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GIS Tutorial 1 for ArcGIS Pro - Wilpen L. Gorr 2020
Updated for ArcGIS Pro 2.4, GIS Tutorial 1 for ArcGIS® Pro 2.4: A Platform Workbook is an introductory text for learning ArcGIS Pro, the premier professional desktop GIS application. In-depth exercises that use ArcGIS Pro, ArcGIS Online, and other ArcGIS apps show readers how to make maps, how to create and analyze spatial data, and how to manage systems with GIS. GIS Tutorial 1 for ArcGIS Pro 2.4: A Platform Workbook engages readers in: Obtaining spatial data and building a geodatabase for collecting, editing, and processing data; Exploring the functionalities of ArcGIS Pro, ArcGIS Online, and apps; understanding the elements of map design; and creating map layouts, story maps, dashboards, and 3D maps; Analyzing spatial data using buffers and street network-based service areas, locating facilities, and conducting cluster analysis Automating GIS through macros for monitoring and optimal routing of service deliveries with data input in the field using a mobile app; Carrying out real-world applications for health care, crime, government services, planning, and marketing. Incorporating proven teaching methods in detailed exercises, 'Your Turn' sections, and expanded homework assignments, GIS Tutorial 1 for ArcGIS Pro 2.4: A Platform Workbook is suited to learning GIS in a classroom.--From the publisher.

Functional Materials - Mario Leclerc 2014-10-10
"Functional Materials textbook is not simply a review of the vast body of literature of the recent years, as it holds the focus upon various aspects of application. Moreover, it selects only a few topics in favor of a solid and thorough treatment of the relevant aspects. This book comes in a good time, when a large body of academic literature has been accumulated and is waiting for a critical inspection in the light of the real demands of application." Professor Gerhard Wegner, Max-Planck Institute for Polymer Research, Mainz, Germany The chapters cover three important fields in the development of functional materials: energy, environment, and biomedical applications. These topics are explained and discussed from both an experimental and a theoretical perspective. Functional organic and inorganic materials are at the center of most technological breakthroughs. Therefore, the understanding of material properties is fundamental to the development of novel functionalities and applications.

Spring Security Essentials - Nanda Nachimuthu 2016-01-13
A fast-paced guide for securing your Spring applications effectively with the Spring Security frameworkAbout This Book• Explore various security concepts using real-time examples of the Spring Security framework• Learn about the functionalities that implement industry standard

authentication and authorization mechanisms to secure enterprise-level applications• Design and develop advanced Spring Security layers by following a step-by-step approachWho This Book Is ForIf you are a developer who is familiar with Spring and you are looking to explore its security features, then this book is for you. All beginners and experienced users will benefit from this book since it is explores both the theory and practical usage in detail.What You Will Learn• See industry standard security implementations in action• Understand the principles of security servers, concepts, installation, and integration• Use Spring Extensions for various security mechanisms• Get to grips with the internals of the tools and servers involved in the security layer• Work through practical projects and working programs• Compare different security servers and techniques• Use the sample projects in practical, real-time applications• Get further readings and guidance on advanced security mechanismsIn DetailSpring Security is a framework that focuses on providing both authentication and authorization to Java applications. Like all Spring projects, the real power of Spring Security is how easily it can be extended to meet custom requirements. The popularity of the Spring framework is increasing and the security package of Spring addresses vast mechanisms of Security in a rich way. Due to an increasing number of applications for various business needs, the integration of multiple applications is becoming inevitable. The standard security procedures available across multiple implementations in Spring will protect vulnerable applications that are open to larger public and private audiences.Spring Security Essentials focuses on the need to master the security layer, which is an area not often explored by a Spring developer.At the beginning, we'll introduce various industry standard security mechanisms and the practical ways to integrate with them. We will also teach you about some up-to-date use cases such as building a security layer for RESTful web services and applications.The IDEs used and security servers involved are briefly explained, including the steps to install them. Many sample projects are also provided to help you practice your newly developed skills. Step-by-step instructions will help you master the security layer integration with the Server, then implement the

experience gained from this book in your own real-time application.Style and approachThis practical guide is packed with detailed explanations of the underlying concepts, as well as screenshots and working examples that guarantee hands-on learning.

25 Years of Model Checking - Orna Grumberg 2008-06-17
This Festschrift volume, published in celebration of the 25th Anniversary of Model Checking, features papers based on talks at the symposium "25 Years of Model Checking", 25MC, which was part of the 18th International Conference on Computer Aided Verification.

