

GIS Cartography

A Guide to Effective Map Design

Gretchen N. Peterson



CRC Press
Taylor & Francis Group

Second Edition



Gis Cartography A Guide To Effective Map Design

**Matt Duckham, Qian (Chayn)
Sun, Michael F. Worboys**



Gis Cartography A Guide To Effective Map Design:

GIS Cartography Gretchen N. Peterson, 2009-04-06 Maps either printed or digital can create effective communication with bosses clients other scientists and the public However entry level GISers often find that map design was given short shrift in their pre professional life It is time for the GIS field which is maturing in other ways to improve its skills in this area Based on the auth

GIS Cartography Gretchen N. Peterson, 2025-02-03 The new edition of this well established introductory cartography textbook is updated to respond to the demand for critical engagement with new technologies the passion for inclusive design and for preparing students to build competence in fundamental skills Written in a friendly style it is enjoyable to read and includes over 200 figures and maps explaining everything from layout design to dynamic cartography issues A new chapter discusses the role of artificial intelligence AI in cartography and a significant expansion to 3D cartography has been incorporated into existing chapters A new chapter on accessibility provides a thorough understanding of universal design Additional updates include placements and best practices for digital map elements global labeling techniques including language support hybrid map styling multiscale map testing and information on 4D mapping New in the Fourth Edition Exploration of geospatial AI and generative AI in cartography and how they can already make an impact on workflows New material on vision motor and cognitive accessibility techniques in map design Expanded discussion on 3D cartography All chapters are updated with new data and important new developments in cartography including the importance of accessible design to ensure inclusivity for all users Updated study questions and exercises to enhance student engagement and comprehension New discussions of techniques such as aquarium cutaways integrated north arrows joy plots hybrid satellite maps crafted hachuring as well as updated information on resolution and file types This book is written as a go to guide for learning the art and science of mapmaking It is for undergraduate and graduate students taking courses in GIS and cartography and studying fields such as geography geophysics environmental engineering urban planning and so on It is also a valuable resource for professionals interested in learning techniques and technologies for creating maps and visualizing geospatial datasets

GIS Cartography Gretchen N. Peterson, 2020-11-24 Since the publication of the bestselling second edition 5 years ago vast and new globally relevant geographic datasets have become available to cartography practitioners and with this has come the need for new ways to visualize them in maps as well as new challenges in ethically disseminating the visualizations With new features and significant updates that address these changes this edition remains faithful to the original vision that cartography instruction should be software agnostic Discussing map design theory and technique rather than map design tools this book focuses on digital cartography and its best practices This third edition has completely new sections on how to deal with maps that go viral and the ethics therein new presentation ideas new features such as amenities climate data and hazards the new Equal Earth projection and vector tile design considerations All chapters are thoroughly updated with new illustrations and new sections for datasets that didn't exist when the second edition was

published as well as new techniques and trends in cartography New in the third edition A true textbook written with a friendly style and excellent examples explaining everything from layout design to fonts and colors to specific design considerations for individual feature types to static and dynamic cartography issues Thoroughly updated with new features such as points of interest climate data hazards and buildings new projections such as the Equal Earth projection and the Spilhaus projection and vector tile design considerations such as label placement techniques and tricks for making world class basemaps Includes over 70 new map examples that display the latest techniques in cartography Reflects on new developments in color palettes visualization patterns datums and non static output media such as animation interaction and large format cinematic techniques that weren't available for the second edition Defines and illustrates new terms that have made their way into the profession over the last few years such as story maps flow maps Dorling cartograms spec sheets bivariate choropleths firefly cartography Tanaka contours and value by alpha In this third edition author Gretchen Peterson takes a don't let the technology get in the way approach to the presentation focusing on the elements of good design what makes a good map and how to get there rather than specific software tools She provides a reference that you can thumb through time and again as you create your maps Copiously illustrated the third edition explores novel concepts that kick start your pursuit of map making excellence The book doesn't just teach you how to design and create good maps it teaches you how to design and create superior maps GIS Cartography Gretchen N. Peterson, 2014-05-23 In the five years since the publication of the first edition of A Guide to Effective Map Design cartography and software have become further intertwined However the initial motivation for publishing the first edition is still valid many GISers enter the field without so much as one hour of design instruction in their formal education Yet they **Cartography** Menno-Jan Kraak, Ferjan Ormeling, 2020-07-28 This Fourth Edition of Cartography Visualization of Geospatial Data serves as an excellent introduction to general cartographic principles It is an examination of the best ways to optimize the visualization and use of spatiotemporal data Fully revised it incorporates all the changes and new developments in the world of maps such as OpenStreetMap and GPS Global Positioning System based crowdsourcing and the use of new web mapping technology and adds new case studies and examples Now printed in colour throughout this edition provides students with the knowledge and skills needed to read and understand maps and mapping changes and offers professional cartographers an updated reference with the latest developments in cartography Written by the leading scholars in cartography this work is a comprehensive resource perfect for senior undergraduate and graduate students taking courses in GIS geographic information system and cartography New in This Edition Provides an excellent introduction to general cartographic visualization principles through full colour figures and images Addresses significant changes in data sources technologies and methodologies including the movement towards more open data sources and systems for mapping Includes new case studies and new examples for illustrating current trends in mapping Provides a societal and institutional framework in which future mapmakers are likely to operate based on UN

