



Quick answers to common problems

Python Geospatial Analysis Cookbook

60 recipes to work with topology, overlays, indoor routing, and web application analysis with Python

Michael Diener

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Python Geospatial Analysis Cookbook Michael

**Michael John De Smith, Michael F.
Goodchild, Paul Longley**



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Python Geospatial Analysis Cookbook Michael Diener, 2015-11-30 Over 60 recipes to work with topology overlays indoor routing and web application analysis with Python About This Book Explore the practical process of using geospatial analysis to solve simple to complex problems with reusable recipes Concise step by step instructions to teach you about projections vector raster overlay indoor routing and topology analysis Create a basic indoor routing application with geodjango Who This Book Is For If you are a student teacher programmer geospatial or IT administrator GIS analyst researcher or scientist looking to do spatial analysis then this book is for you Anyone trying to answer simple to complex spatial analysis questions will get a working demonstration of the power of Python with real world data Some of you may be beginners with GIS but most of you will probably have a basic understanding of geospatial analysis and programming What You Will Learn Discover the projection and coordinate system information of your data and learn how to transform that data into different projections Import or export your data into different data formats to prepare it for your application or spatial analysis Use the power of PostGIS with Python to take advantage of the powerful analysis functions Execute spatial analysis functions on vector data including clipping spatial joins measuring distances areas and combining data to new results Create your own set of topology rules to perform and ensure quality assurance rules in Python Find the shortest indoor path with network analysis functions in easy extensible recipes revolving around all kinds of network analysis problems Visualize your data on a map using the visualization tools and methods available to create visually stunning results Build an indoor routing web application with GeoDjango to include your spatial analysis tools built from the previous recipes In Detail Geospatial development links your data to places on the Earth's surface Its analysis is used in almost every industry to answer location type questions Combined with the power of the Python programming language which is becoming the de facto spatial scripting choice for developers and analysts worldwide this technology will help you to solve real world spatial problems This book begins by tackling the installation of the necessary software dependencies and libraries needed to perform spatial analysis with Python From there the next logical step is to prepare our data for analysis we will do this by building up our tool box to deal with data preparation transformations and projections Now that our data is ready for analysis we will tackle the most common analysis methods for vector and raster data To check or validate our results we will explore how to use topology checks to ensure top quality results This is followed with network routing analysis focused on constructing indoor routes within buildings over different levels Finally we put several recipes together in a GeoDjango web application that demonstrates a working indoor routing spatial analysis application The round trip will provide you all the pieces you need to accomplish your own spatial analysis application to suit your requirements Style and approach Easy to follow step by step recipes explaining from start to finish how to accomplish real world tasks Effective Python Penetration Testing Rejah Rehim, 2016-06-29 Pen test your system like a pro and overcome vulnerabilities by leveraging Python scripts libraries and tools About This Book Learn to

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Artificial Intelligence with Python Prateek Joshi, 2017-01-27 Build real world Artificial Intelligence applications with Python to intelligently interact with the world around you About This Book Step into the amazing world of intelligent apps using this comprehensive guide Enter the world of Artificial Intelligence explore it and create your own applications Work through simple yet insightful examples that will get you up and running with Artificial Intelligence in no time Who This Book Is For This book is for Python developers who want to build real world Artificial Intelligence applications This book is friendly to Python beginners but being familiar with Python would be useful to play around with the code It will also be useful for experienced Python programmers who are looking to use Artificial Intelligence techniques in their existing technology stacks What You Will Learn Realize different classification and regression techniques Understand the concept of clustering and how to use it to automatically segment data See how to build an intelligent recommender system Understand logic programming and how to use it Build automatic speech recognition systems Understand the basics of heuristic search and genetic programming Develop games using Artificial Intelligence Learn how reinforcement learning works Discover how to build intelligent applications centered on images text and time series data See how to use deep learning algorithms and build applications based on it In Detail Artificial Intelligence is becoming increasingly relevant in the modern world where everything is driven by technology and data It is used extensively across many fields such as search engines image

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understanding of how computers work will be useful

Learning R for Geospatial Analysis Michael Dorman, 2014-12-26 This book is intended for anyone who wants to learn how to efficiently analyze geospatial data with R including GIS analysts researchers educators and students who work with spatial data and who are interested in expanding their capabilities through programming The book assumes familiarity with the basic geographic information concepts such as spatial coordinates but no prior experience with R and or programming is required By focusing on R exclusively you will not need to depend on any external software a working installation of R is all that is necessary to begin

Geocomputation with Python Michael Dorman, Anita Graser, Jakub Nowosad, Robin Lovelace, 2025-02-14 Geocomputation with Python is a comprehensive resource for working with geographic data with the most popular programming language in the world The book gives an overview of Python's capabilities for spatial data analysis as well as dozens of worked through examples covering the entire range of standard GIS operations A unique selling point of the book is its cohesive and joined up coverage of both vector and raster geographic data models and consistent learning curve This book is an excellent starting point for those new to working with geographic data with Python making it ideal for students and practitioners beginning their journey with Python Key features Showcases the integration of vector and raster datasets operations Provides explanation of each line of code in the book to minimize surprises Includes example datasets and meaningful operations to illustrate the applied nature of geographic research Another unique feature is that this book is part of a wider community Geocomputation with Python is a sister project of Geocomputation with R Lovelace Nowosad and Muenchow 2019 a book on geographic data analysis visualization and modeling using the R programming language that has numerous contributors and an active community The book teaches how to import process examine transform compute and export spatial vector and raster datasets with Python the most widely used language for data science and many other domains Reading the book and running the reproducible code chunks within will make you a proficient user of key packages in the ecosystem including shapely geopandas and rasterio The book also demonstrates how to make use of dozens of additional packages for a wide range of tasks from interactive map making to terrain modeling Geocomputation with Python provides a firm foundation for more advanced topics including spatial statistics machine learning involving spatial data and spatial network analysis and a gateway into the vibrant and supportive community developing geographic tools in Python and beyond

