[Books] Mastering Geoserver

Right here, we have countless book **mastering geoserver** and collections to check out. We additionally present variant types and with type of the books to browse. The conventional book, fiction, history, novel, scientific research, as competently as various new sorts of books are readily easy to get to here.

As this mastering geoserver, it ends happening mammal one of the favored books mastering geoserver collections that we have. This is why you remain in the best website to see the unbelievable ebook to have.

Mastering GeoServer-Colin Henderson 2014-11-25 If you are a GIS professional who intends to explore advanced techniques and get more out of GeoServer deployment rather than simply delivering good looking maps, then this book is for you.

GeoServer Beginner's Guide-Stefano Iacovella 2017-10-20 This step-by-step guide will teach you how to use GeoServer to build custom and interactive maps using your data. About This Book Exploit the power of GeoServer to provide agile, flexible, and low -cost community projects Share real-time maps quickly Boost your map server's performance using the power and flexibility of GeoServer Who This Book Is For If you are a web developer with knowledge of server side scripting, have experience in installing applications on the server, and want to go beyond Google Maps by offering dynamically built maps on your site with your latest geospatial data stored in MySQL, PostGIS, MySQL, or Oracle, this is the book for you. What You Will Learn Install GeoServer quickly Access dynamic real-time geospatial data that you can easily integrate into your own web-based application Create custom styles for lines, points, and polygons for great-looking maps Command GeoServer remotely using REST Tune your GeoServer instance for performance Move GeoServer into production Learn advanced topics to extend GeoServer's capabilities In Detail GeoServer is an opensource server written in Java that allows users to share, process, and edit geospatial data. This book will guide you through the new features and improvements of GeoServer and will help you get started with it. GeoServer Beginner's Guide gives you the impetus to build custom maps using your data without the need for costly commercial software licenses and restrictions. Even if you do not have prior GIS knowledge, you will be able to make interactive maps after reading this book. You will install GeoServer, access your data from a database, and apply style points, lines, polygons, and labels to impress site visitors with real-time maps. Then you follow a step-by-step guide that installs GeoServer in minutes. You will explore the web-based administrative interface to connect to backend data stores such as PostGIS, and Oracle. Going ahead, you can display your data on web-based interactive maps, use style lines, points, polygons, and embed images to visualize this data for your web visitors. You will walk away from this book with a working application ready for production. After reading GeoServer Beginner's Guide, you will be able to build beautiful custom maps on your website using your geospatial data. Style and approach Step-by-step instructions are included and the needs of a beginner are totally satisfied by the book. The book consists of plenty of examples with accompanying screenshots and code for an easy learning curve.

Mastering Spark for Data Science-Andrew Morgan 2017-03-29 Master the techniques and sophisticated analytics used to construct Spark-based solutions that scale to deliver production-grade data science products About This Book Develop and apply advanced analytical techniques with Spark Learn how to tell a compelling story with data science using Spark's ecosystem Explore data at scale and work with cutting edge data science methods Who This Book Is For This is for those who have beginner-level familiarity with the Spark architecture and data science applications, especially those who are looking for a challenge and want to learn cutting edge techniques. This book assumes working knowledge of data science, common machine learning methods, and popular data science tools, and assumes you have previously run proof of concept studies and built prototypes. What You Will Learn Learn the design patterns that integrate Spark into industrialized data science pipelines See how commercial data scientists design scalable code and reusable code for data science services Explore cutting edge data science methods so that you can study trends and causality Discover advanced programming techniques using RDD and the DataFrame and Dataset APIs Find out how Spark can be used as a universal ingestion engine tool and as a web scraper Practice the implementation of advanced topics in graph processing, such as community detection and contact chaining Get to know the best practices when performing Extended Exploratory Data Analysis, commonly used in commercial data science teams Study advanced Spark concepts, solution design patterns, and integration architectures Demonstrate powerful data science pipelines In Detail Data science seeks to transform the world using data, and this is typically achieved through disrupting and changing real processes in real industries. In order to operate at this level you need to build data science solutions of substance –solutions that solve real problems. Spark has emerged as the big data platform of choice for data scientists due to its speed, scalability, and easy-to-use APIs. This book deep dives into using Spark to deliver production-grade data science solutions. This process is demonstrated by exploring the construction of a sophisticated global news analysis service that uses Spark to generate continuous geopolitical and current affairs insights. You will learn all about the core Spark APIs and take a comprehensive tour of advanced libraries, including Spark SQL, Spark Streaming, MLlib, and more. You will be introduced to advanced techniques and methods that will help you to construct commercial-grade data products. Focusing on a sequence of tutorials that deliver a working news intelligence service, you will learn about advanced Spark architectures, how to work with geographic data in Spark, and how to tune Spark algorithms so they scale linearly. Style and approach This is an advanced guide for those with beginner-level familiarity with the Spark architecture and working with data science applications. Mastering Spark for Data Science is a practical tutorial that uses core Spark APIs and takes a deep dive into advanced libraries including: Spark SQL, visual streaming, and MLlib. This book expands on titles like: Machine Learning with Spark and Learning Spark. It is the next learning curve for those comfortable with Spark and looking to improve their skills.

