

Mastering Arcgis Server Development With Javascript

Design, develop, and master efficient Power BI solutions for impactful business insights

Key FeaturesGet to grips with the fundamentals of Microsoft Power BI Combine data from multiple sources, create visuals, and publish reports across platformsUnderstand Power BI concepts with real-world use casesBook Description Microsoft Power BI Complete Reference Guide gets you started with business intelligence by showing you how to install the Power BI toolset, design effective data models, and build basic dashboards and visualizations that make your data come to life. In this Learning Path, you will learn to create powerful interactive reports by visualizing your data and learn visualization styles, tips and tricks to bring your data to life. You will be able to administer your organization's Power BI environment to create and share dashboards. You will also be able to streamline deployment by implementing security and regular data refreshes. Next, you will delve deeper into the nuances of Power BI and handling projects. You will get acquainted with planning a Power BI project, development, and distribution of content, and deployment. You will learn to connect and extract data from various sources to create robust datasets, reports, and dashboards. Additionally, you will learn how to format reports and apply custom visuals, animation and analytics to further refine your data. By the end of this Learning Path, you will learn to implement the various Power BI tools such as on-premises gateway together along with staging and securely distributing content via apps. This Learning Path includes content from the following Packt products:

Microsoft Power BI Quick Start Guide by Devin Knight et al. Mastering Microsoft Power BI by Brett PowellWhat you will learnConnect to data sources using both import and DirectQuery optionsLeverage built-in and custom visuals to design effective reportsAdminister a Power BI cloud tenant for your organizationDeploy your Power BI Desktop files into the Power BI Report ServerBuild efficient data retrieval and transformation processesWho this book is for Microsoft Power BI Complete Reference Guide is for those who want to learn and use the Power BI features to extract maximum information and make intelligent decisions that boost their business. If you have a basic

understanding of BI concepts and want to learn how to apply them using Microsoft Power BI, then Learning Path is for you. It consists of real-world examples on Power BI and goes deep into the technical issues, covers additional protocols, and much more. Go beyond the basics and unleash the full power of QGIS 3.4 and 3.6 with practical, step-by-step examples Key Features One-stop solution to all of your GIS needs Master QGIS by learning about database integration, and geoprocessing tools Learn 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 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 LAs tools 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 plugins 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.

If you are a GIS user or a web programmer, this book is for you. This book is also intended for all those who have basic web development knowledge with no prior experience of ArcGIS and are keen on venturing into the world of ArcGIS technology. The book will equip you with the skills to comfortably start your own ArcGIS web development project. Explore GIS processing and learn to work with various tools and libraries in Python. Key Features Analyze and process geospatial data using Python libraries such as; Anaconda, GeoPandas Leverage new ArcGIS API to process geospatial data for the cloud. Explore various Python geospatial web and machine learning frameworks. Book Description Python comes with a host of open source libraries and tools that help you work on professional geoprocessing tasks without investing in expensive tools. This book will introduce Python developers, both new and experienced, to a variety of new code libraries that have been developed to perform geospatial analysis, statistical analysis, and data management. This book will use examples and code snippets that will help explain how Python 3 differs from Python 2, and how these new code libraries can be used to solve age-old problems in geospatial analysis. You will begin by understanding what geoprocessing is and explore the tools and libraries that Python 3 offers. You will then learn to use Python code libraries to read and write geospatial data. You will then learn to perform geospatial queries within databases and learn PyQGIS to automate analysis within the QGIS mapping suite. Moving forward, you will explore the newly released ArcGIS API for Python and ArcGIS Online to perform geospatial analysis and create ArcGIS Online web maps. Further, you will deep dive into Python Geospatial web frameworks and learn to create a geospatial REST API. What you will learn Manage code libraries and abstract geospatial analysis techniques using Python 3. Explore popular code libraries that perform specific tasks for geospatial analysis. Utilize code libraries for data conversion, data management, web maps, and REST API creation. Learn techniques related to processing geospatial data in the cloud. Leverage features of Python 3 with geospatial databases such as PostGIS, SQL Server, and SpatiaLite. Who this book is for The audience for this book includes students, developers, and geospatial professionals who need a reference book that covers

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GIS data management, analysis, and automation techniques with code libraries built in Python 3.

Learn how to build native, cross-platform mapping apps with this comprehensive and practical guide, using the MVVM pattern About This Book Enhance the user experience with the power of ArcGIS runtime SDK for .NET. This clear, well segregated book has all the information you need on ArcGIS Runtime SDK. Just name it—this book has it! This highly practical book empowers you to build your own custom application! Get to know the inner details of ArcGIS Runtime SDK from our experts, in this book written by Ron Vincent, with 24 years' experience in the GIS industry and many in GIS training. Who This Book Is For This book caters to long-term users of Esri's technologies that are new to mobile development or are transitioning from older Esri technologies such as ArcGIS Engine. It is also for users who are unfamiliar with Esri or GIS and are in need of a mapping solution for either their desktop or a mobile platform, or both. The book requires knowledge of .NET. What You Will Learn Understand and implement the MVVM pattern using MVVM Light Create and add layers from offline and online resources such as ArcGIS Online or ArcGIS for Server Create a 2D or 3D map and decide what kind of symbology to use Symbolize the layers based on the geometry Search and find objects in the layers Geocode an address and create a route using an address Edit layer objects from online content and offline content Test the application using test-driven development and then build and release the application for the intended audience In Detail ArcGIS is a geographic information system (GIS) that enables you to work with maps and geographic information. It can be used to create and utilize maps, compile geographic data, analyze mapped information, share and discover geographic information and manage geographic information in a database. This book starts by showing you where ArcGIS Runtime fits within Esri's overall platform strategy. You'll create an initial map using the SDK, then use it to get an understanding of the MVVM model. You'll find out about the different kinds of layers and start adding layers, and you'll learn to transform maps into a 3D scene. The next chapters will help you comprehend and extract information contained in the maps using co-ordinates and layer objects. Towards the end, you will learn to set the symbology, decide

whether to use 2D or 3D, see how to implement 2D or 3D, and learn to search and find objects. You'll also get to grips with many other standard features of the Application Programming Interface (API), including create applications and finally testing, licensing, and deploying them. Once completed, you will be able to meet most of the common requirements of any mapping application for desktop or mobile platforms. Style and approach This comprehensive book takes a completely practical approach, where every chapter explains the important concepts and demonstrates a practical application of them in a hands-on manner.

