



# Chapter 2 R Ggplot2 Examples Department Of Statistics

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## Chapter 2 R Ggplot2 Examples Department Of Statistics:

*Data Science for Water Utilities* Peter Prevos, 2023-05-10 This addition to the Data Science Series introduces the principles of data science and the R language to the singular needs of water professionals The book provides unique data and examples relevant to managing water utility and is sourced from the author's extensive experience Data Science for Water Utilities Data as a Source of Value is an applied practical guide that shows water professionals how to use data science to solve urban water management problems Content develops through four case studies The first looks at analysing water quality to ensure public health The second considers customer feedback The third case study introduces smart meter data The guide flows easily from basic principles through code that with each case study increases in complexity The last case study analyses data using basic machine learning Readers will be familiar with analysing data but do not need coding experience to use this book The title will be essential reading for anyone seeking a practical introduction to data science and creating value with R

**ggplot2** Hadley Wickham, 2016-06-08 This new edition to the classic book by ggplot2 creator Hadley Wickham highlights compatibility with knitr and RStudio ggplot2 is a data visualization package for R that helps users create data graphics including those that are multi layered with ease With ggplot2 it's easy to produce handsome publication quality plots with automatic legends created from the plot specification superimpose multiple layers points lines maps tiles box plots from different data sources with automatically adjusted common scales add customizable smoothers that use powerful modeling capabilities of R such as loess linear models generalized additive models and robust regression save any ggplot2 plot or part thereof for later modification or reuse create custom themes that capture in house or journal style requirements and that can easily be applied to multiple plots approach a graph from a visual perspective thinking about how each component of the data is represented on the final plot This book will be useful to everyone who has struggled with displaying data in an informative and attractive way Some basic knowledge of R is necessary e g importing data into R ggplot2 is a mini language specifically tailored for producing graphics and you'll learn everything you need in the book After reading this book you'll be able to produce graphics customized precisely for your problems and you'll find it easy to get graphics out of your head and on to the screen or page

R for Data Science Hadley Wickham, Mine Çetinkaya-Rundel, Garrett Grolemund, 2023-06-08 Cover Copyright Table of Contents Preface What You Will Learn How This Book Is Organized What You Won't Learn Big Data Python Julia and Friends Nonrectangular Data Hypothesis Confirmation Prerequisites R RStudio The Tidyverse Other Packages Running R Code Getting Help and Learning More Acknowledgments Online Version Conventions Used in This Book Using Code Examples O'Reilly Online Learning How to Contact Us Part I Explore Chapter 1 Data Visualization with ggplot2 Introduction Prerequisites First Steps The mpg Data Frame Creating a ggplot A Graphing Template Exercises Aesthetic Mappings Exercises Common Problems Facets Exercises Geometric Objects Exercises Statistical Transformations Exercises Position Adjustments Exercises Coordinate Systems Exercises The Layered

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