PostGIS Essentials-Angel Marquez 2015-04-24 This book is a quick guide for anyone who wants to get started with PostGIS and develop their very own GIS projects quickly.

Web and Wireless Geographical Information Systems-Miguel R. Luaces 2018-06-04 This book constitutes the refereed proceedings of the 16th International Symposium on Web and Wireless Geographical Information Systems, W2GIS 2018, held in A Coruña, Spain, in May 2018. The 15 full papers included in the volume were carefully reviewed and selected from 20 submissions. They deal with theoretical, technical, and practical issues in the field of wireless and Internet technologies suited for the dissemination, usage, and processing of geo-referenced data.

Mastering PostGIS-Dominik Mikiewicz 2017-05-31 Write efficient GIS applications - from data creation to data consumption About This Book Learn how you can use PostGIS for spatial data analysis and manipulation Optimize your queries and build custom functionalities for your GIS application A comprehensive guide with hands-on examples to help you master PostGIS with ease Who This Book Is For If you are a GIS developer or analyst who wants to master PostGIS to build efficient, scalable GIS applications, this book is for you. If you want to conduct advanced analysis of spatial data, this book will also help you. The book assumes that you have a working installation of PostGIS in place, and have working experience with PostgreSQL. What You Will Learn Refresh your knowledge of the PostGIS concepts and spatial databases Solve spatial problems with the use of SQL in real-world scenarios Practical walkthroughs of application development examples using Postgis, GeoServer and OpenLayers. Extract, transform and load your spatial data Expose data directly or through web services. Consume your data in both desktop and web clients In Detail PostGIS is open source extension of PostgreSQL object-relational database system that allows GIS objects to be stored and allows querying for information and location services. The aim of this book is to help you master the functionalities offered by PostGIS- from data creation, analysis and output, to ETL and live edits. The book begins with an overview of the key concepts related to spatial database systems and how it applies to Spatial RMDS. You will learn to load different formats into your Postgres instance, investigate the spatial nature of your raster data, and finally export it using built-in functionalities or 3th party tools for backup or representational purposes. Through the course of this book, you will be presented with many examples on how to interact with the database using JavaScript and Node.js. Sample web-based applications interacting with backend PostGIS will also be presented throughout the book, so you can get comfortable with the modern ways of consuming and modifying your spatial data. Style and approach This book is a comprehensive guide covering all the concepts you need to master PostGIS. Packed with hands-on examples, tips and tricks, even the most advanced concepts are explained in a very easy-to-follow manner. Every chapter in the book does not only focus on how each task is performed, but also why.

GeoServer Beginner's Guide-Brian Youngblood 2013-01-01 Step-by-step instructions are included and the needs of a beginner are totally satisfied by the book. The book consists of plenty of examples with accompanying screenshots and code for an easy learning curve. You are a web developer with knowledge of server side scripting, and have experience with installing applications on the server. You have a desire to want more than Google maps, by offering dynamically built maps on your site with your latest geospatial data stored in MySQL, PostGIS, MsSQL or Oracle. If this is the case, this book is meant for you.

GeoServer Cookbook-Stefano Iacovella 2014-11-27 This book is ideal for GIS experts, developers, and system administrators who have had a first glance at GeoServer and who are eager to explore all its features in order to configure professional map servers. Basic knowledge of GIS and GeoServer is required.

Mastering Dart-Sergey Akopkokhyants 2014-11-20 If you are an application developer who has experience with Dart and want to develop reusable and robust code in Dart, then this book is for you. You are expected to have a basic knowledge of core elements and applications.

