

Eric Pimpler, Mark Lewin

Building Web and Mobile ArcGIS Server Applications with JavaScript

Second Edition

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



Packt

Building Web And Mobile Arcgis Server Applications With Javascript

Yi-Tong Ma



Building Web And Mobile Arcgis Server Applications With Javascript:

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

Building Web and Mobile ArcGIS Server Applications with JavaScript 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

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

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

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 Elasticsearch Server Rafał Kuć,Marek Rogozinski,2016-02-29 Leverage Elasticsearch to create a robust fast and flexible search solution with ease About This Book Boost the searching capabilities of your system through synonyms multilingual data handling nested objects and parent child documents Deep dive into the world of data aggregation and data analysis with Elasticsearch Explore a wide range of Elasticsearch modules that define the behavior of a cluster Who This Book Is For If you are a competent developer and want to learn about the great and exciting world of Elasticsearch then this book is for you No prior knowledge of Java or Apache Lucene is needed What You Will Learn Configure create and retrieve data from your indices Use an Elasticsearch query DSL to create a wide range of queries Discover the highlighting and geographical search features offered by Elasticsearch Find out how to index data that is not flat or data that has a relationship Exploit a prospective search to search for queries not documents Use the aggregations framework to get more from your data and improve your client s search experience Monitor your cluster state and health using the Elasticsearch API as well as third party monitoring solutions Discover how to properly set up Elasticsearch for various use cases In Detail Elasticsearch is a very fast and scalable open source search engine designed with distribution and cloud in mind complete with all the goodies that Apache Lucene has to offer Elasticsearch s schema free architecture allows developers to index and search unstructured content making it perfectly suited for both small projects and large big data warehouses even those with petabytes of unstructured data This book will guide you through the world of the most commonly used Elasticsearch server functionalities You ll start off by getting an understanding of the basics of Elasticsearch and its data indexing functionality Next you will see the querying capabilities of Elasticsearch followed by a through explanation of scoring and search relevance After this you will explore the aggregation and data analysis capabilities of Elasticsearch and will learn how cluster administration and scaling can be used to boost your application performance You ll find out how to use the friendly REST APIs and how to tune Elasticsearch to make the most of it By the end of this book you will have be able to create amazing search solutions as per your project s specifications Style and approach This step by step guide is full of screenshots and real world examples to take you on a journey through the wonderful world of full text search provided by Elasticsearch *Neo4j High Performance* Sonal Raj,2015-03-02 If you are a professional or enthusiast who has a basic understanding of graphs or has basic knowledge of Neo4j operations this is the book for you Although it is targeted at an advanced user base this book can be used by beginners as it touches upon the

basics So if you are passionate about taming complex data with the help of graphs and building high performance applications you will be able to get valuable insights from this book **ArcPy and ArcGIS - Geospatial Analysis with Python** Silas Toms,2015-02-26 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 *GameSalad Essentials* Miguel DeQuadros,2015-01-30 If you want to create your own game but don't know where to start this is the book for you Whether you've used GameSalad before or have prior game development experience or not you are sure to learn Imaging software experience such as Photoshop is good to have but art and assets are provided in the book's resources *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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Table of Contents Building Web And Mobile Arcgis Server Applications With Javascript

1. Understanding the eBook Building Web And Mobile Arcgis Server Applications With Javascript
 - The Rise of Digital Reading Building Web And Mobile Arcgis Server Applications With Javascript
 - Advantages of eBooks Over Traditional Books
2. Identifying Building Web And Mobile Arcgis Server Applications With Javascript
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Building Web And Mobile Arcgis Server Applications With Javascript
 - User-Friendly Interface

4. Exploring eBook Recommendations from Building Web And Mobile Arcgis Server Applications With Javascript
 - Personalized Recommendations
 - Building Web And Mobile Arcgis Server Applications With Javascript User Reviews and Ratings
 - Building Web And Mobile Arcgis Server Applications With Javascript and Bestseller Lists
5. Accessing Building Web And Mobile Arcgis Server Applications With Javascript Free and Paid eBooks
 - Building Web And Mobile Arcgis Server Applications With Javascript Public Domain eBooks
 - Building Web And Mobile Arcgis Server Applications With Javascript eBook Subscription Services
 - Building Web And Mobile Arcgis Server Applications With Javascript Budget-Friendly Options
6. Navigating Building Web And Mobile Arcgis Server Applications With Javascript eBook Formats
 - ePub, PDF, MOBI, and More
 - Building Web And Mobile Arcgis Server Applications With Javascript Compatibility with Devices
 - Building Web And Mobile Arcgis Server Applications With Javascript Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Building Web And Mobile Arcgis Server Applications With Javascript
 - Highlighting and Note-Taking Building Web And Mobile Arcgis Server Applications With Javascript
 - Interactive Elements Building Web And Mobile Arcgis Server Applications With Javascript
8. Staying Engaged with Building Web And Mobile Arcgis Server Applications With Javascript
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Building Web And Mobile Arcgis Server Applications With Javascript
9. Balancing eBooks and Physical Books Building Web And Mobile Arcgis Server Applications With Javascript
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Building Web And Mobile Arcgis Server Applications With Javascript
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Building Web And Mobile Arcgis Server Applications With Javascript
 - Setting Reading Goals Building Web And Mobile Arcgis Server Applications With Javascript
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Building Web And Mobile Arcgis Server Applications With Javascript
 - Fact-Checking eBook Content of Building Web And Mobile Arcgis Server Applications With Javascript
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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