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*Explore GIS processing and
learn to work with various*

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***tools and libraries in
Python. Key Features
Analyze and process
geospatial data using
Python libraries such as;
Anaconda, GeoPandas
Leverage new ArcGIS API to***

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*process geospatial data
for the cloud. Explore
various Python geospatial
web and machine learning
frameworks. Book
Description Python comes
with a host of open source*

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libraries and tools that help you work on professional geoprocessing tasks without investing in expensive tools. This book will introduce Python developers, both new and

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*experienced, to a variety
of new code libraries that
have been developed to
perform geospatial
analysis, statistical
analysis, and data
management. This book will*

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use examples and code snippets that will help explain how Python 3 differs from Python 2, and how these new code libraries can be used to solve age-old problems in

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***geospatial analysis. You
will begin by
understanding what
geoprocessing is and
explore the tools and
libraries that Python 3
offers. You will then***

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*learn to use Python code
libraries to read and
write geospatial data. You
will then learn to perform
geospatial queries within
databases and learn PyQGIS
to automate analysis*

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within the QGIS mapping suite. Moving forward, you will explore the newly released ArcGIS API for Python and ArcGIS Online to perform geospatial analysis and create ArcGIS

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***Online web maps. Further,
you will deep dive into
Python Geospatial web
frameworks and learn to
create a geospatial REST
API. What you will learn
Manage code libraries and***

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***abstract geospatial
analysis techniques using
Python 3. Explore popular
code libraries that
perform specific tasks for
geospatial analysis.
Utilize code libraries for***

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***data conversion, data
management, web maps, and
REST API creation. Learn
techniques related to
processing geospatial data
in the cloud. Leverage
features of Python 3 with***

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geospatial databases such as PostGIS, SQL Server, and SpatiaLite. Who this book is for The audience for this book includes students, developers, and geospatial professionals

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***who need a reference book
that covers GIS data
management, analysis, and
automation techniques with
code libraries built in
Python 3.***

Provides information on

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*how to create custom maps
from tools available over
the Internet.*

*The authors are all
prominent experts in Open
Source GIS in Italy and,
in many cases, the*

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***international community.
They are all professionals
with involvement in
training and scientific
research and are highly
motivated by their common
goal of supporting Free***

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***Software. This is,
therefore, an innovative
undertaking in that it
provides the user with
immediate access to the
software tools and to the
numerous resources and***

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documents described in the text and available via the Internet. The first part of the book, which is divided into nine chapters, deals with describing reference systems and helping the

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user install the software packages on Microsoft, Apple, GNU/Linux operating systems. Subsequent chapters present the most important functionalities of well-known software,

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***such as QGIS and GRASS
GIS, and describe ways of
managing geographic data
using relational database
engines (Spatialite).
Next, a few examples and
applications in***

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***landscaping,
geomorphology, hydrology
and geology are presented
and the various online
resources where users may
obtain free help and
support are described.***The

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***book closes with a few
remarks on advanced
functionalities.***

***Map Librarianship
identifies basic
geoliteracy concepts and
enhances reference and***

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***instruction skills by
providing details on
finding, downloading,
delivering, and assessing
maps, remotely sensed
imagery, and other
geospatial resources and***

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***services, primarily from
trusted government
sources. By offering
descriptions of
traditional maps,
geographic information
systems (GIS), remote***

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*sensing, and other
geospatial technologies,
the book provides a timely
and practical guide for
the map and geospatial
librarian to blend
confidence in traditional*

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library skill sets.