Mastering OpenLayers 3-Gabor Farkas 2016-01-29 Create powerful applications with the most robust open source web mapping library using this advanced guide About This Book Develop responsive and platform-independent web mapping applications with OpenLayers 3 Learn the key points of creating great applications with native JavaScript through the step-by-step examples Master the use of the library, from compiling custom builds to developing a complete WebGIS application Who This Book Is For This book is intended for front-end developers with basic understanding of JavaScript and GIS concepts, and preferably for those who are familiar with the fundamentals of OpenLayers 3. You might have never used OpenLayers 3 as a seasoned JavaScript developer. If this is the case and you are eager to learn web mapping, this book will definitely set you on the right track. What You Will Learn Use the advanced functionality of the OpenLayers 3 library effectively Implement the library in your application, shaping it to your needs Manage layers and the layer stack dynamically Create not only stunning but also accurate thematic maps Extend OpenLayers 3 with your own custom classes Develop mobile-friendly web mapping applications Make stunning effects with canvas manipulation, or visualize point clouds with WebGL Integrate third-party applications, and create custom builds that completely satisfy your needs In Detail OpenLayers 3 allows you to create stunning web mapping and WebGIS applications. It uses modern, cutting edge browser technologies. It is written with Closure Library, enabling you to build browser-independent applications without painful debugging ceremonies, which even have some limited fallback options for older browsers. With this guide, you will be introduced to the world of advanced web mapping and WebGIS. First, you will be taken through the key points of creating custom applications with OpenLayers 3. You will then learn how to create the web mapping application of yours (or your company's) dream with this open source, expense-free, yet very powerful library. We'll also show you how to make amazing looking thematic maps and create great effects with canvas manipulation. By the end of this book, you will have a strong command of web mapping and will be well on your way to creating amazing applications using OpenLayers 3. Style and approach This is an advanced guide packed with comprehensive examples, and it concentrates on the advanced parts of OpenLayers 3 and JavaScript. It intentionally skips the basic and well-known methodologies, but discusses the hard-to-understand ones in great detail.

GeoServer Beginner's Guide - Second Edition-Stefano Iacovella 2017-10-16 This step-by-step guide will teach you how to use GeoServer to build custom and interactive maps using your data. About This Book* Exploit the power of GeoServer to provide agile, flexible, and low -cost community projects* Share real-time maps quickly* Boost your map server's performance using the power and flexibility of GeoServer Who This Book Is For If you are a web developer with knowledge of server side scripting, have experience in installing applications on the server, and want to go beyond Google Maps by offering dynamically built maps on your site with your latest geospatial data stored in MySQL, PostGIS, MySQL, or Oracle, this is the book for you. What You Will Learn* Install GeoServer quickly* Access dynamic real-time geospatial data that you can easily integrate into your own web-based application* Create custom styles for lines, points, and polygons for great-looking maps* Command GeoServer remotely using REST* Tune your GeoServer instance for performance* Move GeoServer into production* Learn advanced topics to extend GeoServer's capabilities In Detail GeoServer is an opensource server written in Java that allows users to share, process, and edit geospatial data. This book will guide you through the new features and improvements of GeoServer and will help you get started with it. GeoServer Beginner's Guide gives you the impetus to build custom maps using your data without the need for costly commercial software licenses and restrictions. Even if you do not have prior GIS knowledge, you will be able to make interactive maps after reading this book. You will install GeoServer, access your data from a database, and apply style points, lines, polygons, and labels to impress site visitors with real-time maps. Then you follow a step-by-step guide that installs GeoServer in minutes. You will explore the web-based administrative interface to connect to backend data stores such as PostGIS, and Oracle. Going ahead, you can display your data on web-based interactive maps, use style lines, points, polygons, and embed images to visualize this data for your web visitors. You will walk away from this book with a working application ready for production. After reading GeoServer Beginner's Guide, you will be able to build beautiful custom maps on your website using your geospatial data. Style and approach Step-by-step instructions are included and the needs of a beginner are totally satisfied by the book. The book consists of plenty of examples with accompanying screenshots and code for an easy learning curve.