Mastering PostGIS

Programming ArcGIS 10.1 with Python Cookbook

Build exciting custom web and mobile GIS applications with the ArcGIS Server API for JavaScript

Exploring and Visualizing US Census Data with R

Mastering the Game

ArcPy and ArcGIS

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless

frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

If you are a GIS student or professional who needs an understanding of how to use ArcPy to reduce repetitive tasks and perform analysis faster, this book is for you. It is also a valuable book for Python programmers who want to understand how to automate geospatial analyses.

Pattern Analysis and cluster mapping made easy About This Book Analyze patterns, clusters, and spatial relationships using ArcGIS tools Get up to speed in R programming to create custom tools for analysis Sift through tons of crime and real estate data and analyze it using the tools built in the book Who This Book Is For This book is for ArcGIS developers who want to perform complex geographic analysis through the use of spatial statistics tools including ArcGIS and R. No knowledge of R is assumed. What You Will Learn Get to know how to measure geographic distributions Perform clustering analysis including hot spot and outlier analysis Conduct data conversion tasks using the Utilities toolset Understand how to use the tools provided by the Mapping Clusters toolset in the Spatial Statistics Toolbox Get to grips with the basics of R for performing spatial statistical programming Create custom ArcGIS tools with R and ArcGIS Bridge Understand the application of Spatial Statistics tools and the R programming language through case studies In Detail Spatial statistics has the potential to provide insight that is not otherwise available through traditional GIS tools. This book is designed to introduce you to the use of spatial statistics so you can solve complex geographic analysis. The book begins by introducing you to the many spatial statistics tools available in ArcGIS. You will learn how to analyze patterns, map clusters, and model spatial relationships with these tools. Further on, you will explore how to extend the spatial statistics tools currently available in ArcGIS, and use the R programming language to create custom tools in ArcGIS through the ArcGIS Bridge using real-world examples. At the end of the book, you will be presented with two exciting case studies where you will be able to practically apply all your learning to analyze and gain insights into real estate data. Style and approach Filled with live examples that you can code along with, this book will show you different methods and techniques to effectively analyze spatial data with ArcGIS and the R language. The exciting case studies at the end will help you immediately put your learning to practice.

Design, create and manage robust Power BI solutions to gain meaningful business insights Key Features Master all the dashboarding and reporting features of Microsoft Power BI Combine data from multiple

sources, create stunning visualizations and publish your reports across multiple platforms A comprehensive guide with real-world use cases and examples demonstrating how you can get the best out of Microsoft Power BI Book Description This book is intended for business intelligence professionals responsible for the design and development of Power BI content as well as managers, architects and administrators who oversee Power BI projects and deployments. The chapters flow from the planning of a Power BI project through the development and distribution of content to the administration of Power BI for an organization. BI developers will learn how to create sustainable and impactful Power BI datasets, reports, and dashboards. This includes connecting to data sources, shaping and enhancing source data, and developing an analytical data model. Additionally, top report and dashboard design practices are described using features such as Bookmarks and the Power KPI visual. BI managers will learn how Power BI's tools work together such as with the On-premises data gateway and how content can be staged and securely distributed via Apps. Additionally, both the Power BI Report Server and Power BI Premium are reviewed. By the end of this book, you will be confident in creating effective charts, tables, reports or dashboards for any kind of data using the tools and techniques in Microsoft PowerBI. What you will learn Build efficient data retrieval and transformation processes with the Power Query M Language Design scalable, user-friendly DirectQuery and Import Data Models Develop visually rich, immersive, and interactive reports and dashboards Maintain version control and stage deployments across development, test, and production environments Manage and monitor the Power BI Service and the On-premises data gateway Develop a fully on-premise solution with the Power BI Report Server Scale up a Power BI solution via Power BI Premium capacity and migration to Azure Analysis Services or SQL Server Analysis Services Who this book is for Business Intelligence professionals and existing Power BI users looking to master Power BI for all their data visualization and dashboarding needs will find this book to be useful. While understanding of the basic BI concepts is required, some exposure to Microsoft Power BI will be helpful.

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.

An in-depth guide to becoming proficient in spatial data analysis using QGIS 3.4 and 3.6 with Python, 3rd Edition

A Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility Managers

Learning ArcGIS Geodatabases

Python for ArcGIS Pro

Bring your data to life with the powerful features of Microsoft Power BI

Learning QGIS

This book navigates the numerous American and Canadian cartographic resources available in print, and online, offering information on how to locate and access the large variety of resources. Cartographic materials are highlighted and summarized, along with lists of map libraries and geospatial centers, and related professional associations.