global development sustainability goals *GIS for Planning and the Built Environment* Ed Ferrari, Alasdair Rae, 2019-05-17

This engaging and practical guide is a much needed new textbook that illustrates the power of geographic information systems GIS and spatial analysis Today's planner has a wealth of data available to them much of which is increasingly linked to a specific location From football clubs to Twitter conversations government spending to the spread of diseases data can be mapped Once mapped the data begins to tell stories patterns are revealed and effective planning decisions can be made When used effectively GIS allows students planners residents and policymakers to solve wicked problems in the environment society and the economy Geospatial data is now more freely available than it ever has been as is much of the necessary software to analyse it This contemporary text offers a practical guide to spatial analysis and what it can show us In addition to explaining what GIS is and why it is such a powerful tool the authors cover such topics as geovisualization mapping principles network analysis and decision making Offering more than just theoretical or technical principles and concepts the book applies GIS techniques to the real world draws on global examples and provides practical advice on mapping the built environment This accessible text is essential reading for undergraduate and postgraduate students taking planning modules on GIS data analysis and mapping as well as for all planners urbanists and geographers with an interest in how GIS can help us better understand the built environment from a socio economic perspective *Perspectives in Medical Geography* Amy J. Blatt, 2014-06-11

Medical geography is a fascinating area of rapidly evolving study that aims to analyse and improve worldwide health issues based on the geographical factors which have an impact on them *Perspectives in Medical Geography* will appeal to both novice and seasoned researchers looking to be informed on the latest theories and applications in the field Chapters represent a wide range of industries ranging from private public universities to private companies to non profit foundations Contributors describe ways in which map and geography librarians can engage in public health research creating data standards archiving map collections and providing mapping GIS services In addition to compiling current theories and practices related to medical geography this volume also features commentaries from two pre eminent geography librarians sharing their perspectives on this emerging field and how map and geographic information librarians can engage in health related research through their profession This book was originally published as two special issues of the *Journal of Map Geography Libraries*

How to Make Maps Peter Anthamatten, 2020-12-27 The goal of *How to Make Maps* is to equip readers with the foundational knowledge of concepts they need to conceive design and produce maps in a legible clear and coherent manner drawing from both classical and modern theory in cartography This book is appropriate for graduate and undergraduate students who are beginning a course of study in geospatial sciences or who wish to begin producing their own maps While the book assumes no a priori knowledge or experience with geospatial software it may also serve GIS analysts and technicians who wish to explore the principles of cartographic design The first part of the book explores the key decisions behind every map with the aim of providing the reader with a solid foundation in fundamental

cartography concepts Chapters 1 through 3 review foundational mapping concepts and some of the decisions that are a part of every map This is followed by a discussion of the guiding principles of cartographic design in Chapter 4 how to start thinking about putting a map together in an effective and legible form Chapter 5 covers map projections the process of converting the curved earth's surface into a flat representation appropriate for mapping Chapters 6 and 7 discuss the use of text and color respectively Chapter 8 reviews trends in modern cartography to summarize some of the ways the discipline is changing due to new forms of cartographic media that include 3D representations animated cartography and mobile cartography Chapter 9 provides a literature review of the scholarship in cartography The final component of the book shifts to applied technical concepts important to cartographic production covering data quality concepts and the acquisition of geospatial data sources Chapter 10 and an overview of software applications particularly relevant to modern cartography production GIS and graphics software Chapter 11 Chapter 12 concludes the book with examples of real world cartography projects discussing the planning data collection and design process that lead to the final map products This book aspires to introduce readers to the foundational concepts both theoretical and applied they need to start the actual work of making maps The accompanying website offers hands on exercises to guide readers through the production of a map from conception through to the final version as well as PowerPoint slides that accompany the text

