



Community Experience Distilled

Learning QGIS

Second Edition

Use QGIS to create great maps and perform all the geoprocessing tasks you need

Anita Graser

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Learning Qgis Second Edition

Joel Lawhead



Learning Qgis Second Edition:

Learning QGIS - Second Edition Anita Graser, 2014 *Learn QGIS* Andrew Cutts, Anita Graser, 2018-11-27

Learn to view edit and analyse geospatial data using QGIS and Python 3

Key Features

- Leverage the power of QGIS to add professionalism to your maps
- Explore and work with the newly released features like Python 3 GeoPackage 3D views Print layouts in QGIS 3 4
- Build your own plugins and customize maps using QT designer

Book 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 learn

- Explore various ways to load data into QGIS
- Understand how to style data and present it in a map
- Create maps and explore ways to expand them
- Get acquainted with the new processing toolbox in QGIS 3 4
- Manipulate your geospatial data and gain quality insights
- Understand how to customize QGIS 3 4
- Work with QGIS 3 4 in 3D

Who 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

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

Mastering QGIS Kurt Menke, GISP, Dr. Richard Smith Jr., GISP, Dr. Luigi Pirelli, Dr. John Van Hoesen, GISP, 2015-03-30 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

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

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

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

PostGIS in Action, Second Edition Leo S. Hsu, Regina O. Obe, 2015-04-21 Summary PostGIS in Action Second Edition teaches readers of all levels to write spatial queries that solve real world problems It first gives you a background in vector raster and topology based GIS and then quickly moves into analyzing viewing and mapping data This second edition covers PostGIS 2.0 and 2.1 series PostgreSQL 9.1.9.2 and 9.3 features and shows you how to integrate with other GIS tools Foreword by Paul Ramsey Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book Processing data tied to location and topology requires specialized know how PostGIS is a free spatial database extender for PostgreSQL every bit as good as proprietary software With it you can easily create location aware queries in just a few lines of SQL code and build the back end for a mapping raster analysis or routing application with minimal effort PostGIS in Action Second Edition teaches you to solve real world geodata problems It first gives you a background in vector raster and topology based GIS and then quickly moves into analyzing viewing and mapping data You ll learn how to optimize queries for maximum speed simplify geometries for greater efficiency and create custom functions for your own applications You ll also learn how to apply your existing GIS knowledge to PostGIS and integrate with other GIS tools Familiarity with relational database and GIS concepts is helpful but not required What s Inside An introduction to spatial databases Geometry geography raster and topology spatial types functions and queries Applying PostGIS to real world problems Extending PostGIS to web and desktop applications Updated for PostGIS 2.x and PostgreSQL 9.x About the Authors Regina Obe and Leo Hsu are database consultants and authors Regina is a member of the PostGIS core development team and the Project Steering Committee Table of Contents What is a spatial database Spatial data types Spatial reference system considerations Working with real data Using PostGIS on the desktop Geometry and geography functions Raster functions PostGIS TIGER geocoder Geometry relationships Proximity analysis Geometry and geography processing Raster processing Building and using topologies Organizing spatial data Query performance tuning Extending PostGIS with pgRouting and procedural languages Using PostGIS in web applications PART 1 INTRODUCTION TO POSTGIS PART 2 PUTTING POSTGIS TO WORK PART 3 USING POSTGIS WITH OTHER TOOLS **Python Geospatial Analysis Essentials** Erik

Westra, 2015-06-23 Python is a highly expressive language that makes it easy to write sophisticated programs Combining high quality geospatial data with Python geospatial libraries will give you a powerful toolkit for solving a range of geospatial programming tasks The book begins with an introduction to geospatial analysis and programming and explains the ideas behind geospatial data You will explore Python libraries for building your own geospatial applications You will learn to create a geospatial database for your application using PostGIS and the psycopg2 library and see how the Mapnik library can be

used to create attractive and useful maps Finally you will learn to use the Shapely and NetworkX libraries to create analyze and manipulate complex geometric objects before implementing a system to match GPS recordings against a database of roads to produce a heatmap of the most frequently used roads

QGIS Python Programming Cookbook - Second Edition Joel Lawhead, 2017-03-10 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

