript you will also learn to develop an application that creates documents and reports using r markdown furthermore the book demonstrates the use of html templates and the bootstrap framework moving along you will learn how to produce dashboards using the shiny command and dashboard package finally you will learn how to lay out applications using a wide range of built in functions by the end of the book you will have an understanding of the principles that underpin layout in shiny applications including sections of html added to a vanilla shiny application html interfaces written from scratch dashboards navigation bars and interfaces what you will learn add html to a shiny application and write its interfaces from scratch in html use built in shiny functions to produce attractive and flexible layouts produce dashboards adding icons and notifications explore bootstrap themes to lay out your applications get insights into ui development with hands on examples use r markdown to create and download reports who this book is for if you have some experience writing shiny applications and want to use html css and bootstrap to make custom interfaces then this book is for you

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fundamentals of r and will move on to looking at simple and practical examples these examples will enable you to grasp many useful tools that will assist you in solving the usual problems that can be faced when developing data visualizations you will then walk through the integration of shiny with r in general and view the different visualization possibilities out there finally you will put your skills to the test and create your first web application style and approach this is a comprehensive step by step guide that will allow you to learn and make full use of r and shiny s capabilities in a gradual way together with clear applied examples

master the shiny web framework and take your r skills to a whole new level shiny helps you create fully interactive web apps for data analyses by letting you move beyond static reports tables and graphs your users will be able to jump between datasets explore different subsets run models with parameter values of their choosing customize visualizations and much more hadley wickham from r studio shows data scientists data analysts statisticians and scientific researchers with no knowledge of html css or javascript how to create complex shiny apps shiny is easy to learn but even intermediate users often wonder what they ve missed this in depth introduction provides a learning path that you can follow with confidence getting started begin with a tutorial style exploration of the basics shiny in action explore shiny functionality with a focus on code samples and example apps best practices learn techniques for managing complexity and ensuring correctness and explore ways to measure and improve your shiny app s scalability mastering reactivity learn the underlying theory of reactivity to improve your ability to reason about complex shiny apps

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you'll need plenty of tools that enable you to extract the most useful knowledge from data. Data wrangling with R will help you to gain a deep understanding of ways to wrangle and prepare datasets for exploration, analysis, and modeling. This data book enables you to get your data ready for more optimized analyses. Develop your first data model and perform effective data visualization. The book begins by teaching you how to load and explore datasets. Then you'll get to grips with the modern concepts and tools of data wrangling as data wrangling and visualization are intrinsically connected. You'll go over best practices to plot data and extract insights from it. The chapters are designed in a way to help you learn all about modeling as you will go through the construction of a data science project from end to end and become familiar with the built-in RStudio including an application built with shiny dashboards. By the end of this book you'll have learned how to create your first data model and build an application with shiny in R. What you will learn: Discover how to load datasets and explore data in RWork with different types of variables in datasets Create basic and advanced visualizations Find out how to build your first data model Create graphics using ggplot2 in a step-by-step way In Microsoft Power BI Get familiarized with building an application in R with shiny Who this book is for: If you are a professional data analyst, data scientist, or beginner who wants to learn more about data wrangling, this book is for you. Familiarity with the basic concepts of R programming or any other object-oriented programming language will help you to grasp the concepts taught in this book. Data analysts looking to improve their data manipulation and visualization skills will also benefit immensely from this book.

This book contains 6 parts providing step-by-step guides to create easily beautiful graphics using the R package ggplot2. The first part provides a quick introduction to R and to the ggplot2 plotting system. From part II to IV we show how to create and customize several graph types including density plots, histogram plots, ECDF, QQ plots, scatter plots, box plots, violin plots, dot plots, strip charts, line plots, bar plots, and pie charts. Part V covers how to change graphical parameters including main title and axis labels, legend titles, position and appearance, colors, point shapes, colors and size, line types, axis limits and transformations, log and sqrt axis ticks, customize tick marks and labels, themes and background colors, text annotations, adding straight lines to a plot, horizontal, vertical, and regression lines, rotating a plot, facets, split a plot into a matrix of panels, and coordinate systems. Part VI describes some extensions of ggplot2 including arranging multiple graphs on the same page, correlation matrix visualization, and survival curves. About the author: Alboukadel Kassambara is a PhD in bioinformatics and cancer biology. He works since many years on genomic data analysis and visualization. He created a bioinformatics tool named Genomicscape ([genomicscape.com](http://genomicscape.com)) which is an easy