Making Maps John Krygier, Denis Wood, 2016-06-27 This book has been replaced by Making Maps Fourth Edition ISBN 978 1 4625 5606 9

Fundamentals of Cartography (Second Revised and Enlarged Edition) R.P. Misra, 2014-01-01 The first edition of Fundamentals of Cartography was published in 1969 by Prasanga University of Mysore It was reprinted by the Concept Publishing Company New Delhi in While the book remained in currency the cartographic processes changed drastically when information technology brought a sea of change in the sources of information drafting of maps and printing processes Drawing maps by hand became obsolete surveying whether ground or aerial was no longer the only major source of information In view of these changes it became necessary to bring out a new edition Realising that unless one knows directions scales projections coordinates ground and air surveys one would fail to understand the proper use of modern information technology in the drawing the maps Thus the contents of 1969 edition are retained and new chapters have been added to update the book In Part II of the book a chapter on Remote Sensing and Satellite Imagery has been added and Part V contains chapters on Computer Aided Cartography Geographic Information System GIS Land Information System LIS and Global Positioning System GPS

Making Maps, Third Edition John Krygier, Denis Wood, 2016-08-02 Using a wealth of illustrations with 74 in full color to elucidate each concisely presented point the revised and updated third edition continues to emphasize how design choices relate to the reasons for making a map and its intended purpose All components of map making are covered titles labels legends visual hierarchy font selection how to turn phenomena into visual data data organization symbolization and more Back cover

New Research in Crime Modeling and Mapping Using Geospatial Technologies Michael

Leitner,2025-03-10 This edited volume offers innovative research and applications in the analysis modelling and mapping of crime using geospatial and GeoAI technologies This is a follow up publication of an edited volume by the same editor with a similar title Crime Modeling and Mapping Using Geospatial Technologies published by Springer in its popular Geotechnologies and the Environment series in 2013 The book comprises sixteen chapters authored by some of the most esteemed researchers in the field These chapters are organized into four sections big data and microspaces Part I mobility Part II drugs Part III and additional geospatial applications Part IV Part I includes five chapters focusing on interactive crime mapping by using large data sets obtained from social media and analyzing these data using AI applications a fundamental spatial problem that considers spatial properties of a crime dataset to determine an adequate areal unit size different aspects of the influence or prediction of crime in microspaces and the use of sampled surface pollen to model the search space for documented forensic cases Part II has four chapters that introduce two route generation heuristics that automate the creation of hot spots policing patrol routes discuss how to optimize police response with two different maximal covering location problems and examine how human mobility patterns impact crime trends and modelling Part III consists of three chapters addressing opioid overdose patterns using a spatial mixed methods approach spatial temporal changes in hot spots of drug related offences and how geospatial technology can be used to empower stakeholders to make informed policy decisions about alcohol related motor vehicle collisions Part IV comprises four diverse chapters that do not fit under a single theme The topics discussed include the impact of video surveillance on the spatial distribution of crime the identification of the location of missing persons outreach events with spatial clustering analysis methods an examination of the distribution patterns of all types of juvenile delinquency to investigate underlying factors and a review and comparison of GeoAI methods for detecting and mapping illegal logging This book would be useful to faculty students and research scholars from geography sociology criminal justice criminology forensic sciences and other related disciplines as well as to crime analysts working for law enforcement agencies at the local state or federal levels from around the world **Topographic Mapping**

