ECDL-GIS NEWSLETTER

SEI

NOVEMBRE 2013

*Politecnico e Università di Torino - Laboratorio di Analisi e Rappresentazioni Territoriali ed Urbane [**LARTU**] - www.lartu.polito.it - Castello del Valentino (Manica Chevalley) - Viale Mattioli, 39 - 10125 Torino*
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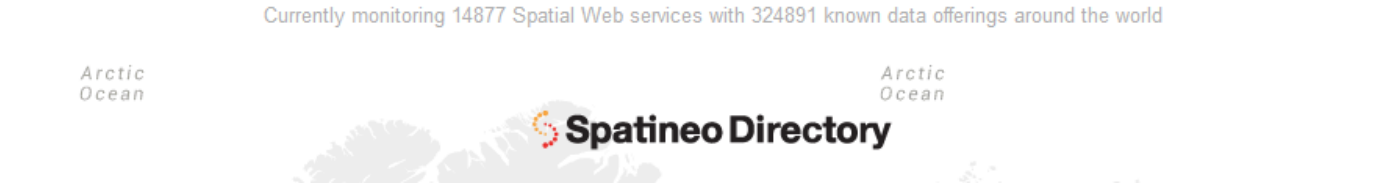
USEFUL RESOURCES

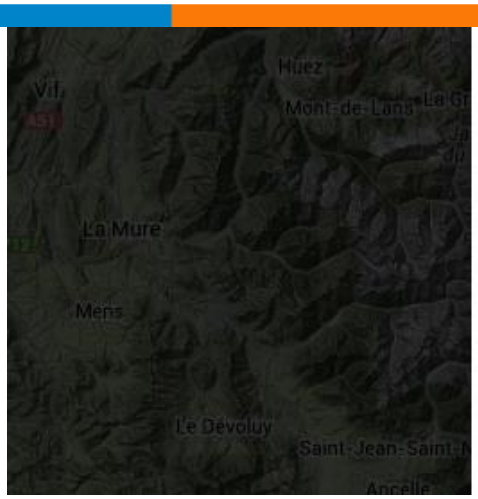
GeoTrellis

Geo Trellis is an open source geographic data processing engine for high performance applications. The framework is built with Scala and Akka.



SPATINEO - A Spatial Web Services monitor

Spatineo is focused on improving the Quality of Service of your geospatial web services. Spatineo's specialties are monitoring, reporting and performance testing services for spatial web services as well as INSPIRE and OGC expertise.



Geospatial Conservation Assessment Tool (GeoCAT)

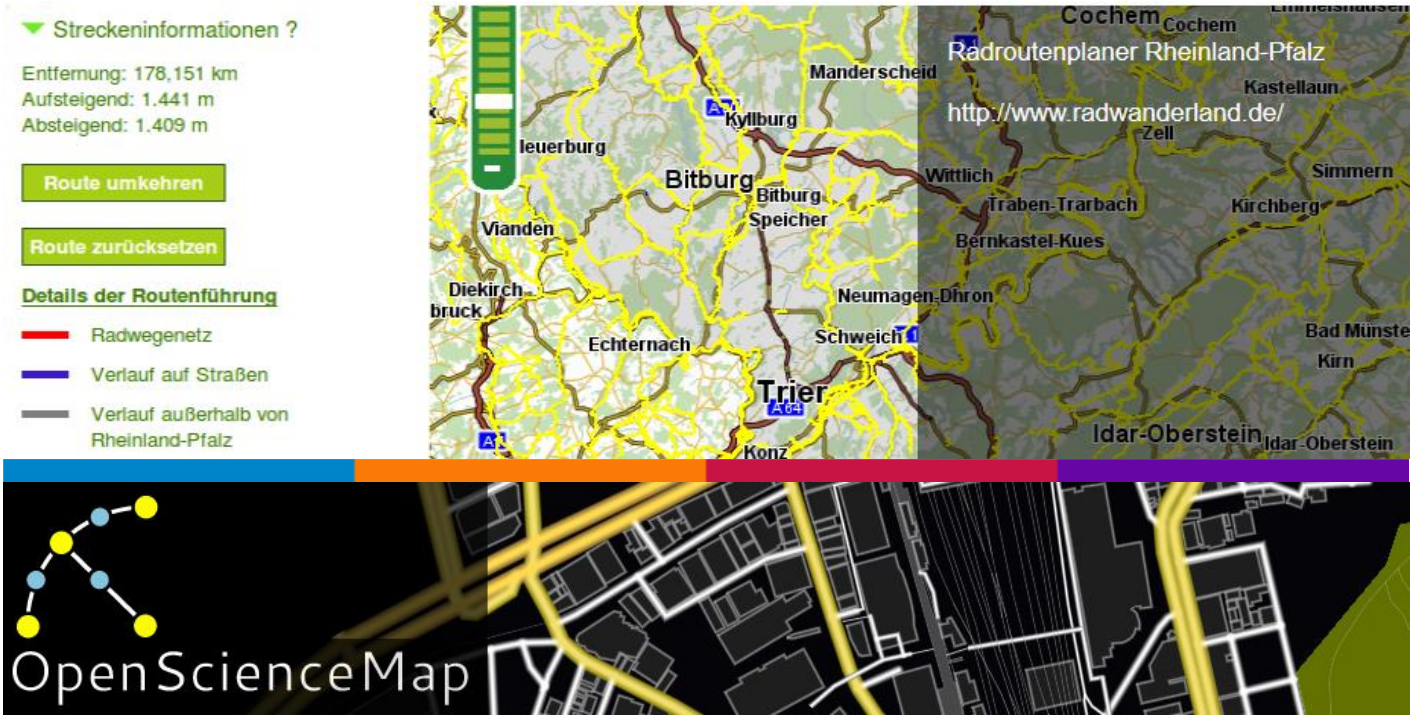
Perform rapid geospatial analysis of species in a simple and powerful way.

CC BY NC

Mapbender – Back Office software and client framework for spatial data infrastructures

Mapbender is the back office software and client framework for spatial data infrastructures. The software is implemented in PHP und JavaScript and dual licensed under GNU GPL and Simplified BSD license. It provides a data model and web based interfaces for displaying, navigating and interacting with OGC compliant map services.

Mapbender3 is the successor of the Mapbender 2 Version and is based on the frameworks Symfony2, JQuery and OpenLayers.

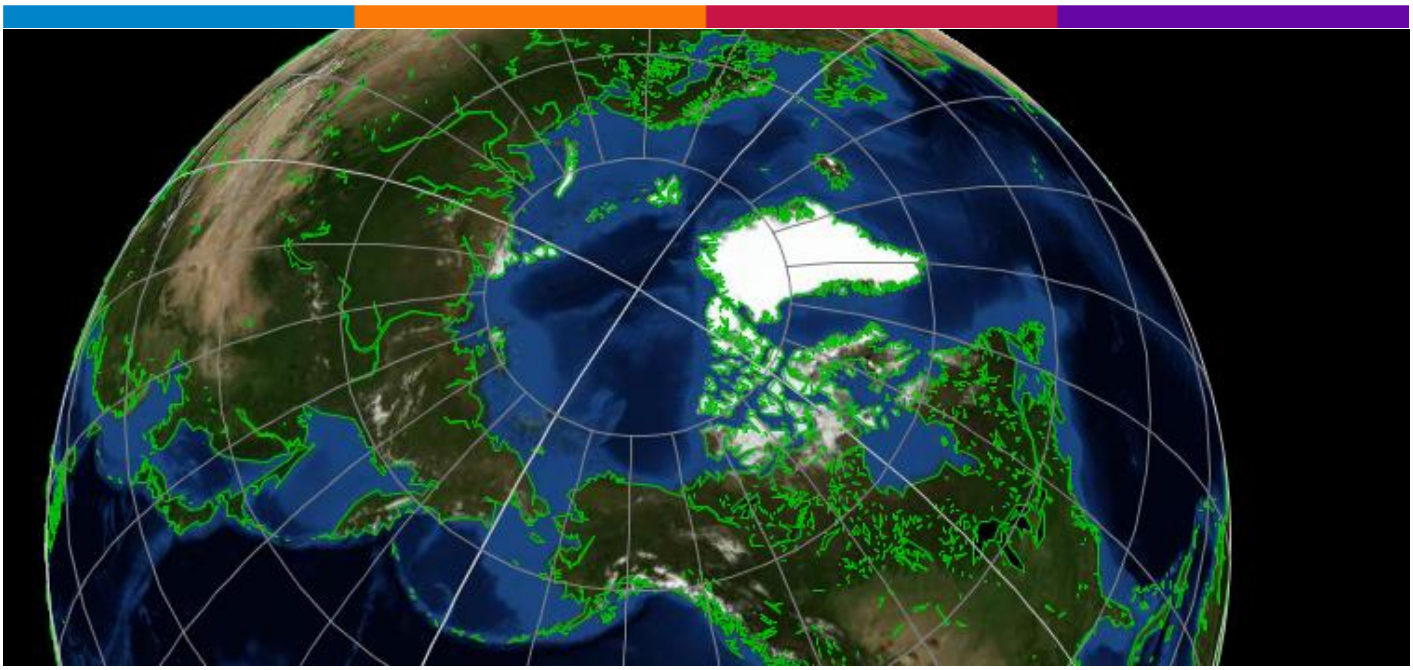


OpenScienceMap 0.5

OpenScienceMap 0.5 is here! And it is more than a small update, it is a huge step forward. There are many new things you can experience:

- **3D Buildings**: all buildings of OSM are now in OpenScienceMap! Touch ground and tilt the map!
- **Satellite imagery**: find satellite imagery in the “Layers” menu
- **Compass**: we now have a compass rose in the map view
- **Compass click-thru**: click on the rose to jump through position & compass settings
- **3D Compass**: tilt your device to tilt the map

- **Position viewshed**: the position indicator shows the direction you are facing and the accuracy of your positioning
- **Offscreen positioning**: the blurry animated indicator shows the direction of your current position
- **POIs**: we have a large number of POIs in the map
- **Better data**: we worked on some of the data and improved a lot.