*Describes an agile process that works on large projects *Ideal for hurried developers who want to develop software in teams *Incorporates real-life C#/.NET web project; can compare this with cases in book

Create, analyze, maintain, and share 2D and 3D maps with the powerful tools of ArcGIS Pro About This Book • Visualize GIS data in 2D and 3D maps • Create GIS projects for quick and easy access to data, maps, and analysis tools • A practical guide that helps to import maps, globes, and scenes from ArcMap, ArcScene, or ArcGlobe Who This Book Is For This book is for anyone wishing to learn how ArcGIS Pro can be used to create maps and perform geospatial analysis. It will be especially helpful for those that have used ArcMap and ArcCatalog in the past and are looking to migrate to Esri's newest desktop GIS solution. Though previous GIS experience is not required, you must have a solid foundation using Microsoft Windows. It is also helpful if you understand how to manage folders and files within the Microsoft Windows environment. What You Will Learn • Install ArcGIS Pro and assign Licenses to users in your organization • Navigate and use the ArcGIS Pro ribbon interface to create maps and perform analysis • Create and manage ArcGIS Pro GIS Projects • Create 2D and 3D maps to visualize and analyze data • Author map layouts using cartographic tools and best practices to show off the results of your analysis and maps • Import existing map documents, scenes, and globes into your new ArcGIS Pro projects quickly • Create

standardized workflows using Tasks. Automate analysis and processes using ModelBuilder and Python. In Detail ArcGIS Pro is Esri's newest desktop GIS application with powerful tools for visualizing, maintaining, and analyzing data. ArcGIS Pro makes use of the modern ribbon interface and 64-bit processing to increase the speed and efficiency of using GIS. It allows users to create amazing maps in both 2D and 3D quickly and easily. This book will take you from software installation to performing geospatial analysis. It is packed with how-to's for a host of commonly-performed tasks. You will start by learning how to download and install the software including hardware limitations and recommendations. Then you are exposed to the new Ribbon interface and how its smart design can make finding tools easier. After you are exposed to the new interface, you are walked through the steps to create a new GIS Project to provide quick access to project resources. With a project created, you will learn how to construct 2D and 3D maps including how to add layers, adjust symbology, and control labeling. Next you will learn how to access and use analysis tools to help you answer real-world questions. Lastly, you will learn how processes can be automated and standardized in ArcGIS Pro using Tasks, Models, and Python Scripts. This book will provide an invaluable resource for all those seeking to use ArcGIS Pro as their primary GIS application or for those looking to migrate from ArcMap and ArcCatalog. Style and approach This book includes detailed explanations of the GIS functionality and workflows in ArcGIS Pro. These are supported by easy-to-follow exercises that will help you gain an understanding of how to use ArcGIS Pro to perform a range of tasks.

JSON (JavaScript Object Notation) is a lightweight text-based data interchange format used to create objects to transfer data over the Internet. It's widely used today by common web applications, as well as mobile applications. This book gives you clear ways that you can exchange objects using JSON, regardless of whether you're developing a web or traditional networked application. You'll start with a brief refresher on JSON and JavaScript syntax and read and write on the client and server. Then, you'll learn how to use JSON in simple AJAX applications using AngularJS and jQuery. Next, you will learn how to exchange objects with databases using MongoDB and CouchDB. You'll also explore how to use JSON in a type-safe manner, writing programs that have fewer bugs.

Extend your ArcGIS expertise by unlocking the world of Python programming. A fully hands-on guide that takes you through exercise after exercise using real data and real problems. Key Features: Learn the core components of the two Python modules for ArcGIS: ArcPy and ArcGIS API

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for Python Use ArcPy, pandas, NumPy, and ArcGIS in ArcGIS Pro Notebooks to manage and analyze geospatial data at scale Integrate with ArcGIS Online using Python to publish and manage data

Book Description: Integrating Python into your day-to-day ArcGIS work is highly recommended when dealing with large amounts of geospatial data. Python for ArcGIS Pro aims to help you get your work done faster, with greater repeatability and higher confidence in your results. Starting from programming basics and building in complexity, two experienced ArcGIS professionals-turned-Python programmers teach you how to incorporate scripting at each step: automating the production of maps for print, managing data between ArcGIS Pro and ArcGIS Online, creating custom script tools for sharing, and then running data analysis and visualization on top of the ArcGIS geospatial library, all using Python. You'll use ArcGIS Pro Notebooks to explore and analyze geospatial data, and write data engineering scripts to manage ongoing data processing and data transfers. This exercise-based book also includes three rich real-world case studies, giving you an opportunity to apply and extend the concepts you studied earlier. Irrespective of your expertise level with Esri software or the Python language, you'll benefit from this book's hands-on approach, which takes you through the major uses of Python for ArcGIS Pro to boost your ArcGIS productivity.

What You Will Learn: Automate map production to make and edit maps at scale, cutting down on repetitive tasks Publish map layer data to ArcGIS Online Automate data updates using the ArcPy Data Access module and cursors Turn your scripts into script tools for ArcGIS Pro Learn how to manage data on ArcGIS Online Query, edit, and append to feature layers and create symbology with renderers and colorizers Apply pandas and NumPy to raster and vector analysis Learn new tricks to manage data for entire cities or large companies Who this book is for: This book is ideal for anyone looking to add Python to their ArcGIS Pro workflows, even if you have no prior experience with programming. This includes ArcGIS professionals, intermediate ArcGIS Pro users, ArcGIS Pro power users, students, and people who want to move from being a GIS Technician to GIS Analyst; GIS Analyst to GIS Programmer; or GIS Developer/Programmer to a GIS Architect. Basic familiarity with geospatial/GIS syntax, ArcGIS, and data science (pandas) is helpful, though not necessary.

