

Elements Of Graphing Data

YEAH, REVIEWING A BOOKS **ELEMENTS OF GRAPHING DATA** COULD ACCUMULATE YOUR CLOSE LINKS LISTINGS. THIS IS JUST ONE OF THE SOLUTIONS FOR YOU TO BE SUCCESSFUL. AS UNDERSTOOD, EXPERTISE DOES NOT RECOMMEND THAT YOU HAVE FABULOUS POINTS.

COMPREHENDING AS SKILLFULLY AS ARRANGEMENT EVEN MORE THAN FURTHER WILL HAVE THE FUNDS FOR EACH SUCCESS. NEXT TO, THE BROADCAST AS WITHOUT DIFFICULTY AS SHARPNESS OF THIS **ELEMENTS OF GRAPHING DATA** CAN BE TAKEN AS WELL AS PICKED TO ACT.

VISUALIZING DATA - WILLIAM S. CLEVELAND 1993

A VISUAL GUIDE TO STATA GRAPHICS, SECOND EDITION - MICHAEL N. MITCHELL 2008-06-04

WHETHER YOU ARE NEW TO STATA GRAPHICS OR A SEASONED VETERAN, **A VISUAL GUIDE TO STATA GRAPHICS, SECOND EDITION** WILL TEACH YOU HOW TO USE STATA TO MAKE PUBLICATION-QUALITY GRAPHS THAT WILL STAND OUT AND ENHANCE YOUR STATISTICAL RESULTS. WITH OVER 900 ILLUSTRATED EXAMPLES AND QUICK-REFERENCE TABS, THIS BOOK QUICKLY GUIDES YOU TO THE INFORMATION YOU NEED FOR CREATING AND CUSTOMIZING HIGH-QUALITY GRAPHS FOR ANY TYPES OF STATISTICAL DATA.

FUNDAMENTALS OF DATA VISUALIZATION - CLAUS O. WILKE 2019-03-18

EFFECTIVE VISUALIZATION IS THE BEST WAY TO COMMUNICATE INFORMATION FROM THE INCREASINGLY LARGE AND COMPLEX DATASETS IN THE NATURAL AND SOCIAL SCIENCES. BUT WITH THE INCREASING POWER OF VISUALIZATION SOFTWARE TODAY, SCIENTISTS, ENGINEERS, AND BUSINESS ANALYSTS OFTEN HAVE TO NAVIGATE A BEWILDERING ARRAY OF VISUALIZATION CHOICES AND OPTIONS. THIS PRACTICAL BOOK TAKES YOU THROUGH MANY COMMONLY ENCOUNTERED VISUALIZATION PROBLEMS, AND IT PROVIDES GUIDELINES ON HOW TO TURN LARGE DATASETS INTO CLEAR AND COMPELLING FIGURES. WHAT VISUALIZATION TYPE IS BEST FOR THE STORY YOU WANT TO TELL? HOW DO YOU MAKE INFORMATIVE FIGURES THAT ARE VISUALLY PLEASING? AUTHOR CLAUS O. WILKE TEACHES YOU THE ELEMENTS MOST CRITICAL TO SUCCESSFUL DATA VISUALIZATION. EXPLORE THE BASIC CONCEPTS OF COLOR AS A TOOL TO HIGHLIGHT, DISTINGUISH, OR REPRESENT A VALUE UNDERSTAND THE IMPORTANCE OF REDUNDANT CODING TO ENSURE YOU PROVIDE KEY INFORMATION IN MULTIPLE WAYS USE THE BOOK'S VISUALIZATIONS DIRECTORY, A GRAPHICAL GUIDE TO COMMONLY USED TYPES OF DATA VISUALIZATIONS GET EXTENSIVE EXAMPLES OF GOOD AND BAD FIGURES LEARN HOW TO USE FIGURES IN A DOCUMENT OR REPORT AND HOW EMPLOY THEM EFFECTIVELY TO TELL A COMPELLING STORY

EFFECTIVE DATA VISUALIZATION - STEPHANIE D. H. EVERGREEN 2019-04-03

NOW IN FULL COLOR! WRITTEN BY SOUGHT-AFTER SPEAKER, DESIGNER, AND RESEARCHER STEPHANIE D. H. EVERGREEN, **EFFECTIVE DATA VISUALIZATION** SHOWS READERS HOW TO CREATE EXCEL CHARTS AND GRAPHS THAT BEST COMMUNICATE THEIR DATA FINDINGS. THIS

COMPREHENSIVE HOW-TO GUIDE FUNCTIONS AS A SET OF BLUEPRINTS—SUPPORTED BY BOTH RESEARCH AND THE AUTHOR'S EXTENSIVE EXPERIENCE WITH CLIENTS IN INDUSTRIES ALL OVER THE WORLD—FOR CONVEYING DATA IN AN IMPACTFUL WAY. DELIVERED IN EVERGREEN'S HUMOROUS AND APPROACHABLE STYLE, THE BOOK COVERS THE SPECTRUM OF GRAPH TYPES AVAILABLE BEYOND THE DEFAULT OPTIONS, HOW TO DETERMINE WHICH ONE MOST APPROPRIATELY FITS SPECIFIC DATA STORIES, AND EASY STEPS FOR BUILDING THE CHOSEN GRAPH IN EXCEL. NOW IN FULL COLOR WITH NEW EXAMPLES THROUGHOUT, THE SECOND EDITION INCLUDES A REVAMPED CHAPTER ON QUALITATIVE DATA, NINE NEW QUANTITATIVE GRAPH TYPES, NEW SHORTCUTS IN EXCEL, AND AN ENTIRELY NEW CHAPTER ON SHARING YOUR DATA WITH THE WORLD, WHICH PROVIDES ADVICE ON USING DASHBOARDS. NEW FROM STEPHANIE EVERGREEN! THE DATA VISUALIZATION SKETCHBOOK PROVIDES ADVICE ON GETTING STARTED WITH SKETCHING AND OFFERS TIPS, GUIDANCE, AND COMPLETED SAMPLE SKETCHES FOR A NUMBER OF REPORTING FORMATS. BUNDLE EFFECTIVE DATA VISUALIZATION, 2E, AND THE DATA VISUALIZATION SKETCHBOOK, USING ISBN 978-1-5443-7178-8!

HTML5 GRAPHING AND DATA VISUALIZATION COOKBOOK - BEN FHALA 2012-11-23

THIS COOKBOOK IS ORGANIZED IN A LINEAR, PROGRESSIVE WAY ALLOWING IT TO BE READ FROM START TO FINISH, AS WELL AS TO BE USED AS A USEFUL RESOURCE FOR SPECIFIC TASKS. THE HTML5 EXAMPLES AND RECIPES WILL HAVE YOU MAKING DYNAMIC, INTERACTIVE, AND ANIMATED CHARTS AND GRAPHS IN NO TIME. YOU DON'T NEED TO HAVE A BACKGROUND IN HTML5 OR CANVAS BUT YOU DO NEED TO HAVE A BASIC UNDERSTANDING OF HOW HTML WORKS AND KNOW HOW TO CODE IN ANY LANGUAGE (PREFERABLY IN JAVASCRIPT). IN THIS BOOK WE WILL NOT EXPLAIN HOW TO LEARN TO CODE BUT HOW TO CREATE PROJECTS AND HOW TO PLAN AND EXECUTE THEM IN THE PROCESS.

