

Thinking About Gis Geographic Information System Planning For Managers Fifth Edition

As political, economic, and environmental issues increasingly spread across the globe, the science of geography is being rediscovered by scientists, policymakers, and educators alike. Geography has been made a core subject in U.S. schools, and scientists from a variety of disciplines are using analytical tools originally developed by geographers. Rediscovering Geography presents a broad overview of geography's renewed importance in a changing world. Through discussions and highlighted case studies, this book illustrates geography's impact on international trade, environmental change, population growth, information infrastructure, the condition of cities, the spread of AIDS, and much more. The committee examines some of the more significant tools for data collection, storage, analysis, and display, with examples of major contributions made by geographers. Rediscovering Geography provides a blueprint for the future of the discipline, recommending how to strengthen its intellectual and institutional foundation and meet the demand for geographic expertise among professionals and the public.

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Web services, cloud computing, location based services, NoSQLdatabases, and Semantic Web offer new ways of accessing, analyzing, and elaborating geo-spatial information in both real-world and virtual spaces. This book explores the how-to of the most promising recurrent technologies and trends in GIS, such as Semantic GIS, Web GIS, Mobile GIS, NoSQL Geographic Databases, Cloud GIS, Spatial Data Warehousing-OLAP, and Open GIS. The text discusses and emphasizes the methodological aspects of such technologies and their applications in GIS.

Authoritative and comprehensive, this is the leading text and professional resource on using geographic information systems (GIS) to analyze and address public health problems. Basic GIS concepts and tools are explained, including ways to access and manage spatial databases. The book presents state-of-the-art methods for mapping and analyzing data on population, health events, risk factors, and health services, and for incorporating geographical knowledge into planning and policy. Numerous maps, diagrams, and real-world applications are featured. The companion Web page provides lab exercises with data that can be downloaded for individual or course use. New to This Edition *Incorporates major technological advances, such as Internet-based mapping systems and the rise of data from cell phones and other GPS-enabled devices. *Chapter on health

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disparities. *Expanded coverage of public participation GIS. *Companion Web page has all-new content. *Goes beyond the United States to encompass an international focus.

Now in its second edition, Geographic Information Systems (GIS) for Disaster Management has been completely updated to take account of new developments in the field. Using a hands-on approach grounded in relevant GIS and disaster management theory and practice, this textbook continues the tradition of the benchmark first edition, providing coverage of GIS fundamentals applied to disaster management. Real-life case studies demonstrate GIS concepts and their applicability to the full disaster management cycle. The learning-by-example approach helps readers see how GIS for disaster management operates at local, state, national, and international scales through government, the private sector, non-governmental organizations, and volunteer groups. New in the second edition: a chapter on allied technologies that includes remote sensing, Global Positioning Systems (GPS), indoor navigation, and Unmanned Aerial Systems (UAS); thirteen new technical exercises that supplement theoretical and practical chapter discussions and fully reinforce concepts learned; enhanced boxed text and other pedagogical features to give readers even more practical advice; examination of new forms of world-wide disaster faced by society; discussion of

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new commercial and open-source GIS technology and techniques such as machine learning and the Internet of Things; new interviews with subject-matter and industry experts on GIS for disaster management in the US and abroad; new career advice on getting a first job in the industry. Learned yet accessible, Geographic Information Systems (GIS) for Disaster Management continues to be a valuable teaching tool for undergraduate and graduate instructors in the disaster management and GIS fields, as well as disaster management and humanitarian professionals. Please visit <http://gisfordisastermanagement.com> to view supplemental material such as slides and hands-on exercise video walkthroughs. This companion website offers valuable hands-on experience applying concepts to practice.

Key Concepts and Techniques in GIS is a concise overview of the fundamental ideas that inform geographic information science. It provides detailed descriptions of the concepts and techniques that anyone using GIS software must fully understand to analyse spatial data. Short and clearly focussed chapters provide explanations of: spatial relationships and spatial data the creation of digital data, the use and access of existing data, the combination of data the use of modelling techniques and the essential functions of map algebra spatial statistics and spatial analysis geocomputation - including discussion of

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neural networks, cellular automata, and agent-based modelling Illustrated throughout with explanatory figures, the text also includes a glossary, cross referenced to discussion in the text. Written very much from a user's perspective, Key Concepts and Techniques in GIS is highly readable refresher course for intermediate level students and practitioners of GIS in the social and the natural sciences.