***Includes rarely discussed
concepts of citing and
referencing maps and
geospatial data, fair use
and copyright Creates an
awareness and appreciation***

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*of existing print map
collections, while
building digital
stewardship with surrogate
map and aerial imagery
collections Provides an
introduction to the theory*

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***and applications of GIS,
remote sensing,
participatory neogeography
and neocartography
practices, and other
geospatial technologies
Includes a list of***

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*geospatial resources with
descriptions and
illustrations of commonly
used map types and
formats, online geospatial
data sources, and an
introduction to the most*

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***commonly used geospatial
software packages
available, on both desktop
and mobile platforms
QGIS for Hydrological
Applications - Second
Edition***

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Web Mapping Illustrated

***Gis Open Source
Ethics and Practice
Geoprocessing with Python
An Introduction to Spatial
Data Analysis***

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This book presents a new type of modeling environment where users interact with geospatial simulations using 3D physical models of studied landscapes. Multiple users can alter the physical model by hand during

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scanning, thereby providing input for simulation of geophysical processes in this setting. The authors have developed innovative techniques and software that couple this hardware with open

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source GRASS GIS, making the system instantly applicable to a wide range of modeling and design problems. Since no other literature on this topic is available, this Book fills a gap for this new technology that

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continues to grow. Tangible
Modeling with Open Source GIS
will appeal to advanced-level
students studying geospatial
science, computer science and
earth science such as landscape
architecture and natural

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resources. It will also benefit researchers and professionals working in geospatial modeling applications, computer graphics, hazard risk management, hydrology, solar energy, coastal and fluvial

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flooding, fire spread, landscape,
park design and computer
games.

A guide on how to assemble and
use an Open source GIS toolkit
explains how to select a
platform and the right tools,

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integrate them within a system,
and navigate through available
options.

Over the past few decades the
world has been organized
through the growth and
integration of geographic

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information systems (GIS) across public and private sector industries, agencies, and organizations. This has happened in a technological context that includes the widespread deployment of

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multiple digital mobile technologies, digital wireless communication networks, positioning, navigation and mapping services, and cloud-based computing, spawning new ways of imagining,

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creating, and consuming
geospatial information and
analytics. GIS: An Introduction
to Mapping Technologies is
written with the detached
voices of practitioner scholars
who draw on a diverse set of

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experiences and education, with a shared view of GIS that is grounded in the analysis of scale-diverse contexts emphasizing cities and their social and environmental geographies. GIS is presented as a critical toolset

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that allows analysts to focus on urban social and environmental sustainability. The book opens with chapters that explore foundational techniques of mapping, data acquisition and field data collection using GNSS,

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georeferencing, spatial analysis, thematic mapping, and data models. It explores web GIS and open source GIS making geospatial technology available to many who would not be able to access it otherwise. Also, the

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book covers in depth the integration of remote sensing into GIS, Health GIS, Digital Humanities GIS, and the increased use of GIS in diverse types of organizations. Active learning is emphasized with

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ArcGIS Desktop lab activities integrated into most of the chapters. Written by experienced authors from the Department of Geography at DePaul University in Chicago, this textbook is a great

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introduction to GIS for a diverse range of undergraduates and graduate students, and professionals who are concerned with urbanization, economic justice, and environmental sustainability.

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Spatial Modeling in GIS and R for Earth and Environmental Sciences offers an integrated approach to spatial modelling using both GIS and R. Given the importance of Geographical Information Systems and

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geostatistics across a variety of applications in Earth and Environmental Science, a clear link between GIS and open source software is essential for the study of spatial objects or phenomena that occur in the

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real world and facilitate
problem-solving. Organized into
clear sections on applications
and using case studies, the book
helps researchers to more
quickly understand GIS data and
formulate more complex

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conclusions. The book is the first reference to provide methods and applications for combining the use of R and GIS in modeling spatial processes. It is an essential tool for students and researchers in earth and

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environmental science,
especially those looking to
better utilize GIS and spatial
modeling. Offers a clear,
interdisciplinary guide to serve
researchers in a variety of fields,
including hazards, land

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surveying, remote sensing,
cartography, geophysics,
geology, natural resources,
environment and geography
Provides an overview, methods
and case studies for each
application Expresses concepts

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and methods at an appropriate
level for both students and new
users to learn by example
Open Source Geographic
Information System
Introduction to QGIS
The Geospatial Desktop

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A Primer on Making Informative
and Compelling Figures