Expert techniques for effective data analytics and business intelligence

Introduction to Web Mapping

Android Crash Course

OpenLayers 2.10 Beginner's Guide

Get Free Mastering Arcgis Server Development With Javascript

A beginner's guide to creating 2D and 3D maps and editing geospatial data with ArcGIS Pro, 2nd Edition

A Research Guide to Cartographic Resources

Can video games be used to teach personal and business success lessons? Mastering The Game: What Video Games Can Teach Us About Success In Life takes a look at how the same habits and principles that lead to success when playing video games can be applied to personal and business success. Principles are ideas that are truly timeless, and remain true independent of context, culture or time period. So what are the principles embedded in the most popular video games? Surprisingly, the list strongly resembles the most in demand traits for the workplace. * Adaptability & Managing Change* Personal Accountability* Innovation* Communication & Listening* Teambuilding & Collaboration* Knowledge Sharing* Persistence & Grit Mastering The Game provides analogies, examples, and lessons for connecting the dots between how gamers play and how successful professionals work. Are you ready to take your career to the next level?

Master the art of connection and engagement through the power of strategic storytelling. Award-Winning Storyteller and Motivational Speaker, Kelly Swanson, teaches you her Story Formula - a proven blueprint to help you craft strategic stories of impact. This book walks you through the science of story, the six secrets to connection, the three prongs in your connection story, the anatomy of a presentation, and the basic structure for story construction. Bonus chapters include storytelling tips on delivery.

Summary ArcGIS Web Development is an example-rich tutorial designed to teach developers to use the ArcGIS JavaScript API to build custom GIS web applications. About the Technology Now you can unshackle your GIS application from a workstation! Using the ArcGIS JavaScript API, developers can build mobile and web-based maps and applications driven by ArcGIS data and functionality. Experienced ArcGIS developers will find that the familiar development environment provides a smooth transition to the web. Web developers new to GIS will be pleased by how easily they can apply their existing skills to GIS applications. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Book ArcGIS Web Development is an example-rich guide that teaches you to use the ArcGIS JavaScript API to build custom GIS web applications. The book begins with easy-to-follow examples that introduce readers to the ArcGIS JavaScript API and show how you can apply simple customizations. As the book progresses, you'll explore a full-scale, web-mapping application. By the end you will be able to build web apps that have features you'd ordinarily expect to find only in dedicated GIS applications. Written for web developers familiar with JavaScript and basic GIS concepts. Experience with ArcGIS is helpful, but not necessary. What's Inside Build web-based GIS applications Customize the ArcGIS Javascript API tools Bring ArcGIS data to the web Create secure logins for mobile app users About the Author Rene Rubalcava is the cofounder of SmartGeoTech, Inc., a GIS development company specializing in Esri technologies. Table of Contents PART 1 ARCGIS JAVASCRIPT FOUNDATION GIS as a tool Introducing core API concepts Working with the REST API PART 2 SAMPLE USE CASE Building an application Developing a custom data-collection application Building a desktop browser application Advanced techniques APPENDICES Setting up your environment Dojo basics Configuring a proxy Create, analyze, maintain, and share 2D and 3D maps with the powerful tools of ArcGIS Pro About This Book Visualize GIS data in 2D and 3D maps Create GIS projects for quick and easy access to data, maps, and analysis tools A practical guide that helps to import maps, globes, and scenes from ArcMap, ArcScene, or ArcGlobe Who This Book Is For This book is for anyone wishing to learn how ArcGIS Pro can be used to create maps and perform geospatial analysis. It will be especially helpful for those that have used ArcMap and ArcCatalog in the

past and are looking to migrate to Esri's newest desktop GIS solution. Though previous GIS experience is not required, you must have a solid foundation using Microsoft Windows. It is also helpful if you understand how to manage folders and files within the Microsoft Windows environment. What You Will Learn Install ArcGIS Pro and assign Licenses to users in your organization Navigate and use the ArcGIS Pro ribbon interface to create maps and perform analysis Create and manage ArcGIS Pro GIS Projects Create 2D and 3D maps to visualize and analyze data Author map layouts using cartographic tools and best practices to show off the results of your analysis and maps Import existing map documents, scenes, and globes into your new ArcGIS Pro projects quickly Create standardized workflows using Tasks Automate analysis and processes using ModelBuilder and Python In Detail ArcGIS Pro is Esri's newest desktop GIS application with powerful tools for visualizing, maintaining, and analyzing data. ArcGIS Pro makes use of the modern ribbon interface and 64-bit processing to increase the speed and efficiency of using GIS. It allows users to create amazing maps in both 2D and 3D quickly and easily. This book will take you from software installation to performing geospatial analysis. It is packed with how-to's for a host of commonly-performed tasks. You will start by learning how to download and install the software including hardware limitations and recommendations. Then you are exposed to the new Ribbon interface and how its smart design can make finding tools easier. After you are exposed to the new interface, you are walked through the steps to create a new GIS Project to provide quick access to project resources. With a project created, you will learn how to construct 2D and 3D maps including how to add layers, adjust symbology, and control labeling. Next you will learn how to access and use analysis tools to help you answer real-world questions. Lastly, you will learn how processes can be automated and standardized in ArcGIS Pro using Tasks, Models, and Python Scripts. This book will provide an invaluable resource for all those seeking to use ArcGIS Pro as their primary GIS application or for those looking to migrate from ArcMap and ArcCatalog. Style and approach This book includes detailed explanations of the GIS functionality and workflows in ArcGIS Pro. These are supported by easy-to-follow exercises that will help you gain an understanding of how to use ArcGIS Pro to perform a range of tasks.

Create, optimize, and deploy stunning cross-browser web maps with the OpenLayers JavaScript web mapping library.

