Community Experience Distilled

Mastering ArcGIS Server Development with JavaScript

Transform maps and raw data into full-fledged web mapping applications using the power of the ArcGIS JavaScript API and JavaScript libraries

Ken Doman

[PACKT]
PUBLISHING

Mastering Arcgis Server Development With Javascript

Silas Toms,Paul Crickard,Eric van Rees

Mastering Arcgis Server Development With Javascript:

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 **Building Web and Mobile ArcGIS Server Applications with JavaScript** Eric Pimpler,2014 An easy to follow tutorial this book uses a step by step approach with exercises designed to give you hands on 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   <u>Building Web and Mobile ArcGIS Server Applications with JavaScript</u> Eric Pimpler,Mark Lewin,2017-10-24 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   **Learning ArcGIS Pro** Tripp Corbin, GISP,2015-12-04 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 **A Research Guide to Cartographic Resources** Eva H. Dodsworth,2018-09-22 The interdisciplinary uses of traditional cartographic resources and modern GIS tools allow for the analysis and discovery of information across a wide spectrum of fields A Research Guide to Cartographic Resources navigates the numerous American and Canadian cartographic resources available in print and online offering researchers academics and students with information on how to locate and access the large variety of resources new and old Dozens of different cartographic materials are highlighted and summarized along with lists of map libraries and geospatial centers and related professional associations A Research Guide to Cartographic Resources consists of 18 chapters two appendices and a detailed index that includes place names and libraries structured in a manner consistent with most

reference guides including cartographic categories such as atlases dictionaries gazetteers handbooks maps plans GIS data and other related material Almost all of the resources listed in this guide are categorized by geography down to the county level making efficient work of the type of material required to meet the information needs of those interested in researching place specific cartographic related resources Additionally this guide will help those interested in not only developing a comprehensive collection in these subject areas but get an understanding of what materials are being collected and housed in specific map libraries geospatial centers and their related websites Of particular value are the sections that offer directories of cartographic and GIS libraries as well as comprehensive lists of geospatial datasets down to the county level This volume combines the traditional and historical collections of cartography with the modern applications of GIS based maps and geospatial datasets **Spatial Analytics with ArcGIS** Eric Pimpler,2017-04-26 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 **ArcPy and ArcGIS** Silas Toms,Dara O'Beirne,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 **Mastering ArcGIS Enterprise Administration** Chad Cooper,2017-10-27 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 **Mastering PostGIS** Dominik Mikiewicz,Michal Mackiewicz,Tomasz Nycz,2017-05-31 Write efficient GIS applications using PostGIS from data creation to data consumption About This Book Learn how you can use PostGIS for spatial data analysis and manipulation Optimize your queries and build custom functionalities for your GIS application A comprehensive guide with hands on examples to help you master PostGIS with ease Who This Book Is For If you are a GIS developer or analyst who wants to master PostGIS to build efficient scalable GIS applications this book is for you If you want to conduct advanced analysis of spatial data this book will also help you The book assumes that you have a working installation of PostGIS in place and have working experience with PostgreSQL What You Will Learn Refresh your knowledge of the PostGIS concepts and spatial databases Solve spatial problems with the use of SQL in real world scenarios Practical walkthroughs of application development examples using Postgis GeoServer and OpenLayers Extract transform and load your spatial data Expose data directly or through web services Consume your data in both desktop and web clients In Detail PostGIS is open source extension onf PostgreSQL object relational database system that allows GIS objects to be stored and allows querying for information and location services The aim of this book is to help you master the functionalities offered by PostGIS from data creation analysis and output to ETL and live edits The book begins with an overview of the key concepts related to spatial database systems and how it applies to Spatial RMDS You will learn to load different formats into your Postgres instance investigate the spatial nature of your raster data and finally export it using built in functionalities or 3th party tools for backup or representational purposes Through the course of this book you will be presented with many examples on how to interact with the database using JavaScript and Node js Sample web based applications interacting with backend PostGIS will also be presented throughout the book so you can get comfortable with the modern ways of consuming and modifying your spatial data Style and approach This book is a comprehensive guide covering all the concepts you need to master PostGIS Packed with hands

on examples tips and tricks even the most advanced concepts are explained in a very easy to follow manner Every chapter in the book does not only focus on how each task is performed but also why   Google Maps JavaScript API Cookbook Alper Dincer,Balkan Uraz,2013-12-26 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