Have you ever considered how much effect information technology has on society throughout the world? Progress often places lower income and marginalized communities at a distinct disadvantage. Community Participation and Geographic Information Systems, however, offers a detailed look at numerous incidences around the world where communities have ac

An introductory text for the next generation of geospatial analysts and data scientists, Spatial Analysis: Statistics, Visualization, and Computational Methods focuses on the fundamentals of spatial analysis using traditional, contemporary, and computational methods. Outlining both non-spatial and spatial statistical concepts, the authors present practical applications of geospatial data tools, techniques, and strategies in geographic studies. They offer a problem-based learning (PBL) approach to spatial analysis—containing hands-on problem-sets that can be worked out in MS Excel or ArcGIS—as well as detailed illustrations

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and numerous case studies. The book enables readers to: Identify types and characterize non-spatial and spatial data Demonstrate their competence to explore, visualize, summarize, analyze, optimize, and clearly present statistical data and results Construct testable hypotheses that require inferential statistical analysis Process spatial data, extract explanatory variables, conduct statistical tests, and explain results Understand and interpret spatial data summaries and statistical tests Spatial Analysis: Statistics, Visualization, and Computational Methods incorporates traditional statistical methods, spatial statistics, visualization, and computational methods and algorithms to provide a concept-based problem-solving learning approach to mastering practical spatial analysis. Topics covered include: spatial descriptive methods, hypothesis testing, spatial regression, hot spot analysis, geostatistics, spatial modeling, and data science. This is a hands-on book about ArcGIS that you work with as much as read. By the end, using Learn ArcGIS lessons, you'll be able to say you made a story map, conducted geographic analysis, edited geographic data, worked in a 3D web scene, built a 3D model of Venice, and more. Backed by the collective knowledge and expertise of the worlds leading Geographic Information Systems company, this volume presents the concepts and methods unleashing the full analytic power of GIS.

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For the fourth consecutive year, the Association of Geographic Information Laboratories for Europe (AGILE) promoted the edition of a book with the collection of the scientific papers that were submitted as full-papers to the AGILE annual international conference. Those papers went through a competitive review process. The 13 AGILE conference call for full-papers of original and unpublished fundamental scientific research resulted in 54 submissions, of which 21 were accepted for publication in this volume (acceptance rate of 39%). Published in the Springer Lecture Notes in Geoinformation and Cartography, this book is associated to the 13 AGILE Conference on Geographic Information Science, held in 2010 in Guimarães, Portugal, under the title “Geospatial Thinking”. The efficient use of geospatial information and related technologies assumes the knowledge of concepts that are fundamental components of Geospatial Thinking, which is built on reasoning processes, spatial conceptualizations, and representation methods. Geospatial Thinking is associated with a set of cognitive skills consisting of several forms of knowledge and cognitive operators used to transform, combine or, in any other way, act on that same knowledge. The scientific papers published in this volume cover an important set of topics within Geoinformation Science, including: Representation and Visualisation of Geographic Phenomena; Spatiotemporal Data Analysis; Geo-

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Collaboration, Participation, and Decision Support; Semantics of Geoinformation and Knowledge Discovery; Spatiotemporal Modelling and Reasoning; and Web Services, Geospatial Systems and Real-time Applications.

Describes how to implement a successful geographic information system.

Geographic Information Systems (GIS) provide essential disaster management decision support and analytical capabilities. As such, homeland security professionals would greatly benefit from an interdisciplinary understanding of GIS and how GIS relates to disaster management, policy, and practice. Assuming no prior knowledge in GIS and/or disaster management, Geographic Information Systems (GIS) for Disaster Management guides readers through the basics of GIS as it applies to disaster management practice. Using a hands-on approach grounded in relevant GIS and disaster management theory and practice, this textbook provides coverage of the basics of GIS. It examines what GIS can and can't do, GIS data formats (vector, raster, imagery), and basic GIS functions, including analysis, map production/cartography, and data modeling. It presents a series of real-life case studies that illustrate the GIS concepts discussed in each chapter. These case studies supply readers with an understanding of the applicability of GIS to the full disaster management cycle. Providing equal treatment to each disaster management cycle phase, the book supplies disaster

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management practitioners and students with coverage of the latest developments in GIS for disaster management and emerging trends. It takes a learning-by-examples approach to help readers apply what they have learned from the examples and disaster management scenarios to their specific situations. The book illustrates how GIS technology can help disaster management professionals, public policy makers, and decision-makers at the town, county, state, federal, and international levels. Offering software-neutral best practices, this book is suitable for use in undergraduate- or graduate-level disaster management courses. Offering extensive career advice on GIS for disaster management from working professionals, the book also includes a GIS for disaster management research agenda and ideas for staying current in the field. Geographic information systems (GIS) have become increasingly important in helping us understand complex social, economic, and natural dynamics where spatial components play a key role. The critical algorithms used in GIS, however, are notoriously difficult to both teach and understand, in part due to the lack of a coherent representation. GIS Algorithms attempts to address this problem by combining rigorous formal language with example case studies and student exercises. Using Python code throughout, Xiao breaks the subject down into three fundamental areas: Geometric Algorithms Spatial Indexing Spatial Analysis

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and Modelling With its comprehensive coverage of the many algorithms involved, GIS Algorithms is a key new textbook in this complex and critical area of geography.