Automate Cartography and Data Analysis Using ArcGIS Python Modules, Jupyter Notebooks, and Pandas

JavaScript JSON Cookbook

ArcPy and ArcGIS – Geospatial Analysis with Python

Mastering Geospatial Analysis with Python

Google Maps JavaScript API Cookbook

Spatial Analytics with ArcGIS

Learn how to confidently install, configure, secure, and fully utilize your ArcGIS Enterprise system. About This Book Install and configure the components of ArcGIS Enterprise to meet your organization's requirements Administer all aspects of ArcGIS Enterprise through user interfaces and APIs Optimize and Secure ArcGIS Enterprise to make it run efficiently and effectively Who This Book Is For This book will be geared toward senior GIS analysts, GIS managers, GIS administrators, DBAs, GIS architects, and GIS engineers that need to install, configure, and administer ArcGIS Enterprise 10.5.1. What You Will Learn Effectively install and configure

ArcGIS Enterprise, including the Enterprise geodatabase, ArcGIS Server, and Portal for ArcGIS Incorporate different methodologies to manage and publish services Utilize the security methods available in ArcGIS Enterprise Use Python and Python libraries from Esri to automate administrative tasks Identify the common pitfalls and errors to get your system back up and running quickly from an outage In Detail ArcGIS Enterprise, the next evolution of the ArcGIS Server product line, is a full-featured mapping and analytics platform. It includes a powerful GIS web services server and a dedicated Web GIS infrastructure for organizing and sharing your work. You will learn how to first install ArcGIS Enterprise to then plan, design, and finally publish and consume GIS services. You will install and configure an Enterprise geodatabase and learn how to administer ArcGIS Server, Portal, and Data Store through user interfaces, the REST API, and Python scripts. This book starts off by explaining how ArcGIS Enterprise 10.5.1 is different from earlier versions of ArcGIS Server and covers the installation of all the components required for ArcGIS Enterprise. We then move on to geodatabase administration and content publication, where you will learn how to use ArcGIS Server Manager to view the server logs, stop and start services, publish services, define users and roles for security, and perform other administrative tasks. You will also learn how to apply security mechanisms on ArcGIS Enterprise and safely expose services to the public in a secure manner. Finally, you'll use the RESTful administrator API to automate server management tasks using the Python scripting language. You'll learn all the best practices and troubleshooting methods to streamline the management of all the interconnected parts of ArcGIS Enterprise. Style and approach The book takes a pragmatic approach, starting with installation & configuration of ArcGIS Enterprise to finally building a robust GIS web infrastructure for your organization. A web map is an interactive display of geographic information, in the form of a web page, that you can use to tell stories and answer questions. Web maps have numerous advantages over traditional mapping techniques, such as the ability to display up-to-date or even real-time information, easy distribution to end users, and highly customized interactive content. Introduction to Web Mapping teaches you how to develop online interactive web maps and web mapping applications, using standard web technologies: HTML, CSS and JavaScript. The core technologies are introduced in Chapters 1-5, focusing on the specific aspects which are most relevant to web mapping. Chapters 6-13 then implement the material and demonstrate key concepts for building and publishing interactive web maps.

Get the very most out of the ArcGIS for Desktop products through ArcObjects and .NET ArcGIS for Desktop is a powerful suite of software tools for creating and using maps, compiling, analyzing and sharing geographic information, using maps and geographic information in applications, and managing geographic databases. But getting the hang of ArcGIS for Desktop can be a bit tricky, even for experienced programmers. Core components of ArcGIS platform is called ArcObjects. This book first introduce you the whole ArcGIS platform and the opportunities for development using various programming languages. Then it focuses on ArcGIS for Desktop applications and makes you familiar with ArcObjects from .NET point of view. Whether you are an ArcGIS user with no background in programming or a programmer without experience with the ArcGIS platform, this book arms you with everything you need to get going with ArcGIS for Desktop development using .NET right away. Written by a leading expert in geospatial information system design and development, it provides concise, step-by-step guidance, illustrated with best-practices examples, along with plenty of ready-to-use source code. In no time you'll progress from .NET programming basics to understanding the full suite of ArcGIS tools and artefacts to customising and building your own commands, tools and extensions all the way through application deployment. Among other things, you'll learn to: Object-Oriented and Interface-based programming in .NET (C# and VB.NET) Finding relationship between classes and interfaces using object model diagrams Querying data Visualizing geographical data using various rendering Creating various kinds of Desktop Add-Ins Performing foreground and background geoprocessing Learn how to improve your productivity with ArcGIS for Desktop and Beginning ArcGIS for Desktop Development Using .NET

This is a solution-based book, showcasing the real power of ArcGIS Geodatabase by following a real-world, example-based approach. This book is aimed at geospatial developers who want to work with ArcGIS geodatabases as well as manage them. Having knowledge of building a geodatabase from scratch isn't a must; Learning ArcGIS Geodatabases is ideal for those who want to use ArcGIS geodatabase for the first time, or for those who want to migrate from their existing legacy database to a geodatabase.

This book is written in a helpful, practical style with numerous hands-on recipes and chapters to help you save time and effort by using Python to power ArcGIS to create shortcuts, scripts, tools, and customizations. "Programming ArcGIS 10.1 with Python Cookbook" is written for GIS professionals who wish to revolutionize their ArcGIS workflow with Python. Basic Python or

programming knowledge is essential(?).

