

ECDL-GIS

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NEWSLETTER

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ECDL-GIS@LARTU

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RISORSE UTILI



Free and Open Source Software for GIS education

Free and Open Source Software for GIS education

This white paper is written with the support from the **National Geospatial Technology Center of Excellence** (GeoTech Center, <http://www.geotechcenter.org/>). The goal of this paper is to assist GIS educators at various institutes (high schools, community colleges and universities) towards understanding the potential role of **open source software** (or free and open source software -- FOSS) in **GIS education**.

The free and open source software "movement" has significantly impacted all aspects of information technology (Tiemann, 2009).

(...)



This faceted Linked Geo Data browser is based on data obtained from the [OpenStreetMap project](#) (released under [CC-BY-SA](#)) and was developed by [AKSW research group](#).

Geo Data

This faceted Linked Geo Data browser is based on data obtained from the [OpenStreetMap project](#) (released under [CC-BY-SA](#)) and was developed by [AKSW research group](#).



Nominatim

Nominatim (from the Latin, 'by name') is a tool to search osm data by name and address and to generate synthetic addresses of osm points (reverse geocoding). It can be found at <http://nominatim.openstreetmap.org> . Nominatim is also used as one of the sources for the Search

University of Guelph

CENTRE FOR HYDROGEOMATICS



The **Whitebox GAT** project is an exciting new **open-source GIS project**. Whitebox is as much a philosophical approach to geomatics as it is a GIS/Remote Sensing package. (...) To learn more about this philosophy of transparent GIS/RS, please follow this [link](#).

Whitebox GAT has its origins embedded in an older freeware GIS/RS software, the [Terrain Analysis System](#) (TAS). Whitebox offers some real improvements over this older software. This includes the following:

- Whitebox is [open-source and transparent](#) software. (...)
- Whitebox possesses a new process for accessing spatial data that allows for the processing of much larger (massive) spatial datasets.
- Whitebox is [extendible](#). Users are able to create and embed custom tools that take advantage of the Whitebox user-interface and functionality to the same degree of integration as built-in functions. (...)
- Whitebox has very good documentation. (...) This is also part of Whitebox's transparent philosophy. The user has a right to know who created the tool.
- Whitebox is easy to use, despite being a powerful software package for performing advanced geospatial analysis operations. (...)

(Thanks to) [John Lindsay](#) - Department of Geography - University of Guelph - (25/11/2009)



Welcome to MapTools.org

MapTools is a resource for users and developers in the open source mapping community, and a home to many open source projects. The projects that are hosted here offer essential services including: latest downloads, CVS repositories for source code, bug lists, community mailing lists, and project documentation.

Some of the links here are to selected open source projects hosted elsewhere that are related to the projects hosted on MapTools.org.



GeoTools The Open Source Java GIS Toolkit

GeoTools is an open source Java library that provides tools for geospatial data.



OSOR.eu - Open Source Observatory and Repository

The Open Source Observatory and Repository for European public administrations (OSOR) is a platform for exchanging information, experiences and FLOSS-based code for use in public administrations.

EIONET

GIS - Geospatial data - Maps - Specifications

Geospatial data

Links to major sources for geospatial data related to environmental geographic information (...)

CorridorDesign

[HOME](#) [LEARN](#) [DOWNLOADS](#) [LINKAGE DESIGNS](#) [BLOG](#) [ABOUT](#)

GIS tools and information for designing wildlife corridors

Our goal is to transfer everything we've learned about designing wildlife corridors to the general public to facilitate better conservation, science, and dialogue.



GIS tools and information for designing wildlife corridors

Our goal is to transfer everything we've learned about designing wildlife corridors to the general public to facilitate better conservation, science, and dialogue (...)

