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Beginning MapServer

Open Source GIS Development

Create spatially-enabled Web applications using the MapServer GIS development environment.

Bill Kropla

Foreword by Steve Lime, creator of MapServer and MapScript

Stefano Lacovella

Beginning MapServer Bill Kropla, 2006-11-05 Beginning MapServer Open Source GIS Development is the first book of its kind It offers a comprehensive introduction to MapServer the development platform for integrating mapping technology into Internet applications You ll learn how to build and extend dynamic applications using popular languages like PHP Perl and Python After a thorough introduction to installation and configuration you ll uncover basic MapServer topics and examples You ll also learn about advanced MapServer features and how to guery and incorporate dynamic data into your application The book culminates with the creation of an actual mapping application **Open Source GIS: A GRASS GIS Approach** Markus Neteler, Helena Mitasova, 2008-01-17 Since the first edition of Open Source 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 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 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 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 and additional applications can be viewed Open GIS Jizhe Xia, Qunying Huang, Zhipeng Gui, Wei Tu, 2024-05-31 This book provides a comprehensive introduction about recent state of the art advancements in Open GIS including Open GIS data services software and libraries for GIS programming Though GIS software has entered the era of Open GIS alongside the emerging trend of open source software there is no suitable book for GIS educators to teach our next generation and for professionals to gain an in depth understanding about Open GIS technologies and toolkits This book intends to provide this missing quidance for students educators and professionals in geospatial fields to quickly find learn and use a wide arrange of open sourced data tools and programming for geospatial applications. The book begins with an introduction to open data and discusses data management solutions including both open sourced relational databases and NoSQL database systems for big data Next the book covers different GIS and remote sensing software tools and programminglibraries to perform spatial statistics and analyses Readers will learn about the tools and libraries for desktop and web GIS development for both two dimensional 2D and three dimensional 3D mapping and visualization Finally the book provides two example of Open GIS applications including public health and natural hazards At the end of each chapter practical hands on exercises are included for readers to fully master the most popular Open GIS technologies introduced in the chapter Open Source Approaches in Spatial Data Handling Brent Hall, Michael G. Leahy, 2008-09-27 The role open source geospatial software plays in data handling 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
Web Mapping Illustrated Tyler Mitchell, 2005-06-17 With the help of the Internet and accompanying tools creating and publishing online maps has become easier and rich with options A city guide web site can use maps to show the location of restaurants museums and art venues A business can post a map for reaching its offices The state government can present a map showing average income by area Developers who want to publish maps on the web often discover that commercial tools cost too much and hunting down the free tools scattered across Internet can use up too much of your time and resources Web Mapping Illustrated shows you how to create maps even interactive maps with free tools including MapServer OpenEV GDAL OGR and PostGIS It also explains how to find collect understand use and share mapping data both over the traditional Web and using OGC standard services like WFS and WMS Mapping is a growing field that goes beyond collecting and analyzing GIS data Web Mapping Illustrated shows how to combine free geographic data GPS and data management tools into one resource for your mapping information needs so you don t have to lose your way while searching for it Remember the fun you had exploring the world with maps Experience the fun again with Web Mapping Illustrated This book will take you on a direct route to creating valuable maps

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