Visual Analytics with SAS Viya

ArcGIS Web Development

BIM Handbook

Special Collection

Step by Step Guide to Mastering Android App Programming

Learning ArcGIS Pro

Master the ArcGIS API for JavaScript to build web and mobile applications using this practical guide. About This Book Develop ArcGIS Server applications with JavaScript, both for traditional web browsers as well as the mobile platform Make your maps informative with intuitive geographic layers, user interface widgets, and more Integrate ArcGIS content into your custom applications and perform analytics with the ArcGIS Online Who This Book Is For If you are a web or mobile application developer, who wants to create GIS applications in your respective platform, this book is ideal for you. You will need Java Script programming experience to get the most out of this book. Although designed as an introductory to intermediate level book, it will also be useful for more advanced developers who are new to the topic of developing applications with ArcGIS Server. What You Will Learn To create an application with the ArcGIS API for JavaScript Build and display a broad range of different geometry types to represent features on the map The best way to leverage a feature layer and display related attribute data The functionality of the wide range of widgets and how to use them effectively Query data to gain new insights into the information it contains Work with tasks to discover and locate features on the map Using the geocoder and associated widgets The ability of the API to provide turn by turn directions and routing capabilities How to use the Geometry Engine and Geometry Service tasks for common geoprocessing operations Integrate content on ArcGIS online and add it to your custom web mapping application In Detail The ArcGIS API for JavaScript enables you to quickly build web and mobile mapping applications that include sophisticated GIS capabilities, yet are easy and intuitive for the user. Aimed at both new and experienced web developers, this practical guide gives you everything you need to get started with the API. After a brief introduction to HTML/CSS/JavaScript, you'll embed maps in a web page, add the tiled, dynamic, and streaming data layers that your users will interact with, and mark up the map with graphics. You will learn how to quickly incorporate a broad range of useful user interface elements and GIS functionality to

your application with minimal effort using prebuilt widgets. As the book progresses, you will discover and use the task framework to query layers with spatial and attribute criteria, search for and identify features on the map, geocode addresses, perform network analysis and routing, and add custom geoprocessing operations. Along the way, we cover exciting new features such as the client-side geometry engine, learn how to integrate content from ArcGIS.com, and use your new skills to build mobile web mapping applications. We conclude with a look at version 4 of the ArcGIS API for JavaScript (which is being developed in parallel with version 3.x) and what it means for you as a developer. Style and approach Readers will be taken through a series of exercises that will demonstrate how to efficiently build ArcGIS Server applications for the mobile and web.

SAS Visual Analytics is a business intelligence and analytics platform that provides visual exploration and discovery, self-service analytics, and interactive reporting for organizations of all sizes. All organizations have a wide variety of users, and each user needs something different from data and analytics. SAS Visual Analytics allows everyone to easily discover and share powerful insights that inspire action. Several useful papers have been written to demonstrate how to use these techniques. We have carefully selected a handful of these from recent Global Forum contributions to introduce you to the topic and let you sample what each has to offer. Also available free as a PDF from sas.com/books.

Android Crash Course: Step By Step Guide to Mastering Android App Programming!Want to learn Android Programming? Need to learn it?Want to develop an app quick and easy?How about starting an app from scratch? Learn the step by step of building an app through programming?PG Wizards gives you a walk through from building android apps to running them to finally testing them!And don't worry PG Wizards walks you through publishing the App as well!You will get all your basic information as well for all new programmers!Such as Operating systems & SDK and beyond!Whether your just starting out or looking to reinforce your current skills? Perfect either way everything & anything you could think about will be in this book!The most economical buys that will get you all you need to know to learn Android programming quickly and efficiently!Purchase now and don't wait as Android Crash Course

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

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.

Microsoft Power BI Complete Reference

Applications with ArcGIS

Mastering ArcGIS

Mastering ArcGIS Enterprise Administration

Mastering ArcGIS Server Development with JavaScript

Building Web and Mobile ArcGIS Server Applications with JavaScript

Create 2D maps and 3D scenes, analyze GIS data, and share your results with the GIS community using

the latest ArcGIS Pro 2 features Key FeaturesGet up to speed with the new ribbon-based user interface, projects, models, and common workflows in ArcGIS Pro 2Learn how to visualize, maintain, and analyze GIS dataAutomate analysis and processes with ModelBuilder and Python scriptsBook Description Armed with powerful tools to visualize, maintain, and analyze data, ArcGIS Pro 2 is Esri's newest desktop geographic information system (GIS) application that uses the modern ribbon interface and a 64-bit processor to make using GIS faster and more efficient. This second edition of Learning ArcGIS Pro will show you how you can use this powerful desktop GIS application to create maps, perform spatial analysis, and maintain data. The book begins by showing you how to install ArcGIS and listing the software and hardware prerequisites. You'll then understand the concept of named user licensing and learn how to navigate the new ribbon interface to leverage the power of ArcGIS Pro for managing geospatial data. Once you've got to grips with the new interface, you'll build your first GIS project and understand how to use the different project resources available. The book shows you how to create 2D and 3D maps by adding layers and setting and managing the symbology and labeling. You'll also discover how to use the analysis tool to visualize geospatial data. In later chapters, you'll be introduced to Arcade, the new lightweight expression language for ArcGIS, and then advance to creating complex labels using Arcade expressions. Finally, you'll use Python scripts to automate and standardize tasks and models in ArcGIS Pro. By the end of this ArcGIS Pro book, you'll have developed the core skills needed for using ArcGIS Pro 2.x competently. What you will learnNavigate the user interface to create maps, perform analysis, and manage dataDisplay data based on discrete attribute values or range of valuesLabel features on a GIS map based on one or more attributes using ArcadeCreate map books using the map series functionalityShare ArcGIS Pro maps, projects, and data with other GIS community membersExplore the most used geoprocessing tools for performing spatial analysisCreate Tasks based on common workflows to standardize processesAutomate processes using ModelBuilder and Python scriptsWho this book is for If you want to learn ArcGIS Pro to create maps and, edit and analyze geospatial data, this ArcGIS book is for you. No knowledge of GIS fundamentals or experience with any GIS tool or ArcGIS software suite is required. Basic Windows skills, such as navigating and file management, are all you need.

