

## ozanevkaya

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# Sharing the knowledge: user friendly books



ozanevkaya 3 days ago · 6 min read



Recently, the way how the books are written is changed with the development of technology as well. **As a real R-addict, I am a huge fan of the books written by bookdown package in R.** As they say;

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*The **bookdown** package is an open-source R package that facilitates writing books and long-form articles/reports with R Markdown.*

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In this story, I would like to summarize some of the books written 2021 by this swiss-army-knife friend. For sure, there is more but I tried to stick with the last year and planning to make other short summaries for previous years. **Some of them just published, some of them are the recent version of old ones as I captured.** Let's rock and roll!

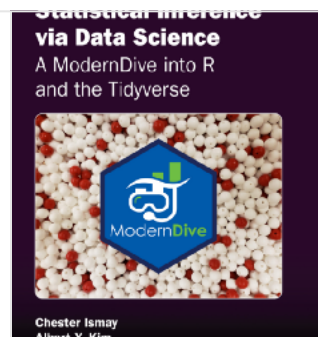
## 1. Statistical Inference via Data Science (*Chester Ismay and Albert Y. Kim*)

One of my favorite, really good nutshell for various concepts to start from the scratch. For sure the name and the logo is attractive enough.

### Statistical Inference via Data Science

An open-source and fully-reproducible electronic textbook for teaching statistical inference using tidyverse data...

[moderndive.com](https://moderndive.com)



## 2. Beyond Multiple Linear Regression (*Paul Roback and Julie Legler*)

This is the online version of *Beyond Multiple Linear Regression: Applied Generalized Linear Models and Multilevel Models in R*. You can buy the hard copy as well, but I am glad to see that it is online. For different fields, it could be **a good summary if you are dealing with the linear models and more**. I guess it deserves to be in different languages.

### Beyond Multiple Linear Regression

An applied textbook on generalized linear models and multilevel models for advanced undergraduates, featuring many...

[bookdown.org](https://bookdown.org)

## 3. Efficient R Programming (*Colin Gillespie, Robin Lovelace*)

We can write codes to solve our problems but if they are not efficient, we have a problem in the long-run. I need to learn more about **writing codes efficiently** and I feel that this book is a good ally and it is the online version of the O'Reilly book: Efficient R programming.

### Efficient R programming

This is the online version of the O'Reilly book: Efficient R programming. Pull requests and general comments are...

[csgillespie.github.io](https://csgillespie.github.io)



#### 4. i2DS: Data Analysis and Prediction Algorithms in R (*Rafael A. Irizarry*)

If you learn more about the tools of data science, this is gonna be another **well-designed nutshell** for you. In addition to classical cycle of a project, there is another section called **Productivity tools** including the use of Git, Github etc. I think it includes really good tips for all of us.

##### **Introduction to Data Science**

This book introduces concepts and skills that can help you tackle real-world data analysis challenges. It covers...

[rafalab.github.io](http://rafalab.github.io)

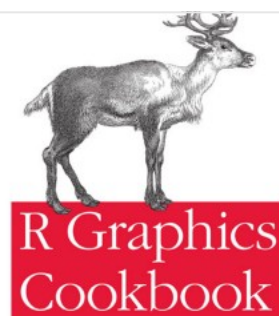
#### 5. R Graphics Cookbook (*Winston Chang*)

Really a shining star I guess. For **data visualization** it has lots of details to work with. Without further ado, jump into the book and try to reproduce the examples to learn more.

##### **R Graphics Cookbook, 2nd edition**

This cookbook contains more than 150 recipes to help scientists, engineers, programmers, and data analysts generate...

[r-graphics.org](http://r-graphics.org)



#### 6. Outstanding User Interfaces with Shiny (*David Granjon*)

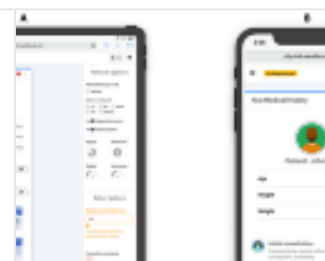
If you are interested more in developing Shiny apps, I guess, after the book entitled **“Interactive web-based data visualization with R, plotly, and shiny”**, the next step **might be this one**. As author says;

*This book is the result of three years of spare time work and passion about the open source R Shiny world.*

##### **Welcome | Outstanding User Interfaces with Shiny**

This book is the result of three years of spare time work and passion about the open source R Shiny world. It is under...

[unleash-shiny.rinterface.com](http://unleash-shiny.rinterface.com)



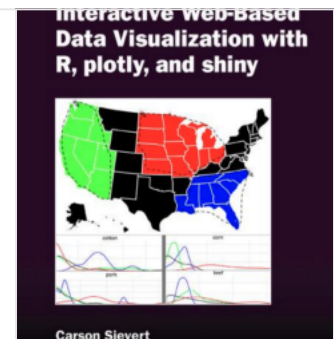


For sure, attached to this one, the first step should be noted here. I think starting with the below one is a good strategy;

### **Interactive web-based data visualization with R, plotly, and shiny**

This is the website for "Interactive web-based data visualization with R, plotly, and shiny". In this book, you'll gain...

