

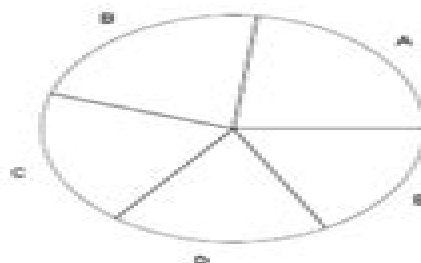
# Creating More Effective Graphs:

## Key Points of Presentation

Naomi B. Robbins

### Introduction

1. For our purposes, one graph is considered more effective than another if its quantitative information can be decoded more quickly or more easily by most observers. (6)<sup>1</sup>



**Figure 1. Pie Chart.** This pie chart has five wedges. Please order them in size order from largest to smallest.

2. A dot plot is more effective than a pie chart for ordering the sizes of A through E above. (5)
3. A table is often very effective for small data sets. (9)
4. Summary of Keynote:
  - Limitations of some common graph forms.
  - Human perception and our ability to decode graphs.
  - Newer and more effective graph forms.
  - Trellis graphics and other innovative methods to present more than two variables.
  - General principles for creating effective graphs.

<sup>1</sup> Numbers in parentheses at the end of key points provide page numbers from *Creating More Effective Graphs* for those readers who want additional information or wish to see examples of the points made.

# Creating More Effective Graphs

**M Tight**



## **Creating More Effective Graphs:**

Creating More Effective Graphs Naomi B. Robbins, 2005 A succinct and highly readable guide to creating effective graphs The right graph can be a powerful tool for communicating information improving a presentation or conveying your point in print If your professional endeavors call for you to present data graphically here s a book that can help you do it more effectively Creating More Effective Graphs gives you the basic knowledge and techniques required to choose and create appropriate graphs for a broad range of applications Using real world examples everyone can relate to the author draws on her years of experience in graphical data analysis and presentation to highlight some of today s most effective methods In clear concise language the author answers such common questions as What constitutes an effective graph for communicating data How do I choose the type of graph that is best for my data How do I recognize a misleading graph Why do some graphs have logarithmic scales In no time you ll graduate from bar graphs and pie charts to graphs that illuminate data like Dot plots Box plots Scatterplots Linked micromaps Trellis displays Mosaic plots Month plots Scatterplot matrices most of them requiring only inexpensive easily downloadable software Whether you re a novice at graphing or already use graphs in your work but want to improve them Creating More Effective Graphs will help you develop the kind of clear accurate and well designed graphs that will allow your data to be understood **Creating More Effective Graphs** Naomi B.

Robbins, 2013-05-30 The right graph can be a powerful tool for communicating information improving a presentation or conveying your point in print If your professional endeavors call for you to present data graphically here s a book that can help you do it more effectively Creating More Effective Graphs gives you the basic knowledge and techniques required to choose and create appropriate graphs for a broad range of applications Using real world examples everyone can relate to the author draws on her years of experience in graphical data analysis and presentation to highlight some of today s most effective methods **Designing & Delivering Scientific, Technical and Managerial Presentations + Creating More Effective Graphs Set** Peter J. Hager, Howard J. Scheiber, Naomi B. Robbins, 2008-03-14 This set contains 9780471155645

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**Evaluation Data** Gary T. Henry, 1997 This volume of New Directions for Evaluation is an attempt to share ideas and improve the hit or miss nature of graphical production *The Power of Infographics* Mark Smiciklas, 2012-06-18 Need to overcome

information overload and get your message across Infographics are your secret weapon Using them you can deliver knowledge and ideas visually so your audiences can understand them quickly and take action In *The Power of Infographics* Mark Smiciklas helps you understand how to leverage the use of powerful infographics visual representations capable of transforming complex data or concepts into intuitive instant knowledge Writing from a business perspective Smiciklas reveals how to use infographics both inside and outside the organization to build brands make sales serve clients align teams

