

AN R COMPANION TO POLITICAL ANALYSIS

AN R COMPANION TO POLITICAL ANALYSIS: UNLOCKING THE POWER OF DATA IN POLITICAL SCIENCE

INTRODUCTION:

ARE YOU A POLITICAL SCIENCE STUDENT, RESEARCHER, OR ANALYST DROWNING IN DATA? DO YOU YEARN TO MOVE BEYOND SIMPLE DESCRIPTIVE STATISTICS AND DELVE INTO THE POWERFUL WORLD OF QUANTITATIVE ANALYSIS? THIS COMPREHENSIVE GUIDE SERVES AS YOUR ULTIMATE "R COMPANION TO POLITICAL ANALYSIS," EQUIPPING YOU WITH THE ESSENTIAL R PROGRAMMING SKILLS AND STATISTICAL TECHNIQUES TO UNLOCK VALUABLE INSIGHTS FROM POLITICAL DATASETS. WE'LL JOURNEY FROM BASIC DATA MANIPULATION AND VISUALIZATION TO ADVANCED STATISTICAL MODELING, ALL TAILORED SPECIFICALLY FOR POLITICAL SCIENCE APPLICATIONS. PREPARE TO TRANSFORM RAW DATA INTO COMPELLING NARRATIVES THAT INFORM YOUR RESEARCH AND DEEPEN YOUR UNDERSTANDING OF THE POLITICAL LANDSCAPE. THIS POST PROVIDES A STRUCTURED APPROACH, COMPLETE WITH PRACTICAL EXAMPLES AND CODE SNIPPETS, TO HELP YOU MASTER R FOR POLITICAL ANALYSIS.

CHAPTER 1: SETTING UP YOUR R ENVIRONMENT FOR POLITICAL ANALYSIS

BEFORE DIVING INTO THE EXCITING WORLD OF POLITICAL DATA ANALYSIS WITH R, WE NEED A SOLID FOUNDATION. THIS CHAPTER FOCUSES ON SETTING UP YOUR R ENVIRONMENT, INSTALLING NECESSARY PACKAGES, AND IMPORTING YOUR DATA EFFICIENTLY.

INSTALLING R AND RSTUDIO: WE'LL GUIDE YOU THROUGH A STEP-BY-STEP INSTALLATION PROCESS FOR BOTH R (THE PROGRAMMING LANGUAGE) AND RSTUDIO (A USER-FRIENDLY IDE). WE'LL EMPHASIZE THE IMPORTANCE OF CHOOSING THE CORRECT VERSIONS FOR YOUR OPERATING SYSTEM AND HIGHLIGHT TROUBLESHOOTING TIPS FOR COMMON INSTALLATION ISSUES.

ESSENTIAL PACKAGES FOR POLITICAL ANALYSIS: R'S STRENGTH LIES IN ITS EXTENSIVE PACKAGE ECOSYSTEM. WE'LL DISCUSS AND DEMONSTRATE THE INSTALLATION OF KEY PACKAGES LIKE 'TIDYVERSE' (FOR DATA MANIPULATION AND VISUALIZATION), 'GGPLOT2' (FOR CREATING STUNNING VISUALIZATIONS), AND SPECIALIZED PACKAGES FOR POLITICAL SCIENCE LIKE 'ELECTIONDATA' (FOR WORKING WITH ELECTION RESULTS) AND 'QUANTEDA' (FOR TEXT ANALYSIS).

IMPORTING DATA INTO R: POLITICAL DATA COMES IN VARIOUS FORMATS (CSV, SPSS, STATA, ETC.). WE'LL SHOW YOU HOW TO SEAMLESSLY IMPORT DATA FROM DIFFERENT SOURCES USING FUNCTIONS LIKE 'READ.CSV()', 'READ_EXCEL()', AND OTHERS, ENSURING YOUR DATA IS READY FOR ANALYSIS. WE'LL ALSO TOUCH UPON HANDLING DIFFERENT DATA TYPES AND CLEANING UP MESSY DATASETS.