GIS Patrick McHaffie, Sungsoon Hwang, Cassie Follett, 2023-05-29 The second edition of this introductory GIS textbook is thoroughly rewritten and updated to respond to the demand for critical engagement with technologies that address relevant issues across several disciplines preparing students for higher level work in geotechnologies Chapters are arranged to 1 build competence in fundamental skills 2 explore applications of higher level managerial and analytical functions that are typically called upon in public nonprofit and private sector milieu and 3 propose and detail a template for organizing executing and completing a GIS project successfully This interests all users from beginners to experienced professionals Features Uses the latest version of ArcGIS Pro 3.0 to present a fully rewritten and updated text with diverse perspectives Includes many real

world examples with urban planning environmental and social justice foci Presents new discussions examples and lab materials on open source GIS projects Includes lab activities and data available for download from Support Materials Junior and senior level undergraduate students taking courses in remote sensing and GIS applications studying in the fields of Geography Environmental Sciences Computer Science Urban Studies Public Health and Social Disciplines as well as researchers and academics in the same fields will all benefit from the information provided in the updated version of this book Revolutionizing Earth Observation - Rifaat M. Abdalla,2024-07-31 **Learning GIS Using Open Source**

Software Kakoli Saha,Yngve K. Frøyen,2021-12-07 This book introduces the usage functionality and application of data in geographic information systems GIS for geo spatial analysis It offers knowledge on GIS tools and techniques and explains how they can be applied in real world project to architects and planners in the Indian and the Greater South Asian context using open source software The volume explains concepts on planning and architectural tasks their data methods and requirements followed and includes GIS related exercises on the same tasks It takes the reader through the concepts of geo spatial analysis and its referencing system while quoting examples from India Further the content of the book will help the planners involved in preparing GIS based master planning for cities under the Atal Mission for Rejuvenation and Urban Transformation AMRUT scheme see Glossary for details A practical guidebook providing a step by step guide to learn open source GIS this book will be useful for students scholars and professionals from the field of architecture and planning geography and other spatial sciences instructors of GIS courses on planning and architecture urban and regional planners transport planners urban design landscape architects environmental planners departments of town and country planning and development authorities It will also be useful for anyone interested in the geospatial analysis *GeoComputation, Second Edition* Robert J. Abrahart,Linda M. See,2014-06-23 A revision of Openshaw and Abrahart s seminal work GeoComputation Second Edition retains influences of its originators while also providing updated state of the art information on changes in the computational environment In keeping with the field s development this new edition takes a broader view and provides comprehensive coverage across the field of GeoComputation See What s New in the Second Edition Coverage of ubiquitous computing the GeoWeb reproducible research open access and agent based modelling Expanded chapter on Genetic Programming and a separate chapter developed on Evolutionary Algorithms Ten chapters updated by the same or new authors and eight new chapters added to reflect state of the art Each chapter is a stand alone entity that covers a particular topic You can simply dip in and out or read it from cover to cover The opening chapter by Stan Openshaw has been preserved with only a limited number of minor essential modifications having been enacted This is not just a matter of respect Openshaw s work is eloquent prophetic and his overall message remains largely unchanged In contrast to other books on this subject GeoComputation Second Edition supplies a state of the art review of all major areas in GeoComputation with chapters written especially for this book by invited specialists This approach helps develop and expand a computational

culture one that can exploit the ever increasing richness of modern geographical and geospatial datasets It also supplies an instructional guide to be kept within easy reach for regular access and when need arises **Practical SQL, 2nd Edition**