GIS (geographic information system) is a totally cool technology that has been called “geography on steroids.” GIS is what lets you see the schools in your neighborhood or tells you where the nearest McDonald’s is. GIS For Dummies tells you all about mapping terminology and digital mapping, how to locate geographic features and analyze patterns such as streets and waterways, and how to generate travel directions, customer location lists, and much more with GIS. Whether you’re in charge of creating GIS applications for your business or you simply love maps, you’ll find GIS For Dummies is packed with information. For example, you can: Learn all the hardware and software necessary to collect, analyze, and manipulate GIS data Explore the difference between 2D and 3D maps, create a map, or manage multiple maps Analyze patterns that appear in maps and interpret the results Measure distance in absolute, comparative, and functional ways Recognize how spatial factors relate to geographic data Discover how GIS is used in business, the military, city planning, emergency services, land management, and more Find out how GIS can help you find out where flooding may occur Determine what your organization needs, do appropriate analyses,

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and actually plan and design a GIS system You'll find dozens of applications for GIS queries and analyses, and even learn to create animated GIS output. Whether your goal is to implement a GIS or just have fun, GIS For Dummies will get you there! Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

New powerful technologies, such as geographic information systems (GIS), have been evolving and are quickly becoming part of a worldwide emergent digital infrastructure. Spatial analysis is becoming more important than ever because enormous volumes of spatial data are available from different sources, such as social media and mobile phones. When locational information is provided, spatial analysis researchers can use it to calculate statistical and mathematical relationships through time and space. This book aims to demonstrate how computer methods of spatial analysis and modeling, integrated in a GIS environment, can be used to better understand reality and give rise to more informed and, thus, improved planning. It provides a comprehensive discussion of spatial analysis, methods, and approaches related to planning.

Clear, up-to-date coverage of methods for analyzing geographical information in a GIS context Geographic Information Analysis, Second Edition is fully updated to keep pace with the most recent developments of spatial analysis in a geographic

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information systems (GIS) environment. Still focusing on the universal aspects of this science, this revised edition includes new coverage on geovisualization and mapping as well as recent developments using local statistics. Building on the fundamentals, this book explores such key concepts as spatial processes, point patterns, and autocorrelation in area data, as well as in continuous fields. Also addressed are methods for combining maps and performing computationally intensive analysis. New chapters tackle mapping, geovisualization, and local statistics, including the Moran Scatterplot and Geographically Weighted Regression (GWR). An appendix provides a primer on linear algebra using matrices. Complete with chapter objectives, summaries, "thought exercises," explanatory diagrams, and a chapter-by-chapter bibliography, Geographic Information Analysis is a practical book for students, as well as a valuable resource for researchers and professionals in the industry.

In this volume the contributors use Geographical Information Systems (GIS) to reassess both historic and contemporary Asian countries and traditionally Islamic areas. This highly illustrated and comprehensive work highlights how GIS can be applied to the social sciences. With its description of how to process, construct and manage geographical data the book is ideal for the non-specialist looking for a new and refreshing way to approach Islamic area studies.

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"This book provides an overview of why geography is important in the investigation of health, the importance of the main components of a GIS, how important neighborhood context is when using a GIS, and the general differences found between urban and rural health environments"--Provided by publisher. With the onslaught of emergent technology in academia, libraries are privy to many innovative techniques to recognize and classify geospatial data?above and beyond the traditional map librarianship. As librarians become more involved in the development and provision of GIS services and resources, they encounter both problems and solutions. Integrating Geographic Information Systems into Library Services: A Guide for Academic Libraries integrates traditional map librarianship and contemporary issues in digital librarianship within a framework of a global embedded information infrastructure, addressing technical, legal, and institutional factors such as collection development, reference and research services, and cataloging/metadata, as well as issues in accessibility and standards.

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Thinking Big Data in Geography offers a practical state-of-the-field overview of big data as both a means and an object of research, with essays from prominent

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and emerging scholars such as Rob Kitchin, Renee Sieber, and Mark Graham. Part 1 explores how the advent of geoweb technologies and big data sets has influenced some of geography's major subdisciplines: urban politics and political economy, human-environment interactions, and geographic information sciences. Part 2 addresses how the geographic study of big data has implications for other disciplinary fields, notably the digital humanities and the study of social justice. The volume concludes with theoretical applications of the geoweb and big data as they pertain to society as a whole, examining the ways in which user-generated data come into the world and are complicit in its unfolding. The contributors raise caution regarding the use of spatial big data, citing issues of accuracy, surveillance, and privacy.

