Quantum Gis 174

Kurt Menke, GISP,Dr. Richard Smith Jr., GISP,Dr. Luigi Pirelli,Dr. John Van Hoesen, GISP

Tomb Families: Private Tomb Distribution in the New Kingdom Theban Necropolis Katherine Slinger,2022-02-24 Tomb Families investigates the apparently random distribution of New Kingdom private tombs in the Theban Necropolis by focusing on factors that may have influenced tomb location. This research provides a deeper understanding of the necropolis and how private tombs linked to the wider sacred landscape of Thebes.

QGIS: Becoming a GIS Power User Anita Graser,Ben Mearns,Alex Mandel,Victor Olaya Ferrero,Alexander Bruy,2017-02-28 Master data management, visualization, and spatial analysis techniques in QGIS and become a GIS power user About This Book Learn how to work with various types of data and create beautiful maps using this easy-to-follow guide Give a touch of professionalism to your maps, both for functionality and look and feel, with the help of this practical guide This progressive, hands-on guide builds on a geo-spatial data and adds more reactive maps using geometry tools. Who This Book Is For If you are a user, developer, or consultant and want to know how to use QGIS to achieve the results you are used to from other types of GIS, then this learning path is for you. You are expected to be comfortable with core GIS concepts. This Learning Path will make you an expert with QGIS by showing you how to develop more complex, layered map applications. It will launch you to the next level of GIS users. What You Will Learn Create your first map by styling both vector and raster layers from different data sources Use parameters such as precipitation, relative humidity, and temperature to predict the vulnerability of fields and crops to mildew Re-project vector and raster data and see how to convert between different style formats Use a mix of web services to provide a collaborative data system Use raster analysis and a model automation tool to model the physical conditions for hydrological analysis Get the most out of the cartographic tools to in QGIS to reveal the advanced tips and tricks of cartography In Detail The first module Learning QGIS, Third edition covers the installation and configuration of QGIS. You'll become a master in data creation and editing, and creating great maps. By the end of this module, you'll be able to extend QGIS with Python, getting in-depth with developing custom tools for the Processing Toolbox. The second module QGIS Blueprints gives you an overview of the application types and the technical aspects along with few examples from the digital humanities. After estimating unknown values using interpolation methods and demonstrating visualization and analytical techniques, the module ends by creating an editable and data-rich map for the discovery of community information. The third module QGIS 2 Cookbook covers data input and output with special instructions for trickier formats. Later, we dive into exploring data, data management, and preprocessing steps to cut your data to just the important areas. At the end of this module, you will dive into the methods for analyzing routes and networks, and learn how to take QGIS beyond the out-of-the-box features with plug-ins, customization, and add-on tools. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Learning QGIS, Third Edition by Anita Graser QGIS Blueprints by Ben Mearns QGIS 2 Cookbook by Alex Mandel, Victor Olaya Ferrero, Anita Graser, Alexander Bruy Style and approach This Learning Path will get you up and running with QGIS. We start off with an introduction to QGIS and create maps and plugins. Then, we will guide you through Blueprints for geographic web applications, each of which will teach you a different feature by boiling down a complex workflow into steps you can follow. Finally, you'll turn your attention to becoming a QGIS power user and master data management, visualization, and spatial analysis techniques of QGIS.

QGIS and Generic Tools Nicolas Baghdadi,Clément Mallet,Mehrez Zribi,2018-03-13 These four volumes present innovative thematic applications implemented using the open source software QGIS. These are applications that use remote sensing over continental surfaces. The volumes detail applications of remote sensing over continental surfaces, with a first one discussing applications for agriculture. A second one presents applications for forest, a third presents applications for the continental hydrology, and finally the last volume details applications for environment and risk issues.

Open Source Approaches in Spatial Data Handling Brent Hall,Michael G. Leahy,2008-09-27 The role open-source geospatial software plays in data handling within the spatial information technology industry is the overarching theme of the book. It also examines new tools and applications for those already using OS approaches to software development.

QGIS and Applications in Territorial Planning Nicolas Baghdadi,Clément Mallet,Mehrez Zribi,2018-03-27 These four volumes present innovative thematic applications implemented using the open source software QGIS. These are applications that use remote sensing over continental surfaces. The volumes detail applications of remote sensing over continental surfaces, with a first one discussing applications for agriculture. A second one presents applications for forest, a third presents applications for the continental hydrology, and finally the last volume details applications for environment and risk issues.