Magento 2 Developer's Guide - Branko Ajzele 2015-12-23
Harness the power of Magento 2 – The most recent version of the world's favourite e-Commerce platform for your online store About This Book Set up, configure, and power up your Magento environment from development to production Master the use of Web API to communicate with the Magento system and create custom services Create custom modules from scratch to extend the core functionality of the Magento system Who This Book Is For This book is intended primarily for intermediate to professional-level PHP developers who are interested in Magento development. For backend developers, several topics are covered that will enable you to modify and extend your Magento 2 store. Frontend developers will also find some coverage on how to customize the look of the site in the frontend. What You Will Learn Set up the development and production environment of Magento 2 Understand the new major concepts and conventions used in Magento 2 Build a miniature yet fully-functional module from scratch to manage your e-commerce platform efficiently Write models and collections to manage and search your entity data Dive into backend development such as creating events, observers, cron jobs, logging, profiling, and messaging features Get to the core of frontend development such as blocks, templates, layouts, and the themes of Magento 2 Use token, session, and Oauth token-based authentication via various flavors of API calls, as well as creating your own APIs Get to grips with testing Magento modules and custom themes, which forms an integral part of development In Detail Magento is one of the most exciting, flexible, and customizable e-

commerce systems. It offers you an extensive suite of powerful tools for creating and managing an online store. After years of development, Magento 2 introduces itself with a strong emphasis on modularity, Web API's, automated testing and overall new technology stack platform. The long-awaited Magento 2 release introduces a whole new e-commerce platform to develop online stores. The all new Magento 2 architecture, Web APIs, and a host of other features are equally challenging to master as much as they are exciting to use. This book will ease the learning curve by offering step-by-step guidance on how to extend the core functionality of your Magento 2 store. This book is your one-stop guide to build and customize a quality e-commerce website from the latest version of one of the largest, fastest growing, and most popular e-commerce platforms—Magento 2. We start off with an introduction to the fundamental concepts of Magento to give you a foundation to work from. We then move on to configure the development and basic production environment for Magento. After this, you'll get to grips with the major concepts and conventions that are new to the Magento 2 platform. We then delve deeper to get to the core of automated deployments, persisting data, writing data fixture scripts and applying various backend and frontend modifications. As we near the end of the book, you will learn to make API calls and write automated tests. Finally, you will be guided through building a full-blown helpdesk module from scratch. By the end of this book, you will have learned a wide range of techniques to extend and customize your Magento 2 store to fit the requirements of your business. Style and approach This book is a mix of theoretical and step-by-step approaches, explained in a conversational and easy-to-follow style. Topics are explained sequentially, giving detailed explanations of the basic and advanced features to get you working on Magento 2.

Mastering Geospatial Analysis with Python - Silas Toms 2018-04-27 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 GIS data management, analysis, and automation techniques with code libraries built in Python 3.

Intelligent Workloads at the Edge - Indraneel Mitra 2022-01-14 Explore IoT, data analytics, and machine learning to solve cyber-physical problems using the latest capabilities of managed services such as AWS IoT Greengrass and Amazon SageMaker Key FeaturesAccelerate your next edge-focused product development with the power of AWS IoT GreengrassDevelop proficiency in architecting resilient solutions for the edge with proven best practicesHarness the power of analytics and

machine learning for solving cyber-physical problemsBook Description
The Internet of Things (IoT) has transformed how people think about and
interact with the world. The ubiquitous deployment of sensors around us
makes it possible to study the world at any level of accuracy and enable
data-driven decision-making anywhere. Data analytics and machine
learning (ML) powered by elastic cloud computing have accelerated our
ability to understand and analyze the huge amount of data generated by
IoT. Now, edge computing has brought information technologies closer
to the data source to lower latency and reduce costs. This book will teach
you how to combine the technologies of edge computing, data analytics,
and ML to deliver next-generation cyber-physical outcomes. You'll begin
by discovering how to create software applications that run on edge
devices with AWS IoT Greengrass. As you advance, you'll learn how to
process and stream IoT data from the edge to the cloud and use it to
train ML models using Amazon SageMaker. The book also shows you
how to train these models and run them at the edge for optimized
performance, cost savings, and data compliance. By the end of this IoT
book, you'll be able to scope your own IoT workloads, bring the power of
ML to the edge, and operate those workloads in a production setting.
What you will learnBuild an end-to-end IoT solution from the edge to the
cloudDesign and deploy multi-faceted intelligent solutions on the
edgeProcess data at the edge through analytics and MLPackage and
optimize models for the edge using Amazon SageMakerImplement
MLOps and DevOps for operating an edge-based solutionOnboard and
manage fleets of edge devices at scaleReview edge-based workloads
against industry best practicesWho this book is for This book is for IoT
architects and software engineers responsible for delivering analytical
and machine learning–backed software solutions to the edge. AWS
customers who want to learn and build IoT solutions will find this book
useful. Intermediate-level experience with running Python software on
Linux is required to make the most of this book.
ArcPy and ArcGIS - Silas Toms 2017-06-29
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.

Implementing Cisco IP Telephony and Video, Part 2 (CIPTV2) Foundation Learning Guide (CCNP Collaboration Exam 300-075 CIPTV2) - William Alexander Hannah 2016-03-05