SwathViewer [*DATA & VIEWER]

SwathViewer is a Java applet for viewing and downloading map data. To run SwathViewer visit the following link: http://sv.gina.alaska.edu.

Suported formats are WMS, KML, GPX, and ESRI Shapefile.
* ESRI Shapefiles are assumed to be unprojected and in the WGS84 datum.
* If you do "Save State" imported data will be inlined into the state file.
* WMS servers can be specified with or without the GetCapabilities parameter:

http://wms.gina.alaska.edu/cgi-bin/bdl.cgi?service=wms&request=GetCapabilities

http://wms.gina.alaska.edu/cgi-bin/bdl.cgi

Maperitive [*SOFTWARE]

Maperitive is a FREE desktop application for drawing maps based on OpenStreetMap and GPS data. You can define what gets on the map and how it is painted. You can also export these maps into bitmaps and SVG files and print them.

Intermountain Region Digital Image Archive Center (IRDIAC) - Landscape Tools [*TOOLS]

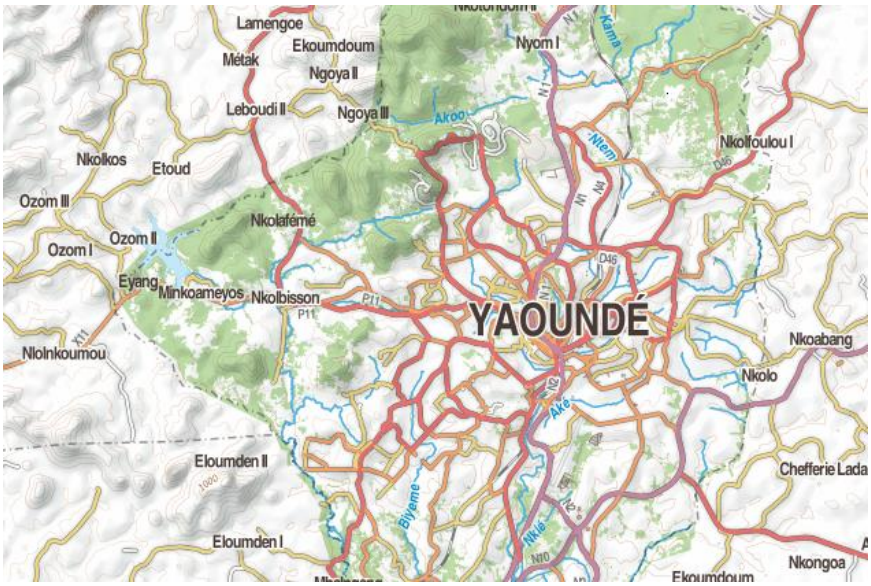
Geocoder

Geocoder is a library which helps you build geo-aware applications. It provides an abstraction layer for geocoding manipulations, as well as a powerful API.

Geocoder supports a lot of third-party services such as: FreeGeoIp, HostIp, IpInfoDB, Google Maps, Google Maps for Business, Bing Maps, OpenStreetMap, CloudMade, Geoip, MapQuest, OIORest, GeoCoder.ca, GeoCoder.us, IGN OpenLS, DataScienceToolkit, Yandex, GeoPlugin, GeoIPs, MaxMind web service, MaxMind binary file, Geonames, IpGeoBase, Baidu, TomTom, and ArcGIS Online.

GEOCAMEROON [*SDI]

Cameroon Spatial Data Infrastructure

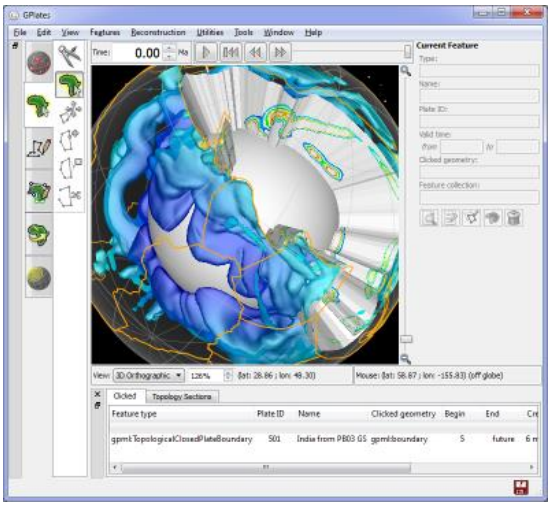


GPlates

GPlates software for plate-tectonics [*SOFTWARE]

GPlates is desktop software for the interactive visualisation of plate-tectonics.

GPlates offers a novel combination of interactive plate-tectonic reconstructions, geographic information system (GIS) functionality and raster data visualisation. GPlates enables both the visualisation and the manipulation of plate-tectonic reconstructions and associated data through geological time. GPlates runs on Windows, Linux and MacOS X. GPlates has an online user manual.

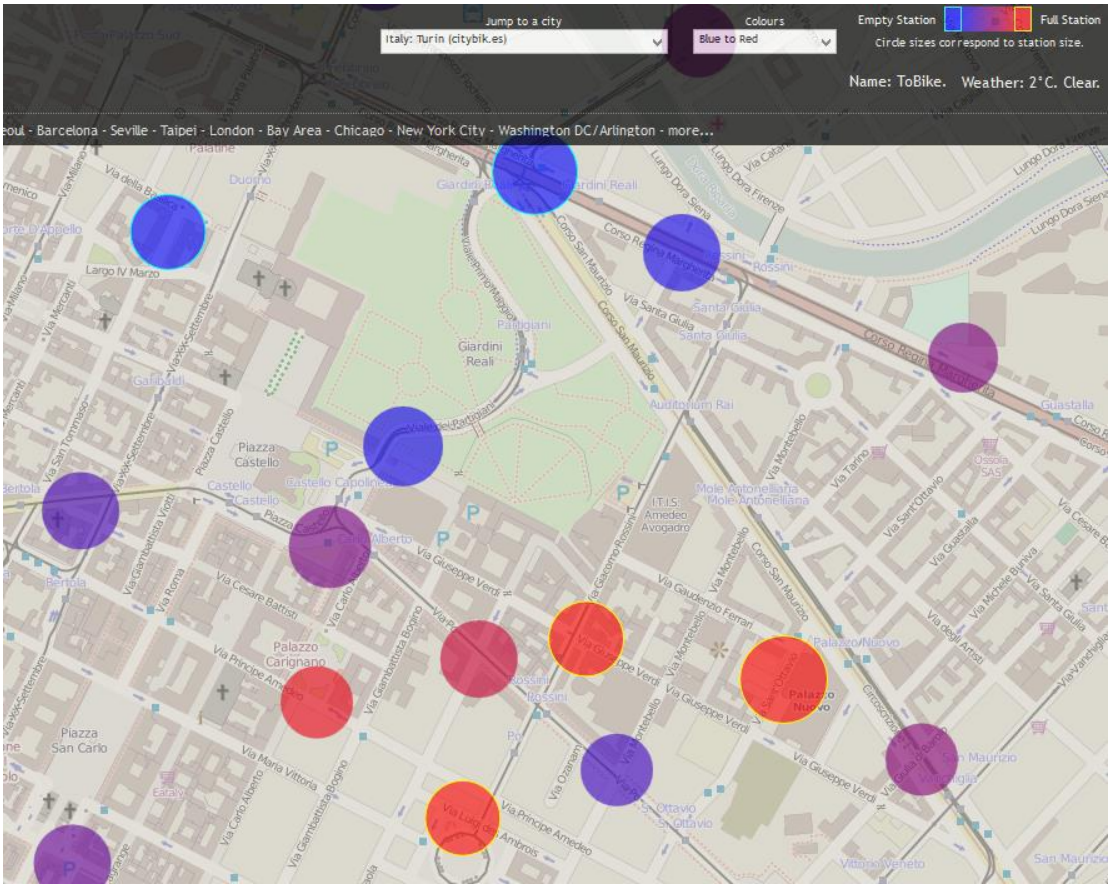


MAPYRUS

Mapyrus [*SOFTWARE]

Mapyrus is software for creating plots of points, lines, polygons and labels to PostScript (high resolution, up to A0 paper size), Portable Document Format (PDF), Scalable Vector Graphics (SVG) format and web image output formats.

BIKE SHARE MAP



OPEN STREET MAP TO GIS (.shp, .tab, kml, etc.)

This webservice allows you to transform OpenStreetMap data into GIS data (.shp, .tab, kml, etc.).

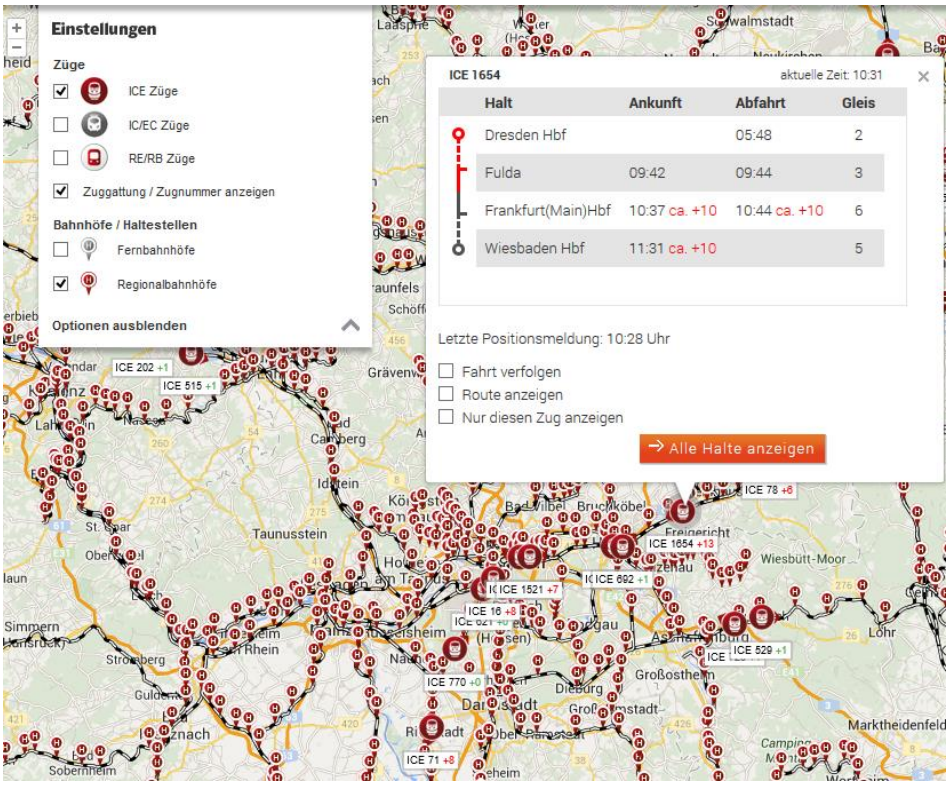
For performance reason, the area is limited to a given extent. Just zoom in the map to select the area you want to export until the button on the left is active (green color). Then, to adjust the area, you can resize the map container to the left or the bottom.