QGIS and Applications in Water and Risks Nicolas Baghdadi,Clément Mallet,Mehrez Zribi,2021-12-29 Our four volumes propose to present innovative thematic applications implemented using the open source software QGIS. These are applications that use remote sensing over continental surfaces. The four volumes detail applications of remote sensing over continental surfaces, with a first one discussing applications for agriculture. A second one presents applications for forest, a third presents applications for the continental hydrology, and finally the last volume details applications for environment and risk issues.

Mastering QGIS Kurt Menke, GISP,Dr. Richard Smith Jr., GISP,Dr. Luigi Pirelli,Dr. John Van Hoesen, GISP,2016-09-30 Go beyond the basics and unleash the full power of QGIS with practical, step-by-step examples About This Book This book is your one-stop solution to all of your GIS needs using the open source QGIS Master QGIS by learning about database integration, geoprocessing tools, Python scripts, advanced cartography, and custom plugins This example-rich, practical guide will help you create sophisticated analyses and maps Who This Book Is For If you are a GIS professional, a consultant, a student, or perhaps a fast learner who wants to go beyond the basics of QGIS, then this book is for you. It will prepare you to realize the full potential of QGIS. What You Will Learn Create and manage a spatial database Get to know advanced techniques to style GIS data Prepare both vector and raster data for processing Add heat maps, live layer effects, and labels to your maps Master LAStools and GRASS integration with the Processing Toolbox Edit and repair topological data errors Automate workflows with batch processing and the QGIS Graphical Modeler Integrate Python scripting into your data processing workflows Develop your own QGIS plugin In Detail QGIS is an open source solution to GIS. It is widely used by GIS professionals all over the world. It is the leading alternative to the proprietary GIS software. Although QGIS is described as intuitive, it is also by default complex. Knowing which tools to use and how to apply them is essential to producing valuable deliverables on time. Starting with a refresher on the QGIS basics, this book will

take you all the way through to creating your first custom QGIS plugin. From the refresher, we will recap how to create, populate, and manage a spatial database. You'll also walk through styling GIS data, from creating custom symbols and color ramps to using blending modes. In the next section, you will discover how to prepare vector, heat maps, and create live layer effects, labeling, and raster data for processing. You'll also discover advanced data creation and editing techniques. The last third of the book covers the more technical aspects of QGIS such as using LAStools and GRASS GIS's integration with the Processing Toolbox, how to automate workflows with batch processing, and how to create graphical models. Finally, you will see how to create and run Python data processing scripts and write your own QGIS plugin with pyqgis. By the end of the book, you will understand how to work with all the aspects of QGIS, and will be ready to use it for any type of GIS work. Style and approach This step-by-step comprehensive guide will let you dig your teeth into working with spatial databases, creating your own QGIS plugins, and creating your own custom graphical models.

Geoinformatics for Geosciences Nikolaos Stathopoulos,Andreas Tsatsaris,Kleomenis Kalogeropoulos,2023-05-26 Geoinformatics for Geosciences: Advanced Geospatial Analysis using RS, GIS and Soft Computing is a comprehensive guide to the methodologies and techniques that can be used in Earth observation data assessments, geospatial analysis, and soft computing in the geosciences. The book covers a variety of spatiotemporal problems and topics in the areas of the environment, geohazards, urban analysis, health, pollution, climate change, resources and geomorphology, among others. Sections cover environmental and climate issues, analysis of geomorphological data, hazard and disaster impacts, natural and human resources, the influence of environmental conditions, geohazards, climate change, geomorphological changes, etc., and socioeconomic challenges. Detailing up-to-date techniques in geoinformatics, this book offers in-depth, up-to-date methodologies for researchers and academics to understand how contemporary data can be combined with innovative techniques and tools in order to address challenges in the geosciences. Focuses on a variety of interdisciplinary applications using Earth observation data, GIS, and soft computing techniques to address various challenges in the geosciences Presents both innovative techniques and specific features of the practices described, thus allowing readers to choose the most appropriate method to apply to their specific problems Comprehensively details the state-of-the-art methodologies and decision-making tools included to ensure they are easily reproduceable