Now fully updated for Cisco's new CIPTV2 300-075 exam, Implementing Cisco IP Telephony and Video, Part 2 (CIPTV2) Foundation Learning Guide is your Cisco® authorized learning tool for CCNP® Collaboration preparation. Part of the Cisco Press Foundation Learning Series, it teaches advanced skills for implementing a Cisco Unified Collaboration solution in a multisite environment. The authors show how to implement Uniform Resource Identifier (URI) dialing, globalized call routing, Intercluster Lookup Service and Global Dial Plan Replication, Cisco Service Advertisement Framework and Call Control Discovery, tail-end hop-off, Cisco Unified Survivable Remote Site Telephony, Enhanced Location Call Admission Control (CAC) and Automated Alternate Routing (AAR), and important mobility features. They introduce each key challenge associated with Cisco Unified Communications (UC) multisite deployments, and present solutions-focused coverage of Cisco Video Communication Server (VCS) Control, the Cisco Expressway Series, and their interactions with Cisco Unified Communications Manager. Each chapter opens with a topic list that clearly identifies its focus, ends with a quick-study summary of key concepts, and presents review questions to assess and reinforce your understanding. The authors present best practices based on Cisco Solutions Reference Network Designs and Cisco Validated Designs, and illustrate operation and troubleshooting via configuration examples and sample verification outputs. This guide is ideal for all certification candidates who want to master all the topics covered on the CIPTV2 300-075 exam. Shows how to craft a multisite dial plan that scales, allocates bandwidth appropriately, and supports QoS Identifies common problems and proven solutions in multisite UC deployments Introduces best practice media architectures, including remote conferencing and centralized transcoding Thoroughly reviews PSTN and intersite connectivity options Shows how to provide remote site telephony and branch redundancy Covers bandwidth reservation at

UC application level with CAC Explains how to plan and deploy Cisco Device Mobility, Extension Mobility, and Unified Mobility Walks through deployment of Cisco Video Communication Server and Expressway series, including user and endpoint provisioning Covers Cisco UCM and Cisco VCS interconnections Shows how to use Cisco UC Mobile and Remote Access Covers fallback methods for overcoming IP WAN failure Demonstrates NAT traversal for video and IM devices via VCS Expressway Introduces dynamic dial plan learning via GDPR, SAD, or CCD

Developing Mobile Web ArcGIS Applications - Matthew Sheehan 2015-02-27
This guide is invaluable to those just starting out with GIS development but will also benefit GIS professionals wishing to expand their development skills to include mobile apps.

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.

Data Engineering with Python - Paul Crickard 2020-10-23
Build, monitor, and manage real-time data pipelines to create data engineering infrastructure efficiently using open-source Apache projects Key FeaturesBecome well-versed in data architectures, data preparation, and data optimization skills with the help of practical examplesDesign data models and learn how to extract, transform, and load (ETL) data using PythonSchedule, automate, and monitor complex data pipelines in productionBook Description Data engineering provides the foundation for data science and analytics, and forms an important part of all

businesses. This book will help you to explore various tools and methods that are used for understanding the data engineering process using Python. The book will show you how to tackle challenges commonly faced in different aspects of data engineering. You'll start with an introduction to the basics of data engineering, along with the technologies and frameworks required to build data pipelines to work with large datasets. You'll learn how to transform and clean data and perform analytics to get the most out of your data. As you advance, you'll discover how to work with big data of varying complexity and production databases, and build data pipelines. Using real-world examples, you'll build architectures on which you'll learn how to deploy data pipelines. By the end of this Python book, you'll have gained a clear understanding of data modeling techniques, and will be able to confidently build data engineering pipelines for tracking data, running quality checks, and making necessary changes in production. What you will learnUnderstand how data engineering supports data science workflowsDiscover how to extract data from files and databases and then clean, transform, and enrich itConfigure processors for handling different file formats as well as both relational and NoSQL databasesFind out how to implement a data pipeline and dashboard to visualize resultsUse staging and validation to check data before landing in the warehouseBuild real-time pipelines with staging areas that perform validation and handle failuresGet to grips with deploying pipelines in the production environmentWho this book is for This book is for data analysts, ETL developers, and anyone looking to get started with or transition to the field of data engineering or refresh their knowledge of data engineering using Python. This book will also be useful for students planning to build a career in data engineering or IT professionals preparing for a transition. No previous knowledge of data engineering is required.

Web Mapping Illustrated - Tyler Mitchell 2005-06-17
Provides information on how to create custom maps from tools available over the Internet.

XDA Developers' Android Hacker's Toolkit - Jason Tyler 2012-05-08
Make your Android device truly your own Are you eager to make your Android device your own but you're not sure where to start? Then this is the book for you. XDA is the world's most popular resource for Android hacking enthusiasts, and a huge community has grown around customizing Android devices with XDA. XDA's Android Hacker's Toolkit gives you the tools you need to customize your devices by hacking or rooting the android operating system. Providing a solid understanding of the internal workings of the Android operating system, this book walks you through the terminology and functions of the android operating system from the major nodes of the file system to basic OS operations. As you learn the fundamentals of Android hacking that can be used regardless of any new releases, you'll discover exciting ways to take complete control over your device. Teaches theory, preparation and practice, and understanding of the OS Explains the distinction between ROMing and theming Provides step-by-step instructions for Droid, Xoom, Galaxy Tab, LG Optimus, and more Identifies the right tools for various jobs Contains new models enabling you to root and customize your phone Offers incomparable information that has been tried and tested by the amazing XDA community of hackers, gadgeteers, and technicians XDA's Android Hacker's Toolkit is a simple, one-stop resource on hacking techniques for beginners.

