

FOSSGIS Academy

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<http://www.fossgisacademy.com>

Building web mapping applications with FOSSGIS

In this course we will take you on a tour through some popular parts of the FOSS GIS toolset. We will focus on Web GIS. Our aim is to make you comfortable with FOSSGIS tools for creating an online map-centric experience.

UMN Mapserver

1 Day: UMN Mapserver is a robust, fast web mapping services tool. With mapserver, you can publish geospatial data using the Web Map Service (WMS) and Web Feature Service (WFS) standards. The data can originate from local files on the file system (shapefiles, tiffs etc.) or from data stored in a GeoSpatial database such as PostgreSQL / **PostGIS**. We will walk through the process of creating a basic project and then extending it to take advantage of some of the various capabilities mapserver has to offer.

OpenLayers

1 Day: OpenLayers is a lightweight web mapping client written in Javascript. With OpenLayers you can display maps in web pages using data layers from standard web services such as the Web Mapping Service and the Web Feature Service. We will build a simple OpenLayers based web page and configure it as a client to our UMN Mapserver based web server. We will also show how to customise the basic standard OpenLayers instance to include various map controls and widgets.

GeoDjango

3 Days: GeoDjango is a web application development framework, extending the Django project to include support for GeoSpatial web application development. With GeoDjango you can create web enabled forms that capture both text based data and geographical data (e.g. polygons / lines / points). The Django framework makes use of the model/view/controller (MVC) design pattern (which we will explain) to allow you to build a clean application architecture. Django also provides all the infrastructure to do object relational mapping (ORM). ORM is used to model your data structures in a database backend and automatically save and retrieve objects from the database as they are needed. There are many other great features of Django which we will try to give you a flavour of during this three day course. Through the course we will build a simple django application that integrates the services from our UMN Mapserver instance and takes advantage of our new found skills in OpenLayers.

Prerequisites

This course is not for beginners. To attend this course you should already have knowledge in as many of the following areas as possible: GIS, basic linux skills, basic knowledge of html, basic knowledge of css, basic knowledge of javascript, basic knowledge of at least one programming language (ideally Python), basic knowledge of database design and administration (ideally postgresql). Attendees are expected to bring their own laptop running Ubuntu 10.04 or greater. If you do not have access to an Ubuntu laptop, please let us know as we have a limited number of Lab Machines available.

About FOSSGIS Academy

The FOSSGIS Academy is a joint venture between Linfiniti Consulting cc, Afrispatial cc and Geograph (Pty) Ltd. FOSSGIS Academy was formed with the aim of creating a formalised FOSSGIS training curriculum in order to provide the needed injection of FOSSGIS skilled workers into the geospatial workplace. We aim to provide training courses in a professional environment at a reasonable price in order to show you how to make the best of all the great FOSSGIS tools out there.

About your instructors

Tim Sutton (Swellendam, Western Cape) has been an active contributor to QGIS since the early days of the project. Tim leverages FOSSGIS within his small consulting firm, Linfiniti Consulting CC (linfiniti.com) to provide web based and desktop GIS solutions for customers. Tim has a wealth of experience in GIS and system administration to share.

Gavin Fleming (Paarl, Western Cape) is the founder of AfriSpatial (afrispatial.com). AfriSpatial has significant expertise and experience in the GIS and Open Source software worlds. We offer geospatial solutions and services to private clients who have the vision to Go Open and to Government entities who are required to Go Open.

Venue, dates, contact etc.

Venue: The course will be held at 3 Buirski Plein, Jansens Straat, Swellendam, Western Cape

Dates: This 5 day course will run from 29 November - 3 December, 2010.

Contact: For course details and information, please contact +27 (0)791038307 or email us at to office@linfiniti.com. More at <http://www.fossgisacademy.com>

Price: R6475 (ex vat) per person attending (teas will be provided, excludes meals & accommodation)
Accommodation: There are many Bed & Breakfasts in Swellendam. African Shades - will give a discount if you mention Linfiniti (speak to Hein): 028 514 2944 / 073 2512914. Roosje van de Kaap: 028 514 3001. Many more available - just google!