Mastering Geospatial Development with QGIS 3.x Shammunul Islam,Simon Miles,Luigi Pirelli,2019-03-28 Go beyond the basics and unleash the full power of QGIS 3.4 and 3.6 with practical, step-by-step examples Key FeaturesOne-stop solution to all of your GIS needs Master QGIS by learning about database integration, and geoprocessing toolsLearn about the new and updated Processing toolbox and perform spatial analysis Book Description QGIS is an open source solution to GIS and widely used by GIS professionals all over the world. It is the leading alternative to proprietary GIS software. Although QGIS is described as intuitive, it is also, by default, complex. Knowing which tools to use and how to apply them is essential to producing valuable deliverables on time. Starting with a refresher on the QGIS basics and getting you acquainted with the latest QGIS 3.6 updates, this book will take you all the way through to teaching you how to create a spatial database and a GeoPackage. Next, you will learn how to style raster and vector data by choosing and managing different colors. The book will then focus on processing raster and vector data. You will be then taught advanced applications, such as creating and editing vector data. Along with that, you will also learn about the newly updated Processing Toolbox, which will help you develop the advanced data visualizations. The book will then explain to you the graphic modeler, how to create QGIS plugins with PyQGIS, and how to integrate Python analysis scripts with QGIS. By the end of the book, you will understand how to work with all aspects of QGIS and will be ready to use it for any type of GIS work. What you will learnCreate and manage a spatial databaseGet to know advanced techniques to style GIS data Prepare both vector and raster data for processing Add heat maps, live layer effects, and labels to your maps Master LAStools and GRASS integration with the Processing Toolbox Edit and repair topological data errors Automate workflows with batch processing and the QGIS Graphical Modeler Integrate Python scripting into your data processing workflows Develop your own QGIS pluginsWho this book is for If you are a GIS professional, a consultant, a student, or perhaps a fast learner who wants to go beyond the basics of QGIS, then this book is for you. It will prepare you to realize the full potential of QGIS.

Learning QGIS Anita Graser,2016-03-10 The latest guide to using QGIS 2.14 to create great maps and perform geoprocessing tasks with ease About This Book Learn how to work with various data and create beautiful maps using this easy-to-follow guide. Give a touch of professionalism to your maps both for functionality and look and feel with the help of this practical guide. A progressive hands-on guide that builds on a geo-spatial data and adds more reactive maps by using geometry tools. Who This Book Is For This book is great for users, developers, and consultants who know the basic functions and processes of GIS and want to learn to use QGIS to analyze geospatial data and create rich mapping applications. If you want to take advantage of the wide range of functionalities that QGIS offers, then this is the book for you. What You Will Learn Install QGIS and get familiar with the user interface Load vector and raster data from files, databases, and web services Create, visualize, and edit spatial data Perform geoprocessing tasks and automate them Create advanced cartographic outputs Design great print maps Expand QGIS using Python In Detail QGIS is a user-friendly open source geographic information system (GIS) that runs on Linux, Unix, Mac OS X, and Windows. The popularity of open source geographic information systems and QGIS in particular has been growing rapidly over the last few years. Learning QGIS Third Edition is a practical, hands-on guide updated for QGIS 2.14 that provides you with clear, step-by-step exercises to help you apply your GIS knowledge to QGIS. Through clear, practical exercises, this book will introduce you to working with QGIS quickly and painlessly. This book takes you from installing and configuring QGIS to handling spatial data to creating great maps. You will learn how to load and visualize existing spatial data and create data from scratch. You will get to know important plugins, perform common geoprocessing and spatial analysis tasks and automate them with Processing. We will cover how to achieve great cartographic output and print maps. Finally, you will learn how to extend QGIS using Python and even create your own plugin. Style and approach A step by step approach to explain concepts of Geospatial map with the help of real life examples

QGIS Python Programming Cookbook Joel Lawhead,2017-03-14 Master over 170 recipes that will help you turn QGIS from a desktop GIS tool into a powerful automated geospatial framework About This Book Delve into the undocumented features of the QGIS API Get a set of user-friendly recipes that can automate entire geospatial workflows by connecting Python GIS building blocks into comprehensive processes This book has a complete code upgrade to QGIS 2.18 and 30 new, valuable recipes Who This Book Is For This book is for geospatial analysts who want to learn more about automating everyday GIS tasks as well as programmers responsible for building GIS applications. The short,

