OSGeo Journal

The Journal of the Open Source Geospatial Foundation — Volume 3 / December 2007

Proceedings of FOSS4G 2007

Integration & Development

- Portable GIS: GIS on a USB Stick
- Automatic Generation of Web-Based GIS/Database Applications
- db4o2D — Object Database Extension for 2D Geospatial Types
- Google Summer of Code for Geoinformatics

Topical Interest

- A Generic Approach to Manage Metadata Standards
- Towards Web Services Dedicated to Thematic Mapping
- Interoperability for 3D Geodata: Experiences with CityGML & OGC Web Services
- A Model-Driven Web Feature Service for Enhanced Semantic Interoperability
- Spatial-Yap: A Spatio-Deductive Database System

Case Studies

- DIVERT: Development of Inter-Vehicular Reliable Telematics
- GRASS GIS and Modeling of Natural Hazards: An Integrated Approach for Debris Flow Simulation
- A Spatial Database to Integrate the Information of the Rondonia Natural Resource Management Project
- GeoSIPAM: Free & Open Source Software Applied to the Protection of Brazilian Amazon
- The Amazon Deforestation Monitoring System: A Large Environmental Database Developed on TerraLib and PostgreSQL

From the Editor...

As promised, here it is — the conference proceedings from the biggest and best FOSS4G conference yet. This is a special edition of the OSGeo Journal, dedicated to bringing you a very small sampling of some of the hundreds of papers and topics presented at the event. For more information, conference summaries and discussion see the various blogs and reports available on the reviews page of the foss4g2007.org web-site.

The local organising committee is already well into preparing for next year's event in Cape Town, South Africa. For more information see the foss4g2008.org web-site. Meanwhile, as you read this, the contenders for the FOSS4G **2009** bid are speedily writing up their proposals for hosting the event — best wishes to all proposals!

The next issue of the Journal will be back to normal. This is your invitation to contribute an article, code examples, tutorial, case studies and more. If you are interested in submitting an article, please add yourself to the Volume 4 wiki page[1] and an editor will be in touch with you. Contact me directly if you are wondering how your article might fit into the Journal.

As always, thank you to the rest of the Editorial team, proof-readers and **the 37 contributors** to this volume. Enjoy the articles!

Tyler Mitchell
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Contents of this volume:

From the Editor... 1
FOSS4G 2007 Sponsors & Supporters 2
Portable GIS: GIS on a USB Stick 3
Automatic Generation of Web-Based GIS/-Database Applications 5
db4o2D - Object Database Extension for 2D Geospatial Types 17
Google Summer of Code for Geoinformatics . 21
A Generic Approach to Manage Metadata Standards 24
Towards Web Services Dedicated to Thematic Mapping 31
Interoperability for 3D Geodata 34
A Model-Driven Web Feature Service for Enhanced Semantic Interoperability 38
Spatial-Yap: A Spatio-Deductive Database System 44
The DIVERT Project: Development of Inter-Vehicular Reliable Telematics 48
GRASS GIS and Modelling of Natural Hazards 53
A Spatial Database to Integrate Information of the Rondonia Natural Resource Management Project 60
GeoSIPAM 64
The Amazon Deforestation Monitoring System 70

[1] http://wiki.osgeo.org/index.php/Journal_Volume_4

FOSS4G 2007 Sponsors & Supporters

Reflections from two supporters

The Free and Open Source Software for Geospatial Conference (FOSS4G), with the involvement of the Open Source Geospatial (OSGeo) Foundation, has become the premiere event for the open source geospatial community. This year I was asked to provide a "wrap up" as part of the closing session. These are the themes I presented, which all neatly fall under an overarching theme of "maturity."

The experiences of the last few years (from the development of projects, to the creation of OSGeo, among other things) have given the FOSS4G community a confidence that I didn't feel in the past. While I've missed a few meetings in this series, notably the last edition of this event, the 2007 event struck me as a "real" conference. I see a change in the answer to this question, which I've posed to attendees over the last few years: "What software stack are you working with?" I suggest that the proportion of attendees new to GIS or new to geospatial was rather high. The FOSS4G community is "just like" the rest of the GIS community. I would identify the pursuit of effective business models and development funding as far "calmer" than in past years. The demand for open source geospatial education is growing.

Adena Schutzberg
Executive Editor, Directions Magazine

The Open Planning Project wishes to thank FOSS4G 2007 conference organizers and especially attendees for making a terrific event. We had a great time connecting with colleagues and meeting new users of our collective technologies.

We were particularly excited to see the increasing popularity of GeoServer and OpenLayers, and enjoyed the opportunity to demonstrate the new feature development that we have been supporting in those projects. We look forward to another great year of advances in the open geo-stack and will be back with more exciting developments at the next conference.

Chris Holmes, The Open Planning Project

Thank you to all the FOSS4G 2007 Sponsors for their support!

The Open Source Geospatial Foundation, or OSGeo, is a not-for-profit organization whose mission is to support and promote the collaborative development of open geospatial technologies and data. The foundation provides financial, organizational and legal support to the broader open source geospatial community. It also serves as an independent legal entity to which community members can contribute code, funding and other resources, secure in the knowledge that their contributions will be maintained for public benefit. OSGeo also serves as an outreach and advocacy organization for the open source geospatial community, and provides a common forum and shared infrastructure for improving cross-project collaboration.

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