John N. Hatzopoulos, Despina J. Hatzopoulos, 2024-10-01 This book is addressed to students and professionals and it is aimed to cover as much as possible the broader region of topographic mapping as it has evolved into a modern field called geospatial information science and technology More emphasis is placed on using scientific methods and tools materialized in algorithms and software to produce practical results For this reason beyond the written material there are also many educational and professional software programs written by the first author to help comprehend the individual methodologies developed The Target of this book is to provide the people who work in fields of applications of topographic mapping environment geology geography cartography engineering geotechnical agriculture forestry geointelligence etc a source of knowledge for the broader region so that to help them in facing relevant problems as well as in preparing contracts and specifications for such type of work assigned to professionals and evaluating such contracting results It also aims to be a

reference for theory and practice for professionals in Topographic Mapping This book applies a didactics method where with a relatively small effort someone can digest a large volume of simple or complicated knowledge material at a desirable scientific depth within a relatively short time interval The objective that educated people must be smarter than the machine and not treat the machine as a black box being button pushers has been achieved through the first author s experience in the USA and Greece with relative success by adopting this didactics technique There are 14 chapters including Reference systems and Projections Topographic instruments and Geometry of coordinates Conventional construction of a topographic map Design and reproduction of a thematic map Digital Topographic mapping GIS Digital Terrain Models DTM DEM GPS GNSS methods of Photogrammetry Remote Sensing new technologies LIDAR IFSAR Augmented reality Mapping with UAS UAV Drones the method of Least Squares adjustment and Description of educational software accompanying the text *The SAGE Handbook of Visual Research Methods* Eric Margolis, Luc Pauwels, 2011-08-09 This 42 chapter volume represents the state of the art in visual research It provides an introduction to the field for a variety of visual researchers scholars and graduate students in art sociology anthropology communication education cultural studies women s studies ethnic studies global studies and related social science and humanities disciplines The SAGE Handbook of Visual Research Methods encompasses the breadth and depth of the field and points the way to future research possibilities It illustrates cutting edge as well as long standing and recognized practices This text is not only about research it is also an example of the way that the visual can be incorporated in data collection and the presentation of research findings Contributors to the book are from diverse backgrounds and include both established names in the field and rising stars Chapters describe a methodology or analytical framework its strengths and limitations possible fields of application and practical guidelines on how to apply the method or technique The Sage Handbook of Visual Research Methods is organized into seven main sections I Framing the Field of Visual Research II Producing Visual Data and Insight III Participatory and Subject Centered Approaches IV Analytical Frameworks and Approaches V Visualization Technologies and Practices VI Moving Beyond the Visual VII Options and Issues for Using and Presenting Visual Research **Map Functions** Ewa Krzywicka-Blum, 2016-11-22 This book departs from typical cartography textbooks which tend to focus on the characteristics of the methods and means of expression Instead it offers an explanation of the individual perspective on the map as a specific product of civilization one that constitutes a component of social communication The layout highlights the essential property of cartographic notation namely the way of forming the map s content elements adjusted to its purpose This property is ensured thanks to the dimension of reference units in relation to the observation scale of the objects and by topological consistency between the reference units system and real layout of the objects An exploration of the characteristics of various ways of depicting a map s content elements organized in the reference units dimension is preceded by a general section accentuating the position of cartography among other sciences as well as the definition and general properties of a map The book s closing chapter includes a separate

textbook overview of the applications of taxonomic methods in cartography **A Research Guide to Cartographic**

Resources Eva H. Dodsworth, 2018-09-22 The interdisciplinary uses of traditional cartographic resources and modern GIS tools allow for the analysis and discovery of information across a wide spectrum of fields A Research Guide to Cartographic Resources navigates the numerous American and Canadian cartographic resources available in print and online offering researchers academics and students with information on how to locate and access the large variety of resources new and old Dozens of different cartographic materials are highlighted and summarized along with lists of map libraries and geospatial centers and related professional associations A Research Guide to Cartographic Resources consists of 18 chapters two appendices and a detailed index that includes place names and libraries structured in a manner consistent with most reference guides including cartographic categories such as atlases dictionaries gazetteers handbooks maps plans GIS data and other related material Almost all of the resources listed in this guide are categorized by geography down to the county level making efficient work of the type of material required to meet the information needs of those interested in researching place specific cartographic related resources Additionally this guide will help those interested in not only developing a comprehensive collection in these subject areas but get an understanding of what materials are being collected and housed in specific map libraries geospatial centers and their related websites Of particular value are the sections that offer directories of cartographic and GIS libraries as well as comprehensive lists of geospatial datasets down to the county level This volume combines the traditional and historical collections of cartography with the modern applications of GIS based maps and geospatial datasets **GIS** Matt Duckham, Qian (Chayn) Sun, Michael F. Worboys, 2023-07-30 Following two successful editions the third edition of GIS A Computing Perspective has been completely revised and updated with extensive new content reflecting the significant progress that has been made in the realm of GIS within the last 20 years Major new topics covered for the first time in this edition include graph databases and graph query languages ontology engineering and qualitative spatial reasoning geosensor networks and GeoAI decentralized computing and online algorithms and critical GIS and data sovereignty Features Includes an entirely new chapter on AI and GIS including ontologies and the Semantic Web knowledge representation KR and spatial reasoning machine learning and spatial analysis and neural networks and deep learning Presents new material reflecting the advances made in cloud computing stream computing and sensor networks as well as extensively revised and updated content on cartography visualization and interaction design Connects the technology to the social aspects and implications of GIS including privacy and fair information practices FATE fairness accountability transparency and ethics and codes of conduct for responsible use of GIS Integrates the necessary background to foundational areas such as databases and data structures algorithms and indexes and system architecture and AI provided in context so readers new to those topics can still understand the concepts being discussed Incorporates over 20 carefully explained spatial algorithms over 60 inset boxes with in depth material that enriches the central topics and more than 300 color figures