Geographic information systems (GIS) use a complex mix of cartography, statistical analysis, and database technology to provide everything from web-based interfaces, such as Bing Maps and Google Maps, to tracking applications for delivery services. With GIS, author Peter Shaw guides you through it all, starting with a detailed examination of the data and processes that constitute the internals of a GIS. He surveys a selection of commercial and open-source software packages, detailing the strengths and weaknesses of each so you can choose one that suits your own GIS development. Shaw even provides

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instructions for setting up a spatially enabled database and creating a complete .NET GIS application. Complete with downloadable code samples, GIS is the one resource you need to map your world. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject . We hope you find this book useful in shaping your future career & Business.

An introductory overview of spatial analysis and statistics through GIS, including worked examples and critical analysis of results.

Comprehensive guide, for practitioners and students on concepts, practices, tools for management of geographic information system (GIS) programs and projects. English

This landmark text captures and redefines the richness and diversity of GIS, in an accessible form. It presents a clearly-defined path to a world of learning about GIS, using the Internet and closely-coupled reference sources. It is richly produced and illustrated unlike any other in the field, with over 300 full colour illustrations. Unique in

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several ways, it presents comprehensive treatments of: Geographic Information Science – the scientific context to GIS, technical content and geographic implications The real value of GIS – illustrated using real world applications. Treatments emphasize operational, tactical and strategic issues The impact of Internet GIS on interdisciplinary science and society The pivotal role of GIS as a business driver in the information age – including the role of GIS as a business asset and the operational dynamics of its use in practice Learning resources include: Links to ESRI's Virtual Campus which includes modules specially written to accompany the book (<http://campus.esri.com>) Instructor's Manual to assist in the planning and use of this text in a variety of academic environments (<http://www.wiley.co.uk/gis>) Free on-line access to relevant chapters of the first edition of the two-volume 'Big Book 1' (<http://www.wiley.co.uk/gis>) Questions for further study at the end of each chapter (<http://www.wiley.co.uk/gis>) Powerpoint slides to assist teaching

GIS for Science: Applying Mapping and Spatial Analytics, Volume 2 shows readers how scientists working on the world's most pressing problems apply geographic information systems--GIS.

Professionals who work with grieving families, including psychiatrists, psychologists, social workers, family therapists, physicians and nurses who work with dying patients and their families, hospice and patient home-care workers, clergy. The book also serves as a text in courses on bereavement, family development, family and child

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therapy, and child developmental psychopathology.

Computer-mediated participation is at the crossroads. In the early heady days of the digital revolution, access to "high" technologies such as GIS promised the empowerment of marginalized communities by providing data and information that was previously hidden away from public view. To a great extent, this goal has been achieved at least in the U.S. and Western Europe – data about a range of government initiatives and raw data about different aspects of spatial planning such as land use, community facilities, property ownership are available a mouse-click away. Now, that we, the public, have access to information, are we able to make better plans for the future of our cities and regions? Are we more inclusive in our planning efforts? Are we able to foster collaborative governance structures mediated by digital technologies? In the book, these issues will be discussed using a three-part structure. The first part of the book will be theoretical – it will review the literature in the field, establish a framework to organize the literature and to link three different subject areas (participation and community development, GIS and other related technologies, and planning processes). The second part of the book will be a series of success stories, case studies that review actual situations where participatory planning using GIS has enabled community wellbeing and empowerment. These case studies will vary in scale and focus on different planning issues (planning broadly defined). The final part of the book will step back to review alternative scenarios for the future, exploring where we

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are headed, as the technologies we are using to plan rapidly change.

A conceptual introduction and practical primer to the application of imagery and remote sensing data in GIS (geographic information systems).

New Lines takes the pulse of a society increasingly drawn to the power of the digital map, examining the conceptual and technical developments of the field of geographic information science as this work is refracted through a pervasive digital culture.