Mapbox Cookbook-Bill Kastanakis 2016-03-22 Over 35 recipes to design and implement uniquely styled maps using the Mapbox platform About This Book Design and develop beautifully styled maps using TileMill, MapBox Studio, and CartoCSS Get to grips with the mapbox.js and Leaflet to create visually stunning web and mobile applications An easy-to-follow, quick reference guide to integrate powerful APIs and services like Foursquare, Fusion Tables, Geoserver, and CartoDB to populate your maps Who This Book Is For If you are a web developer seeking for GIS expertise on how to create, style, and publish interactive and unique styled maps, then this book is for you. Basic knowledge of programming and javascripts is assumed. What You Will Learn Get accustomed to the MapBox Editor to visually style your maps Learn everything about CartoCSS, and how it will help you fine tune your styled maps Use MapBox Studio and Tilemill to generate your own tiles and vector maps Publish your maps using a variety of technologies like node.js, PHP, and Geoserver Integrate with third party APIs and services to populate your maps with public or private data Create many different map visualization styles like choropleth and heat maps, add interactivity, and even learn how to animate data over time Work with many different data formats and external services to create robust maps Learn to use MapBox GL to create a mobile application In Detail Maps are an essential element in today's location aware applications. Right from displaying earth surface information to creating thematic maps displaying plethora of information, most of the developers lack the necessary knowledge to create customizable maps with combination of various tools and libraries. The MapBox platform is one such platform which offers all the tools and API required to create and publish a totally customizable map. Starting with building your first map with the online MapBox Editor, we will take you all the way to building advanced web and mobile applications with totally customizable map styles. Through the course of chapters we'll learn CartoCSS styling language and understand the various components of MapBox platform and their corresponding JavaScript API. In the initial few chapters we will dive deeper into the TileMill and MapBox Studio components of MapBox and use them to generate custom styled map tiles and vector maps. Furthermore, we will publish these custom maps using PHP, node.js and third party tools like Geoserver. We'll also learn to create different visualizations and map styles like a choropleth map, a heat map and add user interactivity using a UFTGrid. Moving on, we dive into advanced concepts and focus on integration with third party services like Foursquare, Google FusionTables, CartoDB, and Torque to help you populate and even animate your maps. In the final chapter we'll learn to use the Mapbox SDK to create and publish interactive maps for the iOS platform. By the end of this book, you will learn about MapBox GL and how to create a fully functional, location-aware mobile app, using the maps styles created in the recipes. Style and approach As with most technology driven book that will not just serve code samples, but also explains all the theory and concepts required to fully understand each recipe.

Expert GeoServer-Ben Mearns 2018-07-31 A fast-paced guide to putting your GeoServer-based application into fast, user-friendly, and secure production Key Features Resolve bottlenecks, optimize data stores, and cluster server resources Use identity management and authentication for a user-specific, secure web application Go beyond traditional web hosting to explore the full range of hosting options in the cloud Book Description GeoServer is open source, server-side software written in Java that allows users to share and edit geospatial data. In this book, you'll start by learning how to develop a spatial analysis platform with web processing services. Then you'll learn how to develop an algorithm by chaining together geospatial analysis processes, which you can share with anyone in the world. Next you'll delve into a very important technique to improve the speed of your map application—tile caching. Here, you'll understand how tile caching works, how to develop an effective tile cache-supported web service, and how to leverage tile caching in your OpenLayers web application. Further on, you'll explore important tweaks to produce a performant GeoServer-backed web mapping application. Moving on, you'll enable authentication on the frontend and backend to protect sensitive map data, and deliver sensitive data to your end user. Finally, you'll see how to put your web application into production in a secure and user-friendly way. You'll go beyond traditional web hosting to explore the full range of hosting options in the cloud, then set up a monitoring system to pinpoint problems. By the end of this book, you'll be equipped with the knowledge required for the successful management of a GeoServer-based application. What You Will Learn Develop a spatial analysis platform with web processing services Develop an algorithm by chaining geospatial analysis processes together Put your application into production in a secure and user-friendly way You'll go beyond traditional web hosting to explore the full range of hosting options in the cloud, then set up a monitoring system to pinpoint problems. By the end of this book, you'll be equipped with the knowledge required for the successful management of a GeoServer-based application. Next you'll delve into a very important technique to improve the speed of your map application—tile caching, raster data optimization, and server clustering Find out when Develop an algorithm by chaining geospatial analysis processes together Put your application into production with hosting, monitoring, and automated backup and recovery Understand how to develop an effective tile cache-supported web service Master techniques that ensure resilient server deployment Who this book is for This book is for anyone who wants to learn about advanced interfaces, security, and troubleshooting techniques in GeoServer. A basic understanding of GeoServer is required

OpenLayers Cookbook-Antonio Santiago Perez 2012-08-24 Over 60 recipes to create GIS web applications with the open source GIS library.