Pro Android with Kotlin - Peter Späth 2018-09-03
Develop Android apps with Kotlin to create more elegant programs than the Java equivalent. This book covers the various aspects of a modern Android app that professionals are expected to encounter. There are chapters dealing with all the important aspects of the Android platform, including GUI design, file- and data-handling, coping with phone calls, multimedia apps, interaction with location and mapping services, monetizing apps, and much more. Pro Android with Kotlin is an invaluable source for developers wanting to build real-world state-of-the-art apps for modern Android devices. What You Will Learn Integrate activities, such as intents, services, toasts and more, into your Android apps Build UIs in Android using layouts, widgets, lists, menus, and action bars Deal with data in your Android apps using data persistence and cloud access Design for different Android devices Create multimedia

apps in Android Secure, deploy, and monetize your Android apps Who This Book Is For Professional Android app developers.

Managing Salt Tolerance in Plants - Shabir Hussain Wani 2015-10-05 Salinity stress currently impacts more than 80 million hectares of land worldwide and more arable land is likely to be impacted in the future due to global climate changes. Managing Salt Tolerance in Plants: Molecular and Genomic Perspectives presents detailed molecular and genomic approaches for the development of crop plants tolerant to salinity

Building Web and Mobile ArcGIS Server Applications with JavaScript - Eric Pimpler 2014 An easy to follow tutorial, this book uses a stepbystep approach with exercises designed to give you handson experience with this technology.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.

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

Pro JavaScript Development - Den Odell 2014-08-28 Pro JavaScript Development is a practical guide for front-end web developers who are experienced at building web pages with HTML, CSS, and JavaScript, and now wish to advance their JavaScript skills to a higher level. You will learn how to build large, well-structured, high quality, mobile-optimized web sites and apps, using the latest supported browser APIs, language features, and tools. This book teaches and shows you in practical hands-on terms how you can: Master the performance, reliability, stability, and code manageability of your JavaScript Understand and write efficient object-oriented and prototypal code, including full understanding of the 'this' keyword Boost the performance

of your JavaScript code Architect large web applications using common design patterns Write high quality JavaScript code and avoid the pitfalls most likely to cause errors Manage code dependencies with AMD and RequireJS Develop for mobile, build games, and set up a real-time video chat using modern APIs such as Geolocation, Canvas and WebRTC Document your code as the professionals do Write command-line and web server applications in JavaScript with Node.js, Use build tools, such as Grunt and Gulp, to automate repetitive tasks and improve your development workflow Using real-world examples and applications that you'll build yourself, Pro JavaScript Development has unique, practical content that will make you a better JavaScript developer. Become a master of the latest JavaScript coding techniques and tools, and harness its best capabilities today.

Hacking Android - Srinivasa Rao Kotipalli 2016-07-28
Explore every nook and cranny of the Android OS to modify your device and guard it against security threats About This Book Understand and counteract against offensive security threats to your applications Maximize your device's power and potential to suit your needs and curiosity See exactly how your smartphone's OS is put together (and where the seams are) Who This Book Is For This book is for anyone who wants to learn about Android security. Software developers, QA professionals, and beginner- to intermediate-level security professionals will find this book helpful. Basic knowledge of Android programming would be a plus. What You Will Learn Acquaint yourself with the fundamental building blocks of Android Apps in the right way Pentest Android apps and perform various attacks in the real world using real case studies Take a look at how your personal data can be stolen by malicious attackers Understand the offensive maneuvers that hackers use Discover how to defend against threats Get to know the basic concepts of Android rooting See how developers make mistakes that allow attackers to steal data from phones Grasp ways to secure your Android apps and devices Find out how remote attacks are possible on Android devices In Detail With the mass explosion of Android mobile phones in the world, mobile devices have become an integral part of our

everyday lives. Security of Android devices is a broad subject that should be part of our everyday lives to defend against ever-growing smartphone attacks. Everyone, starting with end users all the way up to developers and security professionals should care about android security. Hacking Android is a step-by-step guide that will get you started with Android security. You'll begin your journey at the absolute basics, and then will slowly gear up to the concepts of Android rooting, application security assessments, malware, infecting APK files, and fuzzing. On this journey you'll get to grips with various tools and techniques that can be used in your everyday pentests. You'll gain the skills necessary to perform Android application vulnerability assessment and penetration testing and will create an Android pentesting lab. Style and approach This comprehensive guide takes a step-by-step approach and is explained in a conversational and easy-to-follow style. Each topic is explained sequentially in the process of performing a successful penetration test. We also include detailed explanations as well as screenshots of the basic and advanced concepts.

Geospatial Data Science Quick Start Guide - Abdishakur Hassan 2019-05-31
Discover the power of location data to build effective, intelligent data models with Geospatial ecosystems Key FeaturesManipulate location-based data and create intelligent geospatial data modelsBuild effective location recommendation systems used by popular companies such as UberA hands-on guide to help you consume spatial data and parallelize GIS operations effectivelyBook Description Data scientists, who have access to vast data streams, are a bit myopic when it comes to intrinsic and extrinsic location-based data and are missing out on the intelligence it can provide to their models. This book demonstrates effective techniques for using the power of data science and geospatial intelligence to build effective, intelligent data models that make use of location-based data to give useful predictions and analyses. This book begins with a quick overview of the fundamentals of location-based data and how techniques such as Exploratory Data Analysis can be applied to it. We then delve into spatial operations such as computing distances,