Creating the shapefile can take a long time. So we will send you an email at the end of the process. We won't store your address and we will not use it for anything else.

DB BAHN

Kontakt | Hilfe | Sitemap a a+ a++ Deutschland

DB BAHN - LE FERROVIE TEDESCHE IN TEMPO REALE



CC BY NC

maps.geotastic.org

Maps.geostatic.org

Boston Geographic Information Systems [*TUTORIAL, *REFERENCES]

- GIS Quick Guides and References
- OpenStreetMap and OpenLayers Tutorials
- PostGIS, pgRouting, and PostgreSQL Tutorials

Google Maps Engine Connector for QGIS

Google Maps Engine Connector for QGIS

Google Maps Engine Connector for QGIS allows your to authenticate with your Google Account, list maps you have access to and view and interact with them within QGIS.

The connector is provided by Google for public use and modification, but is not covered under the Google Maps Engine service level agreement or technical support services.

Learn more about Google Maps Engine

Leaflet

Star 6,365 Tweet Follow 6,560 followers Mi piace 2,6r

An Open-Source JavaScript Library for Mobile-Friendly Interactive Maps

Leaflet - An Open-Source JavaScript Library for Mobile-Friendly Interactive Maps

Leaflet is a modern open-source JavaScript library for mobile-friendly interactive maps. It is developed by Vladimir Agafonkin with a team of dedicated contributors. Weighing just about 34 KB of JS, it has all the features most developers ever need for online maps.

GISBox by Citiviz [*VM]

GISBox by Citiviz is a ready-to-use virtual appliance containing an assortment of powerful, free and open source GIS, Data Mining and Analysis, Modelling and Programming software and packages.

The pre-configured and tested GISBox allows you to try and use in few minutes a variety of software used by data scientists, engineers, physicists, mathematicians, geomatics engineers, and geographers from around the globe, without installing anything more than once the Oracle VirtualBox™ software (https://www.virtualbox.org/) on your Linux, Windows or Mac computer.

The GISBox is free and open, allowing it to be freely distributed, duplicated and passed around, even with your own datasets and in-house applications.

QGIS on the FLOSS Weekly podcast

Each week, the FLOSS Weekly podcast takes an hour-long look at exciting projects in the world of Free/Libre and Open Source Software. It recently covered QGIS (or Quantum GIS), which is a really nice, user friendly, Geographical Information Systems package for plotting and analysing map data.

SharpMap

SharpMap is an easy-to-use mapping library for use in web and desktop applications. It provides access to many types of GIS data, enables spatial querying of that data, and renders beautiful maps. The engine is written in C# and based on the .Net 4.0 framework. SharpMap is released under GNU Lesser General Public License.

mapshaper v. 0.1.11

Mapshaper (simplifying cartographic lines) [*TOOLS]

Mapshaper is a program for simplifying cartographic lines while preserving the topological relationships between adjacent polygons and intersecting polyline paths.

European Environment Agency

European Environment Agency – Data and Maps [*DATA]

Cartaro – web mapping platform

Cartaro is the web mapping platform that brings the power of the best open source geospatial components into a content management system. With Cartaro you are able to set-up and run your own geo-enabled and OGC standards-compliant website with not more than a few clicks. The geospatial components used in Cartaro are PostGIS, GeoServer, GeoWebCache and OpenLayers. All those are managed from within the powerful CMS Drupal.

PyAOS

Python for the Atmospheric and Oceanic Sciences

Python for the Atmospheric and Oceanic Sciences (PyAOS) [*TOOLS & *PROGRAMMING]

GRASS GIS

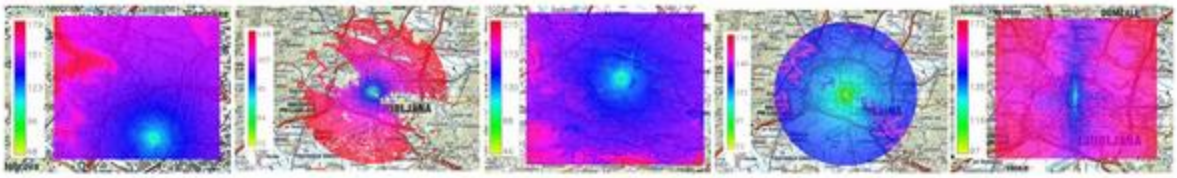
The world's leading Free GIS software

GRASS GIS on CDROM, DVD, USB sticks and Virtual Machine

GRASS GIS is available on various live CDROMs/DVDs/USB sticks. The variants below offer pre-installed GIS software (Live Linux). No need to install anything on the hard disk, you can just run it out of-the-box by booting from the CD-ROM, DVD, or USB-stick. There is no need to install or configure Linux. The hard disk remains untouched.

PENNSTATE College of Earth and Mineral Sciences — Department of GEOGRAPHY — John A. Dutton e-EDUCATION Institute

GIS PROGRAMMING AND AUTOMATION – COURSE OUTLINE [*TUTORIAL]

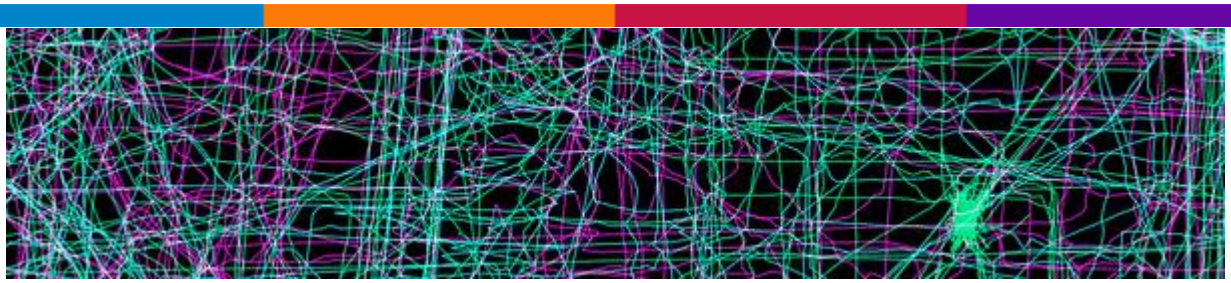


GRASS-RaPlaT - The Radio Planning Tool for GRASS GIS system [*TOOLS]

Cesare Gerbino GIS Blog

Chi riceve un'idea da me ricava conoscenza senza diminuire la mia: così come colui che accende il suo cero dal mio riceve luce, senza lasciarmi al buio.
Thomas Jefferson

OpenGeoData: come utilizzarli su una mappa? Le scuole in Piemonte con un mash up usando Google Fusion Tables [*TUTORIAL]



GIS with Python, Shapely, and Fiona [*TOOLS]

Shapely does *manipulating and analyzing data*. It'd based on GEOS, the standard library for doing that kind of thing, that is very fast. With Shapely, you can do things like buffers, unions, intersections, centroids, convex hulls, and lots more. It does it all quite efficiently.

Fiona does *reading and writing data formats*. For this it uses OGR, the most popular open-source conversion system. OGR is extremely powerful and supports many, many formats - it's used by Mapnik, a tile rendering engine, to support more types of data, and used by people like me every day to convert formats.

QGIS - Introduction to the Basics
Time for completion: ~ 2 hours

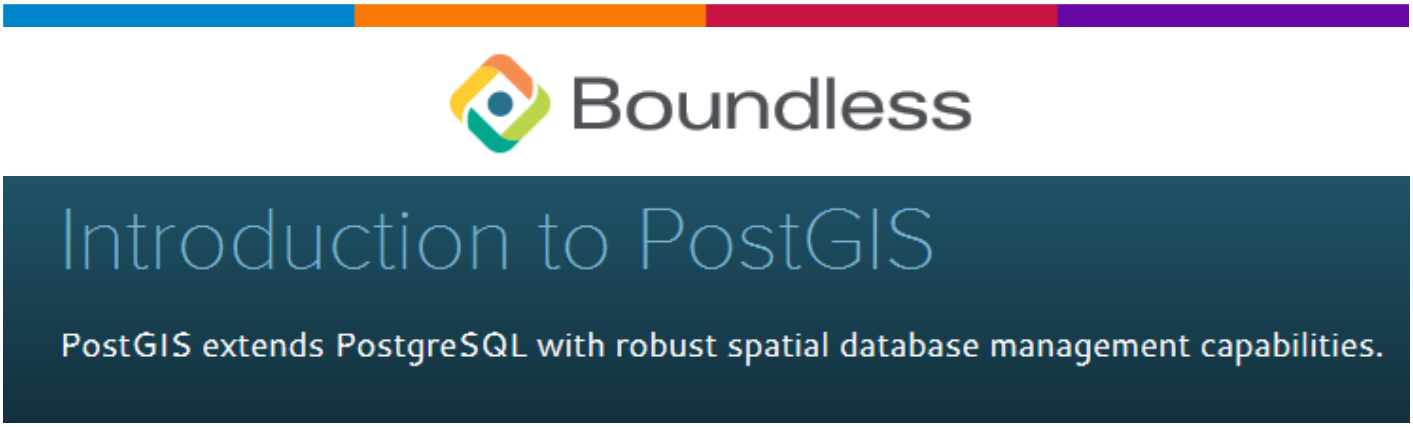
http://qgis.org

QGIS - Introduction to the Basics [*TUTORIAL]

Gothos
A Geospatial Librarian's World

NYC Geodatabase in Spatialite [*DATA]

NYC geodatabase (nyc_gdb), a desktop geodatabase resource for doing basic mapping and analysis at a neighborhood level – PUMAs, ZIP Codes / ZCTAs, and census tracts.