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**Computational Statistics Handbook with MATLAB** Wendy L. Martinez,Angel R. Martinez,2015-12-16 A Strong Practical Focus on Applications and AlgorithmsComputational Statistics Handbook with MATLAB Third Edition covers today s most commonly used techniques in computational statistics while maintaining the same philosophy and writing style of the bestselling previous editions The text keeps theoretical concepts to a minimum emphasizing the i *Technical Communication* Michael H. Markel, Mike Markel,2012-01-04 This volume provides students with accessible and easy to follow strategies for tackling the major types of documents from writing reports to job applications Interactive exercises are included to provide engaging scenarios for writing practice *R Graphics, Third Edition* Paul Murrell,2018-11-15 This third edition of Paul Murrell s classic book on using R for graphics represents a major update with a complete overhaul in focus and scope It focuses primarily on the two core graphics packages in R graphics and grid and has a new section on integrating graphics This section includes three new chapters importing external images in to R integrating the graphics and grid systems and advanced SVG graphics The emphasis in this third edition is on having the ability to produce detailed and customised graphics in a wide variety of formats on being able to share and reuse those graphics and on being able to integrate graphics from multiple systems This book is aimed at all levels of R users For people who are new to R this book provides an overview of the graphics facilities which is useful for understanding what to expect from R s graphics functions and how to modify or add to the output they produce For intermediate level R users this book provides all of the information necessary to perform sophisticated customizations of plots produced in R For advanced R users this book contains vital information for producing coherent reusable and extensible graphics functions [Encyclopedia of Epidemiology](#) Sarah Boslaugh,2008 Presents information from the field of epidemiology in a less technical more accessible format Covers major topics in epidemiology from risk ratios to case control studies to mediating and moderating variables and more Relevant topics from related fields such as biostatistics and health economics are also included *Statistical Programming in SAS A.* John Bailer,2020-01-28 Statistical Programming in SAS Second Edition provides a foundation for programming to implement statistical solutions using SAS a system that has been used to solve data analytic problems for more than 40 years The author includes motivating examples to inspire readers to generate programming solutions Upper level undergraduates beginning graduate students and professionals involved in generating programming solutions for data analytic problems will benefit from this book The ideal background for a reader is some background in regression modeling and introductory experience with computer programming The coverage of statistical programming in the second edition includes Getting data into the

SAS system engineering new features and formatting variables Writing readable and well documented code Structuring implementing and debugging programs that are well documented Creating solutions to novel problems Combining data sources extracting parts of data sets and reshaping data sets as needed for other analyses Generating general solutions using macros Customizing output Producing insight inspiring data visualizations Parsing processing and analyzing text Programming solutions using matrices and connecting to R Processing text Programming with matrices Connecting SAS with R Covering topics that are part of both base and certification exams     *R Graphics* Paul Murrell,2018-11-12 Extensively updated to reflect the evolution of statistics and computing the second edition of the bestselling *R Graphics* comes complete with new packages and new examples Paul Murrell widely known as the leading expert on R graphics has developed an in depth resource that helps both neophyte and seasoned users master the intricacies of R graph     **Effective Data Visualization** Stephanie D. H. Evergreen,2016-04-22 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 data findings This comprehensive how to guide functions as a set of blueprints supported by 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 making the chosen graph in Excel     *Making More Effective Technical Presentations* James E. Connolly,1982     *Using 1-2-3 Release 4 for DOS, Special Edition* Que Development Group,1994 This book serves as a complete reference covering nearly all of 1 2 3 s commands and procedures In the style of previous *Using 1 2 3* books the text provides advice to help the user boost worksheet database and graphics performance The tips cautions and troubleshooting Q As give the reader insights only the Que 1 2 3 experts can provide     *Instructional Media* R. Lynne Ruben,Roberta Lynne Ruben,1996     **Dental Radiography and Photography** ,1927     *Music Trade Indicator* ,1925     **The CPA Journal** ,1999     *Library & Information Science Abstracts* ,2006     **Printing Art, an Illustrated Monthly Magazine** ,1929

## Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Creating More Effective Graphs**

In a global inundated with monitors and the cacophony of instantaneous conversation, the profound energy and psychological resonance of verbal artistry often disappear into obscurity, eclipsed by the constant barrage of sound and distractions. However, set within the lyrical pages of **Creating More Effective Graphs**, a charming work of fictional splendor that pulses with organic feelings, lies an unforgettable journey waiting to be embarked upon. Published by a virtuoso wordsmith, this magical opus instructions readers on an emotional odyssey, softly exposing the latent potential and profound impact embedded within the intricate web of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is key subjects, dissect their fascinating publishing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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