Transform maps and raw data into full-fledged web mapping applications using the power of the ArcGIS JavaScript API and JavaScript libraries About This Book Create and share modern map applications for desktops, tablets, and mobile browsers Present and edit geographic and related data through maps,

charts, graphs, and more Learn the tools, tips, and tricks made available through the API and related libraries with examples of real-world applications Who This Book Is For This book is intended for intermediate developers who want to design web mapping applications. You should have some experience with geographic information systems, especially with ArcGIS products such as ArcGIS Server. It also helps to have some experience with HTML, CSS, and JavaScript. What You Will Learn Create single-page mapping applications, lining up data from different sources Search for and display geographic and tabular information based on locations and attributes Customize maps and widgets to deliver the best user experience Present location data intuitively using charts and graphs Integrate mapping applications with your favorite JavaScript frameworks Test the working of your web map application and take advantage of cloud services such as ArcGIS Online Create modern-looking web maps through styling tips and tricks In Detail ESRI and its ArcGIS line of software have been an industry leader in digital map production and publication for over 30 years. ArcGIS Server lets you design, configure, and publish maps that can be viewed and edited through the Internet. After designing basic maps, you may want to find out new and innovative ways to represent information using these maps. In this book, you'll work through practical examples, experiencing the pitfalls and successes of creating desktop and mobile map applications for a web browser using the ArcGIS Server platform. The book begins by introducing you to ArcGIS Server and ESRI's JavaScript API. You'll work with your first web map and then move on to learn about ESRI's building blocks. A Dojo AMS style widget will help you create your own widgets for a map and then see how to collect geographic data. Furthermore, you will learn different techniques such as using Dojo Charts to create charts and graphs to represent your data. Then you will see how to use ESRI JavaScript API with other JavaScript libraries and different styling methods to make your map stand out. By the end of the book, you will discover how to make your application compatible with different devices and platforms and test it using testing libraries. Style and approach An in-depth guide that explores web application development using ArcGIS Server and the ArcGIS JavaScript API. Topics are explained in the context of developing two applications for fictional clients. Details of application development, including possible pitfalls and best practices, are included in this book.

The organization pursuing digital transformation must embrace new ways to use and deploy integration technologies, so they can move quickly in a manner appropriate to the goals of multicloud, decentralization, and microservices. The integration layer must transform to allow organizations to move

boldly in building new customer experiences, rather than forcing models for architecture and development that pull away from maximizing the organization's productivity. Many organizations have started embracing agile application techniques, such as microservice architecture, and are now seeing the benefits of that shift. This approach complements and accelerates an enterprise's API strategy. Businesses should also seek to use this approach to modernize their existing integration and messaging infrastructure to achieve more effective ways to manage and operate their integration services in their private or public cloud. This IBM® Redbooks® publication explores the merits of what we refer to as agile integration; a container-based, decentralized, and microservice-aligned approach for integration solutions that meets the demands of agility, scalability, and resilience required by digital transformation. It also discusses how the IBM Cloud Pak for Integration marks a significant leap forward in integration technology by embracing both a cloud-native approach and container technology to achieve the goals of agile integration. The target audiences for this book are cloud integration architects, IT specialists, and application developers. "This text serves as an introduction to GIS and is your partner in developing the skills needed to enter this exciting and rapidly developing field. Based on the widely used ArcGIS software developed ESRI, Inc., Mastering ArcGIS provides extensive training in GIS concepts and skills for both students in a classroom setting or professionals studying independently, it balances theoretical concepts and hands-on learning so that students learn about the how and the why of GIS data and analysis."--Page 4 de la couverture.

Mastering ArcGIS Server Development with JavaScriptPackt Publishing Ltd

Advances in Information Systems and Technologies

Print and Electronic Sources

Mastering Microsoft Power BI

Explore GIS processing and learn to work with GeoDjango, CARTOframes and MapboxGL-Jupyter

What Video Games Can Teach Us about Success in Life

Using Tidycensus and Tidiverse to Import, Manipulate, Explore, and Visualize Census Data

Geographic information in decision making often goes unnoticed, but it is actually very present in our daily activities. Fundamentals of GIS: Applications with ArcGIS shows the potential of Geographic Information Systems (GIS) for geographic mapping using ArcGIS. This book is designed in a didactic and sequential way, as we advance in the development of GIS, you will acquire and improve our skills in the use of GIS tools, until we get to the publication of a well edited map. When these tasks in this book are completed and developed, the user will be able to fully understand the fundamentals of GIS, and the use

tools to generate maps. This is a book that will teach you from scratch and step by step the use of GIS for your projects. Write efficient GIS applications using PostGIS - from data creation to data consumption About This Book Learn how to use PostGIS for spatial data analysis and manipulation Optimize your queries and build custom functionalities for your GIS applications A comprehensive guide with hands-on examples to help you master PostGIS with ease Who This Book Is For If you are a 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 concepts and spatial databases Solve spatial problems with the use of SQL in real-world scenarios Practical walkthroughs for application development examples using Postgis, GeoServer and OpenLayers. Extract, transform and load your spatial data directly or through web services. Consume your data in both desktop and web clients In Detail PostGIS is an extension of PostgreSQL object-relational database system that allows GIS objects to be stored and allows querying for information location services. The aim of this book is to help you master the functionalities offered by PostGIS- from data creation to output, to ETL and live edits. The book begins with an overview of the key concepts related to spatial database systems and applies to Spatial RDBMS. You will learn to load different formats into your Postgres instance, investigate the spatial data, raster data, and finally export it using built-in functionalities or 3rd party tools for backup or representational purposes. Throughout the course of this book, you will be presented with many examples on how to interact with the database using JavaScript. Sample web-based applications interacting with backend PostGIS will also be presented throughout the book, so you can be comfortable with the modern ways of consuming and modifying your spatial data. Style and approach This book is a practical guide covering all the concepts you need to master PostGIS. Packed with hands-on examples, tips and tricks, even the most complex 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.