An Introduction to Mapping
Technologies

Open Source GIS

Desktop GIS

This book focuses on the

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***use of open source
software for geospatial
analysis. It demonstrates
the effectiveness of the
command line interface
for handling both vector,
raster and 3D geospatial***

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data. Appropriate open-source tools for data processing are clearly explained and discusses how they can be used to solve everyday tasks. A series of fully worked

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***case studies are
presented including
vector spatial analysis,
remote sensing data
analysis, landcover
classification and LiDAR
processing. A hands-on***

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***introduction to the
application programming
interface (API) of
GDAL/OGR in Python/C++
is provided for readers
who want to extend
existing tools and/or***

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***develop their own
software.***

***Learn the core concepts
of geospatial data
analysis for building
actionable and insightful
GIS applications Key***

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***Create GIS
solutions using the new
features introduced in
Python 3.7 Explore a
range of GIS tools and
libraries such as PostGIS,
QGIS, and PROJ Learn to***

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***automate geospatial
analysis workflows using
Python and JupyterBook
Description Geospatial
analysis is used in almost
every domain you can
think of, including***

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***defense, farming, and
even medicine. With this
systematic guide, you'll
get started with
geographic information
system (GIS) and remote
sensing analysis using***

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***the latest features in
Python. This book will
take you through GIS
techniques,
geodatabases, geospatial
raster data, and much
more using the latest***

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***built-in tools and libraries
in Python 3.7. You'll learn
everything you need to
know about using
software packages or
APIs and generic
algorithms that can be***

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***used for different
situations. Furthermore,
you'll learn how to apply
simple Python GIS
geospatial processes to a
variety of problems, and
work with remote sensing***

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***data. By the end of the
book, you'll be able to
build a generic corporate
system, which can be
implemented in any
organization to manage
customer support***

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**requests and field
support personnel. What
you will learnAutomate
geospatial analysis
workflows using
PythonCode the simplest
possible GIS in just 60**

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***lines of Python Create
thematic maps with
Python tools such as
PyShp, OGR, and the
Python Imaging
Library Understand the
different formats that***

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***geospatial data comes
inProduce elevation
contours using Python
toolsCreate flood
inundation modelsApply
geospatial analysis to
real-time data tracking***

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***and storm chasing Who
this book is for This book
is for Python developers,
researchers, or analysts
who want to perform
geospatial modeling and
GIS analysis with Python.***

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***Basic knowledge of
digital mapping and
analysis using Python or
other scripting languages
will be helpful.***

***This book contains
papers presented at the***

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***first Open Source
Geospatial Research
Symposium held in
Nantes City, France, 8-10
July, 2009. It brings
together insights and
ideas in the fields of***

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***Geospatial Information
and Geoinformatics. It
demonstrates the
scientific community
dynamism related to
open source and free
software as well as in***

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***defining new concepts,
standards or tools.
Effective visualization is
the best way to
communicate information
from the increasingly
large and complex***

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***datasets in the natural
and social sciences. But
with the increasing power
of visualization software
today, scientists,
engineers, and business
analysts often have to***

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***navigate a bewildering
array of visualization
choices and options. This
practical book takes you
through many commonly
encountered visualization
problems, and it provides***

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***guidelines on how to turn
large datasets into clear
and compelling figures.
What visualization type is
best for the story you
want to tell? How do you
make informative figures***

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***that are visually
pleasing? Author Claus O.
Wilke teaches you the
elements most critical to
successful data
visualization. Explore the
basic concepts of color as***

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***a tool to highlight,
distinguish, or represent
a value Understand the
importance of redundant
coding to ensure you
provide key information
in multiple ways Use the***

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***book's visualizations
directory, a graphical
guide to commonly used
types of data
visualizations Get
extensive examples of
good and bad figures***

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***Learn how to use figures
in a document or report
and how employ them
effectively to tell a
compelling story
Geocomputation with R
Land Reclamation and***