reusable recipes make concepts easy to understand and combine so you can build larger applications that are easy to maintain. What You Will Learn Use Python and QGIS to produce captivating GIS visualizations and build complex map layouts Find out how to effectively use the poorly-documented and undocumented features of the QGIS Python API Automate entire geospatial workflows by connecting Python GIS building blocks into comprehensive processes Create, import, and edit geospatial data on disk or in-memory Change QGIS settings programmatically to control default behavior Automatically generate PDF map books Build dynamic forms for field input In Detail QGIS is a desktop geographic information system that facilitates data viewing, editing, and analysis. Paired with the most efficient scripting language—Python, we can write effective scripts that extend the core functionality of QGIS. Based on version QGIS 2.18, this book will teach you how to write Python code that works with spatial data to automate geoprocessing tasks in QGIS. It will cover topics such as querying and editing vector data and using raster data. You will also learn to create, edit, and optimize a vector layer for faster queries, reproject a vector layer, reduce the number of vertices in a vector layer without losing critical data, and convert a raster to a vector. Following this, you will work through recipes that will help you compose static maps, create heavily customized maps, and add specialized labels and annotations. As well as this, we'll also share a few tips and tricks based on different aspects of QGIS. Style and approach This book follows a recipe-based problem-solution approach to address and dispel challenges faced when implementing and using QGIS on a regular basis.

Hands-On Geospatial Analysis with R and QGIS Shammunul Islam,2018-11-30 Practical examples with real-world projects in GIS, Remote sensing, Geospatial data management and Analysis using the R programming language Key FeaturesUnderstand the basics of R and QGIS to work with GIS and remote sensing dataLearn to manage, manipulate, and analyze spatial data using R and QGISApply machine learning algorithms to geospatial data using R and QGISBook Description Managing spatial data has always been challenging and it's getting more complex as the size of data increases. Spatial data is actually big data and you need different tools and techniques to work your way around to model and create different workflows. R and QGIS have powerful features that can make this job easier. This book is your companion for applying machine learning algorithms on GIS and remote sensing data. You'll start by gaining an understanding of the nature of spatial data and installing R and QGIS. Then, you'll learn how to use different R packages to import, export, and visualize data, before doing the same in QGIS. Screenshots are included to ease your understanding. Moving on, you'll learn about different aspects of managing and analyzing spatial data, before diving into advanced topics. You'll create powerful data visualizations using ggplot2, ggmap, raster, and other packages of R. You'll learn how to use QGIS 3.2.2 to visualize and manage (create, edit, and format) spatial data. Different types of spatial analysis are also covered using R. Finally, you'll work with landslide data from Bangladesh to create a landslide susceptibility map using different machine learning algorithms. By reading this book, you'll transition from being a beginner to an intermediate user of GIS and remote sensing data in no time. What you will learnInstall R and QGISGet familiar with the basics of R programming and QGISVisualize quantitative and qualitative data to create mapsFind out the basics of raster data and how to use them in R and QGISPerform geoprocessing tasks and automate them using the graphical modeler of QGISApply different machine learning algorithms on satellite data for landslide susceptibility mapping and predictionWho this book is for This book is great for geographers, environmental scientists, statisticians, and every professional who deals with spatial data. If you want to learn how to handle GIS and remote sensing data, then this book is for you. Basic knowledge of R and QGIS would be helpful but is not necessary.

QGIS and Applications in Agriculture and Forest Nicolas Baghdadi,Clément Mallet,Mehrez Zribi,2018-01-19 These four volumes present innovative thematic applications implemented using the open source software QGIS. These are applications that use remote sensing over continental surfaces. The volumes detail applications of remote sensing over continental surfaces, with a first one discussing applications for agriculture. A second one presents applications for forest, a third presents applications for the continental hydrology, and finally the last volume details applications for environment and risk issues.

QGIS By Example Alexander Bruy,Daria Svidzinska,2015-06-29 QGIS is a leading user-friendly, cross-platform, open source, desktop geographic information system (GIS). It provides many useful capabilities and features and their number is continuously growing. More and more private users and companies choose QGIS as their primary GIS software because it is very easy to use, feature-rich, extensible, and has a big and constantly growing community. This book guides you from QGIS installation through data loading, and preparation to performing most common GIS analyses. You will perform different types of GIS analyses including density, visibility, and suitability analysis on practical, real-world data. Finally, you will learn how to become more productive and automate your everyday work with the help of the QGIS Processing framework and by developing your own Python plugins. By the end of this book, you will have all the necessary knowledge about handling and analyzing spatial data.