- Learn the important conceptual & technical steps for [designing wildlife corridors](#)
- [Download Corridor Designer](#), a suite of ArcGIS tools for designing and evaluating corridors
- Download reports and GIS data for [linkage designs](#) created throughout Arizona

Batch Conversions of Address to Latitude/Longitude (Forward Geocoding)

[Stephen P. Morse](#), San Francisco

Batch Mode (reverse)

Batch Mode (altitude)

Interactive Mode

Frequently Asked Questions

My Other Webpages

Display results in Decimal Degrees/Minutes/Seconds

Use Yahoo Google

Batch Conversions of Address to Latitude/Longitude (Forward Geocoding)

(Thanks to) [Stephen P. Morse](#), San Francisco

*Type or Copy-and-Paste addresses into the box below, one address per line
Street intersections can also be used -- e.g., Hollywood and Vine, Hollywood CA*

Addresses

Latitude, Longitude Longitude, Latitude

Do not write in this box
Enter locations in the left box

Addresses

Latitude, Longitude Longitude, Latitude

VIA ROMA 222, TORINO, ITALIA

45.06652, 7.6817

Google maps

45.06652, 7.6817



Mapperz - The Mapping News Blog

Mapperz - The Map & GIS News finding blog. With so many Mapping sites online. This blog tries to provide you with the best maps and services that are currently available online. [@mapperz](#)

Mapperz

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Natural Earth

Free vector and raster map data at
1:10m, 1:50m, and 1:110m scales

Search

Natural Earth

Natural Earth is a public domain map dataset available at 1:10m, 1:50m, and 1:110 million scales. Featuring tightly integrated vector and raster data, with Natural Earth you can make a variety of visually pleasing, well-crafted maps with cartography or GIS software.

Natural Earth was built through a collaboration of many volunteers and is supported by [NACIS](#) (North American Cartographic Information Society), and is free for use in any type of project (see our [Terms of Use](#) page for more information).



Portable GIS

GIS on a USB stick. Announcement: Portable GIS Version 2 is released! Download it here

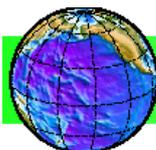
The philosophy behind this idea was to provide beginners with a ready-installed and configured stack of open source GIS tools that would run in windows without the need for emulation or a live cd. By taking out the often difficult installation and configuration, I hope to make it easier for beginners to get started with open source GIS, so they are not put off before it gets interesting and fun. Not only that, but having a fully self-contained GIS system may prove useful in a number of real-life situations.

Newly updated version 2 contains a self-contained installer, updated versions of all the constituent software packages, a new control panel, and improved documentation.

The current set of software includes:

- Desktop GIS packages QGIS (with GRASS plugin), uDIG and gvSIG,
- FWTools (GDAL and OGR toolkit)
- XAMPPlite (Apache2/MySQL5/Php5),
- PostgreSQL (version 8.4)/Postgis (version 1.4),
- Mapserver, OpenLayers, Tilecache, Featureserver, and Geoserver web applications.

The packages and menu system are all open source, but each component has a separate license. Some of the components have been altered in order to make them drive-letter independent. (...)



THE GENERIC MAPPING TOOLS

GENERIC MAPPING TOOLS

GMT is an open source collection of ~60 tools for manipulating geographic and Cartesian data sets (including filtering, trend fitting, gridding, projecting, etc.) and producing Encapsulated PostScript File (EPS) illustrations ranging from simple x-y plots via contour maps to artificially illuminated surfaces and 3-D perspective views. GMT supports ~30 map projections and transformations and comes with support data such as GSHHS coastlines, rivers, and political boundaries. GMT is developed and maintained by [Paul Wessel](#) and [Walter H. F. Smith](#) with help from a global set of volunteers, and is supported by the [National Science Foundation](#). It is released under the [GNU General Public License](#).

Open Source GIS

The Future of GIS

OpenSourceGIS.org

[Last update: 12/12/08 - 247 projects listed. Kalypso-Simulation-Platform, KIDS, Rgeo, GEOS, p.mapper, NetTopologySuite, GeoVista Studio, Kosmo, SharpShape, BASINS, Nunaliit, geGIS, Majas, TGR2KML, TGR2SHP, MP2KML, GeoKettle added since 2/1/07]

This effort represents an attempt to build a complete index of Open Source / Free GIS related software projects. The effort has some way to go, especially for projects in languages other than English. The definition of GIS has been kept loose to encompass a broad range of projects which deal with spatial data.