areas, extents, centroids, buffer polygons, intersecting geometries, geocoding, and more, which adds additional context to location data. Moving ahead, you will learn how to quickly build and deploy a geo-fencing system using Python. Lastly, you will learn how to leverage geospatial analysis techniques in popular recommendation systems such as collaborative filtering and location-based recommendations, and more. By the end of the book, you will be a rockstar when it comes to performing geospatial analysis with ease. What you will learnLearn how companies now use location dataSet up your Python environment and install Python geospatial packagesVisualize spatial data as graphsExtract geometry from spatial dataPerform spatial regression from scratchBuild web applications which dynamically references geospatial dataWho this book is for Data Scientists who would like to leverage location-based data and want to use location-based intelligence in their data models will find this book useful. This book is also for GIS developers who wish to incorporate data analysis in their projects. Knowledge of Python programming and some basic understanding of data analysis are all you need to get the most out of this book.

HTML5 Geolocation - Anthony T. Holdener III 2011-05-24 Truly revolutionary: now you can write geolocation applications directly in the browser, rather than develop native apps for particular devices. This concise book demonstrates the W3C Geolocation API in action, with code and examples to help you build HTML5 apps using the "write once, deploy everywhere" model. Along the way, you get a crash course in geolocation, browser support, and ways to integrate the API with common geo tools like Google Maps. Ideal for experienced JavaScript developers. Learn how geo information is gathered from different sources, depending on the device Discover how coordinate systems work, including geodetic systems and datums Use the API to collect location information from a user's browser with JavaScript code Place geo information on a map using the Google Maps or ArcGIS JavaScript APIs Save geo data with databases, the Keyhole Markup Language, or the shapefile format Be familiar with several practical uses for geo data, such as geomarketing, geosocial, geotagging, and geo-applications

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 understanding of geospatial analysis and programming. What You Will Learn 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 in easy, extensible recipes revolving around all kinds of network analysis problems 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 previous recipes In Detail Geospatial development links your data to places on the Earth's surface. Its 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 analysis 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.

Locative Media - Rowan Wilken 2014-08-07
Not only is locative media one of the fastest growing areas in digital technology, but questions of location and location-awareness are increasingly central to our contemporary engagements with online and mobile media, and indeed media and culture generally. This volume is a comprehensive account of the various location-based technologies, services, applications, and cultures, as media, with an aim to identify, inventory, explore, and critique their cultural, economic, political, social, and policy dimensions internationally. In particular, the collection is organized around the perception that the growth of locative media gives rise to a number of crucial questions concerning the areas of culture, economy, and policy.

Introduction to Environmental Sciences - R S Khoiyangbam 2005-01-01
Environmental sciences is a vast and multidisciplinary science that involves the study of natural resources of land, water, and air. Introduction to Environmental Sciences comprehensively covers numerous aspects of this vast subject. While some chapters focus the causes of environmental problems, others discuss methods and ways of mitigating these causes.

ArcGIS for Desktop Cookbook - Daniela Cristiana Docan 2015-01-22
This book is a good companion to get you quickly acquainted with everything you need to increase your productivity with the ArcGIS Desktop. It would be helpful to have a bit of familiarity with basic GIS concepts. If you have no previous experience with ArcGIS, this book will still be helpful for you because it will help you catch up to the acquainted users from a practical point of view.

Geospatial Intelligence - Robert M. Clark 2020-09-01
A riveting introduction to the complex and evolving field of geospatial intelligence. Although geospatial intelligence is a term of recent origin, its underpinnings have a long and interesting history. Geospatial Intelligence: Origins and Evolution shows how the current age of geospatial knowledge evolved from its ancient origins to become ubiquitous in daily life across the globe. Within that framework, the book weaves a tapestry of stories about the people, events, ideas, and technologies that affected the trajectory of what has become known as GEOINT. Author Robert M. Clark explores the historical background and subsequent influence of fields such as geography, cartography, remote sensing, photogrammetry, geopolitics, geophysics, and geographic information systems on GEOINT. Although its modern use began in national security communities, Clark shows how GEOINT has rapidly extended its reach to other government agencies, NGOs, and corporations. This global explosion in the use of geospatial intelligence has far-reaching implications not only for the scientific, academic, and commercial communities but for a society increasingly reliant upon emerging technologies. Drones, the Internet of things, and cellular devices transform how we gather information and how others can collect that information, to our benefit or detriment.

Querying And Mining Uncertain Data Streams - Cheqing Jin 2016-05-24
Data uncertainty widely exists in many applications, and an uncertain data stream is a series of uncertain tuples that arrive rapidly. However, traditional techniques for deterministic data streams cannot be applied to deal with data uncertainty directly due to the exponential growth of possible solution space.This book provides a comprehensive overview of

the authors' work on querying and mining uncertain data streams. Its contents include some important discoveries dealing with typical topics such as top-k query, ER-Topk query, rarity estimation, set similarity, and clustering.Querying and Mining Uncertain Data Streams is written for professionals, researchers, and graduate students in data mining and its various related fields.