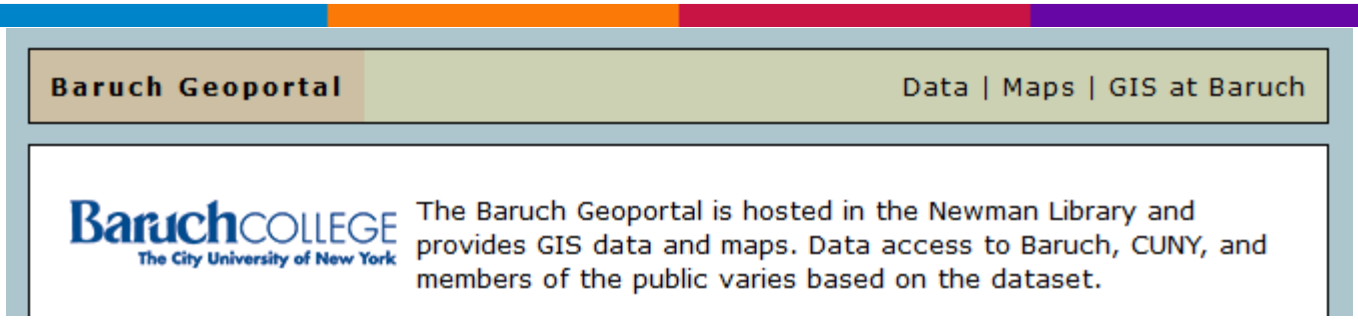


Introduction to PostGIS [*TUTORIAL]

PostGIS extends PostgreSQL with robust spatial database management capabilities.

QGIS-SEXTANTE cookbook [*QGIS]

A collection of simples recipes for not-so-simple spatial problems.



Baruch College Geoportal [*DATA & *GEOPORTAL]

Data - download GIS data for use within a geographic information system

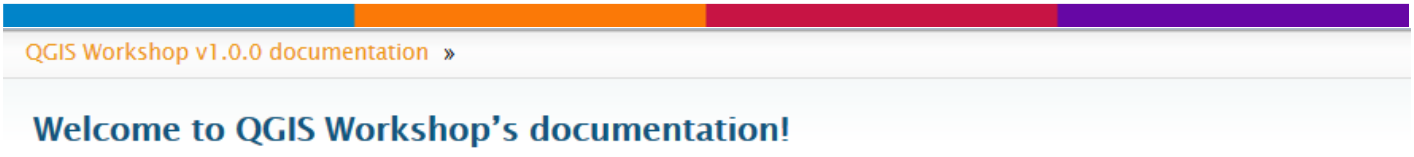
Maps - download static maps in pdf and png formats

GIS at Baruch - visit the GIS subject guide for information about GIS software, facilities, courses, tutorials, and library resources

[GIS Practicum Manual](#) - tutorial for the GIS Practicum, *Introduction to GIS Using Open Source Software*

Using Open Source GIS tools for spatial data - QGIS, GDAL and Python [*TUTORIAL & *PROGRAMMING]

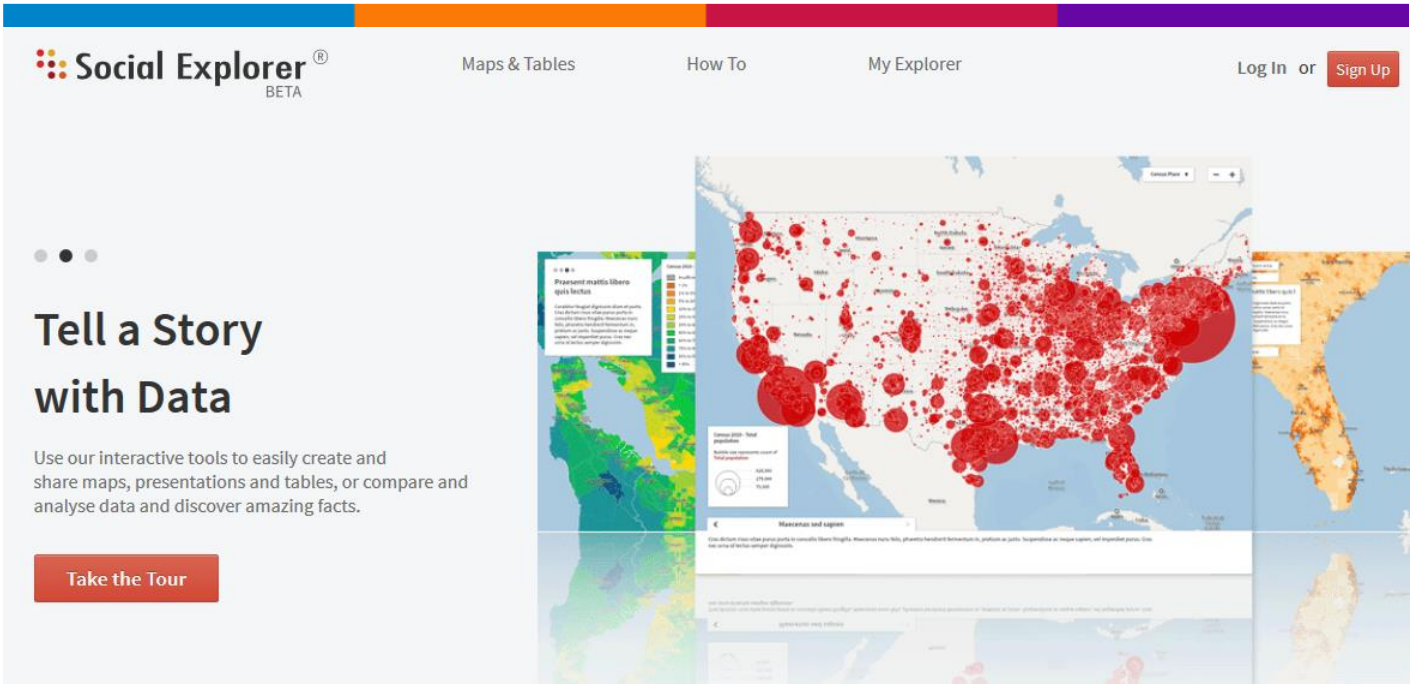
Finding and Making Sense of Geospatial Data on the Internet [*TUTORIAL]



QGIS Workshop's documentation [*QGIS]

A Fresh Approach using Python: Introduction [*PROGRAMMING]

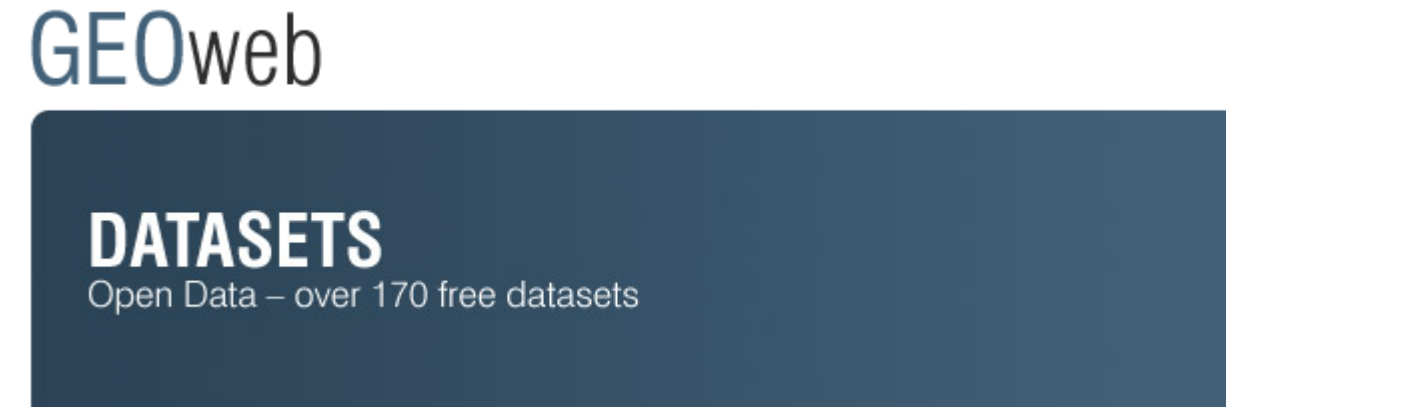
Welcome to the first in a series of tutorials on using Python for introductory statistical analysis.



Visually Explore Demographic Data

220 years of demographic data, 18,000 maps, hundreds of profile reports, 40 billion data elements and 335,000 variables…

Alaska Mapped Data Gallery [*WMS, *WCS, *WFS]



District of North Vancouver's Open Data portal [*DATA]

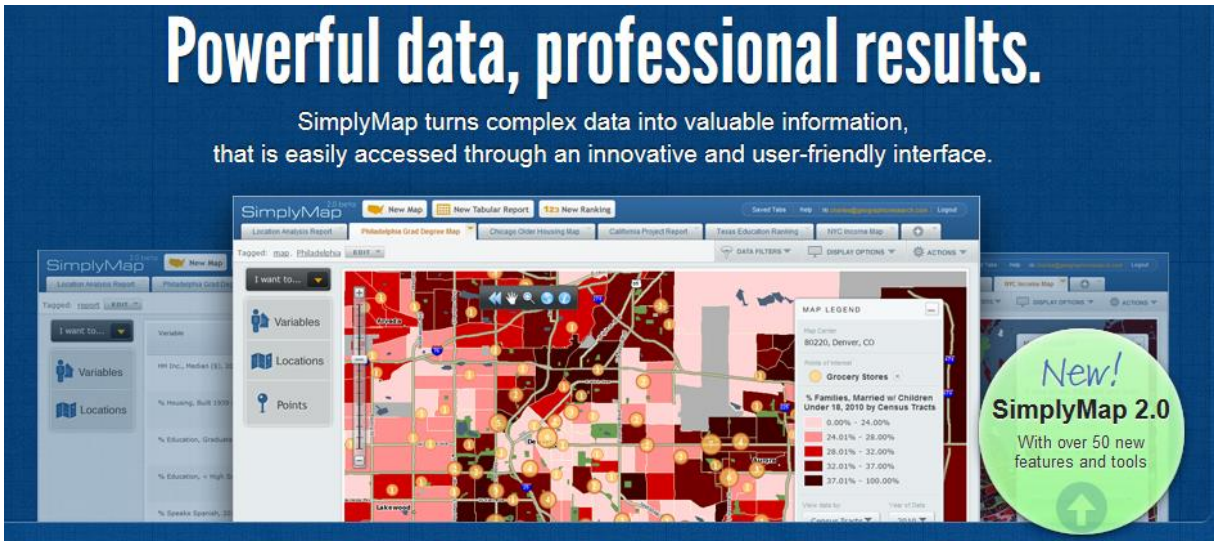
Welcome to the District of North Vancouver's Open Data portal. Here you have access to over 170 free datasets which you can use in your printed products or online services – completely free of charge. Our datasets are updated automatically and refreshed each week. Additionally, every dataset comes with its own metadata providing valuable information on the origin, history, accuracy and completeness of the datasets. So far, a total of 44,662 datasets have been downloaded by our users from this Open Data site. Refer to the legal page so that you understand the Terms and Conditions of Use before downloading the Open Data.

