

OPENSOURCE WEBGIS ARCHITECTURE

TRAINING OBJECTIVES

This training is intended for all people with a basic background in development (HTML, JavaScript) and who wish to represent and disseminate cartographic data.

At the end of the course, the trainees will be able to:

- Install and configure GeoServer
- Load and administer vector and raster data
- Setting up web services
- Administering a PostGIS spatial database
- Stream spatial data via Leaflet



TARGET AUDIENCE

Technicians, computer scientists, GIS engineers and web developers



PREREQUISITE

Have a very good foundation in computer science and databases

Come to training with your own laptop and have the Administrator profile of your machine



EDUCATIONAL RESOURCES

Digital course material given to the trainee (with concrete cases, practical exercises, technical sheets)

Evaluation questionnaires and certificate of completion of training



DURATION > To be determined according to the needs expressed and a maximum of 5 days



REGISTRATION

Email > formation@arxit.com

Consulting us for accessibility for people with disabilities

PROGRAM

DAY 1

POSTGRESQL - POSTGIS

Installation

Administration with pgAdmin 4 and QGIS DB Manager

Creation of spatial databases

Spatial indexing

Creating basic queries

Notions of views and materialized views

DAY 2

POSTGRESQL – POSTGIS (CONTINUED)

Creating Webcast-Optimized Queries

GEOSEVER

Installing GeoServer

Creating WMS and WFS flows

View data in QGIS and Leaflet

QGIS-PostGIS-Leaflet real-time interaction

DAY 3

LEAFLET

Leaflet Overview

JavaScript, HTML, CSS development reminders (if needed)

Discovering, using jQuery

Download, install the Leaflet API

Creating a simple map

DAY 4

ADD DATA FROM GEOSEVER

View data on the Leaflet map

STYLES AND SYMBOLOGY

Setting the appearance of vector data (colors, opacities, thickness)

Create markers on point layers

DAY 5

ATTRIBUTE DATA

Accessing an entity's attributes

Display tooltips (on click or hover)

Open parameterized popups

Generate a label layer