CHAPTER 2: DATA MANIPULATION AND CLEANING IN R

RAW POLITICAL DATA RARELY ARRIVES IN A PERFECTLY USABLE FORMAT. THIS CHAPTER EQUIPS YOU WITH THE SKILLS TO CLEAN, TRANSFORM, AND PREPARE YOUR DATA FOR ANALYSIS.

DATA WRANGLING WITH 'DPLYR': THE 'DPLYR' PACKAGE WITHIN THE 'TIDYVERSE' IS INDISPENSABLE. WE'LL COVER ESSENTIAL 'DPLYR' VERBS LIKE 'SELECT()', 'FILTER()', 'MUTATE()', 'ARRANGE()', AND 'SUMMARIZE()' THROUGH PRACTICAL EXAMPLES RELATED TO POLITICAL DATA, SUCH AS FILTERING FOR SPECIFIC ELECTION YEARS, CALCULATING VOTE SHARES, OR CREATING NEW VARIABLES.

HANDLING MISSING DATA: MISSING VALUES ARE A COMMON PROBLEM IN REAL-WORLD DATASETS. WE'LL EXPLORE DIFFERENT APPROACHES TO HANDLE MISSING DATA, INCLUDING IMPUTATION TECHNIQUES AND THE IMPLICATIONS OF DIFFERENT STRATEGIES ON YOUR ANALYSIS.

DATA TRANSFORMATION AND RESHAPING: WE'LL ILLUSTRATE HOW TO RESHAPE YOUR DATA USING FUNCTIONS LIKE 'PIVOT_LONGER()' AND 'PIVOT_WIDER()', WHICH ARE CRUCIAL FOR PREPARING DATA FOR SPECIFIC ANALYTICAL PROCEDURES.

CHAPTER 3: DATA VISUALIZATION FOR POLITICAL SCIENCE

VISUALIZING DATA IS CRITICAL FOR COMMUNICATING FINDINGS EFFECTIVELY. THIS CHAPTER LEVERAGES THE POWER OF `'GGPLOT2'` TO CREATE INFORMATIVE AND ENGAGING VISUALIZATIONS.

CREATING BASIC PLOTS: WE'LL START WITH THE FUNDAMENTALS: BAR CHARTS, HISTOGRAMS, SCATTER PLOTS, AND LINE GRAPHS. WE'LL ADAPT THESE CLASSIC VISUALIZATIONS TO SHOWCASE POLITICAL DATA SUCH AS ELECTION RESULTS, PUBLIC OPINION POLLS, AND POLICY OUTCOMES.

ADVANCED PLOTTING TECHNIQUES: MOVING BEYOND THE BASICS, WE'LL EXPLORE MORE SOPHISTICATED TECHNIQUES SUCH AS FACETTING, LAYERING, AND CUSTOMIZING PLOT AESTHETICS TO CREATE CLEAR AND COMPELLING VISUALIZATIONS. WE WILL SHOWCASE EXAMPLES SPECIFIC TO POLITICAL SCIENCE, SUCH AS COMPARING ELECTION RESULTS ACROSS DIFFERENT STATES OR VISUALIZING THE CORRELATION BETWEEN ECONOMIC INDICATORS AND VOTING PATTERNS.

CREATING MAPS WITH POLITICAL DATA: VISUALIZING GEOGRAPHIC DATA IS ESSENTIAL IN POLITICAL ANALYSIS. WE'LL DEMONSTRATE TECHNIQUES FOR CREATING THEMATIC MAPS USING PACKAGES LIKE `'LEAFLET'` TO REPRESENT POLITICAL PHENOMENA ACROSS DIFFERENT REGIONS.

CHAPTER 4: STATISTICAL MODELING FOR POLITICAL ANALYSIS

THIS CHAPTER DELVES INTO THE STATISTICAL MODELING TECHNIQUES FREQUENTLY USED IN POLITICAL SCIENCE RESEARCH.

REGRESSION ANALYSIS: WE'LL COVER LINEAR REGRESSION, LOGISTIC REGRESSION, AND POTENTIALLY POISSON REGRESSION, EXPLAINING THEIR APPLICATION TO POLITICAL PHENOMENA LIKE THE IMPACT OF CAMPAIGN SPENDING ON ELECTION OUTCOMES OR THE RELATIONSHIP BETWEEN ECONOMIC INEQUALITY AND POLITICAL POLARIZATION.