NGR Nationaal Georegister

Geoportaal and Geonetwork [*INSPIRE, *WMS]

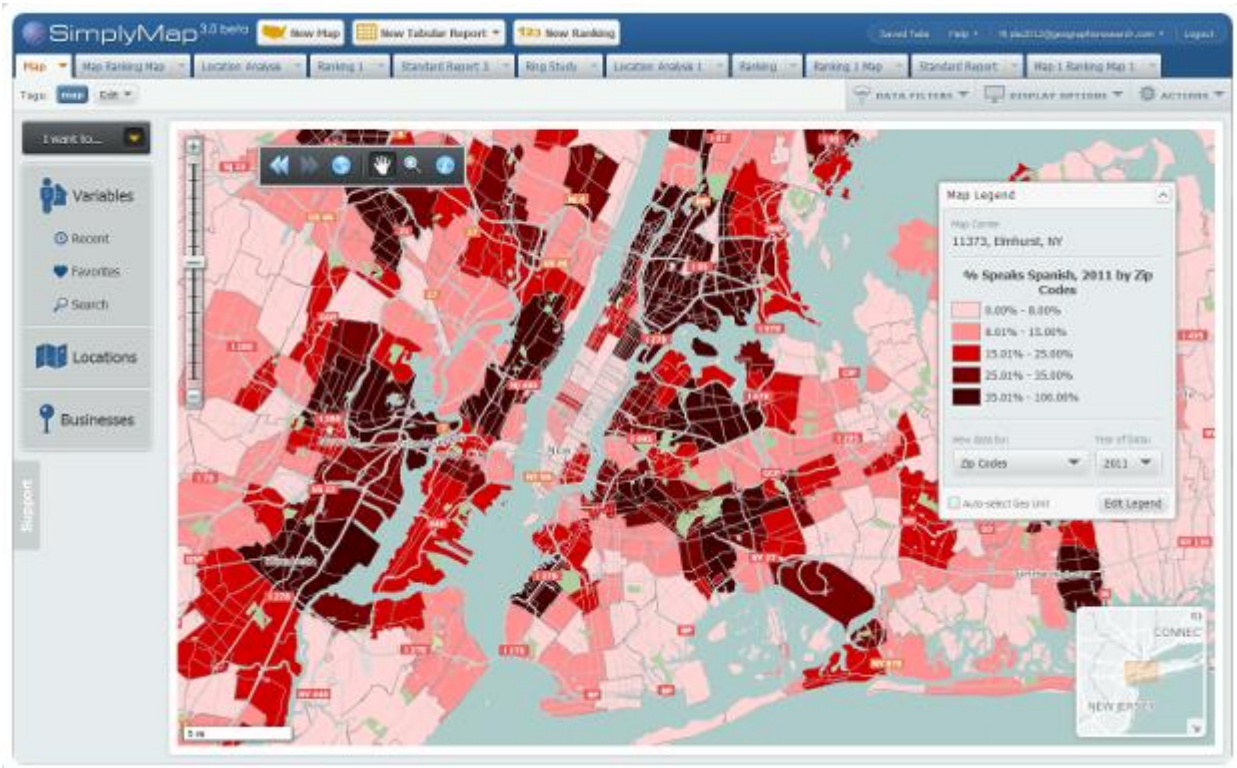
LAStools: software for rapid LiDAR processing

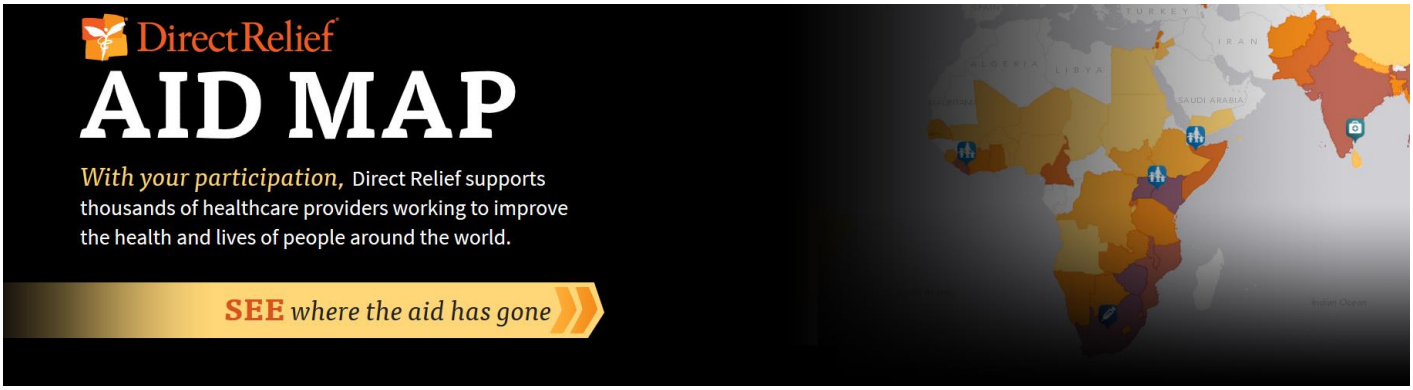
LAStools: award-winning software for rapid LiDAR processing [*SOFTWARE]



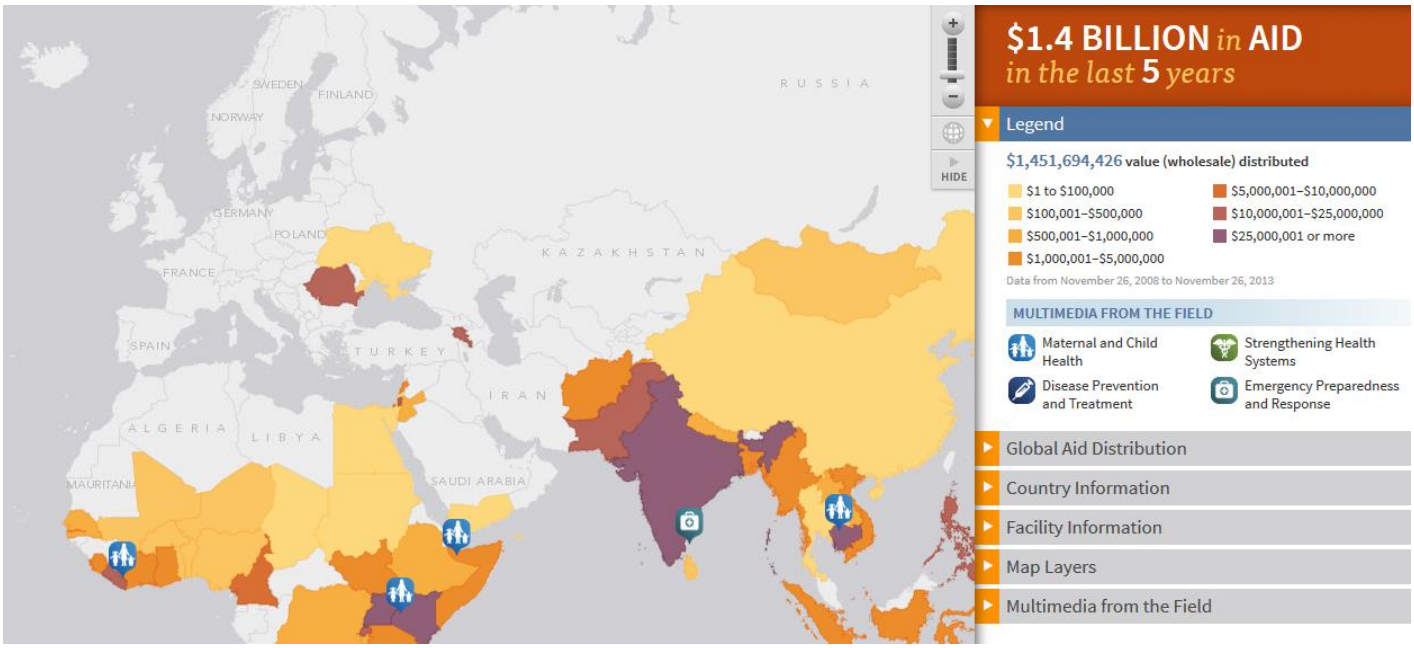
SimplyMap 3.0

SimplyMap 3.0 uses the latest technology to provide better performance, faster maps, improved reliability, and powerful new features.