Google Maps API Cookbook-Alper Dincer 2013-12 Google Maps API Cookbook follows a fast-paced, high-level, structured cookbook approach, with minimal theory and an abundance of practical, real-world examples explained in a thorough yet concise manner to help you learn quickly and efficiently. Google Maps API Cookbook is for developers who wish to learn how to do anything from adding a simple embedded map to a website to developing complex GIS applications with the Google Maps JavaScript API. It is targeted at JavaScript developers who know how to get by but who are also seeking the immediacy of recipe-based advice.

Practical GIS-Gabor Farkas 2017-06-13 Learn the basics of Geographic Information Systems by solving real-world problems with powerful open source tools About This Book This easy-to-follow guide allows you to manage and analyze geographic data with ease using open source tools Publish your geographical data online Learn the basics of geoinformatics in a practical way by solving problems Who This Book Is For IT professionals who have little or no knowledge of GIS. It's also useful for those who are new to the GIS field who don't want to spend a lot of money buying licenses of commercial tools and training. What You Will Learn Collect GIS data for your needs Store the data in a PostGIS database Exploit the data using the power of the GIS queries Analyze the data with basic and more advanced GIS tools Publish your data and share it with others Build a web map with your published data In Detail The most commonly used GIS tools automate tasks that were historically done manually—compiling new maps by overlaying one on top of the other or physically cutting maps into pieces representing specific study areas, changing their projection, and getting meaningful results from the various layers by applying mathematical functions and operations. This book is an easy-to-follow guide to use the most matured open source GIS tools for these purposes. We'll start by setting up the environment for the tools we use in the book. Then you will learn how to work with QGIS in order to generate useful spatial data. You will get to know the basics of queries, data management, and geoprocessing. After that, you will start to practice your knowledge on real-world examples. We will solve various types of geospatial analyses with various methods. We will start with basic GIS problems by imitating the work of an enthusiastic real estate agent, and continue with more advanced, but typical tasks by solving a decision problem. Finally, you will find out how to publish your data (and results) on the web. We will publish our data with QGIS Server and GeoServer, and create a basic web map with the API of the lightweight Leaflet web mapping library. Style and approach The book guides you step by step through each of the core concepts of the GIS toolkit, building an overall picture of its capabilities. This guide approaches the topic systematically, allowing you to build upon what you learned in previous chapters. By the end of this book, you'll have an understanding of the aspects of building a GIS system and will be able to take that knowledge with you to whatever project calls for it.

PostGIS Cookbook-Paolo Corti 2014-02-07 An easy-to-use guide, full of hands-on recipes for manipulating spatial data in a PostGIS database. Each topic is explained and placed in context, and for the more inquisitive, there are more details of the concepts used. If you are a web developer or a software architect, especially in location-based companies, and want to expand the range of techniques you are using with PostGIS, then this book is for you. You should have some prior experience with PostgreSQL database and spatial concepts.

QGIS By Example-Alexander Bruy 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.

PostGIS in Action-Regina Obe 2011 "PostGIS in Action" is the first book devoted entirely to PostGIS. It will help both new and experienced users write spatial queries to solve real-world problems. It also discusses the new features available in PostgreSQL 8.4 and provides tutorials.

GIS for Web Developers-Scott Davis 2007 A guide to geographic information systems describes how to find GIS data on the Web, manipulate GIS data, store and retrieve data in geographically-enabled databases, and publish Web services using OGC interfaces.

Mastering Perl/Tk-Stephen Lidie 2002-01-07 Covers basic and advanced applications of Perl/Tk, discussing topics including basic Perl/Tk widgets and geometry managers, how to use callbacks and bindings effectively, working with images, and developing a Tk widget in C.

Elastix Unified Communications Server Cookbook-Gerardo Barajas Puente 2015-03-31 This book is aimed at those who want to learn how to set up an Elastix Unified Communications Server without losing ground on Unified Communications and Voice over IP.