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***Restoration Strategies for
Sustainable Development
An Applied Guide for Geo-
spatial Analysis
Concepts, Methodologies,
Tools, and Applications
A Workbook for***

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***Classroom Or
Independent Study
Applications in Earth
Observation
Automating Open Source
Intelligence***

Land Reclamation and

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Restoration Strategies for
Sustainable Development:
Geospatial Technology Based
Approach, Volume Ten covers
spatial mapping, modeling and
risk assessment in land hazards
issues and sustainable

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management. Each section in the book explores state-of-art techniques using commercial, open source and statistical software for mapping and modeling, along with case studies that illustrate modern

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image processing techniques and computational algorithms. A special focus is given on recent trends in data mining techniques. This book will be of particular interest to students, researchers and professionals in

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the fields of earth science,
applied geography, and those in
the environmental sciences.

Demonstrates a geoinformatics
approach to data mining
techniques, data analysis,
modeling, risk assessment,

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visualization, and management strategies in different aspects of land use, hazards and reclamation Covers land contamination problems, including effects on agriculture, forestry, and coastal and

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wetland areas Suggests specific
techniques of remediation

Explores state-of-art techniques
based on commercial, open
source, and statistical software
for mapping and modeling using
modern image processing

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techniques and computational
algorithm

Addresses a range of analytical
techniques that are provided
within modern Geographic
Information Systems and related
geospatial software products.

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This guide covers: the principal concepts of geospatial analysis; core components of geospatial analysis; and, surface analysis, including surface form analysis, gridding and interpolation methods.

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Learning GIS Using Open Source
Software An Applied Guide for
Geo-spatial Analysis Taylor &
Francis

Step-by-step instructions are
included and the needs of a
beginner are totally satisfied by

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the book. The book consists of plenty of examples with accompanying screenshots and code for an easy learning curve. You are a web developer with knowledge of server side scripting, and have experience

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with installing applications on the server. You have a desire to want more than Google maps, by offering dynamically built maps on your site with your latest geospatial data stored in MySQL, PostGIS, MsSQL or Oracle. If this

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is the case, this book is meant
for you.

Public Policy Analytics

Mapping the Planet with Open
Source Tools

Learning ArcGIS Pro

A GRASS GIS Approach

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A Guide to Geoliteracy, Map and
GIS Resources and Services
GeoServer Beginner's Guide
Remote Sensing and GIS with
Open Source Software
Algorithms for Automating
Open Source Intelligence

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(OSINT) presents information on the gathering of information and extraction of actionable intelligence from openly available sources, including news broadcasts, public repositories, and more recently,

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social media. As OSINT has applications in crime fighting, state-based intelligence, and social research, this book provides recent advances in text mining, web crawling, and other algorithms that have led

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to advances in methods that can largely automate this process. The book is beneficial to both practitioners and academic researchers, with discussions of the latest advances in applications, a

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coherent set of methods and processes for automating OSINT, and interdisciplinary perspectives on the key problems identified within each discipline. Drawing upon years of practical experience and

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using numerous examples,
editors Robert Layton, Paul
Watters, and a distinguished
list of contributors discuss
Evidence Accumulation
Strategies for OSINT, Named
Entity Resolution in Social

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Media, Analyzing Social Media
Campaigns for Group Size
Estimation, Surveys and
qualitative techniques in
OSINT, and Geospatial
reasoning of open data.

Presents a coherent set of

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methods and processes for
automating OSINT Focuses on
algorithms and applications
allowing the practitioner to get
up and running quickly Includes
fully developed case studies on
the digital underground and

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predicting crime through
OSINT Discusses the ethical
considerations when using
publicly available online data
Create, analyze, maintain, and
share 2D and 3D maps with the
powerful tools of ArcGIS Pro

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About This Book Visualize GIS data in 2D and 3D maps Create GIS projects for quick and easy access to data, maps, and analysis tools A practical guide that helps to import maps, globes, and scenes from