DYNAMIC GRAPHICS STATISTICS - CLEVELAND 1988-07-08

THE ESSENTIAL CHARACTERISTIC OF A DYNAMIC GRAPHICAL METHOD IS THE DIRECT MANIPULATION OF ELEMENTS OF A GRAPH ON A COMPUTER SCREEN, WHICH IN HIGH-PERFORMANCE IMPLEMENTATIONS, THE ELEMENTS CHANGE VIRTUALLY INSTANTANEOUSLY ON THE SCREEN. THIS BOOK CONTAINS A COLLECTION OF PAPERS ABOUT DYNAMIC GRAPHICS DATING FROM THE LATE 1960S TO 1988. ALTHOUGH TECHNOLOGY HAS ADVANCED CONSIDERABLY, THE FUNDAMENTAL IDEAS

ABOUT BASIC GRAPHICAL PRINCIPLES AND DATA-ANALYTIC GOALS ARE STILL RELEVANT TODAY.

GRAPH DESIGN FOR THE EYE AND MIND - STEPHEN M. KOSSLYN
2006-08-10

GRAPHS HAVE BECOME A FIXTURE OF EVERYDAY LIFE, USED IN SCIENTIFIC AND BUSINESS PUBLICATIONS, IN MAGAZINES AND NEWSPAPERS, ON TELEVISION, ON BILLBOARDS, AND EVEN ON CEREAL BOXES. NONETHELESS, SURPRISINGLY FEW GRAPHS COMMUNICATE EFFECTIVELY, AND MOST GRAPHS FAIL BECAUSE THEY DO NOT TAKE INTO ACCOUNT THE GOALS, NEEDS, AND ABILITIES OF THE VIEWERS. IN GRAPH DESIGN FOR EYE AND MIND, STEPHEN KOSSLYN ADDRESSES THESE PROBLEMS BY PRESENTING EIGHT PSYCHOLOGICAL PRINCIPLES FOR CONSTRUCTING EFFECTIVE GRAPHS. EACH PRINCIPLE IS SOLIDLY ROOTED BOTH IN THE SCIENTIFIC LITERATURE ON HOW WE PERCEIVE AND COMPREHEND GRAPHS AND IN GENERAL FACTS ABOUT HOW OUR EYES AND BRAINS PROCESS VISUAL INFORMATION. KOSSLYN THEN USES THESE EIGHT PSYCHOLOGICAL PRINCIPLES AS THE BASIS FOR HUNDREDS OF SPECIFIC RECOMMENDATIONS THAT SERVE AS A CONCRETE, STEP-BY-STEP GUIDE TO DECIDING WHETHER A GRAPH IS AN APPROPRIATE DISPLAY TO USE, CHOOSING THE CORRECT TYPE OF GRAPH FOR A SPECIFIC TYPE OF DATA AND MESSAGE, AND THEN CONSTRUCTING GRAPHS THAT WILL BE UNDERSTOOD AT A GLANCE. KOSSLYN ALSO INCLUDES A COMPLETE REVIEW OF THE SCIENTIFIC LITERATURE ON GRAPH PERCEPTION AND COMPREHENSION, AND APPENDICES THAT PROVIDE A QUICK TUTORIAL ON BASIC STATISTICS AND A CHECKLIST FOR EVALUATING COMPUTER-GRAPHICS PROGRAMS. GRAPH DESIGN FOR EYE AND MIND IS AN INVALUABLE REFERENCE FOR ANYONE WHO USES VISUAL DISPLAYS TO CONVEY INFORMATION IN THE SCIENCES, HUMANITIES, AND BUSINESSES SUCH AS FINANCE, MARKETING, AND ADVERTISING.

DESIGNING DATA VISUALIZATIONS - NOAH ILIINSKY
2011-09-16

DATA VISUALIZATION IS AN EFFICIENT AND EFFECTIVE MEDIUM FOR COMMUNICATING LARGE AMOUNTS OF INFORMATION, BUT THE DESIGN PROCESS CAN OFTEN SEEM LIKE AN UNEXPLAINABLE CREATIVE ENDEAVOR. THIS CONCISE BOOK AIMS TO DEMYSTIFY THE DESIGN PROCESS BY SHOWING YOU HOW TO USE A LINEAR DECISION-MAKING PROCESS TO ENCODE YOUR INFORMATION VISUALLY. DELVE INTO DIFFERENT KINDS OF VISUALIZATION, INCLUDING INFOGRAPHICS AND VISUAL ART, AND EXPLORE THE INFLUENCES AT WORK IN EACH ONE. THEN LEARN HOW TO APPLY THESE CONCEPTS TO YOUR DESIGN PROCESS. LEARN DATA VISUALIZATION CLASSIFICATIONS, INCLUDING EXPLANATORY, EXPLORATORY, AND HYBRID DISCOVER HOW THREE FUNDAMENTAL INFLUENCES—THE DESIGNER, THE READER, AND THE DATA—SHAPE WHAT YOU CREATE LEARN HOW TO DESCRIBE THE SPECIFIC GOAL OF YOUR VISUALIZATION AND IDENTIFY THE SUPPORTING DATA DECIDE THE SPATIAL POSITION OF YOUR VISUAL ENTITIES WITH AXES ENCODE THE VARIOUS DIMENSIONS OF YOUR DATA WITH APPROPRIATE VISUAL PROPERTIES, SUCH AS SHAPE AND COLOR SEE VISUALIZATION BEST PRACTICES AND SUGGESTIONS FOR ENCODING VARIOUS SPECIFIC DATA TYPES

FUNCTIONS AND GRAPHS - I. M. GELFAND 2013-04-09

THIS TEXT DEMONSTRATES THE FUNDAMENTALS OF GRAPH THEORY. THE 1ST PART EMPLOYS SIMPLE FUNCTIONS TO

ANALYZE BASICS; 2ND HALF DEALS WITH LINEAR FUNCTIONS, QUADRATIC TRINOMIALS, LINEAR FRACTIONAL FUNCTIONS, POWER FUNCTIONS, RATIONAL FUNCTIONS. 1969 EDITION.

GRAPHING STATISTICS & DATA - ANDERS WALLGREN
1996-06-25

THIS BOOK INTRODUCES THE TECHNIQUE AND ART OF PRODUCING GOOD CHARTS. CAREFULLY WRITTEN WITH MANY EXAMPLES AND ILLUSTRATIONS, THE BOOK BEGINS WITH AN INTRODUCTION TO THE BUILDING BLOCKS OF CHARTS (AXES, SCALES AND PATTERNS) AND THEN DESCRIBES EACH STEP INVOLVED IN CREATING EFFECTIVE AND EASY-TO-READ CHARTS.