Python Geospatial Analysis Cookbook-Michael Diener 2015-11-30 Over 60 recipes to work with topology, overlays, indoor routing, and web application analysis with Python About This Book Explore the practical process of using geospatial analysis to solve simple to complex problems with reusable recipes Concise step-by-step instructions to teach you about projections, vector, raster, overlay, indoor routing and topology analysis Create a basic indoor routing application with geodjango Who This Book Is For If you are a student, teacher, programmer, geospatial or IT administrator, GIS analyst, researcher, or scientist looking to do spatial analysis, then this book is for you. Anyone trying to answer simple to complex spatial analysis questions will get a working demonstration of the power of Python with real-world data. Some of you may be beginners with GIS, but most of you will probably have a basic level with Python Discover the projection and coordinate system information of your data and learn how to transform that data into different projections Import or export your data into different data formats to prepare it for your application or spatial analysis Use the power of PostGIS with Python to take advantage of the powerful analysis functions Execute spatial analysis functions on vector data including clipping, spatial joins, measuring distances, areas, and combining data to new results Create your own set of topology rules to perform and ensure quality assurance rules in Python Find the shortest indoor path with network analysis functions Visualize your data on a map using the visualization tools and methods available to create visually stunning results Build an indoor routing web application with GeoDjango to include your spatial analysis tools built from the Earth's surface' iris analysis is used in almost every industry to answer location type questions. Combined with the power of the Python programming language, which is becoming the de facto spatial scripting choice for developers and analysts worldwide, this technology will help you to solve real-world spatial problems. This book begins by tackling the installation of the necessary software dependencies and libraries needed to perform spatial analysis with Python. From there, the next logical step is to prepare our data for analysis; we will do this by building up our tool box to deal with data preparation, transformations, and projections. Now that our data is ready for analysis, we will tackle the most common analysis methods for vector and raster data. To check or validate our results, we will explore how to use topology checks to ensure top-quality results. This is followed with network routing analysis focused on constructing indoor routes within buildings, over different levels. Finally, we put several recipes together in a GeoDjango web application that demonstrates a working indoor routing spatial application. The round trip will provide you all the pieces you need to accomplish your own spatial analysis application to suit your requirements. Style and approach Easy-to-follow, step-by-step recipes, explaining from start to finish how to accomplish real-world tasks.

Information Technologies in the Research of Biodiversity-Igor Bychkov 2019-03-13 This book offers a collection of papers presented at the First International Conference" Information Technologies in the Research of Biodiversity" that was held from 11-14 September 2018 in Irkutsk (Russia). Papers in this book cover areas of interaction of knowledge on biodiversity and information technologies. The main topics include: methods, models, software systems for the analysis of biodiversity data; global data policy; analytical and analysis systems on biodiversity; application of remote methods in vegetation mapping; theoretical fundaments and organization technologies of the information and telecommunications infrastructures.

Data and Mobility-Julia Düh 2010-09-08 Over the last few years, the local value of mobility and information in our society has grown tremendously. As the importance of Information and Communication Te- nologies (ICT) increases, we expect more changes in future mobility behavior. This includes not only mobility behavior for the single user, but also for the transportation of goods and infrastructure operators. It will also affect the regulation of resources and political decision-making. Both, data and mobility become more connected. To cope effectively with the anticipated changes, we must expand our focus and take current developments in both areas into account. The topic of the Lakeside Conference 2010, Data and Mobility – Transforming Information into Intelligent Traffic and Transportation Services, was chosen to underline the importance of information and mobility in transport and to offer an opportunity to discuss and question current activities in this sector. We will consider intermodal concepts and deployments in particular, where data transfer plays a major role, as this could help to reduce the current lack of infrastructure capacity (especially on roads and at airports and seaports). Using modern technologies, traffic mana- ment could become more sustainable and efficient. The Lakeside Conference is, again, organized by a consortium composed of the Lakeside Technology Park, the Austrian Transport Telematic Cluster, AustriaTech and the American Embassy in Austria.

Mastering QGIS-Kurt Menke, 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 geographic analysis Add maps to a print layout 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 Arcs 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 QGIS GIS data, from creating custom symbols and color ramps to using blending modes. In the next section, you will 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.