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ArcMap, ArcScene, or ArcGlobe
Who This Book Is For This book
is for anyone wishing to learn
how ArcGIS Pro can be used to
create maps and perform
geospatial analysis. It will be
especially helpful for those that

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have used ArcMap and
ArcCatalog in the past and are
looking to migrate to Esri's
newest desktop GIS solution.
Though previous GIS
experience is not required, you
must have a solid foundation

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using Microsoft Windows. It is also helpful if you understand how to manage folders and files within the Microsoft Windows environment. What You Will Learn Install ArcGIS Pro and assign Licenses to users in your

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organization Navigate and use
the ArcGIS Pro ribbon interface
to create maps and perform
analysis Create and manage
ArcGIS Pro GIS Projects Create
2D and 3D maps to visualize
and analyze data Author map

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layouts using cartographic tools
and best practices to show off
the results of your analysis and
maps Import existing map
documents, scenes, and globes
into your new ArcGIS Pro
projects quickly Create

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standardized workflows using
Tasks Automate analysis and
processes using ModelBuilder
and Python In Detail ArcGIS
Pro is Esri's newest desktop
GIS application with powerful
tools for visualizing,

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maintaining, and analyzing data. ArcGIS Pro makes use of the modern ribbon interface and 64-bit processing to increase the speed and efficiency of using GIS. It allows users to create amazing maps

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in both 2D and 3D quickly and easily. This book will take you from software installation to performing geospatial analysis. It is packed with how-to's for a host of commonly-performed tasks. You will start by learning

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how to download and install the software including hardware limitations and recommendations. Then you are exposed to the new Ribbon interface and how its smart design can make finding tools

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easier. After you are exposed to the new interface, you are walked through the steps to create a new GIS Project to provide quick access to project resources. With a project created, you will learn how to

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construct 2D and 3D maps including how to add layers, adjust symbology, and control labeling. Next you will learn how to access and use analysis tools to help you answer real-world questions. Lastly, you will

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learn how processes can be automated and standardized in ArcGIS Pro using Tasks, Models, and Python Scripts. This book will provide an invaluable resource for all those seeking to use ArcGIS Pro as

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their primary GIS application or for those looking to migrate from ArcMap and ArcCatalog. Style and approach This book includes detailed explanations of the GIS functionality and workflows in ArcGIS Pro. These

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are supported by easy-to-follow exercises that will help you gain an understanding of how to use ArcGIS Pro to perform a range of tasks.

The role open-source geospatial software plays in data handling

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within the spatial information technology industry is the overarching theme of the book. It also examines new tools and applications for those already using OS approaches to software development.

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Public Policy Analytics: Code & Context for Data Science in Government teaches readers how to address complex public policy problems with data and analytics using reproducible methods in R. Each of the eight

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chapters provides a detailed case study, showing readers: how to develop exploratory indicators; understand 'spatial process' and develop spatial analytics; how to develop 'useful' predictive analytics;

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how to convey these outputs to non-technical decision-makers through the medium of data visualization; and why, ultimately, data science and 'Planning' are one and the same. A graduate-level

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introduction to data science,
this book will appeal to
researchers and data scientists
at the intersection of data
analytics and public policy, as
well as readers who wish to
understand how algorithms will

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affect the future of government.

Spatial Modeling in GIS and R
for Earth and Environmental
Sciences

Open Source GIS: A GRASS GIS
Approach

Share geospatial data using

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Open Source standards

Geospatial Technology Based
Approach

Geospatial Power Tools

Code and Context for Data

Science in Government

Geospatial Free and Open

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Source Software in the 21st
Century

*Open Source GIS: A GRASS GIS
Approach was written for experienced
GIS users, who want to learn GRASS,
as well as for the Open Source
software users who are GIS*

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newcomers. Following the Open Source model of GRASS, the book includes links to sites where the GRASS system and on-line reference manuals can be downloaded and additional applications can be viewed. The project's website can be reached at <http://grass.itc.it> and a number of