DISPLAYING TIME SERIES, SPATIAL, AND SPACE-TIME DATA WITH R - OSCAR PERPINAN LAMIGUEIRO 2014-04-04

CODE AND METHODS FOR CREATING HIGH-QUALITY DATA GRAPHICS A DATA GRAPHIC IS NOT ONLY A STATIC IMAGE, BUT IT ALSO TELLS A STORY ABOUT THE DATA. IT ACTIVATES COGNITIVE PROCESSES THAT ARE ABLE TO DETECT PATTERNS AND DISCOVER INFORMATION NOT READILY AVAILABLE WITH THE RAW DATA. THIS IS PARTICULARLY TRUE FOR TIME SERIES, SPATIAL, AND SPACE-TIME DATASETS. FOCUSING ON THE EXPLORATION OF DATA WITH VISUAL METHODS, DISPLAYING TIME SERIES, SPATIAL, AND SPACE-TIME DATA WITH R PRESENTS METHODS AND R CODE FOR PRODUCING HIGH-QUALITY GRAPHICS OF TIME SERIES, SPATIAL, AND SPACE-TIME DATA. PRACTICAL EXAMPLES USING REAL-WORLD DATASETS HELP YOU UNDERSTAND HOW TO APPLY THE METHODS AND CODE. THE BOOK ILLUSTRATES HOW TO DISPLAY A DATASET STARTING WITH AN EASY AND DIRECT APPROACH AND PROGRESSIVELY ADDING IMPROVEMENTS THAT INVOLVE MORE COMPLEXITY. EACH OF THE BOOK'S THREE PARTS IS DEVOTED TO DIFFERENT TYPES OF DATA. IN EACH PART, THE CHAPTERS ARE GROUPED ACCORDING TO THE VARIOUS VISUALIZATION METHODS OR DATA CHARACTERISTICS. WEB RESOURCE ALONG WITH THE MAIN GRAPHICS FROM THE TEXT, THE AUTHOR'S WEBSITE OFFERS ACCESS TO THE DATASETS USED IN THE EXAMPLES AS WELL AS THE FULL R CODE. THIS COMBINATION OF FREELY AVAILABLE CODE AND DATA ENABLES YOU TO PRACTICE WITH THE METHODS AND MODIFY THE CODE TO SUIT YOUR OWN NEEDS.

MASTERING PSYCHOLOGY - WILLIAM C. COE 1984

GRAPHICAL DATA ANALYSIS WITH R - ANTONY UNWIN
2016-04-27

SEE HOW GRAPHICS REVEAL INFORMATION GRAPHICAL DATA ANALYSIS WITH R SHOWS YOU WHAT INFORMATION YOU CAN GAIN FROM GRAPHICAL DISPLAYS. THE BOOK FOCUSES ON WHY YOU DRAW GRAPHICS TO DISPLAY DATA AND WHICH GRAPHICS TO DRAW (AND USES R TO DO SO). ALL THE DATASETS ARE AVAILABLE IN R OR ONE OF ITS PACKAGES AND THE R CODE IS AVAILABLE AT ROSUDA.ORG/GDA. GRAPHICAL DATA ANALYSIS IS USEFUL FOR DATA CLEANING, EXPLORING DATA STRUCTURE, DETECTING OUTLIERS AND UNUSUAL GROUPS, IDENTIFYING TRENDS AND CLUSTERS, SPOTTING LOCAL PATTERNS, EVALUATING MODELLING OUTPUT, AND PRESENTING RESULTS. THIS BOOK GUIDES YOU IN CHOOSING GRAPHICS AND UNDERSTANDING WHAT INFORMATION YOU CAN GLEAN FROM THEM. IT CAN BE USED AS A PRIMARY TEXT IN A

GRAPHICAL DATA ANALYSIS COURSE OR AS A SUPPLEMENT IN A STATISTICS COURSE. COLOUR GRAPHICS ARE USED THROUGHOUT.

R GRAPHICS COOKBOOK - WINSTON CHANG 2013

"PRACTICAL RECIPES FOR VISUALIZING DATA"--COVER.

DATA VISUALIZATION - KIERAN HEALY 2018-12-18

AN ACCESSIBLE PRIMER ON HOW TO CREATE EFFECTIVE GRAPHICS FROM DATA THIS BOOK PROVIDES STUDENTS AND RESEARCHERS A HANDS-ON INTRODUCTION TO THE PRINCIPLES AND PRACTICE OF DATA VISUALIZATION. IT EXPLAINS WHAT MAKES SOME GRAPHS SUCCEED WHILE OTHERS FAIL, HOW TO MAKE HIGH-QUALITY FIGURES FROM DATA USING POWERFUL AND REPRODUCIBLE METHODS, AND HOW TO THINK ABOUT DATA VISUALIZATION IN AN HONEST AND EFFECTIVE WAY. DATA VISUALIZATION BUILDS THE READER'S EXPERTISE IN GGPLOT2, A VERSATILE VISUALIZATION LIBRARY FOR THE R PROGRAMMING LANGUAGE. THROUGH A SERIES OF WORKED EXAMPLES, THIS ACCESSIBLE PRIMER THEN DEMONSTRATES HOW TO CREATE PLOTS PIECE BY PIECE, BEGINNING WITH SUMMARIES OF SINGLE VARIABLES AND MOVING ON TO MORE COMPLEX GRAPHICS. TOPICS INCLUDE PLOTTING CONTINUOUS AND CATEGORICAL VARIABLES; LAYERING INFORMATION ON GRAPHICS; PRODUCING EFFECTIVE "SMALL MULTIPLE" PLOTS; GROUPING, SUMMARIZING, AND TRANSFORMING DATA FOR PLOTTING; CREATING MAPS; WORKING WITH THE OUTPUT OF STATISTICAL MODELS; AND REFINING PLOTS TO MAKE THEM MORE COMPREHENSIBLE. EFFECTIVE GRAPHICS ARE ESSENTIAL TO COMMUNICATING IDEAS AND A GREAT WAY TO BETTER UNDERSTAND DATA. THIS BOOK PROVIDES THE PRACTICAL SKILLS STUDENTS AND PRACTITIONERS NEED TO VISUALIZE QUANTITATIVE DATA AND GET THE MOST OUT OF THEIR RESEARCH FINDINGS. PROVIDES HANDS-ON INSTRUCTION USING R AND GGPLOT2 SHOWS HOW THE "TIDYVERSE" OF DATA ANALYSIS TOOLS MAKES WORKING WITH R EASIER AND MORE CONSISTENT INCLUDES A LIBRARY OF DATA SETS, CODE, AND FUNCTIONS

THE ELEMENTS OF GRAPHING DATA. | **THE ELEMENTS OF GRAPHING DATA** - WILLIAM S. CLEVELAND 1985

GRAPHICAL METHODS FOR DATA ANALYSIS - J. M. CHAMBERS 2018-01-18

THIS BOOK PRESENT GRAPHICAL METHODS FOR ANALYSING DATA. SOME METHODS ARE NEW AND SOME ARE OLD, SOME REQUIRE A COMPUTER AND OTHERS ONLY PAPER AND PENCIL; BUT THEY ARE ALL POWERFUL DATA ANALYSIS TOOLS. IN MANY SITUATIONS, A SET OF DATA EVEN A LARGE SET- CAN BE ADEQUATELY ANALYSED THROUGH GRAPHICAL METHODS ALONE. IN MOST OTHER SITUATIONS, A FEW WELL-CHOSEN GRAPHICAL DISPLAYS CAN SIGNIFICANTLY ENHANCE NUMERICAL STATISTICAL ANALYSES.