Excel Scientific and Engineering Cookbook-David M Bourg 2006-01-17 Given the improved analytical capabilities of Excel, scientists and engineers everywhere are using it—instead of FORTRAN—to solve problems. And why not? Excel is installed on millions of computers, features a rich set of built-in analyses tools, and includes an integrated Visual Basic for Applications (VBA) programming language. No wonder it's today's computing tool of choice. Chances are you already use Excel to perform some fairly routine calculations. Now the Excel Scientific and Engineering Cookbook shows you how to leverage Excel to perform more complex calculations, too, calculations that once fell in the domain of specialized tools. It does so by putting a smorgasbord of data analysis techniques right at your fingertips. The book shows how to perform these useful tasks and others: Use Excel and VBA in general Import data from a variety of sources Analyze data Perform calculations Visualize the results for interpretation and presentation Use Excel to solve specific science and engineering problems Wherever possible, the Excel Scientific and Engineering Cookbook draws on real-world examples from a range of scientific disciplines such as biology, chemistry, and physics. This way, you'll be better prepared to solve the problems you face in your everyday scientific or engineering tasks. High on practicality and low on theory, this quick, look-up reference provides instant solutions, or "recipes," to problems both basic and advanced. And like other books in O'Reilly's popular Cookbook format, each recipe also includes a discussion on how and why it works. As a result, you can take comfort in knowing that complete, practical answers are a mere page-flip away.

Cloud Computing in Remote Sensing-Lizhe Wang 2019-07-11 This book provides the users with quick and easy data acquisition, processing, storage and product generation services. It describes the entire life cycle of remote sensing data and builds an entire high performance remote sensing data processing system framework. It also develops a series of remote sensing data management and processing standards. Features: Covers remote sensing cloud computing Covers remote sensing data integration across distributed data centers Covers cloud storage based remote sensing data share service Covers high performance remote sensing data processing Covers distributed remote sensing products analysis

Web Mapping Illustrated-Tyler Mitchell 2005 Provides information on how to create custom maps from tools available over the Internet.

Mastering Python-Rick van Hattem 2016-04-29 Master the art of writing beautiful and powerful Python by using all of the features that Python 3.5 offers About This Book Become familiar with the most important and advanced parts of the Python code style Learn the trickier aspects of Python and put it in a structured context for deeper understanding of the language Offers an expert's-eye overview of how these advanced tasks fit together in Python as a whole along with practical examples Who This Book Is For Almost anyone can learn to write working script and create high quality code but they might lack a structured understanding of what it means to be 'Pythonic'. If you are a Python programmer who wants to code efficiently by getting the syntax and usage of a few intricate Python techniques exactly right, this book is for you. What You Will Learn Create a virtualenv and start a new project Understand how and when to use the functional programming paradigm Get familiar with the different ways the decorators can be written in Understand the power of generators and coroutines without digressing into lambda calculus Create metaclasses and how it makes working with Python far easier Generate HTML documentation out of documents and code using Sphinx Learn how to track and optimize application performance, both memory and cpu Use the multiprocessing library, not just locally but also across multiple machines Get a basic understanding of packaging and creating your own index/applications In Detail Python is a dynamic programming language. It is known for its high readability and hence it is often the first language learned by new programmers. Python being multi-paradigm, it can be used to achieve the same thing in different ways and it is compatible across different platforms. Even if you find writing Python code easy, writing code that is efficient, easy to maintain, and reuse is not so straightforward. This book is an authoritative guide that will help you learn new advanced methods in a clear and contextualised way. It starts off by creating a project-specific environment using venv, introducing you to different Pythonic syntax and common pitfalls before moving on to cover the functional features in Python. It covers how to create different decorators, generators, and metaclasses. It also introduces you to functools.wraps and coroutines and how they work. Later on you will learn to use asyncio module for asynchronous clients and servers. You will also get familiar with different testing systems such as py.test, doctest, and unittest, and debugging tools such as Python debugger and faulthandler. You will learn to optimize application performance so that it works efficiently across multiple machines and Python versions. Finally, it will teach you how to access C functions with a simple Python call. By the end of the book, you will be able to write more advanced scripts and take on bigger challenges. Style and Approach This book is a comprehensive guide that covers advanced features of the Python language, and communicate them with an authoritative understanding of the underlying rationale for how, when, and why to use them.

Python Geospatial Development-Erik Westra 2013 This is a tutorial style book that will teach usage of Python for GIS using simple practical examples and then show you how to build a complete mapping application from scratch. The book assumes basic knowledge of Python. No knowledge of Open Source GIS is required. Experienced Python developers who want to learn about geospatial concepts, work with geospatial data, solve spatial problems, and build map-based applications. This book will be useful those who want to get up to speed with Open Source GIS in order to build GIS applications or integrate Geo-Spatial features into their existing applications.

Learning QGIS - Second Edition-Anita Graser 2014-12-05 This book is great for users, developers, and consultants who know the basic functions and processes of GIS but 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.