If you know of other sites that should be listed please tell me about them. More importantly if I have made any errors in characterizing a project, let me know: bglewis@gmail.com.

This effort stands on the sturdy shoulders of other projects, most notably [OSRS](#) , [FreeGIS.org](#), [Metalab Linux Archive](#), and [Fresh Meat.net](#). (...)



An Overview of Free & Open Source Desktop GIS (FOS-GIS)

An Overview of Free & Open Source Desktop GIS (FOS-GIS)

Below you can find links to two tables that should give an overview of free Desktop GIS and projects. Desktop GIS means thereby that we did not include map web server tools or basic GIS libraries. Please be aware that this listing is probably not comprehensive and that the comparison was done End of 2007.



OS Desktop GIS - general overview table

 [html](#)

 [word-doc](#)



OS Desktop GIS - functionality table

 [Google Docs spreadsheet](#) - 2010 version (note, things are ordered a bit different)

 [html](#) - 2007 version

 [word-doc](#) - 2007 version



GIS software that does not qualify for the tables above

[html](#)

(...)



PPgis.net Open Forum on Participatory Geographic Information Systems and Technologies

PP GIS NET - Open Forum on Participatory GIS and Technologies
(Another list of) Free and Open Source GIS Software



The world's most advanced
open source database.

POSTGRESQL OBJECT-RELATIONAL DATABASE SYSTEM

PostgreSQL is a powerful, **open source object-relational database system**. It has more than 15 years of active development and a proven architecture that has earned it a strong reputation for reliability, data integrity, and correctness. It runs on all major operating systems, including Linux, UNIX (AIX, BSD, HP-UX, SGI IRIX, Mac OS X, Solaris, Tru64), and Windows. It is fully ACID compliant, has full support for foreign keys, joins, views, triggers, and stored procedures (in multiple languages).



POSTGIS adds support for geographic

PostGIS adds support for geographic objects to the PostgreSQL object-relational database. In effect, PostGIS "spatially enables" the PostgreSQL server, allowing it to be used as a backend spatial database for geographic information systems (GIS), much like ESRI's SDE or Oracle's Spatial extension. PostGIS follows the OpenGIS "Simple Features Specification for SQL" and has been certified as compliant with the "Types and Functions" profile.



OSGeo - Service Providers - Search

Service Providers - Search

Results

Name	No of employees	Technologies	Language	Country
Bytewise Srl	5	MapServer GeoServer PostGIS OpenLayers Quantum GIS Localization gvSIG	English French Italian	Italy
Gis3W	2	GDAL GRASS MapServer PostGIS PROJ OpenLayers Mapbender Quantum GIS	English French Italian	Italy

(continua...)

BLOGS, DINTORNI & ALTRE RISORSE



Tutorial: Adding Zoomify Capabilities to a Map/Image in WordPress

YD Zoomify is a terrific plugin for wordpress that allows users to display high-resolution imagery/maps through loadable tiles. The plugin installs flash capability into the wordpress blog that can be called through a simple script in the blog html editor. YD Zoomify was created by [Yan Dubois](#). The above image comes in at a whopping 930MB!



Aaron Racicot's Reprojected GIS Blog

Warping your understanding of the gis world

MirrorMap

Another **QGIS plugin** idea I have had is to create a method of splitting the map canvas within QGIS to have two side-by-side maps that can track and interact with each other. There are lots of possibilities for this type of “reconfiguring” of the QGIS interface on the fly via plugins, so I decided to dive in and give it a go.

Mapping Radioactive Fallout in the United States



Concerns about the failing nuclear reactors in Japan and the fear of spreading radiation inspired me to share one of my favorite maps. The map shows **areas in the United States crossed by two or more radioactive clouds during the era of nuclear testing (1951-1962) in the American Southwest.**

Jeff Hobbs' Intergraph and GIS Technology Blog

"A picture is only worth a thousand words. A map may be worth a thousand numbers. But a GIS is worth a thousand tables."