HANDBOOK OF DATA VISUALIZATION - CHUN-HOUH CHEN 2007-12-18

VISUALIZING THE DATA IS AN ESSENTIAL PART OF ANY DATA ANALYSIS. MODERN COMPUTING DEVELOPMENTS HAVE LED TO BIG IMPROVEMENTS IN GRAPHIC CAPABILITIES AND THERE ARE MANY NEW POSSIBILITIES FOR DATA DISPLAYS. THIS BOOK GIVES AN OVERVIEW OF MODERN DATA VISUALIZATION METHODS, BOTH IN THEORY AND PRACTICE. IT DETAILS MODERN GRAPHICAL TOOLS SUCH AS MOSAIC PLOTS,

PARALLEL COORDINATE PLOTS, AND LINKED VIEWS. COVERAGE ALSO EXAMINES GRAPHICAL METHODOLOGY FOR PARTICULAR AREAS OF STATISTICS, FOR EXAMPLE BAYESIAN ANALYSIS, GENOMIC DATA AND CLUSTER ANALYSIS, AS WELL SOFTWARE FOR GRAPHICS.

PRACTICAL CURVE FITTING AND DATA ANALYSIS - JOSEPH H. NOGGLE 1993

THIS GUIDE FOCUSES ON HOW TO MAKE GRAPHS AND ABSTRACT PHYSICAL INFORMATION FROM DATA USING A PERSONAL COMPUTER. THIS TUTORIAL PROGRAM/BOOK PACKAGE COVERS THE ELEMENTS OF CURVE FITTING AND STATISTICAL TREATMENT OF DATA AND NUMERICAL ANALYSIS. TAKING A STEP-BY-STEP APPROACH, THE BOOK, THE PROGRAM, AND THE ACCOMPANYING DATA FILES ARE DESIGNED TO DEMONSTRATE COMMON ERRORS AND PITFALLS. IT CONTAINS EXAMPLES FROM ANALYTICAL CHEMISTRY, CHEMICAL ENGINEERING AND BIOCHEMISTRY. FOR THOSE ENGINEERS AND/OR SCIENTISTS WHO WANT TO EASILY MAKE GRAPHS AND PLOT PHYSICAL INFORMATION FROM DATA WITH A MICROCOMPUTER.

FOUNDATIONS OF DATA SCIENCE - AVRIM BLUM 2020-01-23

THIS BOOK PROVIDES AN INTRODUCTION TO THE MATHEMATICAL AND ALGORITHMIC FOUNDATIONS OF DATA SCIENCE, INCLUDING MACHINE LEARNING, HIGH-DIMENSIONAL GEOMETRY, AND ANALYSIS OF LARGE NETWORKS. TOPICS INCLUDE THE COUNTERINTUITIVE NATURE OF DATA IN HIGH DIMENSIONS, IMPORTANT LINEAR ALGEBRAIC TECHNIQUES SUCH AS SINGULAR VALUE DECOMPOSITION, THE THEORY OF RANDOM WALKS AND MARKOV CHAINS, THE FUNDAMENTALS OF AND IMPORTANT ALGORITHMS FOR MACHINE LEARNING, ALGORITHMS AND ANALYSIS FOR CLUSTERING, PROBABILISTIC MODELS FOR LARGE NETWORKS, REPRESENTATION LEARNING INCLUDING TOPIC MODELLING AND NON-NEGATIVE MATRIX FACTORIZATION, WAVELETS AND COMPRESSED SENSING. IMPORTANT PROBABILISTIC TECHNIQUES ARE DEVELOPED INCLUDING THE LAW OF LARGE NUMBERS, TAIL INEQUALITIES, ANALYSIS OF RANDOM PROJECTIONS, GENERALIZATION GUARANTEES IN MACHINE LEARNING, AND MOMENT METHODS FOR ANALYSIS OF PHASE TRANSITIONS IN LARGE RANDOM GRAPHS. ADDITIONALLY, IMPORTANT STRUCTURAL AND COMPLEXITY MEASURES ARE DISCUSSED SUCH AS MATRIX NORMS AND VC-DIMENSION. THIS BOOK IS SUITABLE FOR BOTH UNDERGRADUATE AND GRADUATE COURSES IN THE DESIGN AND ANALYSIS OF ALGORITHMS FOR DATA.

ELEMENTS OF GRAPHING DATA - WILLIAM S. CLEVELAND 1993-05-01

GGPLOT2 - HADLEY WICKHAM 2009-10-03

PROVIDES BOTH RICH THEORY AND POWERFUL APPLICATIONS FIGURES ARE ACCOMPANIED BY CODE REQUIRED TO PRODUCE THEM FULL COLOR FIGURES

DATA VISUALIZATION WITH JAVASCRIPT - STEPHEN A. THOMAS 2015

YOU'VE GOT DATA TO COMMUNICATE. BUT WHAT KIND OF VISUALIZATION DO YOU CHOOSE, HOW DO YOU BUILD IT, AND HOW DO YOU ENSURE THAT IT'S UP TO THE DEMANDS OF THE WEB? IN DATA VISUALIZATION WITH JAVASCRIPT, YOU'LL LEARN HOW TO USE JAVASCRIPT, HTML, AND CSS TO BUILD

THE MOST PRACTICAL VISUALIZATIONS FOR YOUR DATA. STEP-BY-STEP EXAMPLES WALK YOU THROUGH CREATING, INTEGRATING, AND DEBUGGING DIFFERENT TYPES OF VISUALIZATIONS AND WILL HAVE YOU BUILDING BASIC VISUALIZATIONS, LIKE BAR, LINE, AND SCATTER GRAPHS, IN NO TIME. THEN YOU'LL MOVE ON TO MORE ADVANCED TOPICS, INCLUDING HOW TO: CREATE TREE MAPS, HEAT MAPS, NETWORK GRAPHS, WORD CLOUDS, AND TIMELINES MAP GEOGRAPHIC DATA, AND BUILD SPARKLINES AND COMPOSITE CHARTS ADD INTERACTIVITY AND RETRIEVE DATA WITH AJAX MANAGE DATA IN THE BROWSER AND BUILD DATA-DRIVEN WEB APPLICATIONS HARNESS THE POWER OF THE FLOR2, FLOT, CHRONOLINEJS, D3JS, UNDERSCOREJS, AND BACKBONEJS LIBRARIES IF YOU ALREADY KNOW YOUR WAY AROUND BUILDING A WEB PAGE BUT AREN'T QUITE SURE HOW TO BUILD A GOOD VISUALIZATION, DATA VISUALIZATION WITH JAVASCRIPT WILL HELP YOU GET YOUR FEET WET WITHOUT THROWING YOU INTO THE DEEP END. BEFORE YOU KNOW IT, YOU'LL BE WELL ON YOUR WAY TO CREATING SIMPLE, POWERFUL DATA VISUALIZATIONS.