AID MAP – See where the aid has gone



Mappa GIS – Metodologia applicata alla predittività del potenziale archeologico [*WEBGIS]

GeoTEDd – GIS, GPS, Remote Sensing [*DATA & *TUTORIAL]

*Politecnico e Università di Torino - Laboratorio di Analisi e Rappresentazioni Territoriali ed Urbane [**LARTU**] - www.lartu.polito.it - Castello del Valentino (Manica Chevalley) - Viale Mattioli, 39 - 10125 Torino*
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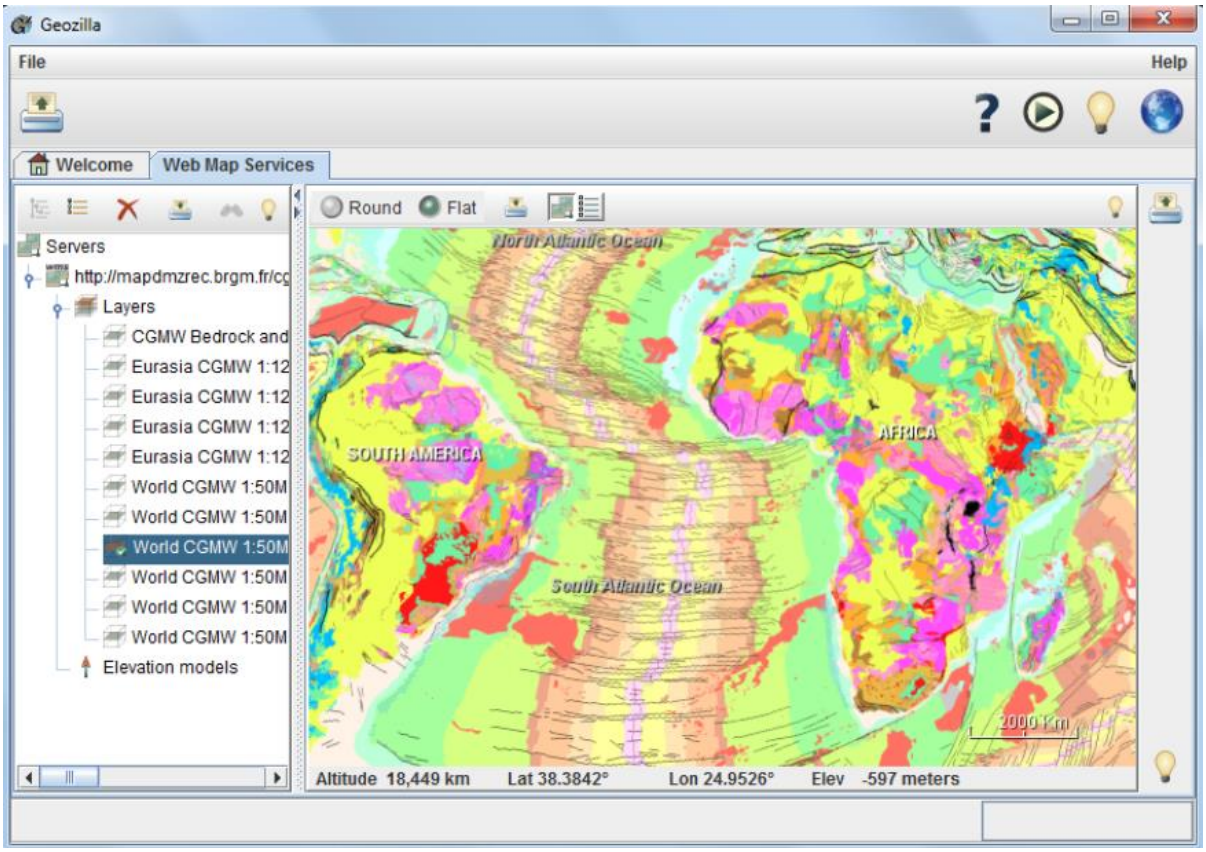
***Test Center ECDL-GIS** - www.ecdlgis.polito.it - ecdl-gis@polito.it*

GeoTriple for Geospatial Imagery

GeoTriple for **Geospatial Imagery** - also called **GeoZilla** - is an OGC services browser. Geozilla is a software platform handling **Web Map Services**.

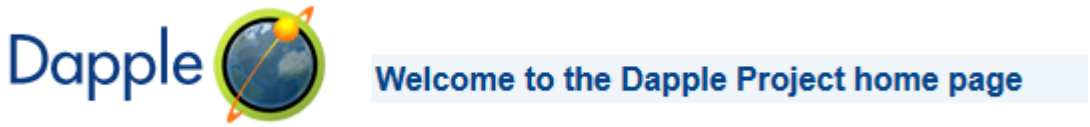
Key points

- **Store** WMS (Web Map Services) servers and **display** their layers with earth viewers.
- **Save** the displayed layers state through viewers persistency.
- **Create**, **import/export** and **display** earth shapes (areas, paths, placemarks, pointsets).



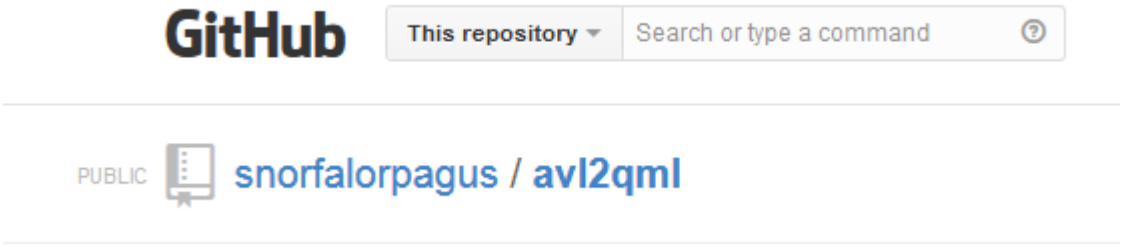
Oregon Department of Transportation (ODOT) TransGIS [*WEBGIS]

TransGIS is a powerful web mapping tool designed for users of every skill level. TransGIS presents many levels of complex data in an interactive map format offering multi-level views of Oregon's transportation system needs and accomplishments.



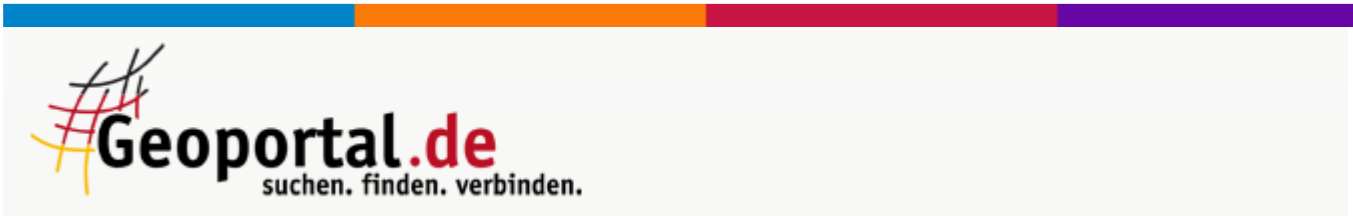
Dapple Project – Global Data Explorer

Dapple is based upon NASA World Wind project, specifically the World Wind .NET . NASA moved to a Java Based World Wind in 2006 and ceased further development of the .NET version. Geosoft continued to support the Dapple open source effort, however recent decisions by NASA to remove the BlueMarble image that Dapple was accessing as a base layer, plus the direction Microsoft has taken with .NET and Direct X has made the Dapple project direction unsustainable. For this reason Geosoft has decided to stop supporting the Dapple Open Source project.

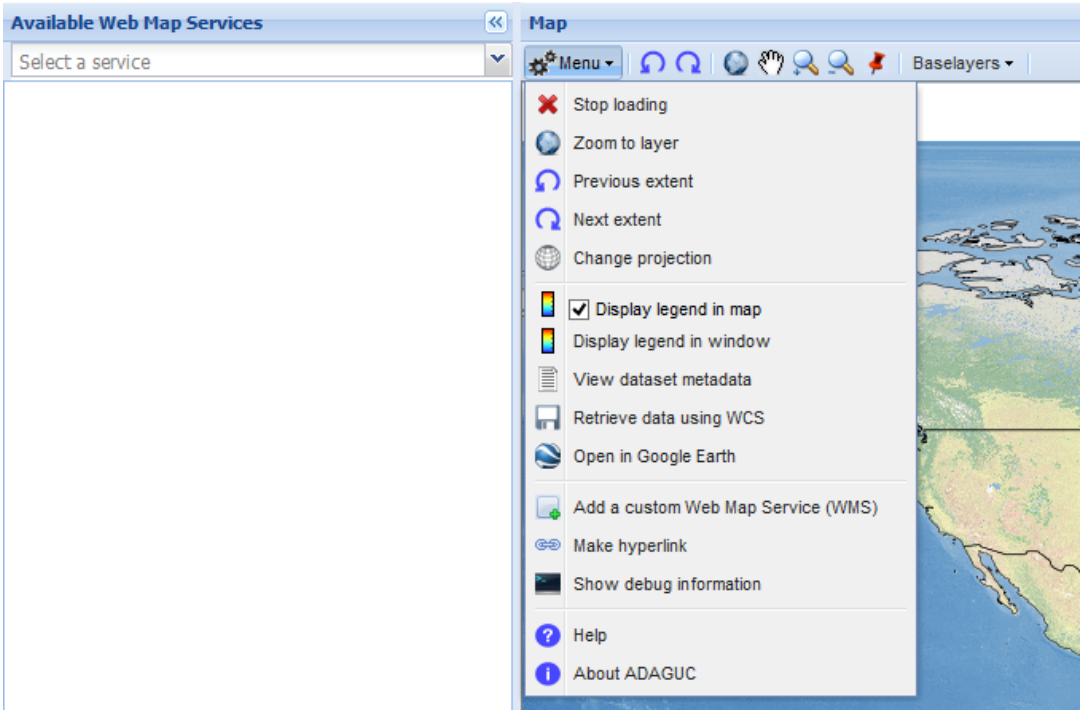


.AVL2QML [*PROGRAMMING]

Python module for converting ArcView 3.x Legends (.avl) to QGIS styles (.qml)

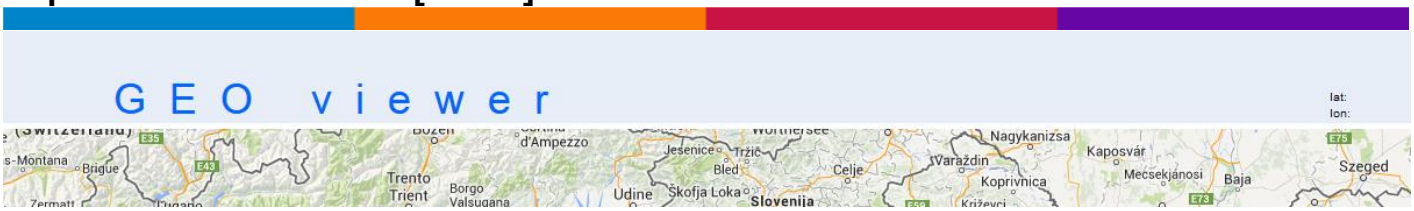


Geoportal.de [*DATA & *GEOPORTALE]



WMS viewer [*WMS]

Capabilities Viewer Beta [*WMS]



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A (WMS-WFS) GEO-Viewer with a “serch tool” [*WMS, *WFS]

Realizzazione di un viewer per informazioni geospaziali mediante GoogleMaps [Credits: Università degli Studi di Padova, **Dipartimento di Matematica Pura ed Applicata - Corso di Laurea Specialistica in Informatica - Progetto Corso di Sistemi per la Gestione del Territorio]**

MapTiler - Map Tile Cutter (Map Overlay Generator for Google Maps and Google Earth)

Simple way how to publish your maps...