TIME SERIES ANALYSIS: ANALYZING POLITICAL TRENDS OVER TIME OFTEN REQUIRES TIME SERIES ANALYSIS. WE'LL EXPLORE BASIC TIME SERIES METHODS AND ILLUSTRATE THEIR USE WITH EXAMPLES SUCH AS ANALYZING CHANGES IN PRESIDENTIAL APPROVAL RATINGS OR THE EVOLUTION OF PARTY AFFILIATIONS.

CAUSAL INFERENCE TECHNIQUES: ESTABLISHING CAUSAL RELATIONSHIPS IS A MAJOR GOAL IN POLITICAL SCIENCE. WE'LL INTRODUCE BASIC CONCEPTS OF CAUSAL INFERENCE AND DISCUSS METHODS LIKE REGRESSION DISCONTINUITY DESIGN, IF APPROPRIATE AND FEASIBLE WITHIN THE SCOPE OF THIS GUIDE.

CHAPTER 5: ADVANCED TOPICS AND RESOURCES

THIS CHAPTER POINTS TO FURTHER AVENUES FOR LEARNING AND EXPLORATION.

TEXT ANALYSIS WITH R: WE'LL PROVIDE A BRIEF INTRODUCTION TO TEXT ANALYSIS TECHNIQUES USING PACKAGES LIKE `'QUANTEDA'`, SHOWING HOW TO ANALYZE POLITICAL SPEECHES, NEWS ARTICLES, OR SOCIAL MEDIA DATA.

NETWORK ANALYSIS IN POLITICAL SCIENCE: WE'LL INTRODUCE THE CONCEPT OF NETWORK ANALYSIS AND ITS APPLICATION TO UNDERSTANDING POLITICAL RELATIONSHIPS AND POWER STRUCTURES.

FURTHER RESOURCES AND LEARNING: THIS SECTION WILL LIST VALUABLE ONLINE RESOURCES, BOOKS, AND COURSES FOR CONTINUED LEARNING IN R AND POLITICAL SCIENCE.

BOOK OUTLINE: "AN R COMPANION TO POLITICAL ANALYSIS"

INTRODUCTION: A BRIEF OVERVIEW OF R AND ITS APPLICABILITY TO POLITICAL SCIENCE, OUTLINING THE BOOK'S STRUCTURE AND LEARNING OBJECTIVES.

CHAPTER 1: SETTING UP YOUR R ENVIRONMENT: INSTALLING R, RSTUDIO, AND ESSENTIAL PACKAGES; IMPORTING VARIOUS DATA FORMATS.

CHAPTER 2: DATA MANIPULATION AND CLEANING: DATA WRANGLING WITH `'DPLYR'`; HANDLING MISSING DATA; DATA TRANSFORMATION AND RESHAPING.

CHAPTER 3: DATA VISUALIZATION: CREATING BASIC AND ADVANCED PLOTS WITH `'GGPLOT2'`; MAPPING POLITICAL DATA.

CHAPTER 4: STATISTICAL MODELING: LINEAR REGRESSION, LOGISTIC REGRESSION; TIME SERIES ANALYSIS; INTRODUCTION TO CAUSAL INFERENCE (IF FEASIBLE WITHIN THE SCOPE).

CHAPTER 5: ADVANCED TOPICS AND RESOURCES: TEXT ANALYSIS; NETWORK ANALYSIS; FURTHER LEARNING RESOURCES.

CONCLUSION: RECAP OF KEY CONCEPTS AND ENCOURAGEMENT FOR CONTINUED EXPLORATION.

(DETAILED EXPLANATION OF EACH CHAPTER IS PROVIDED ABOVE IN THE MAIN BODY OF THE ARTICLE.)

FAQs:

1. WHAT PRIOR KNOWLEDGE IS NEEDED TO USE THIS GUIDE EFFECTIVELY? BASIC STATISTICAL KNOWLEDGE IS HELPFUL BUT NOT STRICTLY REQUIRED. THE GUIDE IS DESIGNED TO BE ACCESSIBLE TO BEGINNERS.

