Learning Geospatial Analysis with Python - Second Edition

Joel Lawhead

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Learning Geospatial Analysis with Python - Second Edition Joel Lawhead

An effective guide to geographic information systems and remote sensing analysis using Python 3

About This Book

- Construct applications for GIS development by exploiting Python
- This focuses on built-in Python modules and libraries compatible with the Python Packaging Index distribution system—no compiling of C libraries necessary
- This practical, hands-on tutorial teaches you all about Geospatial analysis in Python

Who This Book Is For

If you are a Python developer, researcher, or analyst who wants to perform Geospatial, modeling, and GIS analysis with Python, then this book is for you. Familiarity with digital mapping and analysis using Python or another scripting language would be helpful but not required.

What You Will Learn

- Automate Geospatial analysis workflows using Python
- Code the simplest possible GIS in 60 lines of Python
- Create thematic maps with Python tools
- Become familiar with the various forms that geospatial data comes in
- Produce elevation contours using Python tools
- Create flood inundation models
- Apply Geospatial analysis to real-time data tracking and storm chasing

In Detail

Geospatial Analysis is used in almost every field you can think of from medicine, to defense, to farming. This book will guide you through this exciting and complex field.

We start by giving you a little background on the field and a survey of the techniques and technology used. We then split the field into its component areas: GIS, remote sensing, elevation data, advanced modeling, and real-time data. This book will teach you everything you need to know about Geospatial Analysis, from using a particular software package or API to using generic algorithms that can be applied to any problem. This book focuses on pure Python whenever possible to minimize compiling platform-dependent binaries, so that you don't become bogged down in preparing for analysis. This book will complete your technical library through handy recipes that will give you a good understanding of a field that supplements many modern day human endeavors.

Style and approach

This is a practical, hands-on tutorial that teaches you all about Geospatial analysis interactively using Python.

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