QGIS Blueprints Ben Mearns,2015-09-25 Develop analytical location-based web applications with QGIS About This Book Tame geographic information workflows with QGIS blueprints for smart web applications Create geographic web applications using QGIS and free/open source software Blueprints provide real-world applications covering many use cases Who This Book Is For This book encompasses relatively experienced GIS developers who have a strong grounding in the fundamentals of GIS development. They will have used QGIS before, but are looking to understand how to develop more complex, layered map applications that expose various data sets, utilize different visualizations, and are consumable (usable) by end users What You Will Learn Review geographic information principles and the application of these principles in the QGIS free/open source ecosystem Perform advanced analysis with site selection, hydrologic, and topological networks Build performant web applications by tile caching and generating static assets Provide collaborative editing capabilities for your team or community Develop custom and dynamic analysis and visualization capabilities Select the best components from desktop and web, for your use case Integrate it with social media and crowdsourcing In Detail QGIS, the world's most popular free/open source desktop geographic information system software, enables a wide variety of use cases involving location — previously only available through expensive specialized commercial software. However, designing and executing a multi-tiered project from scratch on this complex ecosystem remains a significant challenge. This book starts with a primer on QGIS and closely related data, software, and systems. We'll guide you through six use-case blueprints for geographic web applications. Each blueprint boils down a complex workflow into steps you can follow to reduce time lost to trial and error. By the end of this book readers should be able to build complex layered applications that visualize multiple data sets, employing different types of visualization, and give end users the ability to interact with and manipulate this data for the purpose of analysis. Style and approach This is a comprehensive guide to the application of QGIS and free/open source software in creating web applications from analysis. Step-

by-step blueprints guide the reader through analytical and web development topics and designs.

GIS and Housing Laxmi Ramasubramanian,Jochen Albrecht,Deborah Rojas De Leon,2023-12-29 GIS and Housing: Principles and Practices discusses one of the challenges that has not been addressed by Geographic Information Science thus far: how can we use GIS to deal with the complex issues underlying the housing crisis? This book provides GIS technicians and analysts with an overview of US housing challenges and examples of how to effectively integrate spatial thinking to address housing policy questions, while simultaneously introducing housing policy analysts to advanced GIS concepts and techniques to create livable neighborhoods that include housing alternatives beyond the single family. Through numerous examples, the authors advocate for a collaborative approach that encourages professionals, policymakers, and analysts, across different ideological and political perspectives, to confront the multifaceted housing crisis. Features: Examines the historical aspects of housing provision, societal attitudes, demographic shifts, and government policies Bridges the gaps between housing professionals and GIS experts, facilitating an interdisciplinary approach to address the housing crisis Explores different challenges that are facing urban, suburban, and rural neighborhoods in different US regions Provides professionals with the necessary tools for informed decision-making Proposes solutions that leverage the integrative capacity of GIS to address established housing issues. Advocates for denser housing alternatives to address issues of affordability, supply shortages, and homelessness This book is intended for graduate students and professionals in housing, community development, urban planning, architecture, and GIS, and anyone curious about learning more about the American housing crisis.

An Introduction to Spatial Data Analysis Martin Wegmann,Jakob Schwalb-Willmann,Stefan Dech,2020-09-14 This is a book about how ecologists can integrate remote sensing and GIS in their research. It will allow readers to get started with the application of remote sensing and to understand its potential and limitations. Using practical examples, the book covers all necessary steps from planning field campaigns to deriving ecologically relevant information through remote sensing and modelling of species distributions. An Introduction to Spatial Data Analysis introduces spatial data handling using the open source software Quantum GIS (QGIS). In addition, readers will be guided through their first steps in the R programming language. The authors explain the fundamentals of spatial data handling and analysis, empowering the reader to turn data acquired in the field into actual spatial data. Readers will learn to process and analyse spatial data of different types and interpret the data and results. After finishing this book, readers will be able to address questions such as "What is the distance to the border of the protected area?", "Which points are located close to a road?", "Which fraction of land cover types exist in my study area?" using different software and techniques. This book is for novice spatial data users and does not assume any prior knowledge of spatial data itself or practical experience working with such data sets. Readers will likely include student and professional ecologists, geographers and any environmental scientists or practitioners who need to collect, visualize and analyse spatial data. The software used is the widely applied open source scientific programs QGIS and R. All scripts and data sets used in the book will be provided online at book.ecosens.org. This book covers specific methods including: what to consider before collecting in situ data how to work with spatial data collected in situ the difference between raster and vector data how to acquire further vector and raster data how to create relevant environmental information how to combine and analyse in situ and remote sensing data how to create useful maps for field work and presentations how to use QGIS and R for spatial analysis how to develop analysis scripts