Mastering Geospatial Analysis with Python Silas Toms,Paul Crickard,Eric van Rees,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   **ArcGIS Web Development** Rene Rubalcava,2014-11-11 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

Advance Arcgis Server Development With Javascript Derezios Zyne,2017-06-07 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 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 *Building ArcGIS Cross-platform Applications with JavaScript* Rene Rubalcava,2017 ArcGIS Server is the leading software for developing both web and mobile GIS applications The ArcGIS API for JavaScript is the preferred way of developing your custom applications for ArcGIS Server since it can be used for both web and mobile application development It s easy to use and doesn t require the use of a browser plugin Resource description page **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 Programming ArcGIS with Python Cookbook Eric Pimpler,2015-07-28 The book kicks off with the fundamentals of starting to use Python with ArcGIS followed by recipes on managing map documents and layers including how to find and fix broken data links in these files In the second part of the book you will learn to create custom geoprocessing tools and how to use the Attribute and Location tools to select specific features The third part of the book covers topics for advanced users including the REST

API and also teaches you how to use Python with ArcGIS Pro The book finishes with appendices covering how to automate Python scripts and the five things that should be at the back of every GIS programmer s mind *Introducing ArcGIS API 4 for JavaScript* Rene Rubalcava,2017-11-28 Learn to use the ArcGIS API 4 for JavaScript to build custom web mapping applications This book teaches you to easily create interactive displays of geographic information that you can use to tell stories and answer questions Version 4 of the ArcGIS API for JavaScript introduces new patterns and fundamental concepts including 3D mapping capabilities You will learn the fundamentals of using the API in order to get the most out of it Covering key concepts and how different components work together you will also learn how to take advantage of the Widget framework built into the API to build your own reusable widgets for your own ArcGIS JSAPI applications Including a series of samples you can use to leverage the API for your own applications Introducing ArcGIS API 4 for JavaScript helps you take your existing knowledge of JavaScript to a new level and add new features to your app libraries What You ll Learn Create both 2D and 3D custom web mapping applications Work with popups and custom widgets Leverage the ArcGIS platform in your applications Utilize custom visualizations Who This Book Is For Developers who need to learn the ArcGIS JSAPI for work or school Those with some JavaScript experience GIS or mapping experience is not required **Programming ArcGIS 10.1 with Python Cookbook** Eric Pimpler,2013-01-01 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 **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 *ArcGIS Blueprints* Eric Pimpler,2015-12-22 Explore the robust features of Python to create real world ArcGIS applications through exciting hands on projects About This Book Get to grips with the big world of Python add ins and wxPython in GUI development to implement their features in your application Integrate advanced Python libraries ArcPy mapping and data access module techniques to develop a mapping application Construct a top notch intermediate to advanced project by accessing ArcGIS Server and ArcGIS Online resources through the ArcGIS REST API using a project based approach Who This Book Is For If you have prior experience building simple apps with ArcGIS and now have a fancy for developing a more challenging and complex desktop application in ArcGIS then this book is ideal for you What You Will Learn Automate the creation of creative output data visualizations including maps charts and graphs Explore ways to use the ArcPy Mapping module and Data driven Pages to automate the creation of map books in your own project Develop applications that use the Plotly platform and library to create stunning charts and graphs that can be integrated into ArcGIS Desktop Build tools that access REST services and download data to a local geodatabase Design build and integrate advanced GUIs with wxPython

and ArcGIS Desktop in ArcGIS Get clued up about constructing applications that export data to Google Earth Pro to automate time consuming complex processes Maximize the access of ArcGIS Server and ArcGIS Online using the ArcGIS REST API with Python In Detail This book is an immersive guide to take your ArcGIS Desktop application development skills to the next level It starts off by providing detailed description and examples of how to create ArcGIS Desktop Python toolboxes that will serve as containers for many of the applications that you will build We provide several practical projects that involve building a local area community map and extracting wildfire data You will then learn how to build tools that can access data from ArcGIS Server using the ArcGIS REST API Furthermore we deal with the integration of additional open source Python libraries into your applications which will help you chart and graph advanced GUI development read and write JSON CSV and XML format data sources write outputs to Google Earth Pro and more Along the way you will be introduced to advanced ArcPy Mapping and ArcPy Data Access module techniques and use data driven Pages to automate the creation of map books Finally you will learn advanced techniques to work with video and social media feeds By the end of the book you will have your own desktop application without having spent too much time learning sophisticated theory Style and approach This is an easy to follow project based guide that guides you through the whole ArcGIS theme with practical real world examples and a systematic approach

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