

# R Without Statistics

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# About the Book

This is the in-progress version of *R Without Statistics*, a forthcoming book from No Starch Press.

Since R was invented in 1993, it has become a widely used programming language for statistical analysis. From academia to the tech world and beyond, R is used for a wide range of statistical analysis.

R's ubiquity in the world of statistics leads many to assume that it is only useful to those who do complex statistical work. But as R has grown in popularity, the number of ways it can be used has grown as well. Today, R is used for:

- Data visualization
- Map making
- Sharing results through reports, slides, and websites
- Automating processes
- And much more!

The idea that R is only for statistical analysis is outdated and inaccurate. But, without a single book that demonstrates the power of R for non-statistical purposes, this perception persists.

## **Enter R Without Statistics.**

R Without Statistics will show ways that R can be used beyond complex statistical analysis. Readers will learn about a range of uses for R, many of which they have likely never even considered.

Each chapter will, using a consistent format, cover one novel way of using R.

1. Readers will first be introduced to an R user who has done something novel and learn how using R in this way transformed their work.
2. Following this, there will be code samples that demonstrate exactly how the R user did the thing they are being profiled for.

3. Finally, there will be a summary, with lessons learned from this novel way of using R.

Written by David Keyes, Founder and CEO of R for the Rest of Us, R Without Statistics will be published by No Starch Press.

# Introduction





# Why R Without Statistics?



# **Illuminate**



# Use General Principles of High-Quality Data Viz in R



# Develop a Custom Theme to Keep Your Data Viz Consistent





# **R is a Full-Fledged Map-Making Tool**



# Make Tables That Look Good and Share Results Effectively



**Communicate**



Use RMarkdown to  
Communicate Accurately  
and Efficiently





**Use RMarkdown to  
Instantly Generate  
Hundreds of Reports**



# Create Beautiful Presentations with RMarkdown



# **Make Websites to Share Results Online**



# Automate





# Access Up to Date Census Data with the `tidycensus` Package



**Pull in Survey Results as  
Soon as They Come In**



# Stop Copying and Pasting Code by Creating Your Own Functions



# **Bundle Your Functions Together in Your Own R Package**





# Conclusion



**Come for the Data, Stay for  
the Community**