[plotly-r.com](http://plotly-r.com)



Let's have a look at some field specific titles as well. There are numerous bookdowns written by experts from diverse research fields and you can find some of them (recently published) here,

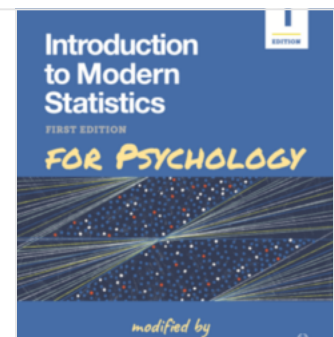
## **1. Introduction to Modern Statistics for Psychology (Mine Çetinkaya-Rundel, Johanna Hardin, tuned by Gregory Cox)**

If I would give a course for Psychology students (maybe social science students in general), this is definitely my first choice as a general source for the course. With the help of book source, it will be **easy to prepare lecture notes** by following its general skeleton.

### **Introduction to Modern Statistics for Psychology**

This is the website for a modified version of Introduction to Modern Statistics, First Edition by Mine Çetinkaya-Rundel...

[bookdown.org](http://bookdown.org)



## **2. Reproducible Medical Research with R (Peter D.R. Higgins)**

This is a **great helpmate** for doing research in the **medical field** with reproducibility concern. It includes all the basics for anyone in the medical field as I identified,

### **Reproducible Medical Research with R**

Welcome to Reproducible Medical Research with R (RMRWR). I hope that this book is helpful

to you. This is a book for...

bookdown.org

### 3. Introduction to Environmental Data Science (*Jerry Davis*)

As we all know, exploiting the data science toolkits in various fields are really common in our world. So one can find lots of books with title reflecting *inter-disciplinary* approach. This book is really **generous about data visualization** and includes basics of modeling and time series part at the end.

#### Introduction to Environmental Data Science

Background, concepts and exercises for using R for environmental data science. The focus is on applying the R language...

bookdown.org



### 4. Introduction to Computational Finance and Financial Econometrics in R (*Eric Zivot*)

It is really a dense one having lots of modeling tools in **econometrics** and **computational finance with R**. The author is really well-known in his field and have a long history about this book.

#### Introduction to Computational Finance and Financial Econometrics with R

Outline of preface (preliminary and incomplete). June 21, 2016. I started teaching the course Introduction to Financial...

bookdown.org

You can find an R package for the data sets used in this book as well;

*The R package IntroCompFinR contains all of the financial data (downloaded from finance.yahoo.com) used for the examples presented in the book as well as a number of R functions for portfolio and risk analysis. The package is freely available on R-forge and can be installed using* `install.packages("IntroCompFinR", repos="http://R-Forge.R-project.org")`

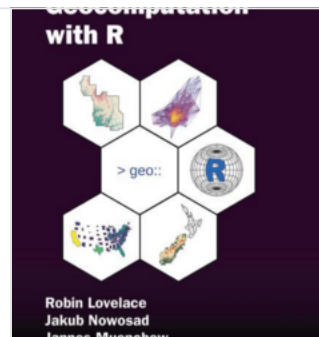
## 5. Geocomputation with R (Robin Lovelace, Jakub Nowosad, Jannes Muenchow)

This is the online version of **Geocomputation with R**, a book on geographic data analysis, visualization and modeling book written by bookdown. One of the stars in the corresponding field I guess, as an open source book and I really need to work on this soon,

### Welcome | Geocomputation with R

Welcome | Geocomputation with R is for people who want to analyze, visualize and model geographic data with open source...

[geocompr.robinlovelace.net](http://geocompr.robinlovelace.net)



## BONUS: Data Science with R: A Resource Compendium (Martin Monkman)

Finally, another bookdown could be a great friend for us to check resources for Data Science in R. As author declares,

*This book grew out of my evergrowing collection of reference materials that was saved as an expanding array of markdown files in a github repo. By assembling it as a book, I hope that it will be more accessible and useful to other R users.*

Even if this is an ongoing one, you can find a **list of resources** about your interest. I guess it is worth following...

### Data Science with R: A Resource Compendium

Draft This book grew out of my evergrowing collection of reference materials that was saved as an expanding array of...

[bookdown.org](http://bookdown.org)



As I mentioned, these are just **recently (re-)published in 2021** and we have more than that. Not surprisingly, the **bookdown pool continue to grow up** and the open source books with user-friendly properties are **great allies** for the researchers, academicians and so on so forth. **I hope to start contribute soon as by myself or with a group of ambitious colleagues.**

Please keep in touch for your suggestions and questions via

<https://www.linkedin.com/in/ozanevkaya/> and <https://github.com/oevkaya>.

R

Reprogramming

R Markdown

Data Science

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