# Building Web and Mobile ArcGIS Server Applications with JavaScript

*Eric Pimpler*

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**Building Web and Mobile ArcGIS Server Applications with JavaScript** Eric Pimpler
**Master the ArcGIS API for JavaScript, and build exciting, custom web and mobile GIS applications with the ArcGIS Server**

## About This Book

- Develop ArcGIS Server applications with JavaScript, both for traditional web browsers as well as the mobile platform
- Acquire in-demand GIS skills sought by many employers
- Step-by-step instructions, examples, and hands-on practice designed to help you learn the key features and design considerations for building custom ArcGIS Server applications

## 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

- Create maps on a web page and add dynamic and tiled layers
- Add graphics to maps
- Use feature layers to render features in the browser
- Incorporate widgets and toolbars that provide specific functionality to your application
- Perform spatial and attribute queries
- Access geoprocessing tasks including models
- Geocode and reverse geocode addresses
- Develop mobile GIS applications
- Conduct network analysis

## In Detail

ArcGIS Server is the leading software for developing both web and mobile GIS applications. There are a number of programming languages that you can use to develop applications with ArcGIS Server including JavaScript, Flex, and Silverlight. However, 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.

This tutorial-based guide provides you with hands-on experience in developing custom web and mobile ArcGIS Server applications with step-by-step style exercises. Along with introducing you to the HTML/CSS/JavaScript technology stack, you will learn to add intuitive geographic layers of information to

your map, interactive query and display of spatial data, add user interface widgets, access geoprocessing tasks, and many more in your own web and mobile GIS applications.

With this practical, hands-on guide, you will be able to develop fully-functional online GIS applications with ArcGIS Server using the ArcGIS API for JavaScript. After creating your own map, you will explore how to add geographic layers from a variety of sources including tiled and dynamic map services, add graphics to the map, and stream geographic features to the browser using a FeatureLayer.

Most applications include the specific functionalities implemented by ArcGIS Server as tasks. You'll learn how to use the various tasks provided by ArcGIS Server including spatial and attribute queries, identification of features, finding features by attribute, and more. Geocoding and geoprocessing tasks are covered in-depth to help you accomplish your task in GIS. Finally, you'll learn just how easy it is to integrate ArcGIS.com content into your custom developed applications.

This comprehensive guide quickly advances through probing programmatic techniques for building web and mobile GIS applications which will make application development a lot easier!

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