1. IS THIS GUIDE SUITABLE FOR ALL LEVELS OF R USERS? YES, THE GUIDE STARTS WITH THE BASICS AND PROGRESSIVELY INTRODUCES MORE ADVANCED CONCEPTS, MAKING IT APPROPRIATE FOR BOTH BEGINNERS AND THOSE WITH SOME R EXPERIENCE.

1. WHAT TYPES OF POLITICAL DATA CAN I ANALYZE WITH THIS GUIDE? THE GUIDE COVERS A WIDE RANGE OF DATA TYPES, INCLUDING ELECTION RESULTS, PUBLIC OPINION POLLS, ECONOMIC INDICATORS, AND TEXTUAL DATA.

1. WHAT ARE THE MAIN SOFTWARE REQUIREMENTS? YOU'LL NEED R AND RSTUDIO INSTALLED ON YOUR COMPUTER.

1. HOW MUCH TIME IS NEEDED TO COMPLETE THIS GUIDE? THE TIME COMMITMENT VARIES DEPENDING ON YOUR PRIOR EXPERIENCE AND LEARNING PACE. EXPECT TO DEDICATE SEVERAL WEEKS TO MASTER THE CONCEPTS AND PRACTICE THE EXERCISES.

1. ARE THERE EXERCISES OR PRACTICE PROBLEMS? WHILE NOT EXPLICITLY INCLUDED IN THIS BLOG POST, THE BOOK VERSION WOULD CONTAIN NUMEROUS EXERCISES TO REINFORCE LEARNING.

1. WHAT IF I ENCOUNTER ERRORS WHILE RUNNING THE CODE? TROUBLESHOOTING TIPS AND COMMON ERRORS ARE ADDRESSED THROUGHOUT THE GUIDE, ALONG WITH RESOURCES FOR FURTHER ASSISTANCE.

1. CAN I USE THIS GUIDE FOR MY RESEARCH PROJECT? ABSOLUTELY! THIS GUIDE PROVIDES THE FOUNDATIONAL SKILLS NEEDED FOR CONDUCTING QUANTITATIVE ANALYSIS IN YOUR POLITICAL SCIENCE RESEARCH.

1. WHERE CAN I FIND THE COMPLETE BOOK? (THIS WOULD BE A PLACEHOLDER FOR A FUTURE BOOK PUBLICATION OR LINK

TO A REPOSITORY).

RELATED ARTICLES:

1. INTRODUCTION TO R FOR SOCIAL SCIENTISTS: A BROAD OVERVIEW OF R'S APPLICATIONS IN THE SOCIAL SCIENCES.
2. DATA WRANGLING WITH THE TIDYVERSE: A DEEPER DIVE INTO THE 'TIDYVERSE' PACKAGE IN R.
3. VISUALIZING DATA WITH GGPLOT2: A COMPREHENSIVE GUIDE TO CREATING EFFECTIVE VISUALIZATIONS IN R.
4. LINEAR REGRESSION IN R: DETAILED EXPLANATION AND APPLICATION OF LINEAR REGRESSION MODELS.
5. LOGISTIC REGRESSION FOR POLITICAL SCIENCE: FOCUSING ON THE USE OF LOGISTIC REGRESSION IN ANALYZING POLITICAL DATA.
6. TEXT MINING AND POLITICAL DISCOURSE: EXPLORING TEXT ANALYSIS TECHNIQUES FOR POLITICAL SCIENCE RESEARCH.
7. NETWORK ANALYSIS IN R: A PRACTICAL INTRODUCTION TO NETWORK ANALYSIS USING R.
8. CAUSAL INFERENCE IN POLITICAL SCIENCE: DISCUSSING VARIOUS METHODS FOR ESTABLISHING CAUSALITY.
9. REPRODUCIBLE RESEARCH WITH R: BEST PRACTICES FOR CREATING REPRODUCIBLE AND TRANSPARENT RESEARCH USING R.

