



Quick answers to common problems

PostGIS Cookbook

Over 80 task-based recipes to store, organize, manipulate,
and analyze spatial data in a PostGIS database

Paolo Corti
Thomas J Kraft

Stephen Vincent Mather
Bborie Park

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PUBLISHING community experience distilled

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PostGIS Cookbook Paolo Corti, Thomas J. Kraft, Stephen Vincent Mather, Bborie Park, 2014-02-07 An easy to use guide full of hands on recipes for manipulating spatial data in a PostGIS database Each topic is explained and placed in context and for the more inquisitive there are more details of the concepts used If you are a web developer or a software architect especially in location based companies and want to expand the range of techniques you are using with PostGIS then this book is for you You should have some prior experience with PostgreSQL database and spatial concepts

PostGIS Cookbook Mayra Zurbarán, Thomas Kraft, Stephen Vincent Mather, Bborie Park, Pedro Wightman, 2018-03-28 Create and manage spatial data with PostGIS Key Features Import and export geographic data from the PostGIS database using the available tools Maintain optimize and fine tune spatial data for long term viability Utilize the parallel support functionality that was introduced in PostgreSQL 9.6 Book Description PostGIS is a spatial database that integrates the advanced storage and analysis of vector and raster data and is remarkably flexible and powerful PostGIS provides support for geographic objects to the PostgreSQL object relational database and is currently the most popular open source spatial databases If you want to explore the complete range of PostGIS techniques and expose related extensions then this book is for you This book is a comprehensive guide to PostGIS tools and concepts which are required to manage manipulate and analyze spatial data in PostGIS It covers key spatial data manipulation tasks explaining not only how each task is performed but also why It provides practical guidance allowing you to safely take advantage of the advanced technology in PostGIS in order to simplify your spatial database administration tasks Furthermore you will learn to take advantage of basic and advanced vector raster and routing approaches along with the concepts of data maintenance optimization and performance and will help you to integrate these into a large ecosystem of desktop and web tools By the end you will be armed with all the tools and instructions you need to both manage the spatial database system and make better decisions as your project s requirements evolve What you will learn Import and export geographic data from the PostGIS database using the available tools Structure spatial data using the functionality provided by a combination of PostgreSQL and PostGIS Work with a set of PostGIS functions to perform basic and advanced vector analyses Connect PostGIS with Python Learn to use programming frameworks around PostGIS Maintain optimize and fine tune spatial data for long term viability Explore the 3D capabilities of PostGIS including LiDAR point clouds and point clouds derived from Structure from Motion SfM techniques Distribute 3D models through the Web using the X3D standard Use PostGIS to develop powerful GIS web applications using Open Geospatial Consortium web standards Master PostGIS Raster Who this book is for This book is for developers who need some quick solutions for PostGIS Prior knowledge of PostgreSQL and spatial concepts would be an added advantage

Big Data and Social Science Ian Foster, Rayid Ghani, Ron S. Jarmin, Frauke Kreuter, Julia Lane, 2016-08-10 Both Traditional Students and Working Professionals Acquire the Skills to Analyze Social Problems Big Data and Social Science A Practical Guide to Methods and Tools shows how to apply

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