

# [PDF] Text Mining With R: A Tidy Approach

Julia Silge, David Robinson - pdf download free book

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## Text Mining with R

Much of the data available today is unstructured and text-heavy, making it challenging for analysts to apply their usual data wrangling and visualization tools. With this practical book, you'll explore text-mining techniques with `tidytext`, a package that authors Julia Silge and David Robinson developed using the tidy principles behind R packages like `ggplot2` and `dplyr`. You'll learn how `tidytext` and other tidy tools in R can make text analysis easier and more effective.

The authors demonstrate how treating text as data frames enables you to manipulate, summarize, and visualize characteristics of text. You'll also learn how to integrate natural language processing (NLP) into effective workflows. Practical code examples and data explorations will help you generate real insights from literature, news, and social media.

- Learn how to apply the `tidytext` format to NLP
- Use sentiment analysis to mine the emotional content of text
- Identify a document's most important terms with frequency measurements
- Explore relationships and connections between words with the `ggraph` and `widyr` packages
- Convert back and forth between R's tidy and non-tidy text formats
- Use topic modeling to classify document collections into natural groups
- Examine case studies that compare Twitter archives, dig into NASA metadata, and analyze thousands of Usenet messages

**Julia Silge** is a data scientist at Stack Overflow, analyzes complex datasets and communicates technical topics to diverse audiences. She has a PhD in analytics and loves line art and making beautiful charts.

**David Robinson** is a data scientist at Stack Overflow with a PhD in Quantitative and Computational Biology from Princeton University. He enjoys developing open-source R packages, including `boom`, `gganimate`, `fuzyplot`, and `widyr`.

"David and Julia have transformed text analysis in R. With `tidytext`, it's no longer necessary to learn a complex set of tools; you can now apply everything you already know about manipulating and visualizing data frames."

—Hadley Wickham  
Chief Scientist at RStudio  
Adjunct Professor of Statistics at the  
University of Auckland  
Stanford University  
and UC Berkeley

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