to support the reader in mastering key concepts Welcomes a new coauthor Qian Chayn Sun to the third edition who brings her expertise in topics such as web mapping cloud computing critical geography and machine learning with big spatial data Intended for anyone interested in understanding GIS especially students taking upper level undergraduate and graduate courses in computer science and geography as well as academics researchers practitioners and professionals working in the field and involved in advanced GIS projects Making Sense of Data in the Media Andrew Bell,Todd Hartman,Aneta Piekut,Alasdair Rae,Mark Taylor,2019-11-04 The amount of data produced captured and transmitted through the media has never been greater But for this data to be useful it needs to be properly understood and claims made about or with data need to be properly scrutinized Through a series of examples of statistics in the media this book shows you how to critically assess the presentation of data in the media to identify what is significant and to sort verifiable conclusions from misleading claims How accurate are polls and how should we know How should league tables be read Are numbers presented as large really as big as they may seem at first glance By answering these questions and more readers will learn a number of statistical concepts central to many undergraduate social science statistics courses By tying them in to real life examples the importance and relevance of these concepts comes to life As such this book does more than teaches techniques needed for a statistics course it teaches you life skills that we need to use every single day **Coastal Informatics: Web Atlas Design and Implementation** Wright, Dawn,Dwyer, Ned,Cummins, Valerie,2010-07-31 This book examines state of the art developments in coastal informatics e g data portals data metadata vocabularies and ontologies metadata creation extraction cross walking tools geographic and information management systems grid computing and coastal mapping particularly via Internet map servers and web based geographical information and analysis Provided by publisher Applied Data Science in Tourism Roman Egger,2022-01-31 Access to large data sets has led to a paradigm shift in the tourism research landscape Big data is enabling a new form of knowledge gain while at the same time shaking the epistemological foundations and requiring new methods and analysis approaches It allows for interdisciplinary cooperation between computer sciences and social and economic sciences and complements the traditional research approaches This book provides a broad basis for the practical application of data science approaches such as machine learning text mining social network analysis and many more which are essential for interdisciplinary tourism research Each method is presented in principle viewed analytically and its advantages and disadvantages are weighed up and typical fields of application are presented The correct methodical application is presented with a how to approach together with code examples allowing a wider reader base including researchers practitioners and students entering the field The book is a very well structured introduction to data science not only in tourism and its methodological foundations accompanied by well chosen practical cases It underlines an important insight data are only representations of reality you need methodological skills and domain background to derive knowledge from them Hannes Werthner Vienna University of Technology Roman Egger has accomplished a difficult but necessary task

make clear how data science can practically support and foster travel and tourism research and applications The book offers a well taught collection of chapters giving a comprehensive and deep account of AI and data science for tourism Francesco Ricci Free University of Bozen Bolzano This well structured and easy to read book provides a comprehensive overview of data science in tourism It contributes largely to the methodological repository beyond traditional methods Rob Law University of Macau

Delve into the emotional tapestry woven by Emotional Journey with in **Gis Cartography A Guide To Effective Map Design** . This ebook, available for download in a PDF format (*), is more than just words on a page; itis a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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