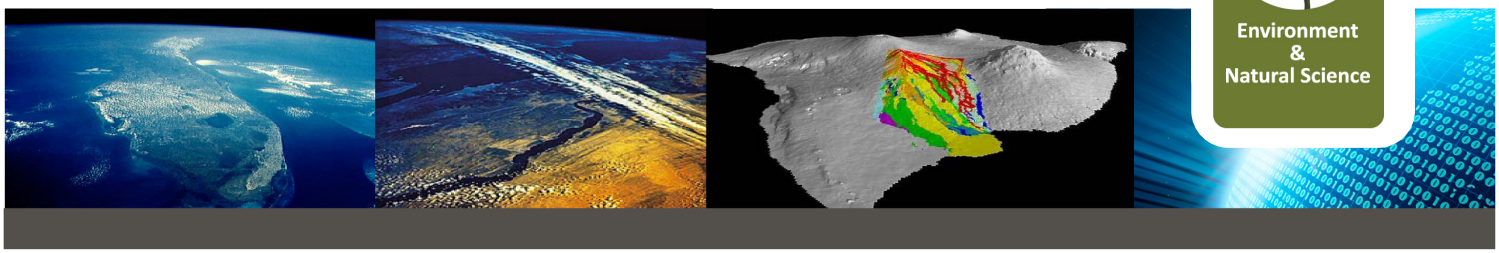
Short Course in:
Spatial Databases with PostGIS

Presented by the Centre for Geoinformation Science, University of Pretoria



6 - 10 July 2015

BRIEF DESCRIPTION

Geographic data is data with implicit or explicit reference to a location relative to the Earth. A geographic dataset comprises features that represent real world phenomena associated with a location relative to the Earth's surface. Examples include roads, trees, boundaries, lakes, rivers, sales districts and customer locations.

This course provides a practical introduction to PostgreSQL with PostGIS, covering the following major themes of spatial databases: installing and configuring PostGIS, viewing PostGIS data in a desktop GIS, spatial SQL queries, spatial joins and spatial indexing. Although the theory is explained, most of the time during the course will be spent on practical examples, ensuring that delegates understand how to view spatial data, query spatial databases, etc. The course aims to equip the delegates with the necessary skills and knowledge to use spatial databases in the daily operations of their respective jobs.

WHO SHOULD ENROL?

The course is aimed at people working in the GIS industry. A basic knowledge of GIS is helpful, but not required. Anyone who wants to use PostGIS spatial databases.

ACCREDITATION

Short courses and certificate programmes presented by the University of Pretoria through CE at UP are not unit standard based and not credit bearing on the National Qualifications Framework.

ASSESSMENT

A University of Pretoria certificate is awarded to delegates who successfully complete the theory and practical assessment.

CONTENT

The course is presented on Mondays over a period of five weeks. Full-day attendance on campus for five days for eight hours each day is required. The course covers the following topics:

- Object-relational databases with PostgreSQL
- Spatial databases with PostGIS
- Manipulate and query spatial databases with SQL
- Configuring PostgreSQL and PostGIS for spatial data

LEARNING OUTCOMES

After completion of the course delegates should be able to:

- create a spatial database in PostGIS;
- load spatial data into a PostGIS database;
- view spatial data in a PostGIS database from QGIS;
- manipulate and query spatial data with SQL; and
- tune PostgreSQL for efficient spatial data access.

COURSE FEE (CE at UP IS EXEMPT FROM VAT)

The course fee is R8 800.00 and includes course material, lunch and refreshments. The course fee is payable by the start date of the course

REGISTRATION ENQUIRIES

Course Coordinator: Samedah Davis
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COURSE CONTENT ENQUIRIES

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