



Contents

Preface	vii
Chapter 1 Introducing GIS	1
Exercise 1a: Explore ArcGIS Online	13
Chapter 2 A first look at ArcGIS Pro	41
Exercise 2a: Learn some basics	43
Exercise 2b: Go beyond the basics	59
Exercise 2c: Experience 3D GIS.	69
Chapter 3 Exploring geospatial relationships	79
Exercise 3a: Extract part of a dataset.	82
Exercise 3b: Incorporate tabular data	90
Exercise 3c: Calculate data statistics	108
Exercise 3d: Connect spatial datasets	119
Chapter 4 Creating and editing spatial data	129
Exercise 4a: Build a geodatabase.	133
Exercise 4b: Create features	150
Exercise 4c: Modify features	164
Chapter 5 Facilitating workflows	181
Exercise 5a: Manage a repeatable workflow using tasks	184
Exercise 5b: Create a geoprocessing model.	198
Exercise 5c: Run a Python command and script tool	212

Chapter 6	Collaborative mapping	225
	Exercise 6a: Prepare a database for data collection.	227
	Exercise 6b: Prepare a map for data collection	237
	Exercise 6c: Collect data using Collector for ArcGIS	250
Chapter 7	Geoenabling your project	263
	Exercise 7a: Prepare project data.	266
	Exercise 7b: Geocode location data	276
	Exercise 7c: Use geoprocessing tools to analyze vector data	290
Chapter 8	Analyzing spatial and temporal patterns	309
	Exercise 8a: Create a kernel density map	312
	Exercise 8b: Perform a hot spot analysis	320
	Exercise 8c: Explore the results in 3D	336
	Exercise 8d: Animate the data	348
Chapter 9	Determining suitability	359
	Exercise 9a: Prepare project data.	363
	Exercise 9b: Derive new surfaces	376
	Exercise 9c: Create a weighted suitability model	390
Chapter 10	Presenting your project	401
	Exercise 10a: Apply detailed symbology.	404
	Exercise 10b: Label features	418
	Exercise 10c: Create a page layout.	427
	Exercise 10d: Share your project	441
	Image and data source credits.	449
	Glossary	453
	Task index	463