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R for Data Science

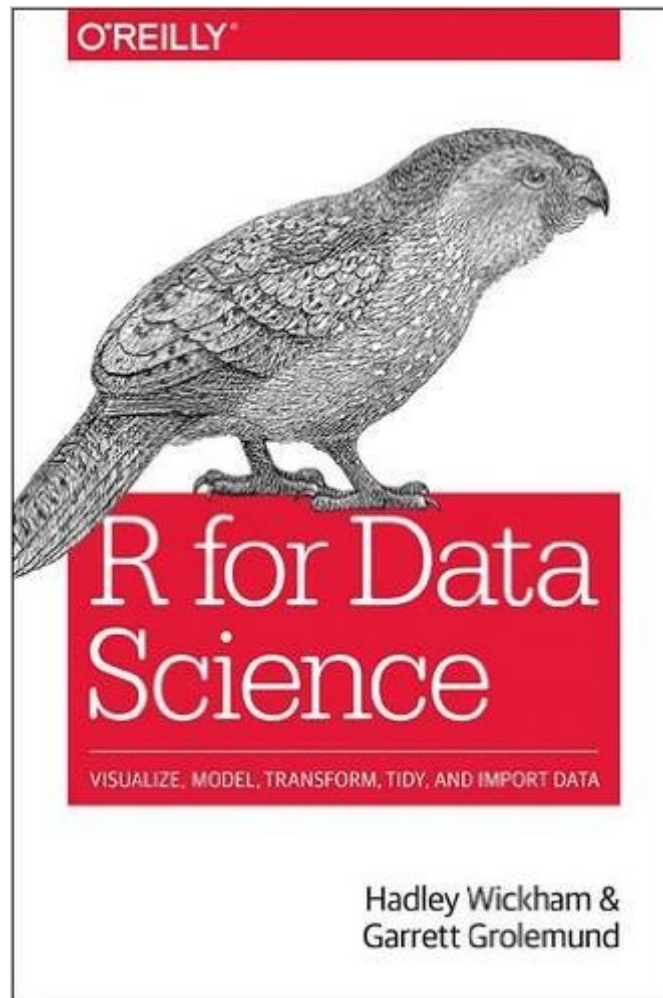VISUALIZE, MODEL, TRANSFORM, TIDY, AND IMPORT DATA

Hadley Wickham &
Garrett Grolemund

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Synopsis

What exactly is data science? With this book, youâ ™ll gain a clear understanding of this discipline for discovering natural laws in the structure of data. Along the way, youâ ™ll learn how to use the versatile R programming language for data analysis.Whenever you measure the same thing twice, you get two resultsâ ”as long as you measure precisely enough. This phenomenon creates uncertainty and opportunity. Author Garrett Grolemund, Master Instructor at RStudio, shows you how data science can help you work with the uncertainty and capture the opportunities. Youâ ™ll learn about:Data Wranglingâ ”how to manipulate datasets to reveal new informationData Visualizationâ ”how to create graphs and other visualizationsExploratory Data Analysisâ ”how to find evidence of relationships in your measurementsModellingâ ”how to derive insights and predictions from your dataInferenceâ ”how to avoid being fooled by data analyses that cannot provide foolproof resultsThrough the course of the book, youâ ™ll also learn about the statistical worldview, a way of seeing the world that permits understanding in the face of uncertainty, and simplicity in the face of complexity.

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