Matthew W. Wilson draws together archival research on the birth of the digital map with a reconsideration of the critical turn in mapping and cartographic thought. Seeking to bridge a foundational divide within the discipline of geography—between cultural and human geographers and practitioners of Geographic Information Systems (GIS)—Wilson suggests that GIS practitioners may operate within a critical vacuum and may not fully contend with their placement within broader networks, the politics of mapping, the rise of the digital humanities, the activist possibilities of appropriating GIS technologies, and more. Employing the concept of the drawn and traced line, Wilson treads the theoretical terrain of Deleuze, Guattari, and Gunnar Olsson while grounding their thoughts with the hybrid impulse of the more-than-human thought of Donna Haraway. What results is a series of interventions—fractures in the lines directing everyday life—that provide the reader with an opportunity to consider the renewed urgency of forceful geographic representation. These five fractures are criticality, digitality, movement, attention, and quantification. New Lines examines their traces to find their potential and their necessity

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in the face of our frenetic digital life.

Spatial thinkingâ€"a constructive combination of concepts of space, tools of representation, and processes of reasoningâ€"uses space to structure problems, find answers, and express solutions. It is powerful and pervasive in science, the workplace, and everyday life. By visualizing relationships within spatial structures, we can perceive, remember, and analyze the static and dynamic properties of objects and the relationships between objects. Despite its crucial role underpinning the National Standards for Science and Mathematics, spatial thinking is currently not systematically incorporated into the K-12 curriculum. Learning to Think Spatially: GIS as a Support System in the K-12 Curriculum examines how spatial thinking might be incorporated into existing standards-based instruction across the school curriculum. Spatial thinking must be recognized as a fundamental part of K-12 education and as an integrator and a facilitator for problem solving across the curriculum. With advances in computing technologies and the increasing availability of geospatial data, spatial thinking will play a significant role in the information- based economy of the 21st-century. Using appropriately designed support systems tailored to the K-12 context, spatial thinking can be taught formally to all students. A geographic information system (GIS) offers one example of a high-technology support system that can enable students and teachers to practice and apply spatial thinking in many areas of the curriculum.

Presents strategies for application development, interface design, and enabling Web-

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based access. * Includes numerous case studies and examples from the private and public sectors. * Provides information on integrating legacy MIS systems and planning for future developments in database design.

A quick start to learning the basics of visualization and mapmaking skills in ArcGIS(R) Desktop 10.6.

Geographic Information Science and Technology (GISc&T) has been at the forefront of education innovation in geography and allied sciences for two decades. Teaching Geographic Information Science and Technology in Higher Education is an invaluable reference for educators and researchers working in GISc&T, providing coverage of the latest innovations in the field and discussion of what the future holds for GI Science education in the years to come. This book clearly documents teaching innovations and takes stock of lessons learned from experience in the discipline. The content will be of interest both to educators and researchers working in GISc&T, and to educators in other related fields. More importantly, this book also anticipates some of the opportunities and challenges in GI Science and Technology education that may arise in the next decade. As such it will be of interest to chairs, deans, administrators, faculty in other subfields, and educators in general. Innovative book taking a look at recent innovations and teaching developments in the course provision of GI Science

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and Technology in higher education. Edited by leaders in the field of GISc&T who have been at the forefront of education innovation in GI Science and allied science subjects. Provides coverage of GISc & Technology in a range of institutional settings from an international perspective at all levels of higher education. An invaluable text for all educators within the field of GISc&T and allied subjects with advice from experts in the field on best practice. Includes coverage and practical advice on curriculum design, teaching with GIS technology, distance and eLearning with global examples from leading academics in the field.

Map Librarianship identifies basic geoliteracy concepts and enhances reference and instruction skills by providing details on finding, downloading, delivering, and assessing maps, remotely sensed imagery, and other geospatial resources and services, primarily from trusted government sources. By offering descriptions of traditional maps, geographic information systems (GIS), remote sensing, and other geospatial technologies, the book provides a timely and practical guide for the map and geospatial librarian to blend confidence in traditional library skill sets. Includes rarely discussed concepts of citing and referencing maps and geospatial data, fair use and copyright Creates an awareness and appreciation of existing print map collections, while building digital stewardship with surrogate

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map and aerial imagery collections Provides an introduction to the theory and applications of GIS, remote sensing, participatory neogeography and neocartography practices, and other geospatial technologies Includes a list of geospatial resources with descriptions and illustrations of commonly used map types and formats, online geospatial data sources, and an introduction to the most commonly used geospatial software packages available, on both desktop and mobile platforms

Thinking About GIS: Geographic Information System Planning for Managers presents a planning model for designing data and technology systems that will meet any organization's specific needs. Designed for two primary audiences, senior managers who oversee information technologies and technical specialists responsible for system design, this book provides a common platform on which to conduct GIS planning. The fifth edition reflects the latest trends in geospatial technology and includes updated case studies. Exercises from Roger Tomlinson's course Planning for a GIS and a video of the "Planning and Managing a GIS" seminar from the 2012 Esri International User Conference are included on the accompanying DVD.

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