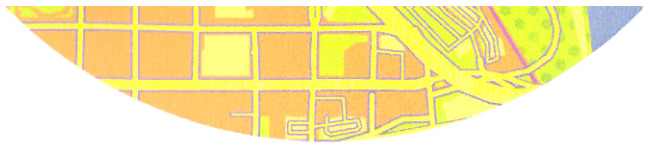

CONTENTS

Acknowledgments ix
Introduction xi
How to use this book xiii

1 Exploring ArcGIS® Online basics 1
Introduction 1
Tutorial 1-1: Start with a map 2
Tutorial 1-2: Tour ArcGIS Online in detail 10
Summary 12

2 Using tables and smart mapping 13
Introduction 13
Tutorial 2-1: Use tables to work with layers 14
Tutorial 2-2: Style a map using smart mapping 19
Summary 25

3 Creating layers 26
Introduction 26
Tutorial 3-1: Create your own layers 27
Tutorial 3-2: Configure item details and settings 36
Summary 38

4 Configuring layer pop-ups 40
Introduction 40
Tutorial 4-1: Configure pop-ups and format pop-up elements 41
Summary 54

5 Applying cartography to a web map 55
Introduction 55
Tutorial 5-1: Use cartographic techniques to enhance a web map 56
Summary 73

6 Creating a scene and exploring 3D visualization 74
Introduction 74
Tutorial 6-1: Tour a scene and make it your own 76
Tutorial 6-2: Build and style a scene 84
Summary 90

7 Using ArcGIS Living Atlas of the World 91
Introduction 91
Tutorial 7-1: Explore the ArcGIS Living Atlas website and make a map 92
Tutorial 7-2: Create a map using Map Viewer and ArcGIS Living Atlas 99
Summary 103

8 Locating things and places 104
Introduction 104
Tutorial 8-1: Find by attribute and location 104
Tutorial 8-2: Create and analyze walkable transit stops 111
Summary 115

9 Creating and analyzing imagery 116
Introduction 116
Tutorial 9-1: Upload a satellite image and create a tiled imagery layer 117
Summary 128

10 Configuring charts 129
Introduction 129
Tutorial 10-1: Chart the table of a vehicle registration count 130
Tutorial 10-2: Map and chart the count of electric vehicles by state, normalized by population 136
Summary 144

11 Analyzing raster layers 145
Introduction 145
Tutorial 11-1: Calculate temperature statistics in US counties 146
Tutorial 11-2: Detect and extract features from imagery using deep learning 153
Summary 158

12 Analyzing feature layers 159
Introduction 159
Tutorial 12-1: Analyze locations and populations at risk 159
Tutorial 12-2: Analyze volcano shelter access in Hawaii 169
Summary 175

13 Adding a media layer 176
Introduction 176
Tutorial 13-1: Add a media layer, position it, and adjust its appearance 176
Summary 186

14 Creating forms 187
Introduction 187
Tutorial 14-1: Explore a configured form 188
Tutorial 14-2: Review the configured form 193
Summary 199

15 Creating a notebook 200
Introduction 200
Tutorial 15-1: Explore the basics of ArcGIS Notebooks 201
Tutorial 15-2: Explore ArcGIS Online content in a notebook 206
Summary 210

16 Preparing data with a notebook 211
Introduction 211
Tutorial 16-1: Prepare data for spatial analysis 212
Summary 225

17 Automating data integration workflows with ArcGIS Data Pipelines 226
Introduction 226
Tutorial 17-1: Create and modify a data pipeline 227
Summary 236

18 Joining a group and working with group content 237
Introduction 237
Tutorial 18-1: Explore the content in an existing group 238
Tutorial 18-2: Create a group and configure access 242
Summary 245

19 Sharing an app in ArcGIS Instant Apps 246
Introduction 246
Tutorial 19-1: Create and configure an app with Instant Apps 247
Summary 253

20 Sharing your story 254
Introduction 254
Tutorial 20-1: Share your work in ArcGIS StoryMaps 255
Summary 263