OSSIM Overview

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OSSIM

OSSGeo.org
The Open Source Geospatial Foundation
“Awesome”

Open Source Software Image Map (OSSIM)

www.ossim.org
High Performance Geo-spatial Image Processing

Open Source Software Distribution

Laptops to Clusters - Mac OSX, Linux, Windows, Solaris

Sensor Models, RPC, Commercial and National Formats

Precision Terrain Correction / Orthos

Production, Prototyping, Advanced Visualization

Used in Government and Commercial Applications

OGC Interfaces over the web
1.7 GB Raster GeoTiff of San Francisco
Arbitrary Panning and Zooming
263 MB Landsat image

Different Scale, Format, Mapping Projections
Publish Viewing Geometries

All Windows Display Same View
Swipe Displays
OSSIM

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OSSIM

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OSSIM

Fit to Window

Quick Overviews
Mosaics
OSSIM Blends
Feathering
OSSIM

CADRG, SPOT, QB, CIB, NASA Data
Very Large Mosaics
OSSIM

On a Laptop
NASA 2.6 Gig File
Zoom to Baghdad
CADRG Maps through a.toc
SPOT 5 Image
Digital Globe QuickBird Mosaic
Baghdad Area
Zoom to Airport
Baghdad Airport
30 GB Mosaic
OSSIM meter
Very Large Mosaics
2.5 Meter
0.5 Meter
Super Sampling
Various resamplers
Advanced Prototyping
Visual Chain Editor
Edge Filter
Polygon Masking
Elevation Processing
Equation Editor
Vector Support
Blends
Mosaics and Histogram Matching
osgPlanet

Similar to Google Earth and NASA World Wind, main focus:

Open Source Software runs on multiple platforms

Photogrammetric Accuracy

Native file access, does not require precooked layers

OGC WMS compliance for Distributed access

Builds on top of OSSIM and OpenSceneGraph
Advanced Visualization osgPlanet
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OGC Web Mapping Service Interface

NASA JPL
OGC Web Mapping Service Interface
OGC Web Feature Service Interface
OGC Web Feature Service Interface
Open Technology Development Leverage

osgPlanet
- OSSIM
- OpenSceneGraph
- OGC WMS
- World Wind Servers

osgEphemeris
- QGIS
- Delta3D

NRL MOADB
- Manipulators
- Navigation
- Hot Links
- Algorithmic Improvements

MapGuide
- MapServer
- GRASS
- Postgres/PostGIS
- GeoServer
- uDig
- OpenLayers
- GeoRSS