

Contents

Preface	ix
Acknowledgments	xiii
System requirements	xv
Chapter 1 Start with the cloud: Build web apps using ArcGIS Online	1
1.1 Create an ArcGIS Online account	9
1.2 Prepare your data	13
1.3 Create a web map	16
1.4 Create a web app using a template	19
1.5 Configure your web app	24
1.6 Share your web app	33
Chapter 2 More on ArcGIS Online layers, maps, and apps	39
2.1 Map CSV data using geocoding	43
2.2 Edit data in the map viewer	47
2.3 Change layer symbols	50
2.4 Configure layer pop-up windows	54
2.5 Add images and charts to pop-up windows	58
2.6 Add a layer by search	63
2.7 Create and configure your web app	66
Chapter 3 Map services and time animation	77
3.1 Connect to your GIS server	84
3.2 Author your map document	87
3.3 Enable time on your map layers	93
3.4 Publish your map as a service	96
3.5 Explore your service using Services Directory	102
3.6 Add a map service to a web map and configure time	107
3.7 Build a time animation web app	111
Chapter 4 Cached map services and comparison web apps	121
4.1 Configure a data store	129
4.2 Author a map for tiling	132
4.3 Publish a tiled map service	135
4.4 Check the tiles and test your service	142
4.5 Create a side-by-side comparison web app	145
4.6 Administer your web services	152

Chapter 5	Feature services and volunteered geographic information	159
5.1	Create an ArcGIS Online for Organizations publisher account	164
5.2	Prepare your data	167
5.3	Publish a hosted feature service	168
5.4	Define feature templates	172
5.5	Create a web map and define editable fields	180
5.6	Create a web app for VGI collection	181
Chapter 6	Web AppBuilder for ArcGIS	193
6.1	Access Web AppBuilder	198
6.2	Create a basic web app	199
6.3	Configure additional widgets	207
6.4	Deploy your application	220
Chapter 7	Spatial analytics online and geoprocessing services	225
7.1	Design a geoprocessing model	233
7.2	Run the model	240
7.3	Publish the results as a geoprocessing service	244
7.4	Explore your geoprocessing service in the Services Directory	249
7.5	Use your GP service in Web AppBuilder for ArcGIS	253
Chapter 8	Getting started with ArcGIS API for JavaScript	263
8.1	Build your first app	272
8.2	Adapt a sample	273
8.3	Deploy your app to your web server	281
8.4	Debug JavaScript, monitor HTTP traffic, and inspect elements	284
8.5	Add dijits to your web app	293
8.6	Select features from a feature layer	301
Chapter 9	Mobile GIS	313
9.1	Prepare your web map (optional)	319
9.2	Collect points using Collector for ArcGIS	320
9.3	Stream lines and polygons using Collector	328
9.4	Explore JavaScript API mobile samples	334
9.5	Install the ArcGIS for Android Eclipse plug-in	336
9.6	Getting started with ArcGIS Runtime SDK for Android	339
9.7	Adapt a Runtime Android SDK sample	346

Chapter 10	3D web apps	355
10.1	Build essential skills	358
10.2	Explore basic polygonal modeling	358
10.3	Publish web scenes	358
Appendix A:	Image credits	361
Appendix B:	Data credits	375
Appendix C:	Server data credits	377