Geoprocessing with Python - Christine Garrard 2016-05-05
Summary Geoprocessing with Python teaches you how to use the Python programming language, along with free and open source tools, to read, write, and process geospatial data. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology This book is about the science of reading, analyzing, and presenting geospatial data programmatically, using Python. Thanks to dozens of open source Python libraries and tools, you can take on professional geoprocessing tasks without investing in expensive proprietary packages like ArcGIS and MapInfo. The book shows you how. About the Book Geoprocessing with Python teaches you how to access available datasets to make maps or perform your own analyses using free tools like the GDAL, NumPy, and matplotlib Python modules. Through lots of hands-on examples, you'll master core practices like handling multiple vector file formats, editing geometries, applying spatial and attribute filters, working with projections, and performing basic analyses on vector data. The book also covers how to manipulate, resample, and analyze raster data, such as aerial photographs and digital elevation models. What's Inside Geoprocessing from the ground up Read, write, process, and analyze raster data Visualize data with matplotlib Write custom geoprocessing tools Three additional appendixes available online About the Reader To read this book all you need is a basic knowledge of Python or a similar programming language. About the Author Chris Garrard works as a developer for Utah State University and teaches a graduate course on Python programming for GIS. Table of Contents Introduction Python basics Reading and writing vector data Working with different vector file formats Filtering data with OGR Manipulating geometries with OGR Vector analysis with OGR Using

spatial reference systems Reading and writing raster data Working with raster data Map algebra with NumPy and SciPy Map classification Visualizing data Appendixes A - Installation B - References C - OGR - online only D - OSR - online only E - GDAL - online only
Python for Finance Cookbook - Eryk Lewinson 2020-01-31
Solve common and not-so-common financial problems using Python libraries such as NumPy, SciPy, and pandas Key FeaturesUse powerful Python libraries such as pandas, NumPy, and SciPy to analyze your financial dataExplore unique recipes for financial data analysis and processing with PythonEstimate popular financial models such as CAPM and GARCH using a problem-solution approachBook Description Python is one of the most popular programming languages used in the financial industry, with a huge set of accompanying libraries. In this book, you'll cover different ways of downloading financial data and preparing it for modeling. You'll calculate popular indicators used in technical analysis, such as Bollinger Bands, MACD, RSI, and backtest automatic trading strategies. Next, you'll cover time series analysis and models, such as exponential smoothing, ARIMA, and GARCH (including multivariate specifications), before exploring the popular CAPM and the Fama-French three-factor model. You'll then discover how to optimize asset allocation and use Monte Carlo simulations for tasks such as calculating the price of American options and estimating the Value at Risk (VaR). In later chapters, you'll work through an entire data science project in the financial domain. You'll also learn how to solve the credit card fraud and default problems using advanced classifiers such as random forest, XGBoost, LightGBM, and stacked models. You'll then be able to tune the hyperparameters of the models and handle class imbalance. Finally, you'll focus on learning how to use deep learning (PyTorch) for approaching financial tasks. By the end of this book, you'll have learned how to effectively analyze financial data using a recipe-based approach. What you will learnDownload and preprocess financial data from different sourcesBacktest the performance of automatic trading strategies in a real-world settingEstimate financial econometrics models in Python and interpret their resultsUse Monte Carlo simulations for a

variety of tasks such as derivatives valuation and risk assessmentImprove the performance of financial models with the latest Python librariesApply machine learning and deep learning techniques to solve different financial problemsUnderstand the different approaches used to model financial time series dataWho this book is for This book is for financial analysts, data analysts, and Python developers who want to learn how to implement a broad range of tasks in the finance domain. Data scientists looking to devise intelligent financial strategies to perform efficient financial analysis will also find this book useful. Working knowledge of the Python programming language is mandatory to grasp the concepts covered in the book effectively.

Building Web Applications with ArcGIS - Hussein Nasser 2014-11-19 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.

Learning Geospatial Analysis with Python - Joel Lawhead 2019-09-27 Learn the core concepts of geospatial data analysis for building actionable and insightful GIS applications Key FeaturesCreate GIS solutions using the new features introduced in Python 3.7Explore a range of GIS tools and libraries such as PostGIS, QGIS, and PROJLearn to automate geospatial analysis workflows using Python and JupyterBook Description Geospatial analysis is used in almost every domain you can think of, including defense, farming, and even medicine. With this systematic guide, you'll get started with geographic information system (GIS) and remote sensing analysis using the latest features in Python. This book will take you through GIS techniques, geodatabases, geospatial raster data, and much more using the latest built-in tools and libraries in Python 3.7. You'll learn everything you need to know about using software packages or APIs and generic algorithms that can be used for different situations. Furthermore, you'll learn how to apply simple Python GIS geospatial processes to a variety of problems, and work with remote sensing data. By the end of the book, you'll be able to build a

generic corporate system, which can be implemented in any organization to manage customer support requests and field support personnel. What you will learnAutomate geospatial analysis workflows using PythonCode the simplest possible GIS in just 60 lines of PythonCreate thematic maps with Python tools such as PyShp, OGR, and the Python Imaging LibraryUnderstand the different formats that geospatial data comes inProduce elevation contours using Python toolsCreate flood inundation modelsApply geospatial analysis to real-time data tracking and storm chasingWho this book is for This book is for Python developers, researchers, or analysts who want to perform geospatial modeling and GIS analysis with Python. Basic knowledge of digital mapping and analysis using Python or other scripting languages will be helpful.