Basics of Remote Sensing and GIS Dr. Anita Nigam,2023-10-03 Remote sensing is a versatile technique facilitating data collection and the investigation of subjects or events without direct physical interaction. This method finds application across scientific disciplines such as geography, hydrology, ecology, oceanography, glaciology and geology. Complementing this, Geographic Information System (GIS) technology emerges as a crucial tool for mapping and assessing feature events on Earth, utilizing data gathered from sensors positioned globally. The integration of remote sensing and GIS brings together fundamental database functions, including statistical analysis and querying, with map data. GIS, as a technology, excels in handling information about places, offering tools for the analysis and display of diverse data sets such as population dynamics, economic development, features and vegetation. Accessible through GIS, these statistics contribute to dynamic presentations, fostering a deeper understanding of Earth's complexities. Furthermore, GIS facilitates database connections, enabling the creation of dynamic presentations. Distinguished by its capabilities, GIS stands out among other systems, finding applications in commercial and public sectors for planning and forecasting outcomes based on observations made by remote sensing satellites. This book serves as a guide to unraveling the intricacies of remote sensing and GIS, providing insights into their integration and diverse applications.

Exploring the Earth with QGIS Fatwa Ramdani,2023-12-23 With the rapid advancements in satellite technology, earth remote sensing has become an indispensable tool for a wide range of applications, from environmental monitoring to disaster management. However, the vast amount of data generated by these satellites can be overwhelming for many researchers and practitioners who lack the necessary skills and tools to process and analyze it. This is where QGIS comes in. QGIS is a powerful, open-source Geographic Information System (GIS) software that has been extensively used in the field of earth remote sensing. It provides a user-friendly platform for processing, analyzing, and visualizing satellite imagery, enabling users to unlock the full potential of earth remote sensing data. The purpose of this book is to help researchers and practitioners who lack the necessary skills and tools to process and analyze satellite imagery using QGIS. There are several books that cover the use of QGIS for earth remote sensing, but most of them are either too technical or too general. This book fills this gap by providing a comprehensive and user-friendly guide to using QGIS for earth remote sensing applications. It includes a range of real-world case studies that demonstrate the power and versatility of QGIS for solving complex problems in earth remote sensing. This will provide readers with practical examples of how to use QGIS for earth remote sensing and inspire them to explore new applications and possibilities. The book is intended for GIS professionals, students (undergraduate and graduate), and researchers who are interested in using QGIS for earth remote sensing applications. It will be particularly useful for those who are new to QGIS or who want to expand their knowledge of the software for remote sensing purposes.

Learn QGIS Andrew Cutts,Anita Graser,2018-11-27 Learn to view, edit and analyse geospatial data using QGIS and Python 3 Key FeaturesLeverage the power of QGIS to add professionalism to your mapsExplore and work with the newly released features like Python 3, GeoPackage, 3D views, Print layouts in QGIS 3.4Build your own plugins and customize maps using QT designerBook Description QGIS 3.4 is the first LTR (long term release) of QGIS version 3. This is a giant leap forward for the project with tons of new features and impactful changes. Learn QGIS is fully

updated for QGIS 3.4, covering its processing engine update, Python 3 de-facto coding environment, and the GeoPackage format. This book will help you get started on your QGIS journey, guiding you to develop your own processing pathway. You will explore the user interface, loading your data, editing, and then creating data. QGIS often surprises new users with its mapping capabilities; you will discover how easily you can style and create your first map. But that's not all! In the final part of the book, you'll learn about spatial analysis and the powerful tools in QGIS, and conclude by looking at Python processing options. By the end of the book, you will have become proficient in geospatial analysis using QGIS and Python. What you will learnExplore various ways to load data into QGISUnderstand how to style data and present it in a mapCreate maps and explore ways to expand themGet acquainted with the new processing toolbox in QGIS 3.4Manipulate your geospatial data and gain quality insightsUnderstand how to customize QGIS 3.4Work with QGIS 3.4 in 3DWho this book is for If you are a developer or consultant familiar with the basic functions and processes of GIS and want to learn how to use QGIS to analyze geospatial data and create rich mapping applications, this book is for you. You'll also find this book useful if you're new to QGIS and wish to grasp its fundamentals

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