Blogs relativi a: Open Source 2

Data & GIS BLOG



DUKE UNIVERSITY LIBRARIES



Quantum GIS Blog

Dev-Speak and other QGIS Ramblings...

GIS Blog *gisiana.info*
GIS Blog - Free GIS Data Free GIS Tutorials



Google Earth Blog

The amazing things about Google Earth™...

FOSS GIS

Everything about Free Software, Free and Open Source Software, Open Source Geographic Information Systems and Remote Sensing

[Home](#) [All News](#) [World Tutorials](#) [All Categories](#)

FOSS GIS

Start Reading



Review this blog

Google Lat Long Blog
News and notes by the Google Earth and Maps team



blog.donmeltz.com

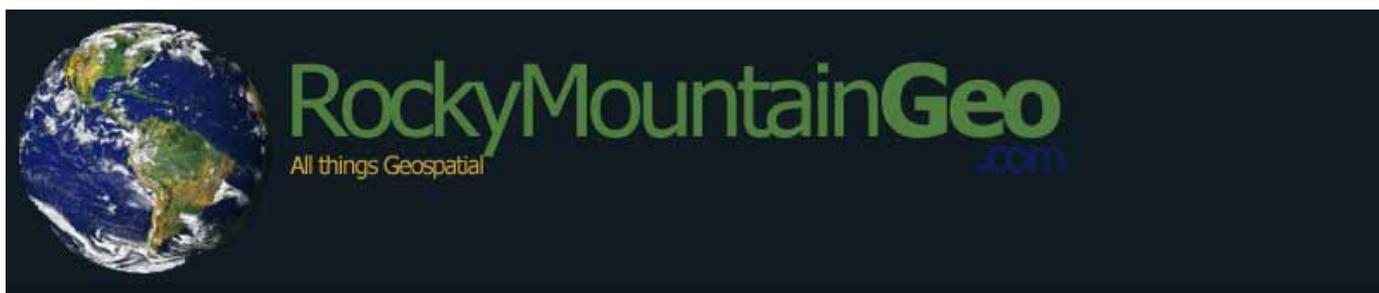
Observations about Planning and GIS

slashgeo Inter+sec+ion for Spatial People

Planet Geospatial

BIRD'S EYE VIEW GIS

(505) 362-1776 info@BirdsEyeViewGIS.com



GISBLOG.IT

BETA
NOTIZIE GIS DAL GLOBO

Nathans QGIS and GIS blog A blog about my adventures with QGIS and other GIS in general.

Kelso's Corner

Blogging at KelsoCartography.com



Surveying, Mapping and GIS

Geospatial Technology, End to End...

Exploring all aspects of mapping and geography, from field data collection, to mapping and analysis, to integration, applications development, enterprise architecture and policy

Free Geography Tools

Exploring the world of free tools for GIS, GPS, Google Earth, neogeography, and more.

le cose che ci piacciono ...
TANTO



Mappamond

Sistemi informativi geografici e soluzioni informatiche per l'ambiente



GIS Blog *gisiana.info*
GIS Blog - Free GIS Data Free GIS Tutorials

[Ø] Harsh Prakash's GIS Blog

Quiet Musings On Spatial Concerns (Geography, Health, Planning, Technology et al)

ENTCHEV GIS ARCHITECTS

5 Elm Row, Suite 207
New Brunswick, NJ 08901
732.246.1192

The ENTCHEV GIS Blog

ArcheologiaMedievale.it

Blog di Archeologia Medievale

3.0
VER

ArcGIS Resource Center

Help

Blogs

Forums

Home » All Blogs

La nostra casella di posta elettronica ecd-gis@polito.it è a vostra disposizione per raccogliere segnalazioni (di eventi, di risorse...), suggerimenti, critiche...