VISUALIZING GRAPH DATA - COREY LANUM 2016-11-23
SUMMARY VISUALIZING GRAPH DATA TEACHES YOU NOT ONLY HOW TO BUILD GRAPH DATA STRUCTURES, BUT ALSO HOW TO CREATE YOUR OWN DYNAMIC AND INTERACTIVE VISUALIZATIONS USING A VARIETY OF TOOLS. THIS BOOK IS LOADED WITH FASCINATING EXAMPLES AND CASE STUDIES TO SHOW YOU THE REAL-WORLD VALUE OF GRAPH VISUALIZATIONS. PURCHASE OF THE PRINT BOOK INCLUDES A FREE eBook IN PDF, KINDLE, AND ePub FORMATS FROM MANNING PUBLICATIONS. ABOUT THE TECHNOLOGY ASSUME YOU ARE DOING A GREAT JOB COLLECTING DATA ABOUT YOUR CUSTOMERS AND PRODUCTS. ARE YOU ABLE TO TURN YOUR RICH DATA INTO IMPORTANT INSIGHT? COMPLEX RELATIONSHIPS IN LARGE DATA SETS CAN BE DIFFICULT TO RECOGNIZE. VISUALIZING THESE CONNECTIONS AS GRAPHS MAKES IT POSSIBLE TO SEE THE PATTERNS, SO YOU CAN FIND MEANING IN AN OTHERWISE OVER-WHELMING SEA OF FACTS. ABOUT THE BOOK VISUALIZING GRAPH DATA TEACHES YOU HOW TO UNDERSTAND GRAPH DATA, BUILD GRAPH DATA STRUCTURES, AND CREATE MEANINGFUL VISUALIZATIONS. THIS ENGAGING BOOK GENTLY INTRODUCES GRAPH DATA VISUALIZATION THROUGH FASCINATING EXAMPLES AND COMPELLING CASE STUDIES. YOU'LL DISCOVER SIMPLE, BUT EFFECTIVE, TECHNIQUES TO MODEL YOUR DATA, HANDLE BIG DATA, AND DEPICT TEMPORAL AND SPATIAL DATA. BY THE END, YOU'LL HAVE A CONCEPTUAL FOUNDATION AS WELL AS THE PRACTICAL SKILLS TO EXPLORE YOUR OWN DATA WITH CONFIDENCE. WHAT'S INSIDE TECHNIQUES FOR CREATING EFFECTIVE VISUALIZATIONS EXAMPLES USING THE GEPHI AND KEYLINES VISUALIZATION PACKAGES REAL-WORLD CASE STUDIES ABOUT THE READER NO PRIOR EXPERIENCE WITH GRAPH DATA IS REQUIRED. ABOUT THE AUTHOR COREY LANUM HAS DECADES OF EXPERIENCE BUILDING VISUALIZATION AND ANALYSIS APPLICATIONS FOR COMPANIES AND GOVERNMENT AGENCIES AROUND THE GLOBE. TABLE OF CONTENTS PART 1 - GRAPH VISUALIZATION BASICS GETTING TO KNOW GRAPH VISUALIZATION CASE STUDIES AN INTRODUCTION TO GEPHI AND KEYLINES PART 2 VISUALIZE YOUR OWN DATA DATA MODELING HOW

TO BUILD GRAPH VISUALIZATIONS CREATING INTERACTIVE VISUALIZATIONS HOW TO ORGANIZE A CHART BIG DATA: USING GRAPHS WHEN THERE'S TOO MUCH DATA DYNAMIC GRAPHS: HOW TO SHOW DATA OVER TIME GRAPHS ON MAPS: THE WHERE OF GRAPH VISUALIZATION
ELEMENTS OF GRAPH DESIGN - STEPHEN MICHAEL KOSSLYN 1994

'ELEMENT OF GRAPH DESIGN' EXPLORES THE CRUCIAL CONNECTION BETWEEN THE DATA, THE DESIGN, AND THE AUDIENCE. READ COVER TO COVER OR USED AS A DAY-TO-DAY WORKING REFERENCE, THE BOOK GIVES ALL THOSE WHO PREPARE, USE, AND INTERPRET GRAPHIC INFORMATION A DECIDED EDGE.

HOW TO LIE WITH CHARTS - GERALD E. JONES 2007
TAKING A HUMOROUS APPROACH, HOW TO LIE WITH CHARTS SHOWS YOU HOW TO BE BOTH ETHICAL AND WISE IN YOUR DESIGN AND INTERPRETATION OF GRAPHICS FOR BUSINESS PRESENTATIONS.