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mirror sites worldwide. Open Source GIS: A GRASS GIS Approach, provides basic information about the use of GRASS from setting up the spatial database, through working with raster, vector and site data, to image processing and hands-on applications. This book also contains a brief

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*introduction to programming within
GRASS encouraging the new GRASS
development. The power of computing
within Open Source environment is
illustrated by examples of the GRASS
usage with other Open Source
software tools, such as GSTAT, R
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GRASS to MapServer. Open Source GIS: A GRASS GIS Approach is designed to meet the needs of a professional audience composed of researchers and practitioners in industry and graduate level students in Computer Science and Geoscience. Since the first edition of Open Source

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GIS: A GRASS GIS Approach was published in 2002, GRASS has undergone major improvements. This second edition includes numerous updates related to the new development; its text is based on the GRASS 5.3 version from December 2003. Besides changes related to

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GRASS 5.3 enhancements, the introductory chapters have been re-organized, providing more extensive information on import of external data. Most of the improvements in technical accuracy and clarity were based on valuable feedback from readers. Open Source GIS: A GRASS GIS Approach,

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Second Edition, provides updated information about the use of GRASS, including geospatial modeling with raster, vector, and site data, image processing, visualization, and coupling with other open source tools for geostatistical analysis and web applications. A brief introduction to

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*programming within GRASS
encourages new development. The
sample data set used throughout the
book has been updated and is
available on the GRASS web site. This
book also includes links to sites where
the GRASS software and on-line
reference manuals can be downloaded*

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The role of intelligence in US government operations has changed dramatically and is now more critical than ever to domestic security and foreign policy. This authoritative and highly researched book written by

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Jeffrey T. Richelson provides a detailed overview of America's vast intelligence empire, from its organizations and operations to its management structure. Drawing from a multitude of sources, including hundreds of official documents, The US Intelligence Community allows

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students to understand the full scope of intelligence organizations and activities, and gives valuable support to policymakers and military operations. The seventh edition has been fully revised to include a new chapter on the major issues confronting the intelligence community,

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including secrecy and leaks, domestic spying, and congressional oversight, as well as revamped chapters on signals intelligence and cyber collection, geospatial intelligence, and open sources. The inclusion of more maps, tables and photos, as well as electronic briefing books on the book's

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Web site, makes The US Intelligence Community an even more valuable and engaging resource for students.

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*features available in PostgreSQL 8.4
and provides tutorials.*

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book you'll learn about: The
QGIS interface Creating,
editing, and analyzing vector
data Working with raster
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server side scripting, have experience in installing applications on the server, and want to go beyond Google Maps by offering dynamically built maps on your site with your latest geospatial data

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to build custom maps using your data without the need for costly commercial software licenses and restrictions. Even if you do not have prior GIS knowledge, you will be able to make interactive maps after

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approach Step-by-step
instructions are included and
the needs of a beginner are
totally satisfied by the book.
The book consists of plenty of
examples with accompanying
screenshots and code for an

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easy learning curve.

This is a book about how ecologists can integrate remote sensing and GIS in their daily work. It will allow ecologists to get started with the application of remote

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sensing and to understand its potential and limitations.

Using practical examples, the book covers all necessary steps from planning field campaigns to deriving ecologically relevant

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information through remote sensing and modelling of species distributions. All practical examples in this book rely on OpenSource software and freely available data sets. Quantum GIS (QGIS)

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is introduced for basic GIS data handling, and in-depth spatial analytics and statistics are conducted with the software packages R and GRASS. Readers will learn how to apply remote sensing

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within ecological research projects, how to approach spatial data sampling and how to interpret remote sensing derived products. The authors discuss a wide range of statistical analyses with

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regard to satellite data as well as specialised topics such as time-series analysis. Extended scripts on how to create professional looking maps and graphics are also provided.

This book is a valuable

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resource for students and scientists in the fields of conservation and ecology interested in learning how to get started in applying remote sensing in ecological research and conservation planning.