to use web tool for gene expression data analysis and visualization he developed also a website called sthda statistical tools for high throughput data analysis sthda com which contains many tutorials on data analysis and visualization using r software and packages he is the author of the r packages survminer for analyzing and drawing survival curves ggcorrplot for drawing correlation matrix using ggplot2 and factoextra to easily extract and visualize the results of multivariate analysis such pca ca mca and clustering

ggplot2 is a powerful and a flexible r package for producing elegant graphics piece by piece it has become a popular package for data visualization this book presents the essentials of ggplot2 to easily create beautiful graphics in r key features covers the most important graphic functions short self contained chapters with practical examples

ggplot2 is a popular r package for data visualization this book provides quick start guides to create beautiful graphics in r using ggplot2

over 80 recipes to help you breeze through your data analysis projects using r about this book analyse your data using the popular r packages like ggplot2 with ready to use and customizable recipes find meaningful insights from your data and generate dynamic reports a practical guide to help you put your data analysis skills in r to practical use who this book is for this book is for data scientists analysts and even enthusiasts who want to learn and implement the various data analysis techniques using r in a practical way those looking for quick handy solutions to common tasks and challenges in data analysis will find this book to be very useful basic knowledge of statistics and r programming is assumed what you will learn acquire format and visualize your data using r using r to perform an exploratory data analysis introduction to machine learning algorithms such as classification and regression get started with social network analysis generate dynamic reporting with shiny get started with geospatial analysis handling large data with r using spark and mongodb build recommendation system collaborative filtering content based and hybrid learn real world dataset examples fraud detection and image recognition in detail data analytics with r has emerged as a very important focus for organizations of all kinds r enables even those with only an intuitive grasp of the underlying concepts without a deep mathematical background to unleash powerful and detailed examinations of their data this book will show you how you can put your data analysis skills in r to practical use with recipes catering to the basic as well as advanced data analysis tasks right from acquiring your data and preparing it for analysis to the more complex data analysis techniques the book will show you how you can implement each

technique in the best possible manner you will also visualize your data using the popular r packages like ggplot2 and gain hidden insights from it starting with implementing the basic data analysis concepts like handling your data to creating basic plots you will master the more advanced data analysis techniques like performing cluster analysis and generating effective analysis reports and visualizations throughout the book you will get to know the common problems and obstacles you might encounter while implementing each of the data analysis techniques in r with ways to overcoming them in the easiest possible way by the end of this book you will have all the knowledge you need to become an expert in data analysis with r and put your skills to test in real world scenarios style and approach hands on recipes to walk through data science challenges using r your one stop solution for common and not so common pain points while performing real world problems to execute a series of tasks addressing your common and not so common pain points this is a book that you must have on the shelf

over 80 recipes to help you breeze through your data analysis projects using rabout this book analyse your data using the popular r packages like ggplot2 with ready to use and customizable recipes find meaningful insights from your data and generate dynamic reports a practical guide to help you put your data analysis skills in r to practical usewho this book is forthis book is for data scientists analysts and even enthusiasts who want to learn and implement the various data analysis techniques using r in a practical way those looking for quick handy solutions to common tasks and challenges in data analysis will find this book to be very useful basic knowledge of statistics and r programming is assumed what you will learn acquire format and visualize your data using r using r to perform an exploratory data analysis introduction to machine learning algorithms such as classification and regression get started with social network analysis generate dynamic reporting with shiny get started with geospatial analysis handling large data with r using spark and mongodb build recommendation system collaborative filtering content based and hybrid learn real world dataset examples fraud detection and image recognitionin detaildata analytics with r has emerged as a very important focus for organizations of all kinds r enables even those with only an intuitive grasp of the underlying concepts without a deep mathematical background to unleash powerful and detailed examinations of their data this book will show you how you can put your data analysis skills in r to practical use with recipes catering to the basic as well as advanced data analysis tasks right from acquiring your data and preparing it for analysis to the more complex data analysis techniques the book will show you how you can implement each technique in the best possible manner you will also visualize your data using the popular r packages like ggplot2 and gain hidden insights from