ELEMENTS GRAPHING DATA - Ed2 - W CLEVELAND 1994-09-08

INTRODUCTION TO DATA SCIENCE - RAFAEL A. IRIZARRY 2019-11-20

INTRODUCTION TO DATA SCIENCE: DATA ANALYSIS AND PREDICTION ALGORITHMS WITH R INTRODUCES CONCEPTS AND SKILLS THAT CAN HELP YOU TACKLE REAL-WORLD DATA ANALYSIS CHALLENGES. IT COVERS CONCEPTS FROM PROBABILITY, STATISTICAL INFERENCE, LINEAR REGRESSION, AND MACHINE LEARNING. IT ALSO HELPS YOU DEVELOP SKILLS SUCH AS R PROGRAMMING, DATA WRANGLING, DATA VISUALIZATION, PREDICTIVE ALGORITHM BUILDING, FILE ORGANIZATION WITH UNIX/LINUX SHELL, VERSION CONTROL WITH GIT AND GITHUB, AND REPRODUCIBLE DOCUMENT PREPARATION. THIS BOOK IS A TEXTBOOK FOR A FIRST COURSE IN DATA SCIENCE. NO PREVIOUS KNOWLEDGE OF R IS NECESSARY, ALTHOUGH SOME EXPERIENCE WITH PROGRAMMING MAY BE HELPFUL. THE BOOK IS DIVIDED INTO SIX PARTS: R, DATA VISUALIZATION, STATISTICS WITH R, DATA WRANGLING, MACHINE LEARNING, AND PRODUCTIVITY TOOLS. EACH PART HAS SEVERAL CHAPTERS MEANT TO BE PRESENTED AS ONE LECTURE. THE AUTHOR USES MOTIVATING CASE STUDIES THAT REALISTICALLY MIMIC A DATA SCIENTIST'S EXPERIENCE. HE STARTS BY ASKING SPECIFIC QUESTIONS AND ANSWERS THESE THROUGH DATA ANALYSIS SO CONCEPTS ARE LEARNED AS A MEANS TO ANSWERING THE QUESTIONS. EXAMPLES OF THE CASE STUDIES INCLUDED ARE: US MURDER RATES BY STATE, SELF-REPORTED STUDENT HEIGHTS, TRENDS IN WORLD HEALTH AND ECONOMICS, THE IMPACT OF VACCINES ON INFECTIOUS DISEASE RATES, THE FINANCIAL CRISIS OF 2007-2008, ELECTION FORECASTING, BUILDING A BASEBALL TEAM, IMAGE PROCESSING OF HAND-WRITTEN DIGITS, AND MOVIE RECOMMENDATION SYSTEMS. THE STATISTICAL CONCEPTS USED TO ANSWER THE CASE STUDY QUESTIONS ARE ONLY BRIEFLY INTRODUCED, SO COMPLEMENTING WITH A PROBABILITY AND STATISTICS TEXTBOOK IS HIGHLY RECOMMENDED FOR IN-DEPTH UNDERSTANDING OF THESE CONCEPTS. IF YOU READ AND UNDERSTAND THE CHAPTERS AND COMPLETE THE EXERCISES, YOU WILL BE PREPARED TO LEARN THE MORE ADVANCED CONCEPTS AND SKILLS NEEDED TO

BECOME AN EXPERT.

ENVISIONING INFORMATION - EDWARD R. TUFT 1990
ESCAPOING FLATLAND. MICRO/MACRO READINGS. LAYERING
AND SEPARATION. SMALL MULTIPLES. COLOR AND
INFORMATION. NARRATIVES OF SPACE AND TIME. EPILOGUE.
HOW TO LIE WITH STATISTICS - DARRELL HUFF
2010-12-07

IF YOU WANT TO OUTSMART A CROOK, LEARN HIS
TRICKS—DARRELL HUFF EXPLAINS EXACTLY HOW IN THE
CLASSIC HOW TO LIE WITH STATISTICS. FROM DISTORTED
GRAPHS AND BIASED SAMPLES TO MISLEADING AVERAGES,
THERE ARE COUNTLESS STATISTICAL DODGES THAT LEND
COVER TO ANYONE WITH AN AX TO GRIND OR A PRODUCT TO
SELL. WITH ABUNDANT EXAMPLES AND ILLUSTRATIONS,
DARRELL HUFF'S LIVELY AND ENGAGING PRIMER CLARIFIES THE
BASIC PRINCIPLES OF STATISTICS AND EXPLAINS HOW THEY'RE
USED TO PRESENT INFORMATION IN HONEST AND NOT-SO-
HONEST WAYS. NOW EVEN MORE INDISPENSABLE IN OUR DATA-
DRIVEN WORLD THAN IT WAS WHEN FIRST PUBLISHED, HOW
TO LIE WITH STATISTICS IS THE BOOK THAT GENERATIONS OF
READERS HAVE RELIED ON TO KEEP FROM BEING FOOLED.

INFO WE TRUST - RJ ANDREWS 2019-01-03

HOW DO WE CREATE NEW WAYS OF LOOKING AT THE
WORLD? JOIN AWARD-WINNING DATA STORYTELLER RJ
ANDREWS AS HE PUSHES BEYOND THE USUAL HOW-TO, AND
TAKES YOU ON AN ADVENTURE INTO THE RICH ART OF
INFORMING. CREATING INFO WE TRUST IS A CRAFT THAT
PUTS THE WORLD INTO FORMS THAT ARE STRONG AND TRUE.
IT BEGINS WITH MAPS, DIAGRAMS, AND CHARTS — BUT MUST
PUSH FURTHER THAN DRY DEFAULTS TO BE TRULY EFFECTIVE.
HOW DO WE ATTRACT ATTENTION? HOW CAN WE OFFER
AUDIENCES VALUABLE EXPERIENCES WORTH THEIR TIME? HOW
CAN WE HELP PEOPLE ACCESS COMPLEXITY? DARK AND
MYSTERIOUS, BUT FULL OF POTENTIAL, DATA IS THE RAW
MATERIAL FROM WHICH NEW UNDERSTANDING CAN EMERGE.
BECOME A HERO OF THE INFORMATION AGE AS YOU LEARN
HOW TO DIP INTO THE CHAOS OF DATA AND EMERGE WITH
NEW UNDERSTANDING THAT CAN ENTERTAIN, IMPROVE, AND
INSPIRE. WHETHER YOU CALL THE CRAFT DATA
STORYTELLING, DATA VISUALIZATION, DATA JOURNALISM,
DASHBOARD DESIGN, OR INFOGRAPHIC CREATION — WHAT
MATTERS IS THAT YOU ARE COURAGEOUSLY CONFRONTING
THE CHAOS OF IT ALL IN ORDER TO IMPROVE HOW PEOPLE SEE
THE WORLD. INFO WE TRUST IS WRITTEN FOR EVERYONE
WHO STRADDLES THE DOMAINS OF DATA AND PEOPLE: DATA
VISUALIZATION PROFESSIONALS, ANALYSTS, AND ALL WHO
ARE ENTHUSIASTIC FOR SEEING THE WORLD IN NEW WAYS.
THIS BOOK DRAWS FROM THE ENTIRETY OF HUMAN EXPERIENCE,
QUANTITATIVE AND POETIC. IT TEACHES ADVANCED
TECHNIQUES, SUCH AS VISUAL METAPHOR AND DATA
TRANSFORMATIONS, IN ORDER TO CREATE MORE HUMAN
PRESENTATIONS OF DATA. IT ALSO SHOWS HOW WE CAN
LEARN FROM PRINT ADVERTISING, ENGINEERING, MUSEUM
CURATION, AND MYTHOLOGY ARCHETYPES. THIS HUMAN-
CENTERED APPROACH WORKS WITH MACHINES TO DESIGN
INFORMATION FOR PEOPLE. ADVANCE YOUR UNDERSTANDING
BEYOND BY LEARNING FROM A BROAD TRADITION OF PUTTING
THINGS “IN FORMATION” TO CREATE NEW AND WONDERFUL
WAYS OF OPENING OUR EYES TO THE WORLD. INFO WE

TRUST TAKES A THOROUGHLY ORIGINAL POINT OF ATTACK
ON THE ART OF INFORMING. IT BUILDS ON DECADES OF BEST
PRACTICES AND ADDS THE CREATIVE ENTHUSIASM OF A
WORLD-CLASS DATA STORYTELLER. INFO WE TRUST IS
LAVISHLY ILLUSTRATED WITH HUNDREDS OF ORIGINAL
COMPOSITIONS DESIGNED TO ILLUMINATE THE CRAFT, DELIGHT
THE READER, AND INSPIRE A GENERATION OF DATA
STORYTELLERS.