Our emotions are powerful and they can lead us to feelings and thoughts of happiness and joy or sadness and devastation. We are faced with not only our own emotions but the emotions of others, as well. Learning to master our emotions and appropriately respond to the emotions of others is critical to living a successful and happy life. Failure to master our emotions can lead to poor physical health and depression. The good news is that we do not have to be creatures of emotion based behavior but can live the life of success, prosperity and love we deserve. Emotional Mastery will lead you to awareness of the cause or triggers of your emotions and give you effective methods for dealing with them and increasing your emotional control. Contrary to the belief of some, our emotions are not necessarily the result of upbringing, social status, or environment. We should not control us but serve us giving us more management over our lives and improving our relationships. Each

us the power to rein over our emotions and redirect them to become powerful tools of enhanced self-awareness, ra conflict resolution, influential interpersonal skills, stronger relationships, career success, and enable us to live the ha dream of. You have the power to rein over your emotions and even control them. You have the power to be happy, think it's impossible, and you have the power to change the way you feel. You will soon find that even the most diff will be handled with maturity and can no longer harm you or your physical well being. Decide today to raise your Em Intelligence stop negative emotional reaction behavior and become the Master of your success and happiness.

This book contains a selection of articles from The 2013 World Conference on Information Systems and Technologies (WorldCIST'13), a global forum for researchers and practitioners to present and discuss the most recent innovations experiences and concerns in the several perspectives of Information Systems and Technologies. The main topics cov Information and Knowledge Management; Organizational Models and Information Systems; Intelligent and Decision Su Systems; Software Systems, Architectures, Applications and Tools; Computer Networks, Mobility and Pervasive Syste Technologies; and Human-Computer Interaction.

In this book you will learn how to use R with the tidycensus and tidyverse packages to explore and visualize US Cen data.tidycensus is an R package that allows users to interface with the US Census Bureau's decennial Census and fi Community APIs and return tidyverse-ready data frames, optionally with simple feature geometry included. tidycensus help R users get Census data that is pre-prepared for exploration within the tidyverse, and optionally spatially with your work involves the use of data from the US Census Bureau and would like to use R to explore, manipulate, and v datasets, the tidycensus and tidyverse packages are great tools for accomplishing these tasks. Beyond this, the sf p R users to work with spatial data in an integrated way with tidyverse tools, and updates to the tigris package prov Census boundary data as sf objects.This book will also allow the student to learn, in detail, the fundamentals of the additionally master some of the most efficient libraries for data visualization in chart, graph, and map formats. The s the language and applications through examples and practice. No prior programming skills are required.

Mastering Geospatial Development with QGIS 3.x

The Story Formula

Mastering the Art of Cconnection and Engagement Through the Power of Strategic Storytelling

Accelerating Modernization with Agile Integration

Agile Development with ICONIX Process

People, Process, and Pragmatism

Use Python modules such as ArcPy, ArcREST and the ArcGIS API for Python to automate the analysis

and mapping of geospatial data. About This Book Perform GIS analysis faster by automating tasks. Access the spatial data contained within shapefiles and geodatabases and transform between spatial reference systems. Automate the mapping of geospatial analyses and production of map books. Who This Book Is For If you are a GIS student or professional who needs an understanding of how to use ArcPy to reduce repetitive tasks and perform analysis faster, this book is for you. It is also a valuable book for Python programmers who want to understand how to automate geospatial analyses and implement ArcGIS Online data management. What You Will Learn Understand how to integrate Python into ArcGIS and make GIS analysis faster and easier. Create Python script using ArcGIS ModelBuilder. Learn to use ArcGIS online feature services and the basics of the ArcGIS REST API Understand the unique Python environment that is new with ArcGIS Pro Learn about the new ArcGIS Python API and how to use Anaconda and Jupyter with it Learn to control ArcGIS Enterprise using ArcPy In Detail ArcGIS allows for complex analyses of geographic information. The ArcPy module is used to script these ArcGIS analyses, providing a productive way to perform geo-analyses and automate map production. The second edition of the book focuses on new Python tools, such as the ArcGIS API for Python. Using Python, this book will guide you from basic Python scripting to advanced ArcPy script tools. This book starts off with setting up your Python environment for ArcGIS automation. Then you will learn how to output maps using ArcPy in MXD and update feature class in a geodatabase using arcpy and ArcGIS Online. Next, you will be introduced to ArcREST library followed by examples on querying, updating and manipulating ArcGIS Online feature services. Further, you will be enabling your scripts in the browser and directly interacting with ArcGIS Online using Jupyter notebook. Finally, you can learn ways to use of ArcPy to control ArcGIS Enterprise and explore topics on deployments, data quality assurances, data updates, version control, and editing safeguards. By the end of the book, you will be equipped with the knowledge required to create automated analysis with administration reducing the time-consuming nature of GIS. Style and approach The book takes a pragmatic approach, showing ways to automate repetitive tasks and utilizing features of ArcPy with ArcGIS Pro and ArcGIS online.

Learning ArcGIS Pro 2

Mastering GeoServer

Emotional Mastery

Beginning ArcGIS for Desktop Development using .NET

Building Web Applications with ArcGIS
Fundamentals of GIS