 **an r companion to political analysis: An R Companion to Political Analysis** Philip H. Pollock III, Barry C. Edwards, 2017-03-31 Teach your students to conduct political research using R, the open source programming language and software environment for statistical computing and graphics. An R Companion to Political Analysis by Philip H. Pollock III and Barry C. Edwards offers the same easy-to-use and effective style as the best-selling SPSS and Stata Companions. The all-new Second Edition includes new and revised exercises and datasets showing students how to analyze research-quality data to learn descriptive statistics, data transformations, bivariate analysis (cross-tabulations and mean comparisons), controlled comparisons, statistical inference, linear correlation and regression, dummy variables and interaction effects, and logistic regression. The clear explanation and instruction is accompanied by annotated and labeled screen shots and end-of-chapter exercises to help students apply what they have learned.

an r companion to political analysis: An R Companion to Political Analysis Philip H. Pollock III, Barry C. Edwards, 2017-04-12 Teach your students to conduct political research using R, the open source programming language and software environment for statistical computing and graphics. An R Companion to Political Analysis offers the same easy-to-use and effective style as the best-selling SPSS and Stata Companions. The all-new Second Edition includes new and revised exercises and datasets showing students how to analyze research-quality data to learn descriptive statistics, data transformations, bivariate analysis (cross-tabulations and mean comparisons), controlled comparisons, statistical inference, linear correlation and regression, dummy variables and interaction effects, and logistic regression. The clear explanation and instruction is accompanied by annotated and labeled screen shots and end-of-chapter exercises to help students apply what they have learned. Students will love this book, as will their teachers. – Courtney Brown, Emory University

an r companion to political analysis: An R Companion to Political Analysis Philip H. Pollock III, 2013-11-04 Data Analysis with R Teach your students to conduct political research with R, the

open source programming language and software environment for statistical computing and graphics. An R Companion to Political Analysis offers the same easy-to-use and effective style as the best-selling SPSS and Stata Companions. This new, comprehensive workbook covers descriptive statistics, data transformations, bivariate approaches (cross-tabulations and mean comparisons), controlled comparisons, statistical inference, linear correlation and regression, dummy variables and interaction effects, and logistic regression. The clear explanation and instruction is aided by the use of annotated and labeled screen shots as well as a wealth of exercises and datasets so students can apply their new skills.

an r companion to political analysis: An R Companion to Political Analysis Philip H. Pollock III, Barry C. Edwards, 2022-07-18 The Third Edition of An R Companion to Political Analysis by Philip H. Pollock III and Barry C. Edwards teaches your students to conduct research with R, the open-source programming language for statistical computing and graphics. This workbook offers the same easy-to-use style as other Companions, tailored for R.

an r companion to political analysis: An R Companion for the Third Edition of The Fundamentals of Political Science Research Paul M. Kellstedt, Guy D. Whitten, 2021-05-31 An R Companion for the Third Edition of The Fundamentals of Political Science Research offers students a chance to delve into the world of R using real political data sets and statistical analysis techniques directly from Paul M. Kellstedt and Guy D. Whitten's best-selling textbook. Built in parallel with the main text, this workbook teaches students to apply the techniques they learn in each chapter by reproducing the analyses and results from each lesson using R. Students will also learn to create all of the tables and figures found in the textbook, leading to an even greater mastery of the core material. This accessible, informative, and engaging companion walks through the use of R step-by-step, using command lines and screenshots to demonstrate proper use of the software. With the help of these guides, students will become comfortable creating, editing, and using data sets in R to produce original statistical analyses for evaluating causal claims. End-of-chapter exercises encourage this innovation by asking students to formulate and evaluate their own hypotheses.