LEARNING STATISTICS USING R - RANDALL E. SCHUMACKER
2014-01-28

PROVIDING EASY-TO-USE R SCRIPT PROGRAMS THAT TEACH
DESCRIPTIVE STATISTICS, GRAPHING, AND OTHER
STATISTICAL METHODS, LEARNING STATISTICS USING R
SHOWS READERS HOW TO RUN AND UTILIZE R, A FREE
INTEGRATED STATISTICAL SUITE THAT HAS AN EXTENSIVE
LIBRARY OF FUNCTIONS. LECTURERS - CONTACT YOUR LOCAL
SAGE REPRESENTATIVE TO DISCUSS YOUR COURSE NEEDS OR
TO REQUEST AN INSPECTION COPY. RANDALL E.
SCHUMACKER'S COMPREHENSIVE BOOK DESCRIBES IN DETAIL
THE PROCESSING OF VARIABLES IN STATISTICAL PROCEDURES.
COVERING A WIDE RANGE OF TOPICS, FROM PROBABILITY AND
SAMPLING DISTRIBUTION TO STATISTICAL THEOREMS AND CHI-
SQUARE, THIS INTRODUCTORY BOOK HELPS READERS LEARN
NOT ONLY HOW TO USE FORMULAE TO CALCULATE
STATISTICS, BUT ALSO HOW SPECIFIC STATISTICS FIT INTO
THE OVERALL RESEARCH PROCESS. LEARNING STATISTICS
USING R COVERS DATA INPUT FROM VECTORS, ARRAYS,
MATRICES AND DATA FRAMES, AS WELL AS THE INPUT OF
DATA SETS FROM SPSS, SAS, STATA AND OTHER
SOFTWARE PACKAGES. SCHUMACKER'S TEXT PROVIDES THE
FREEDOM TO EFFECTIVELY CALCULATE, MANIPULATE, AND
GRAPHICALLY DISPLAY DATA, USING R, ON DIFFERENT
COMPUTER OPERATING SYSTEMS WITHOUT THE EXPENSE OF
COMMERCIAL SOFTWARE. LEARNING STATISTICS USING R
PLACES STATISTICS WITHIN THE FRAMEWORK OF CONDUCTING
RESEARCH, WHERE STATISTICAL RESEARCH HYPOTHESES CAN
BE DIRECTLY ADDRESSED. EACH CHAPTER INCLUDES
DISCUSSION AND EXPLANATIONS, TABLES AND GRAPHS, AND R
FUNCTIONS AND OUTPUTS TO ENRICH READERS'
UNDERSTANDING OF STATISTICS THROUGH STATISTICAL
COMPUTING AND MODELING.

DATA VISUALIZATION MADE SIMPLE - KRISTEN SOSULSKI
2018-09-27

DATA VISUALIZATION MADE SIMPLE IS A PRACTICAL GUIDE
TO THE FUNDAMENTALS, STRATEGIES, AND REAL-WORLD
CASES FOR DATA VISUALIZATION, AN ESSENTIAL SKILL
REQUIRED IN TODAY'S INFORMATION-RICH WORLD. WITH
FOUNDATIONS ROOTED IN STATISTICS, PSYCHOLOGY, AND
COMPUTER SCIENCE, DATA VISUALIZATION OFFERS
PRACTITIONERS IN ALMOST EVERY FIELD A COHERENT WAY TO
SHARE FINDINGS FROM ORIGINAL RESEARCH, BIG DATA,
LEARNING ANALYTICS, AND MORE. IN NINE APPEALING
CHAPTERS, THE BOOK: EXAMINES THE ROLE OF DATA GRAPHICS
IN DECISION-MAKING, SHARING INFORMATION, SPARKING
DISCUSSIONS, AND INSPIRING FUTURE RESEARCH; SCRUTINIZES
DATA GRAPHICS, DELIBERATES ON THE MESSAGES THEY
CONVEY, AND LOOKS AT OPTIONS FOR DESIGN
VISUALIZATION; AND INCLUDES CASES AND INTERVIEWS TO
PROVIDE A CONTEMPORARY VIEW OF HOW DATA GRAPHICS

ARE USED BY PROFESSIONALS ACROSS INDUSTRIES BOTH NOVICES AND SEASONED DESIGNERS IN EDUCATION, BUSINESS, AND OTHER AREAS CAN USE THIS BOOK'S EFFECTIVE, LINEAR PROCESS TO DEVELOP DATA VISUALIZATION LITERACY AND PROMOTE EXPLORATORY, INQUIRY-BASED APPROACHES TO VISUALIZATION PROBLEMS.

THE GRAMMAR OF GRAPHICS - LELAND WILKINSON
2013-03-09

WRITTEN FOR STATISTICIANS, COMPUTER SCIENTISTS, GEOGRAPHERS, RESEARCH AND APPLIED SCIENTISTS, AND OTHERS INTERESTED IN VISUALIZING DATA, THIS BOOK PRESENTS A UNIQUE FOUNDATION FOR PRODUCING ALMOST EVERY QUANTITATIVE GRAPHIC FOUND IN SCIENTIFIC JOURNALS, NEWSPAPERS, STATISTICAL PACKAGES, AND DATA VISUALIZATION SYSTEMS. IT WAS DESIGNED FOR A DISTRIBUTED COMPUTING ENVIRONMENT, WITH SPECIAL ATTENTION GIVEN TO CONSERVING COMPUTER CODE AND SYSTEM RESOURCES. WHILE THE TANGIBLE RESULT OF THIS WORK IS A JAVA PRODUCTION GRAPHICS LIBRARY, THE TEXT FOCUSES ON THE DEEP STRUCTURES INVOLVED IN PRODUCING QUANTITATIVE GRAPHICS FROM DATA. IT INVESTIGATES THE RULES THAT UNDERLIE PIE CHARTS, BAR CHARTS, SCATTERPLOTS, FUNCTION PLOTS, MAPS, MOSAICS, AND RADAR CHARTS. THESE RULES ARE ABSTRACTED FROM THE WORK OF BERTIN, CLEVELAND, KOSSLYN, MACEachREN, PINKER, TUFTE, TUKEY, TOBLER, AND OTHER THEORISTS OF QUANTITATIVE GRAPHICS.