Android Recipes - Jeff Friesen 2011-08-04 Android continues to be one of the leading mobile OS and development platforms driving today's mobile innovations and the apps ecosystem. Android appears complex, but offers a variety of organized development kits to those coming into Android with differing programming language skill sets. Android Recipes: A Problem-Solution Approach guides you step-by-step through a wide range of useful topics using complete and real-world working code examples. In this book, you'll start off with a recap of Android architecture and app fundamentals, and then get down to business and build an app with Google's Android SDK at the command line and Eclipse. Next, you'll learn how to accomplish practical tasks pertaining to the user interface, communications with the cloud, device hardware, data persistence, communications between applications, and interacting with Android itself. Finally, you'll learn how to leverage various libraries and Scripting Layer for Android (SL4A) to help you perform tasks more quickly, how to use the Android NDK to boost app performance, and how to design apps for performance, responsiveness, seamlessness, and more. Instead of abstract descriptions of complex concepts, in Android Recipes, you'll find live code examples. When you start a new project, you can consider copying and pasting the code and configuration files from this book, then modifying them for your own customization needs. This can save you a great deal of work over

creating a project from scratch!

Learn Algorithmic Trading - Sourav Ghosh 2019-11-07 Understand the fundamentals of algorithmic trading to apply algorithms to real market data and analyze the results of real-world trading strategies Key Features Understand the power of algorithmic trading in financial markets with real-world examples Get up and running with the algorithms used to carry out algorithmic trading Learn to build your own algorithmic trading robots which require no human intervention Book Description It's now harder than ever to get a significant edge over competitors in terms of speed and efficiency when it comes to algorithmic trading. Relying on sophisticated trading signals, predictive models and strategies can make all the difference. This book will guide you through these aspects, giving you insights into how modern electronic trading markets and participants operate. You'll start with an introduction to algorithmic trading, along with setting up the environment required to perform the tasks in the book. You'll explore the key components of an algorithmic trading business and aspects you'll need to take into account before starting an automated trading project. Next, you'll focus on designing, building and operating the components required for developing a practical and profitable algorithmic trading business. Later, you'll learn how quantitative trading signals and strategies are developed, and also implement and analyze sophisticated trading strategies such as volatility strategies, economic release strategies, and statistical arbitrage. Finally, you'll create a trading bot from scratch using the algorithms built in the previous sections. By the end of this book, you'll be well-versed with electronic trading markets and have learned to implement, evaluate and safely operate algorithmic trading strategies in live markets. What you will learn Understand the components of modern algorithmic trading systems and strategies Apply machine learning in algorithmic trading signals and strategies using Python Build, visualize and analyze trading strategies based on mean reversion, trend, economic releases and more Quantify and build a risk management system for Python trading strategies Build a backtester to run simulated trading strategies for improving the performance of your trading bot Deploy and incorporate trading strategies in the live market to maintain and improve profitability Who this book is for This book is for software engineers, financial traders, data analysts, and entrepreneurs. Anyone who wants to get started with algorithmic trading and understand how it works; and learn the components of a trading system, protocols and algorithms required for black box and gray box trading, and techniques for building a completely automated and profitable trading business will also find this book useful.

Information Security Handbook - Noor Zaman Jhanjhi 2022 This handbook provides a comprehensive collection of knowledge for emerging multidisciplinary research areas such as cybersecurity, IoT, Blockchain, Machine Learning, Data Science, and AI. This book brings together, in one resource, information security across multiple domains. Information Security Handbook addresses the knowledge for emerging multidisciplinary research. It explores basic and high-level concepts and serves as a manual for industry while also helping beginners to understand both basic and advanced aspects in security-related issues. The handbook explores security and privacy issues through the IoT ecosystem and implications to the real world and, at the same time, explains the concepts of IoT-related technologies, trends, and future directions. University graduates and postgraduates, as well as research scholars, developers, and end-users, will find this handbook very useful.

Python Business Intelligence Cookbook - Robert Dempsey 2015-12-22 Leverage the computational power of Python with more than 60 recipes that arm you with the required skills to make informed business decisions About This Book Want to minimize risk and optimize profits of your business? Learn to create efficient analytical reports with ease using this highly practical, easy-to-follow guide Learn to apply Python for business intelligence tasks—preparing, exploring, analyzing, visualizing and reporting—in order to make more informed business decisions using data at hand Learn to explore and analyze business data, and build business intelligence dashboards with the help of various insightful recipes Who This Book Is For This book is intended for data analysts, managers, and executives with a basic knowledge of Python, who now