an r companion to political analysis: The Essentials of Political Analysis Philip H. Pollock III, Barry C. Edwards, 2019-07-18 Pollock and Edwards explain the nuts-and-bolts of research design and data analysis in a clear and concise style. The Essential of Political Analysis is an intuitive introduction to complex material, replete with examples from the political science literature that add relevance to statistical concepts. This text offers students an excellent balance between the technical and the practical. —Francis Neely, San Francisco State University Gain the skills you need to conduct political analysis and critically assess statistical research. In this Sixth Edition of The Essentials of Political Science, bestselling authors Philip H. Pollock III and Barry C. Edwards build students' analytic abilities and develop their statistical reasoning with new data, fresh exercises, and accessible examples. This brief, accessible guide walks students through the essentials—measuring concepts, formulating and testing hypotheses, describing variables—while using key terms, chapter-opening objectives, over 80 tables and figures, and practical exercises to get them using and applying their new skills. Using SPSS, STATA or R? Discounted package deals available with Philip H. Pollock's companion workbooks. . Give your students the SAGE edge! SAGE edge offers a robust online environment featuring an impressive array of free tools and resources for review, study, and further exploration, keeping both instructors and students on the cutting edge of teaching and learning.

an r companion to political analysis: An SPSS Companion for the Third Edition of The Fundamentals of Political Science Research Paul M. Kellstedt, Guy D. Whitten, 2020-04-23 An SPSS Companion for the Third Edition of The Fundamentals of Political Science Research offers students a chance to delve into the world of SPSS using real political science data sets and statistical analysis techniques directly from Paul M. Kellstedt and Guy D. Whitten's best-selling textbook. Built in parallel with the main text, this workbook teaches students to apply the techniques they learn in each chapter by reproducing the analyses and results from each lesson using SPSS. Students will also learn to create all of the tables and figures found in the textbook, leading to an even greater

mastery of the core material. This accessible, informative, and engaging companion walks through the use of SPSS step-by-step, using command lines and screenshots to demonstrate proper use of the software. With the help of these guides, students will become comfortable creating, editing, and using data sets in SPSS to produce original statistical analyses for evaluating causal claims. End-of-chapter exercises encourage this innovation by asking students to formulate and evaluate their own hypotheses.

an r companion to political analysis: The Fundamentals of Political Science Research Paul M. Kellstedt, Guy D. Whitten, 2009 This textbook introduces the scientific study of politics, supplying students with the basic tools to be critical consumers and producers of scholarly research.

an r companion to political analysis: An IBM® SPSS® Companion to Political Analysis Philip H. Pollock, III, Barry Clayton Edwards, 2025-07-14 In Phillip H. Pollock III and Barry C. Edwards' trusted An IBM® SPSS® Companion to Political Analysis workbook, students dive headfirst into actual political data and work with a software tool that prepares them not only for future political science research but the job world as well. Students learn by doing with new guided examples, annotated screenshots, step-by-step instructions, and exercises that reflect current scholarly debates in American political behavior and comparative politics. The Seventh Edition has been thoroughly revised to break up larger chapters for a more detailed and focused exploration of key topics. This edition has also been updated to reflect current datasets from the General Social Survey (GSS) and American National Election Studies (ANES), including new variables related to the 2020 presidential election, ensuring students are working with relevant and up-to-date political science data. Datasets are all compatible with all post-12 releases of SPSS.

an r companion to political analysis: An SPSS Companion to Political Analysis, 4th Edition Philip H. Pollock, 2011-07-22 Featuring examples, over 120 screenshots and step-by-step instructions, this workbook will be an invaluable resource for students facing the task of undertaking statistical research as part of their politics course.

an r companion to political analysis: A Stata® Companion to Political Analysis Philip H. Pollock III, Barry C. Edwards, 2018-09-20 Popular for its speed, flexibility, and attractive graphics, Stata is a powerful tool for political science students. With Philip Pollock's Fourth Edition of A Stata® Companion to Political Analysis, students quickly learn Stata via step-by-step instruction, more than 50 exercises, customized datasets, annotated screen shots, boxes that highlight Stata's special capabilities, and guidance on using Stata to read raw data. This attractive and value-priced workbook, an ideal complement to Pollock's *Essentials of Political Analysis*, is a must-have for any political science student working with Stata.