Tiles à la Google Maps: Coordinates, Tile Bounds and Projection

Google Maps, Microsoft Virtual Earth, Yahoo Maps, and other commercial API providers as well as OpenStreetMap and OpenAerialMap are using the same projection and tiling profile and tiles are therefore

compatible. The extents of all tiles as well as the zoom levels (resolution in meters per pixel) are predefined for the whole Earth.

Difference is only in the way how the equivalent tiles are indexed. There are three main systems of tile adressing: Google XYZ, Microsoft QuadTree and from the open-source world comming TMS (Tile Map Service).

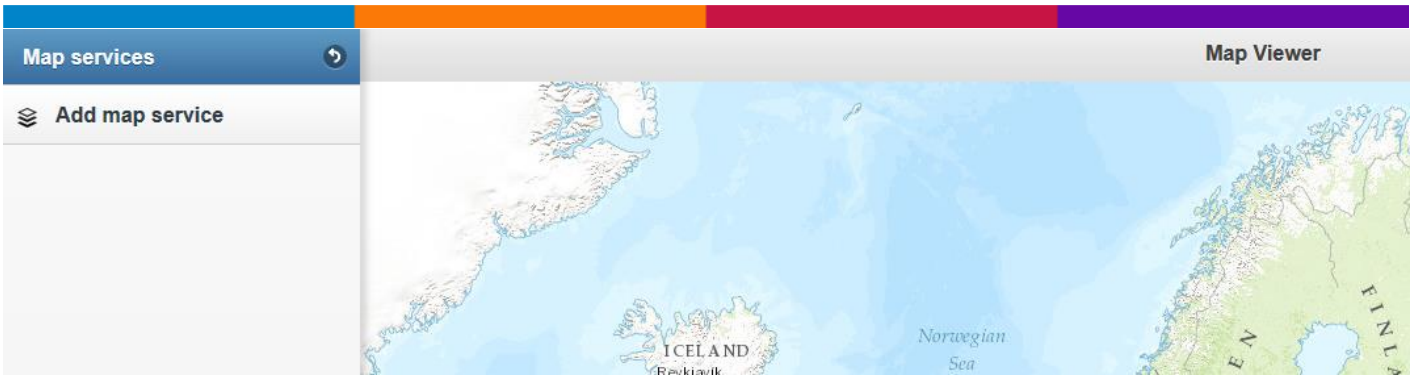
USGS HydroSHEDS – Data Download (Grid, Bil and Shape) [*DATA]

USGS LandsatLook Viewer [*VIEWER]

Gis tools

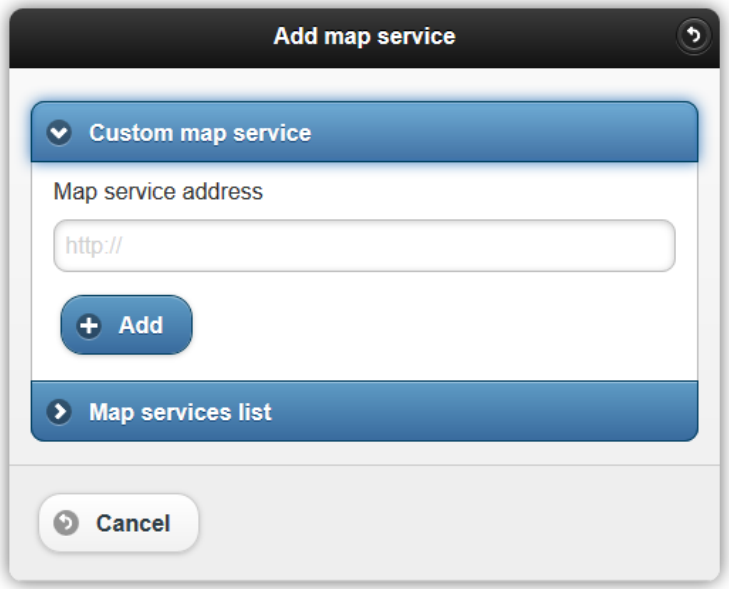
Tools that have helped create noteworthy GIS (Geographic Information Systems) projects in the Nonprofit realm, with links and descriptions of these projects.

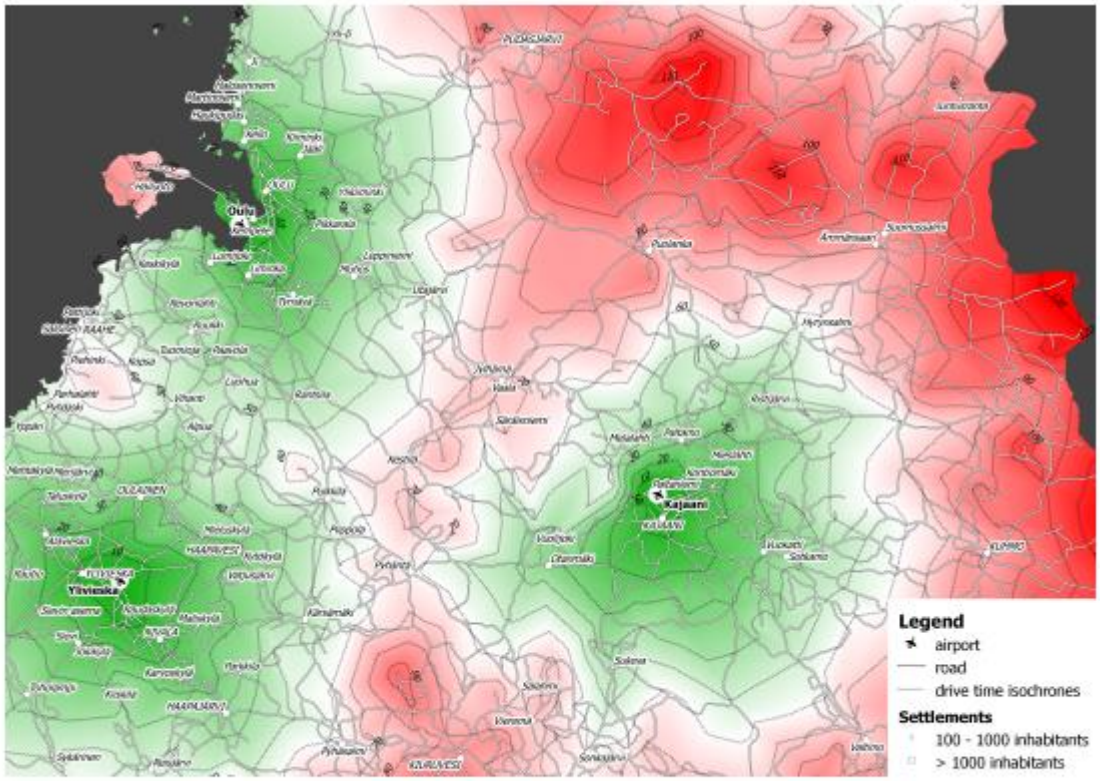
Free maps for Garmin brand GPS devices from OpenStreetMap [*DATA]



MAP VIEWER [WMS]

Map Viewer is a touch-optimized web application designed to make maps accessible on all popular smartphones, tablets and desktop devices. Map Viewer give you and your organization access to your maps and information wherever you are, at any time. Simply use the browser on your mobile device or on desktop machine to use online maps avaiable through web mapping services. All with no additional work.





Drive time isochrones around airports in northern Finland - spatial data © National Land Survey of Finland 2011

Drive Time Isochrones – An Example Using Finnish Airports [*QGIS]

Field Calculator¶

QGIS Field Calculator [*QGIS]

The Field Calculator button in the attribute table allows to perform calculations on basis of existing attribute values or defined functions, e.g to calculate length or area of geometry features. The results can be written to a new attribute column or it can be used to update values in an already existing column.

Fire/GIS Software Support Tools

This section of the GSC Website and Clearinghouse contains selected links to download Geospatial software tools that can be used in wildland fire management. Click the name of the tool to download, or click the link to visit the respective vendor's website.

GIS Lessons and Tools for a New Energy Generation

The GIS Lessons and Tools for a New Energy Generation is designed to provide teachers with activities and resources to explore wind and solar energy in the classroom. There are already a number of great lessons available that focus on various aspects these types of energy sources. The lessons and supporting resources found here use geographic information systems (GIS) to get students to think about characteristics that influence the use of the sun and wind for the production of electricity in New York State. These lessons have been designed so that someone with little or no experience using GIS can incorporate these into their classroom by selecting the right supporting resource to use.

Boise Center Aerospace Laboratory

Boise Center Aerospace Laboratory (BCAL) LiDAR Tools [*ENVI]

BCAL LiDAR Tools are open-source tools developed for processing, analyzing and visualizing LiDAR data. They are written in IDL programming language and is intended to be used as add-on in the ENVI remote sensing software package.