it starting with implementing the basic data analysis concepts like handling your data to creating basic plots you will master the more advanced data analysis techniques like performing cluster analysis and generating effective analysis reports and visualizations throughout the book you will get to know the common problems and obstacles you might encounter while implementing each of the data analysis techniques in r with ways to overcoming them in the easiest possible way by the end of this book you will have all the knowledge you need to become an expert in data analysis with r and put your skills to test in real world scenarios style and approach hands on recipes to walk through data science challenges using r your one stop solution for common and not so common pain points while performing real world problems to execute a series of tasks addressing your common and not so common pain points this is a book that you must have on the shelf

in this handy practical book you will cover each concept concisely with many illustrative examples you ll be introduced to several r data science packages with examples of how to use each of them in this book you ll learn about the following apis and packages that deal specifically with data science applications readr dibble forecasts lubridate stringr tidyr magrittr dplyr purrr ggplot2 modelr and more after using this handy quick reference guide you ll have the code apis and insights to write data science based applications in the r programming language you ll also be able to carry out data analysis what you will learn import data with readr work with categories using forcats time and dates with lubridate and strings with stringr format data using tidyr and then transform that data using magrittr and dplyr write functions with r for data science data mining and analytics based applications visualize data with ggplot2 and fit data to models using modelr who this book is for programmers new to r s data science data mining and analytics packages some prior coding experience with r in general is recommended

the foundational hands on skills you need to dive into data science freeman and ross have created the definitive resource for new and aspiring data scientists to learn foundational programming skills from the foreword by jared lander series editor using data science techniques you can transform raw data into actionable insights for domains ranging from urban planning to precision medicine programming skills for data science brings together all the foundational skills you need to get started even if you have no programming or data science experience leading instructors michael freeman and joel ross guide you through installing and configuring the tools you need to solve professional level data science problems including the widely used r language and git version control system they explain how to wrangle your data into a form where

it can be easily used analyzed and visualized so others can see the patterns you've uncovered step by step you'll master powerful R programming techniques and troubleshooting skills for probing data in new ways and at larger scales Freeman and Ross teach through practical examples and exercises that can be combined into complete data science projects everything's focused on real world application so you can quickly start analyzing your own data and getting answers you can act upon learn to install your complete data science environment including R and RStudio manage projects efficiently from version tracking to documentation host manage and collaborate on data science projects with GitHub master R language fundamentals syntax programming concepts and data structures load format explore and restructure data for successful analysis interact with databases and web APIs master key principles for visualizing data accurately and intuitively produce engaging interactive visualizations with ggplot and other R packages transform analyses into sharable documents and sites with R Markdown create interactive web data science applications with shiny collaborate smoothly as part of a data science team register your book for convenient access to downloads updates and or corrections as they become available see inside book for details

analyze visualize and communicate data with the power of R R for developers is your hands on guide to using R the go to language for statistical programming data analysis and stunning visualizations designed for developers analysts and data enthusiasts this book turns theory into practice with real world examples modern tools and clean coding approaches learn to manipulate data run statistical models and craft impactful visualizations using R's rich ecosystem including tidyverse ggplot2 and shiny whether you're transitioning from another language or new to R you'll quickly build confidence in applying R to real data projects

discover how to use the popular RStudio IDE as a professional tool that includes code refactoring support debugging and git version control integration this book gives you a tour of RStudio and shows you how it helps you do exploratory data analysis build data visualizations with ggplot and create custom R packages and web based interactive visualizations with shiny in addition you will cover common data analysis tasks including importing data from diverse sources such as SAS files CSV files and JSON you will map out the features in RStudio so that you will be able to customize RStudio to fit your own style of coding finally you will see how to save a ton of time by adopting best practices and using packages to extend RStudio learn RStudio IDE is a quick no nonsense tutorial of RStudio that will give you a head start to develop the insights you need in

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## Introduction

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## Conclusion

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## FAQs

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