Anthony DeBarros,2022-01-25 Analyze data like a pro even if you re a beginner Practical SQL is an approachable and fast paced guide to SQL Structured Query Language the standard programming language for defining organizing and exploring data in relational databases Anthony DeBarros a journalist and data analyst focuses on using SQL to find the story within your data The examples and code use the open source database PostgreSQL and its companion pgAdmin interface and the concepts you learn will apply to most database management systems including MySQL Oracle SQLite and others You ll first cover the fundamentals of databases and the SQL language then build skills by analyzing data from real world datasets such as US Census demographics New York City taxi rides and earthquakes from US Geological Survey Each chapter includes exercises and examples that teach even those who have never programmed before all the tools necessary to build powerful databases and access information quickly and efficiently You ll learn how to Create databases and related tables using your own data Aggregate sort and filter data to find patterns Use functions for basic math and advanced statistical operations Identify errors in data and clean them up Analyze spatial data with a geographic information system PostGIS Create advanced queries and automate tasks This updated second edition has been thoroughly revised to reflect the latest in SQL features including additional advanced query techniques for wrangling data This edition also has two new chapters an expanded set of instructions on for setting up your system plus a chapter on using PostgreSQL with the popular JSON data interchange format Learning SQL doesn t have to be dry and complicated Practical SQL delivers clear examples with an easy to follow approach to teach you the tools you need to build and manage your own databases Microsoft SQL Server employs a variant of the language called T SQL which is not covered by Practical SQL *Exploring Big Historical Data: The Historian's Macroscopic (Second Edition)* Shawn Graham,Ian Milligan,Scott B Weingart,Kimberley Martin,2022-02-24 Every day more and more kinds of historical data become available opening exciting new avenues of inquiry but also new challenges This updated and expanded book describes and demonstrates the ways these data can be explored to construct cultural heritage knowledge for research and in teaching and learning It helps humanities scholars to grasp Big Data in order to do their work whether that means understanding the underlying algorithms at work in search engines or designing and using their own tools to process large amounts of information Demonstrating what digital tools have to offer and also what digital does to how we understand the past the authors introduce the many different tools and developing approaches in Big Data for historical and humanistic scholarship show how to use them what to be wary of and discuss the kinds of questions and new perspectives this new macroscopic perspective opens up Originally authored live online with ongoing feedback from the wider digital history community Exploring Big Historical Data breaks new ground and sets the direction for the conversation into the future Exploring Big Historical Data should be the go to resource for undergraduate and graduate students

confronted by a vast corpus of data and researchers encountering these methods for the first time It will also offer a helping hand to the interested individual seeking to make sense of genealogical data or digitized newspapers and even the local historical society who are trying to see the value in digitizing their holdings

Real-Time Environmental Monitoring
Miguel F. Acevedo,2023-10-19 This lab manual is a companion to the second edition of the textbook Real Time Environmental Monitoring Sensors and Systems Tested in pedagogical settings by the author for many years it includes applications with state of the art sensor technology and programs such as R Python Arduino PHP HTML and SQL It helps students and instructors in science and engineering better understand how to use and design a variety of sensors and how to build systems and databases when monitoring different environments such as soil water and air Examples of low cost and open access systems are included and can serve as the basis of learning tools for the concepts and techniques described in the textbook Furthermore the manual provides links to websites and scripts in R that allow learning how to analyze a variety of datasets available from repositories and databases maintained by many agencies and institutions The first hands on environmental monitoring lab manual written in tutorial style and classroom tested Includes 14 lab guides that parallel the theory developed in 14 chapters in the companion textbook Provides clear step by step protocols to understand basic and advanced theory through applicable exercises and problems Injects a practical implementation of the existing textbook A valuable guide for students and practitioners worldwide engaged in efforts to develop employ and maintain environmental monitors Intended for upper level undergraduate and graduate students taking courses in electrical engineering civil and environmental engineering mechanical engineering geosciences and environmental sciences as well as instructors who teach these courses Professionals working in fields such as environmental services and researchers and academics in engineering will also benefit from the range of topics included in this lab manual

Learning QGIS 2.0 Anita Graser,2013-09-17 A short book with a lot of hands on examples to help you learn in a practical way This book is great for users developers and consultants who know the basic functions and processes of a GIS but want to know how to use QGIS to achieve the results they are used to a full fledged GIS

Geographic Information Systems (GIS) for Disaster Management Brian Tomaszewski,2020-10-27 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 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 Practical Handbook of Remote Sensing Samantha Lavender,Andrew Lavender,2023-04-20 The number of Earth observation satellites launched in recent years is growing exponentially along with the datasets they gather from free to access and commercial providers The second edition of Practical Handbook of Remote Sensing is updated with new explanations and practical examples using the Copernicus satellite data and new versions of the open source software A new chapter and new applications have also been added Thoroughly revised the handbook continues to be a practical how to remote sensing guide for those who want to use the technology understand what is available how to access it and answer questions about our planet but do not necessarily want to become scientific experts

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