SPLINES AND ELEMENTS OF GRAPHING DATA - BASSEM JAMALEDDINE 1991

HANDBOOK FOR TEACHING STATISTICS AND RESEARCH METHODS - MARK E. WARE 2013-11-26

THIS VOLUME PRESENTS A COLLECTION OF ARTICLES SELECTED FROM TEACHING OF PSYCHOLOGY, SPONSORED BY APA DIVISION 2. IT CONTAINS THE COLLECTIVE EXPERIENCE OF TEACHERS WHO HAVE SUCCESSFULLY DEALT WITH STUDENTS' STATISTICS ANXIETY, RESISTANCE TO CONDUCTING LITERATURE REVIEWS, AND RELATED PROBLEMS. FOR THOSE WHO TEACH STATISTICS OR RESEARCH METHODS COURSES TO UNDERGRADUATE OR GRADUATE STUDENTS IN PSYCHOLOGY, EDUCATION, AND THE SOCIAL SCIENCES, THIS BOOK PROVIDES MANY INNOVATIVE STRATEGIES FOR TEACHING A VARIETY OF METHODOLOGICAL CONCEPTS AND PROCEDURES IN STATISTICS AND RESEARCH METHODS COURSES.

STORYTELLING WITH DATA - COLE NUSSBAUMER KNAFLIC
2015-10-09

DON'T SIMPLY SHOW YOUR DATA—TELL A STORY WITH IT! STORYTELLING WITH DATA TEACHES YOU THE FUNDAMENTALS OF DATA VISUALIZATION AND HOW TO COMMUNICATE EFFECTIVELY WITH DATA. YOU'LL DISCOVER THE POWER OF STORYTELLING AND THE WAY TO MAKE DATA A PIVOTAL POINT IN YOUR STORY. THE LESSONS IN THIS ILLUMINATIVE TEXT ARE GROUNDED IN THEORY, BUT MADE ACCESSIBLE THROUGH NUMEROUS REAL-WORLD EXAMPLES—READY FOR IMMEDIATE APPLICATION TO YOUR NEXT GRAPH OR PRESENTATION. STORYTELLING IS NOT AN INHERENT SKILL, ESPECIALLY WHEN IT COMES TO DATA VISUALIZATION, AND THE TOOLS AT OUR DISPOSAL DON'T MAKE IT ANY EASIER. THIS BOOK DEMONSTRATES HOW TO GO

BEYOND CONVENTIONAL TOOLS TO REACH THE ROOT OF YOUR DATA, AND HOW TO USE YOUR DATA TO CREATE AN ENGAGING, INFORMATIVE, COMPELLING STORY. SPECIFICALLY, YOU'LL LEARN HOW TO: UNDERSTAND THE IMPORTANCE OF CONTEXT AND AUDIENCE DETERMINE THE APPROPRIATE TYPE OF GRAPH FOR YOUR SITUATION RECOGNIZE AND ELIMINATE THE CLUTTER CLOUDING YOUR INFORMATION DIRECT YOUR AUDIENCE'S ATTENTION TO THE MOST IMPORTANT PARTS OF YOUR DATA THINK LIKE A DESIGNER AND UTILIZE CONCEPTS OF DESIGN IN DATA VISUALIZATION LEVERAGE THE POWER OF STORYTELLING TO HELP YOUR MESSAGE RESONATE WITH YOUR AUDIENCE TOGETHER, THE LESSONS IN THIS BOOK WILL HELP YOU TURN YOUR DATA INTO HIGH IMPACT VISUAL STORIES THAT STICK WITH YOUR AUDIENCE. RID YOUR WORLD OF INEFFECTIVE GRAPHS, ONE EXPLODING 3D PIE CHART AT A TIME. THERE IS A STORY IN YOUR DATA—STORYTELLING WITH DATA WILL GIVE YOU THE SKILLS AND POWER TO TELL IT!

PERL GRAPHICS PROGRAMMING - SHAWN WALLACE
2002-12-25

THIS INSIGHTFUL VOLUME FOCUSES ON SCRIPTING PROGRAMMERS TO MANIPULATE GRAPHICS FOR THE WEB. THE BOOK DOCUMENTS NEW WAYS TO USE PERL MODULES FOR GENERATING GRAPHICS.

SHOW ME THE NUMBERS - STEPHEN FEW 2012

INFORMATION, NO MATTER HOW IMPORTANT, CANNOT SPEAK FOR ITSELF. TO TELL ITS STORY, IT RELIES ON US TO GIVE IT A CLEAR VOICE. NO INFORMATION IS MORE CRITICAL THAN QUANTITATIVE DATA ... NUMBERS THAT REVEAL WHAT'S HAPPENING, HOW OUR ORGANIZATIONS ARE PERFORMING, AND OPPORTUNITIES TO DO BETTER. NUMBERS ARE USUALLY PRESENTED IN TABLES AND GRAPHS, BUT FEW ARE PROPERLY DESIGNED, RESULTING NOT ONLY IN POOR COMMUNICATION, BUT AT TIMES IN MISCOMMUNICATION. THIS IS A TRAVESTY, BECAUSE THE SKILLS NEEDED TO PRESENT QUANTITATIVE INFORMATION EFFECTIVELY ARE SIMPLE TO LEARN. GOOD COMMUNICATION DOESN'T JUST HAPPEN; IT IS THE RESULT OF GOOD DESIGN.

R FOR DATA SCIENCE - HADLEY WICKHAM 2016-12-12
LEARN HOW TO USE R TO TURN RAW DATA INTO INSIGHT, KNOWLEDGE, AND UNDERSTANDING. THIS BOOK INTRODUCES YOU TO R, RSTUDIO, AND THE TIDYVERSE, A COLLECTION OF R PACKAGES DESIGNED TO WORK TOGETHER TO MAKE DATA SCIENCE FAST, FLUENT, AND FUN. SUITABLE FOR READERS WITH NO PREVIOUS PROGRAMMING EXPERIENCE, R FOR DATA SCIENCE IS DESIGNED TO GET YOU DOING DATA SCIENCE AS QUICKLY AS POSSIBLE. AUTHORS HADLEY WICKHAM AND GARRETT GROLEMUND GUIDE YOU THROUGH THE STEPS OF IMPORTING, WRANGLING, EXPLORING, AND MODELING YOUR DATA AND COMMUNICATING THE RESULTS. YOU'LL GET A COMPLETE, BIG-PICTURE UNDERSTANDING OF THE DATA SCIENCE CYCLE, ALONG WITH BASIC TOOLS YOU NEED TO MANAGE THE DETAILS. EACH SECTION OF THE BOOK IS PAIRED WITH EXERCISES TO HELP YOU PRACTICE WHAT YOU'VE LEARNED ALONG THE WAY. YOU'LL LEARN HOW TO: WRANGLE—TRANSFORM YOUR DATASETS INTO A FORM CONVENIENT FOR ANALYSIS PROGRAM—LEARN POWERFUL R TOOLS FOR SOLVING DATA PROBLEMS WITH GREATER CLARITY AND EASE EXPLORE—EXAMINE YOUR DATA,

GENERATE HYPOTHESES, AND QUICKLY TEST THEM
MODEL—PROVIDE A LOW-DIMENSIONAL SUMMARY THAT

CAPTURES TRUE “SIGNALS” IN YOUR DATASET
COMMUNICATE—LEARN R MARKDOWN FOR INTEGRATING
PROSE, CODE, AND RESULTS