

Contents

	<i>Introduction</i>	xv
1	Telling Stories with Data	1
	More Than Numbers	2
	What to Look For	8
	Design	13
	Wrapping Up	20
2	Handling Data	21
	Gather Data	22
	Formatting Data	38
	Wrapping Up	52
3	Choosing Tools to Visualize Data	53
	Out-of-the-Box Visualization	54
	Programming	62
	Illustration	76
	Mapping	80
	Survey Your Options	88
	Wrapping Up	89
4	Visualizing Patterns over Time	91
	What to Look for over Time	92
	Discrete Points in Time	93
	Continuous Data	118
	Wrapping Up	132
5	Visualizing Proportions	135
	What to Look for in Proportions	136
	Parts of a Whole	136

	Proportions over Time	161
	Wrapping Up	178
6	Visualizing Relationships	179
	What Relationships to Look For	180
	Correlation	180
	Distribution	200
	Comparison	213
	Wrapping Up	226
7	Spotting Differences	227
	What to Look For	228
	Comparing across Multiple Variables	228
	Reducing Dimensions	258
	Searching for Outliers	265
	Wrapping Up	269
8	Visualizing Spatial Relationships	271
	What to Look For	272
	Specific Locations	272
	Regions	285
	Over Space and Time	302
	Wrapping Up	325
9	Designing with a Purpose	327
	Prepare Yourself	328
	Prepare Your Readers	330
	Visual Cues	334
	Good Visualization	340
	Wrapping Up	341
	<i>Index</i>	343