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Emerging Trends in Open
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PostGIS in Action

Tool Up! Become a data

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management superstar with tools from the Geospatial Data Abstraction Library (GDAL). This book is a reference guide for quickly finding the right syntax and example usage

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of all GDAL/OGR commands.
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access library. GDAL comes with several powerful command line utilities including tools for examining, converting, transforming, building and analyzing raster and

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raster and vector data
management challenges!

This is a book about how
ecologists can integrate
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started with the application of remote sensing and to understand its potential and limitations. Using practical examples, the book covers all necessary

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steps from planning field campaigns to deriving ecologically relevant information through remote sensing and modelling of species distributions. An Introduction to Spatial

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Data Analysis introduces spatial data handling using the open source software Quantum GIS (QGIS). In addition, readers will be guided through their first steps

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in the R programming language. The authors explain the fundamentals of spatial data handling and analysis, empowering the reader to turn data acquired in the field into

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actual spatial data.

Readers will learn to process and analyse spatial data of different types and interpret the data and results. After finishing this book,

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readers will be able to address questions such as “What is the distance to the border of the protected area?”, “Which points are located close to a road?”, “Which

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fraction of land cover types exist in my study area?" using different software and techniques. This book is for novice spatial data users and does not assume any prior

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knowledge of spatial data
itself or practical
experience working with
such data sets. Readers
will likely include
student and professional
ecologists, geographers

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and any environmental
scientists or
practitioners who need to
collect, visualize and
analyse spatial data. The
software used is the
widely applied open source

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scientific programs QGIS
and R. All scripts and
data sets used in the book
will be provided online at
`book.ecosens.org`. This
book covers specific
methods including: what to

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consider before collecting
in situ data how to work
with spatial data
collected in situ the
difference between raster
and vector data how to
acquire further vector and

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raster data how to create
relevant environmental
information how to combine
and analyse in situ and
remote sensing data how to
create useful maps for
field work and

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presentations how to use
QGIS and R for spatial
analysis how to develop
analysis scripts

This book introduces the
usage, functionality, and
application of data in

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geographic information systems (GIS) for geospatial analysis. It offers knowledge on GIS tools and techniques and explains how they can be applied in real-world

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project to architects and planners in the Indian and the Greater South Asian context using open-source software. The volume explains concepts on planning and architectural

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tasks, their data, methods and requirements followed, and includes GIS-related exercises on the same tasks. It takes the reader through the concepts of geo-spatial analysis and

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its referencing system while quoting examples from India. Further, the content of the book will help the planners involved in preparing GIS-based master planning for cities

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under the Atal Mission for Rejuvenation and Urban Transformation (AMRUT) scheme (see Glossary for details). A practical guidebook providing a step-by-step guide to learn

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open source GIS, this book will be useful for students, scholars and professionals from the field of architecture and planning, geography and other spatial sciences,

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instructors of GIS courses
on planning and
architecture, urban and
regional planners,
transport planners, urban
design, landscape
architects, environmental

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planners, departments of town and country planning, and development authorities. It will also be useful for anyone interested in the geospatial analysis.

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Open access to information of geographic places and spatial relationships provides an essential part of the analytical processing of spatial data. Access to connected

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of study. While highlighting topics such as data warehousing, hydrological modeling, and software packages, this publication explores the assessment and techniques

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of open software
functionality and
interfaces. This book is
an important resource for
professionals,
researchers, academicians,
and students seeking

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current research on the different types and uses of data and data analysis in geographic information systems.

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**the current state of
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Edwards Ben Edwards was
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**the University of Durham,
achieving his BA, MA and
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work was for Archaeological
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**Archaeological Practice at
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where he taught for three
years. During this time Ben
began his project
management work,
undertaking both**

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commercial and research excavations, and survey projects. His teaching (archaeological practice and heritage management) proved to be an excellent basis from which to develop

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**his professional expertise.
Ben now lectures at
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**use in the field, and
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Andrew Wilson was trained
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**the University, Andrew
moved south to study
Computer Applied
Archaeology at the
University of Southampton,
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MSc. Andrew returned to**

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**the University of Liverpool
where he has recently
completed a PhD. During
this time Andrew
coordinated a number of
projects both in the UK and
Middle East, specialising in**

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advanced surveying

techniques of

archaeological remains.