an r companion to political analysis: News That Matters Shanto Iyengar, Donald R. Kinder, 2010-10-15 Almost twenty-five years ago, Shanto Iyengar and Donald R. Kinder first documented a series of sophisticated and innovative experiments that unobtrusively altered the order and emphasis of news stories in selected television broadcasts. Their resulting book *News That Matters*, now hailed as a classic by scholars of political science and public opinion alike, is here updated for the twenty-first century, with a new preface and epilogue by the authors. Backed by careful analysis of public opinion surveys, the authors show how, despite changing American politics, those issues that receive extended coverage in the national news become more important to viewers, while those that are ignored lose credibility. Moreover, those issues that are prominent in the news stream continue to loom more heavily as criteria for evaluating the president and for choosing between political candidates. "News That Matters does matter, because it demonstrates conclusively that television newscasts powerfully affect opinion. . . . All that follows, whether it supports, modifies, or challenges their conclusions, will have to begin here."—The Public Interest

an r companion to political analysis: Political Analysis Using R James E. Monogan III, 2015-12-14 This book provides a narrative of how R can be useful in the analysis of public administration, public policy, and political science data specifically, in addition to the social sciences more broadly. It can serve as a textbook and reference manual for students and independent researchers who wish to use R for the first time or broaden their skill set with the program. While

the book uses data drawn from political science, public administration, and policy analyses, it is written so that students and researchers in other fields should find it accessible and useful as well. By the end of the first seven chapters, an entry-level user should be well acquainted with how to use R as a traditional econometric software program. The remaining four chapters will begin to introduce the user to advanced techniques that R offers but many other programs do not make available such as how to use contributed libraries or write programs in R. The book details how to perform nearly every task routinely associated with statistical modeling: descriptive statistics, basic inferences, estimating common models, and conducting regression diagnostics. For the intermediate or advanced reader, the book aims to open up the wide array of sophisticated methods options that R makes freely available. It illustrates how user-created libraries can be installed and used in real data analysis, focusing on a handful of libraries that have been particularly prominent in political science. The last two chapters illustrate how the user can conduct linear algebra in R and create simple programs. A key point in these chapters will be that such actions are substantially easier in R than in many other programs, so advanced techniques are more accessible in R, which will appeal to scholars and policy researchers who already conduct extensive data analysis. Additionally, the book should draw the attention of students and teachers of quantitative methods in the political disciplines.

an r companion to political analysis: Experimental Foundations of Political Science Donald R. Kinder, Thomas R. Palfrey, 1993 Shows the range and power of experimental methods in political science

an r companion to political analysis: Statistics for Business Robert Stine, Dean Foster, 2015-08-17 In *Statistics for Business: Decision Making and Analysis*, authors Robert Stine and Dean Foster of the University of Pennsylvania's Wharton School, take a sophisticated approach to teaching statistics in the context of making good business decisions. The authors show students how to recognize and understand each business question, use statistical tools to do the analysis, and how to communicate their results clearly and concisely. In addition to providing cases and real data to demonstrate real business situations, this text provides resources to support understanding and engagement. A successful problem-solving framework in the 4-M Examples (Motivation, Method, Mechanics, Message) model a clear outline for solving problems, new What Do You Think questions give students an opportunity to stop and check their understanding as they read, and new learning objectives guide students through each chapter and help them to review major goals. Software Hints provide instructions for using the most up-to-date technology packages. The Second Edition also includes expanded coverage and instruction of Excel® 2010.

an r companion to political analysis: Your Statistical Consultant Rae R. Newton, Kjell Erik Rudestam, 2013 How do you bridge the gap between what you learned in your statistics course and the questions you want to answer in your real-world research? Oriented towards distinct questions in a How do I? or When should I? format, *Your Statistical Consultant* is the equivalent of the expert colleague down the hall who fields questions about describing, explaining, and making recommendations regarding thorny or confusing statistical issues. The book serves as a compendium of statistical knowledge, both theoretical and applied, that addresses the questions most frequently asked by students, researchers and instructors. Written to be responsive to a wide range of inquiries and levels of expertise, the book is flexibly organized so readers can either read it sequentially or turn directly to the sections that correspond to their concerns.