want to use Python for their BI tasks. If you have a good knowledge and understanding of BI applications and have a "working" system in place, this book will enhance your toolbox. What You Will Learn Install Anaconda, MongoDB, and everything you need to get started with your data analysis Prepare data for analysis by querying cleaning and standardizing data Explore your data by creating a Pandas data frame from MongoDB Gain powerful insights, both statistical and predictive, to make informed business decisions Visualize your data by building dashboards and generating reports Create a complete data processing and business intelligence system In Detail The amount of data produced by businesses and devices is going nowhere but up. In this scenario, the major advantage of Python is that it's a general-purpose language and gives you a lot of flexibility in data structures. Python is an excellent tool for more specialized analysis tasks, and is powered with related libraries to process data streams, to visualize datasets, and to carry out scientific calculations. Using Python for business intelligence (BI) can help you solve tricky problems in one go. Rather than spending day after day scouring Internet forums for "how-to" information, here you'll find more than 60 recipes that take you through the entire process of creating actionable intelligence from your raw data, no matter what shape or form it's in. Within the first 30 minutes of opening this book, you'll learn how to use the latest in Python and NoSQL databases to glean insights from data just waiting to be exploited. We'll begin with a quick-fire introduction to Python for BI and show you what problems Python solves. From there, we move on to working with a predefined data set to extract data as per business requirements, using the Pandas library and MongoDB as our storage engine. Next, we will analyze data and perform transformations for BI with Python. Through this, you will gather insightful data that will help you make informed decisions for your business. The final part of the book will show you the most important task of BI—visualizing data by building stunning dashboards using Matplotlib, PyTables, and iPython Notebook. Style and approach This is a step-by-step guide to help you prepare, explore, analyze and report data, written in a conversational tone to make it easy to grasp. Whether you're new to BI or are looking for a better way to work, you'll find the knowledge and skills here to get your job done efficiently.

Android Programming Unleashed - B.M. Harwani 2012-12-14 Android Programming Unleashed is the most comprehensive and technically sophisticated guide to best-practice Android development with today's powerful new versions of Android: 4.1 (Jelly Bean) and 4.0.3 (Ice Cream Sandwich). Offering the exceptional breadth and depth developers have come to expect from the Unleashed series, it covers everything programmers need to know to develop robust, high-performance Android apps that deliver a superior user experience. Leading developer trainer Bintu Harwani begins with basic UI controls, then progresses to more advanced topics, finally covering how to develop feature rich Android applications that can access Internet-based services and store data. He illuminates each important SDK component through complete, self-contained code examples that show developers the most effective ways to build production-ready code. Coverage includes: understanding the modern Android platform from the developer's standpoint... using widgets, containers, resources, selection widgets, dialogs, and fragments... supporting actions and persistence... incorporating menus, ActionBars, content providers, and databases... integrating media and animations... using web, map, and other services... supporting communication via messaging, contacts, and emails... publishing Android apps, and much more.

Python Natural Language Processing Cookbook - Zhenya Antić 2021-03-19
Get to grips with solving real-world NLP problems, such as dependency parsing, information extraction, topic modeling, and text data visualization Key FeaturesAnalyze varying complexities of text using popular Python packages such as NLTK, spaCy, sklearn, and gensimImplement common and not-so-common linguistic processing tasks using Python librariesOvercome the common challenges faced while implementing NLP pipelinesBook Description Python is the most widely used language for natural language processing (NLP) thanks to its extensive tools and libraries for analyzing text and extracting computer-

usable data. This book will take you through a range of techniques for text processing, from basics such as parsing the parts of speech to complex topics such as topic modeling, text classification, and visualization. Starting with an overview of NLP, the book presents recipes for dividing text into sentences, stemming and lemmatization, removing stopwords, and parts of speech tagging to help you to prepare your data. You'll then learn ways of extracting and representing grammatical information, such as dependency parsing and anaphora resolution, discover different ways of representing the semantics using bag-of-words, TF-IDF, word embeddings, and BERT, and develop skills for text classification using keywords, SVMs, LSTMs, and other techniques. As you advance, you'll also see how to extract information from text, implement unsupervised and supervised techniques for topic modeling, and perform topic modeling of short texts, such as tweets. Additionally, the book shows you how to develop chatbots using NLTK and Rasa and visualize text data. By the end of this NLP book, you'll have developed the skills to use a powerful set of tools for text processing. What you will learnBecome well-versed with basic and advanced NLP techniques in PythonRepresent grammatical information in text using spaCy, and semantic information using bag-of-words, TF-IDF, and word embeddingsPerform text classification using different methods, including SVMs and LSTMsExplore different techniques for topic modeling such as K-means, LDA, NMF, and BERTWork with visualization techniques such as NER and word clouds for different NLP toolsBuild a basic chatbot using NLTK and RasaExtract information from text using regular expression techniques and statistical and deep learning toolsWho this book is for This book is for data scientists and professionals who want to learn how to work with text. Intermediate knowledge of Python will help you to make the most out of this book. If you are an NLP practitioner, this book will serve as a code reference when working on your projects.
Geospatial Data Science Techniques and Applications - Hassan A. Karimi 2017-10-24
Data science has recently gained much attention for a number of reasons, and among them is Big Data. Scientists (from almost all

disciplines including physics, chemistry, biology, sociology, among others) and engineers (from all fields including civil, environmental, chemical, mechanical, among others) are faced with challenges posed by data volume, variety, and velocity, or Big Data. This book is designed to highlight the unique characteristics of geospatial data, demonstrate the need to different approaches and techniques for obtaining new knowledge from raw geospatial data, and present select state-of-the-art geospatial data science techniques and how they are applied to various geoscience problems.
Mastering ArcGIS Server Development with JavaScript - Ken Doman 2015-09-18
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.