Geospatial Analysis Dr Michael J de Smith, Professor Michael F Goodchild, Professor Paul A Longley, 2018 Geospatial Analysis A Comprehensive Guide to Principles Techniques and Software Tools originated as material to accompany the spatial analysis module of MSc programmes at University College London delivered by the principal author Dr Mike de Smith The project was discussed with Professors Longley and Goodchild They kindly agreed to contribute to the contents of the Guide itself As such this Guide may be seen as a companion to the pioneering book on Geographic Information Systems and Science now changed to Science and Systems by Longley Goodchild Maguire and Rhind particularly the chapters that deal with spatial analysis and modeling

Their participation has also facilitated links with broader spatial literacy and spatial analysis programmes. Notable amongst these are the GIS T Body of Knowledge materials provided by the Association of American Geographers together with the spatial educational programmes provided through UCL and UCSB. The formats in which this Guide has been published have proved to be extremely popular, encouraging us to seek to improve and extend the material and associated resources further. Many academics and industry professionals have provided helpful comments on previous editions and universities in several parts of the world have now developed courses which make use of the Guide and the accompanying resources. Workshops based on these materials have been run in Ireland, the USA, East Africa, Italy and Japan, and a Chinese version of the Guide 2nd ed. has been published by the Publishing House of Electronics Industry, Beijing, PRC (www.phei.com.cn) in 2009. A Chinese version of this 6th edition is due to be published in 2021 by Science Press.

Python Geospatial Analysis Essentials Erik Westra, 2015-06-23. Python is a highly expressive language that makes it easy to write sophisticated programs. Combining high quality geospatial data with Python geospatial libraries will give you a powerful toolkit for solving a range of geospatial programming tasks. The book begins with an introduction to geospatial analysis and programming and explains the ideas behind geospatial data. You will explore Python libraries for building your own geospatial applications. You will learn to create a geospatial database for your application using PostGIS and the `psycpg2` library and see how the `Mapnik` library can be used to create attractive and useful maps. Finally, you will learn to use the `Shapely` and `NetworkX` libraries to create, analyze and manipulate complex geometric objects before implementing a system to match GPS recordings against a database of roads to produce a heatmap of the most frequently used roads.

Mastering Python Forensics Dr. Michael Spreitzenbarth, Dr. Johann Uhrmann, 2015-10-30. Master the art of digital forensics and analysis with Python. About This Book: Learn to perform forensic analysis and investigations with the help of Python and gain an advanced understanding of the various Python libraries and frameworks. Analyze Python scripts to extract metadata and investigate forensic artifacts. The writers, Dr. Michael Spreitzenbarth and Dr. Johann Uhrmann, have used their experience to craft this hands-on guide to using Python for forensic analysis and investigations. Who This Book Is For: If you are a network security professional or forensics analyst who wants to gain a deeper understanding of performing forensic analysis with Python, then this book is for you. Some Python experience would be helpful. What You Will Learn: Explore the forensic analysis of different platforms such as Windows, Android, and vSphere. Semi-automatically reconstruct major parts of the system activity and time line. Leverage Python ctypes for protocol decoding. Examine artifacts from mobile, Skype, and browsers. Discover how to utilize Python to improve the focus of your analysis. Investigate in volatile memory with the help of volatility on the Android and Linux platforms. In Detail: Digital forensic analysis is the process of examining and extracting data digitally and examining it. Python has the combination of power, expressiveness and ease of use that makes it an essential complementary tool to the traditional off-the-shelf digital forensic tools. This book will teach you how to perform forensic analysis and investigations by exploring

the capabilities of various Python libraries The book starts by explaining the building blocks of the Python programming language especially ctypes in depth along with how to automate typical tasks in file system analysis common correlation tasks to discover anomalies as well as templates for investigations Next we ll show you cryptographic algorithms that can be used during forensic investigations to check for known files or to compare suspicious files with online services such as VirusTotal or Mobile Sandbox Moving on you ll learn how to sniff on the network generate and analyze network flows and perform log correlation with the help of Python scripts and tools You ll get to know about the concepts of virtualization and how virtualization influences IT forensics and you ll discover how to perform forensic analysis of a jailbroken rooted mobile device that is based on iOS or Android Finally the book teaches you how to analyze volatile memory and search for known malware samples based on YARA rules Style and approach This easy to follow guide will demonstrate forensic analysis techniques by showing you how to solve real word scenarios step by step

Geospatial Analysis Michael John De Smith, Michael F. Goodchild, Paul Longley, 2007 Addresses a range of analytical techniques that are provided within modern Geographic Information Systems and related geospatial software products 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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