an r companion to political analysis: The Wiley Blackwell Companion to Political Geography John A. Agnew, Virginie Mamadouh, Anna Secor, Joanne Sharp, 2015-10-12 The Wiley Blackwell Companion to Political Geography aims to account for the intellectual and worldly developments that have taken place in and around political geography in the last 10 years. Bringing together established names in the field as well as new scholars, it highlights provocative theoretical and conceptual debates on political geography from a range of global perspectives. Discusses the latest developments and places increased emphasis on modes of thinking, contested key concepts, and on geopolitics, climate change and terrorism Explores the influence of the practice-based

methods in geography and concepts including postcolonialism, feminist geographies, the notion of the Anthropocene, and new understandings of the role of non-human actors in networks of power. Offers an accessible introduction to political geography for those in allied fields including political science, international relations, and sociology

an r companion to political analysis: The SAGE Handbook of Research Methods in Political Science and International Relations Luigi Curini, Robert Franzese, 2020-04-09 The SAGE Handbook of Research Methods in Political Science and International Relations offers a comprehensive overview of research processes in social science — from the ideation and design of research projects, through the construction of theoretical arguments, to conceptualization, measurement, & data collection, and quantitative & qualitative empirical analysis — expositing through 65 major new contributions from leading international methodologists. Each chapter surveys, builds upon, and extends the modern state of the art in its area. Following through its six-part organization, undergraduate and graduate students, researchers and practicing academics will be guided through the design, methods, and analysis of issues in Political Science and International Relations: Part One: Formulating Good Research Questions & Designing Good Research Projects Part Two: Methods of Theoretical Argumentation Part Three: Conceptualization & Measurement Part Four: Large-Scale Data Collection & Representation Methods Part Five: Quantitative-Empirical Methods Part Six: Qualitative & Mixed Methods

an r companion to political analysis: *Political Science Research in Practice* Akan Malici, Elizabeth S. Smith, 2018-09-03 Nothing rings truer to those teaching political science research methods: students hate taking this course. Tackle the challenge and turn the standard research methods teaching model on its head with *Political Science Research in Practice*. Akan Malici and Elizabeth S. Smith engage students first with pressing political questions and then demonstrate how a researcher has gone about answering them, walking them through real political science research that contributors have conducted. Through the exemplary use of a comparative case study, field research, interviews, textual and interpretive research, statistical research, survey research, public policy and program evaluation, content analysis, and field experiments, each chapter introduces students to a method of empirical inquiry through a specific topic that will spark their interest and curiosity. Each chapter shows the process of developing a research question, how and why a particular method was used, and the rewards and challenges discovered along the way. Students can better appreciate why we need a science of politics—why methods matter—with these first-hand, issue-based discussions. The second edition now includes: Two completely new chapters on field experiments and a chapter on the textual/interpretative method. New topics, ranging from the Arab Spring to political torture to politically sensitive research in China to social networking and voter turnout. Revised and updated Exercises and Discussion Questions sections. Revised and updated Interested to Know More and Recommended Resources sections.

an r companion to political analysis: *Interspecies Politics* Rafi Youatt, 2020-02-25 Politics with the environment

an r companion to political analysis: *Public Policy* Michael E. Kraft, Scott R. Furlong, 2017-04-28 In *Public Policy: Politics, Analysis, and Alternatives*, students come to understand how and why policy analysis is used to assess policy alternatives. To encourage critical and creative thinking on issues ranging from the federal deficit to health care reform to climate change, authors Michael Kraft and Scott Furlong introduce and fully integrate an evaluative approach to policy. The Sixth Edition of *Public Policy* offers a fully revised, concise review of institutions, policy actors, and major theoretical models as well as a discussion of the nature of policy analysis and its practice. Both the exposition and data have been updated to reflect major policy controversies and developments through the end of 2016, including new priorities of the Donald Trump administration.

an r companion to political analysis: *A Stata Companion to Political Analysis* Philip H. Pollock, 2006-05-15 Tables and Figures ix Preface xiii Getting Started 1 Copying the Data Files to Floppy Disk or Other Portable Media 2 How to Handle the Datasets 2 Contents of the Datasets 4 Notes 4 Introduction to Stata 5 Commands Covered describe, codebook, set more off, search, help

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