OpenLayers 3 : Beginner's Guide-Thomas Gratier 2015-01-28 Whether you are a hobbyist or a professional web developer, if you wish to make maps, then this book is for you. A basic understanding of JavaScript will be helpful, but is not necessary. If you've never worked with maps before, this book will introduce you to some common mapping topics and will guide you through the OpenLayers library. Experienced developers can also use this book as a reference to OpenLayers 3 components and to further enhance their knowledge.

Building Mapping Applications with QGIS-Erik Westra 2014-12-30 If you are an experienced Python developer who wants to create your own geospatial applications with minimum fuss, this is the book for you. While some familiarity with mapping applications would be an advantage, no prior knowledge of geospatial concepts is required. Even if you've never used QGIS before, this book will quickly get you up to speed.

Practical JSF in Java EE 8-Michael Müller 2018-05-29 Master the Java EE 8 and JSF (JavaServer Faces) APIs and web framework with this practical, projects-driven guide to web development. This book combines theoretical background with a practical approach by building four real-world applications. By developing these JSF web applications, you'll take a tour through the other Java EE technologies such as JPA, CDI, Security, WebSockets, and more. In Practical JSF in Java EE 8, you will learn to use the JavaServer Faces web framework in Java EE 8 to easily construct a web-based user interface from a set of reusable components. Next, you add JSF event handling and then link to a database, persist data, and add security and the other bells and whistles that the Java EE 8 platform has to offer. After reading this book you will have a good foundation in Java-based web development and will have increased your proficiency in sophisticated Java EE 8 web development.

JSF framework. What You Will Learn Use the Java EE 8 and the JavaServer Faces APIs to build Java-based web applications through four practical real-world case studies Process user input with JSF and the expression language by building a calculator application Persist data using JSF templating and Java Persistence to manage an inventory of books Create and manage an alumni database using JSF, Ajax, web services and Java EE 8's security features. Who This Book Is For Those new to Java EE 8 and JSF. Some prior experience with Java is recommended.

Mastering jQuery Mobile-Chip Lambert 2015-07-30 jQuery Mobile is a touch-optimized JavaScript framework. Using this framework, we can create mobile web applications using standard web technologies such as HTML5, CSS3, and JavaScript which will function and behave consistently across multiple devices of different form factors. The book starts with you setting up the development environment that will enable you to complete the project that accompanies the book. Furthermore, you will get a brief overview of developing for mobile devices and a brief look at RESS. You will then start putting together a touch-based navigation system as you link pages together and explore the various widgets and controls used to build the project. Finally, some mobile best practices that will benefit you will be looked at as you go deeper into jQuery Mobile development. By the end of the book, you will be well equipped with an extensive knowledge of jQuery Mobile, not only to build applications, but to effectively customize and maintain them.

SharePoint 2013 WCM Advanced Cookbook-John Chapman 2014-01-23 You will be led carefully step-by-step through a detailed set of recipes. This book focuses on web content management using Microsoft SharePoint 2013 server. The practical examples are built logically throughout the chapters to create a common theme. This book is ideal for developers who want to broaden their understanding of the web content management features available with SharePoint 2013. It is assumed that you already have some experience using SharePoint and developing web content. Experience with Microsoft PowerShell and coding C# with Visual Studio will also be helpful, but is not essential.

Point & Click Openoffice.org!-Robin Miller 2006 Tired of expensive Office upgrades? Discover the freedom and familiarity of OpenOffice.org 2.0 in this fun, friendly, illustrated package.

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

Learning Geospatial Analysis with Python-Joel Lawhead 2013-10-25 This is a tutorial-style book that helps you to perform Geospatial and GIS analysis with Python and its tools/libraries. This book will first introduce various Python-related tools/packages in the initial chapters before moving towards practical usage, examples, and implementation in specialized kinds of Geospatial data analysis.This book is for anyone who wants to understand digital mapping and analysis and who uses Python or another scripting language for automation or crunching data manually.This book primarily targets Python developers, researchers, and analysts who want to perform Geospatial, modeling, and GIS analysis with Python.

Right here, we have countless book **mastering geoserver** and collections to check out. We additionally come up with the money for variant types and furthermore type of the books to browse. The gratifying book, fiction, history, novel, scientific research, as skillfully as various other sorts of books are readily approachable here.

As this mastering geoserver, it ends happening brute one of the favored ebook mastering geoserver collections that we have. This is why you remain in the best website to look the amazing books to have.