Working in the the School

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different applications for
remote sensing image
processing, including
landcover mapping,**

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intelligence to build
effective, intelligent data
models that make use of
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**with a quick overview of the
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land governance strategies. Highlighting a range of topics such as geovisualization, spatial analysis, and landscape mapping"-- Geocomputation with R is for people who want to analyze, visualize and model geographic data with open source software. It is based on R, a statistical programming language that has powerful data processing,

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visualization, and geospatial capabilities. The book equips you with the knowledge and skills to tackle a wide range of issues manifested in geographic data, including those with scientific, societal, and environmental implications. This book will interest people from many backgrounds, especially Geographic Information Systems

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(GIS) users interested in applying their domain-specific knowledge in a powerful open source language for data science, and R users interested in extending their skills to handle spatial data. The book is divided into three parts: (I) Foundations, aimed at getting you up-to-speed with geographic data in R, (II) extensions, which covers

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advanced techniques, and (III) applications to real-world problems. The chapters cover progressively more advanced topics, with early chapters providing strong foundations on which the later chapters build. Part I describes the nature of spatial datasets in R and methods for manipulating them. It also covers geographic data import/export and

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transforming coordinate reference systems. Part II represents methods that build on these foundations. It covers advanced map making (including web mapping), "bridges" to GIS, sharing reproducible code, and how to do cross-validation in the presence of spatial autocorrelation. Part III applies the knowledge gained to tackle real-world

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problems, including representing and modeling transport systems, finding optimal locations for stores or services, and ecological modeling. Exercises at the end of each chapter give you the skills needed to tackle a range of geospatial problems. Solutions for each chapter and supplementary materials providing extended

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examples are available at <https://geocompr.github.io/geocompkg/articles/>. Dr. Robin Lovelace is a University Academic Fellow at the University of Leeds, where he has taught R for geographic research over many years, with a focus on transport systems. Dr. Jakub Nowosad is an Assistant Professor in the Department of Geoinformation at the Adam

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Mickiewicz University in Poznan, where his focus is on the analysis of large datasets to understand environmental processes. Dr. Jannes Muenchow is a Postdoctoral Researcher in the GIScience Department at the University of Jena, where he develops and teaches a range of geographic methods, with a focus on ecological modeling,

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statistical geocomputing, and predictive mapping. All three are active developers and work on a number of R packages, including stplanr, sabre, and RQGIS.

Summary Geoprocessing with Python teaches you how to use the Python programming language, along with free and open source tools, to read, write, and

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process geospatial data. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology This book is about the science of reading, analyzing, and presenting geospatial data programmatically, using Python. Thanks to dozens of open source Python libraries and

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tools, you can take on professional geoprocessing tasks without investing in expensive proprietary packages like ArcGIS and MapInfo. The book shows you how. About the Book Geoprocessing with Python teaches you how to access available datasets to make maps or perform your own analyses using free tools like the GDAL, NumPy, and

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matplotlib Python modules. Through lots of hands-on examples, you ' ll master core practices like handling multiple vector file formats, editing geometries, applying spatial and attribute filters, working with projections, and performing basic analyses on vector data. The book also covers how to manipulate, resample, and analyze raster

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data, such as aerial photographs and digital elevation models. What's Inside
Geoprocessing from the ground up Read, write, process, and analyze raster data
Visualize data with matplotlib Write custom geoprocessing tools Three additional appendixes available online About the Reader To read this book all you need is a

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basic knowledge of Python or a similar programming language. About the Author Chris Garrard works as a developer for Utah State University and teaches a graduate course on Python programming for GIS.

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- online only E - GDAL - online only

Open Source GIS & Mapping

Effective techniques for performing smarter
geospatial analysis using location intelligence