Duke | NICHOLAS SCHOOL OF THE ENVIRONMENT MARINE GEOSPATIAL ECOLOGY LAB

Marine Geospatial Ecology Tools

Open source geoprocessing for marine research and conservation

Marine Geospatial Ecology Tools - Open source geoprocessing for marine research and conservation [*ARCGIS]

Marine Geospatial Ecology Tools (MGET) is a free, open-source geoprocessing toolbox that can help you solve a wide variety of marine research, conservation, and spatial planning problems. MGET plugs into ArcGIS and can perform tasks such as:

- Accessing oceanographic data from ArcGIS
- Identifying ecologically-relevant oceanographic features in remote sensing imagery
- Building predictive species distribution models
- Modeling habitat connectivity by simulating hydrodynamic dispersal of larvae
- Detecting spatiotemporal patterns in fisheries and other time series data

nyalldawson.net

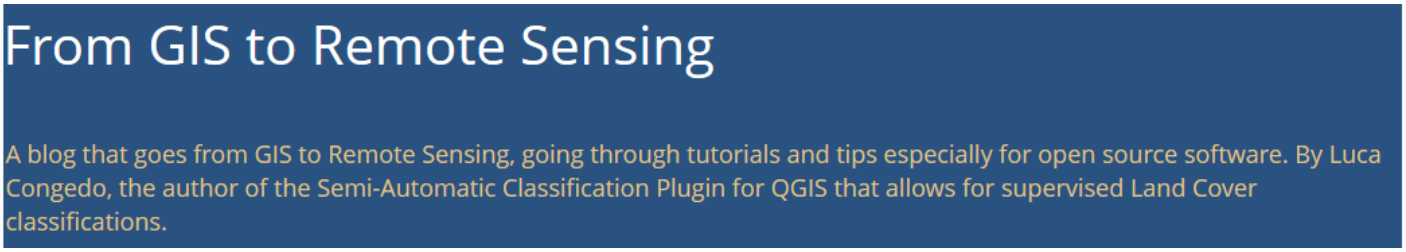
Mapping, GIS, QGIS & MapBasic

Waiting for QGIS 2.2 – Composer Improvements (part 1) [*QGIS]

nyalldawson.net

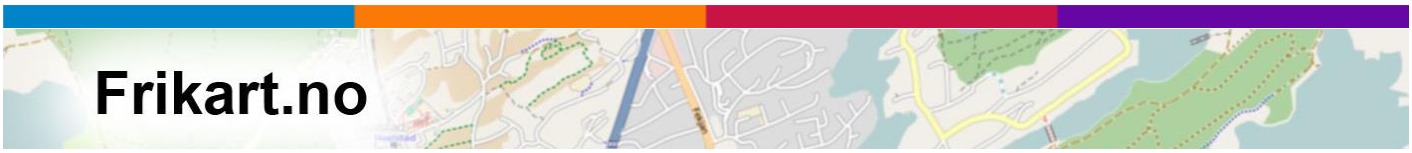
Mapping, GIS, QGIS & MapBasic

Waiting for QGIS 2.2 – Composer Improvements (part 2) [*QGIS]



From GIS to Remorte Sensig: Convert a Land Cover Classification from Raster to Vector in QGIS [*QGIS]

The instructions are for **QGIS 1.8**; also, the installations of the **SEXTANTE** plugin, and **SAGA** are required (for information about software installation see here). The SEXTANTE plugin is a framework that allows QGIS to execute the functions of other programs, such as SAGA GIS.



Free maps for Garmin GPS [*DATA]

Based on data from OpenStreetMap we make maps for Garmin GPS. You will find the maps under the menu 'Maps for Garmin GPS' on the left side. We make both topographical hiking maps and road maps. By the way, the norwegian word frikart means free maps.

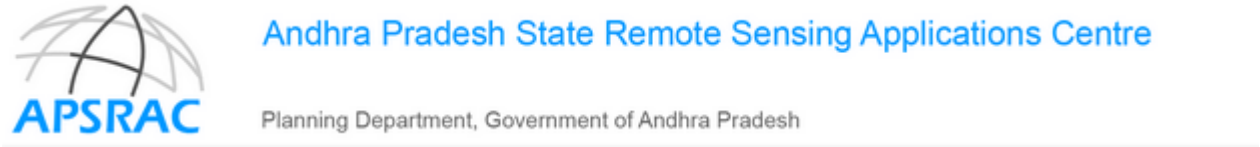
A Blog about GIS World, maps, tools and cartographic techniques [*BLOG]

Open Source GIS with QGIS / GRASS [*TUTORIAL]

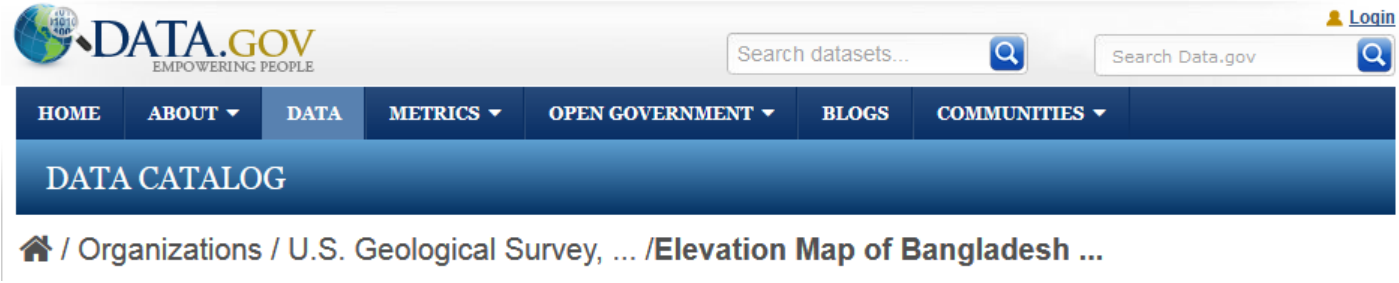
A PDF file about QGIS and GRASS from the Mathematics and Statistics at Lancaster University

Geoprocessing with Python using Open Source GIS

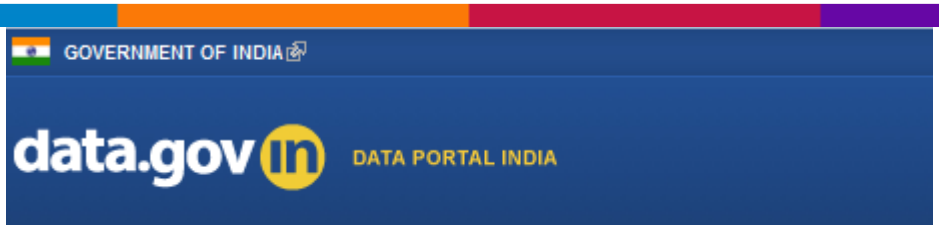
Geoprocessing with Python using Open Source GIS



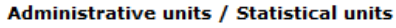
Andhra Pradesh State Remote Sensing Application Center [*WEBGIS]



Elevation Map of Bangladesh (elev8bg) [*DATA]



Data Portal India [*DATA]



Administrative units / Statistical units [*DATA]

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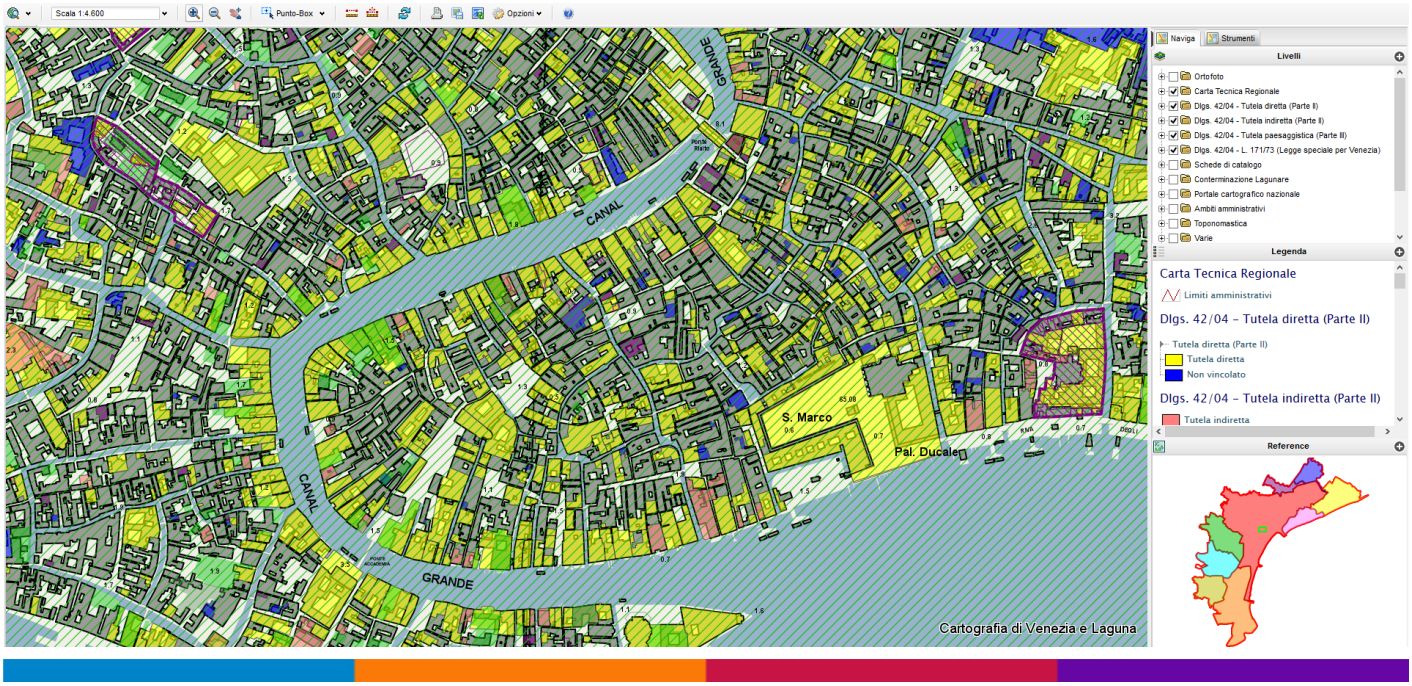
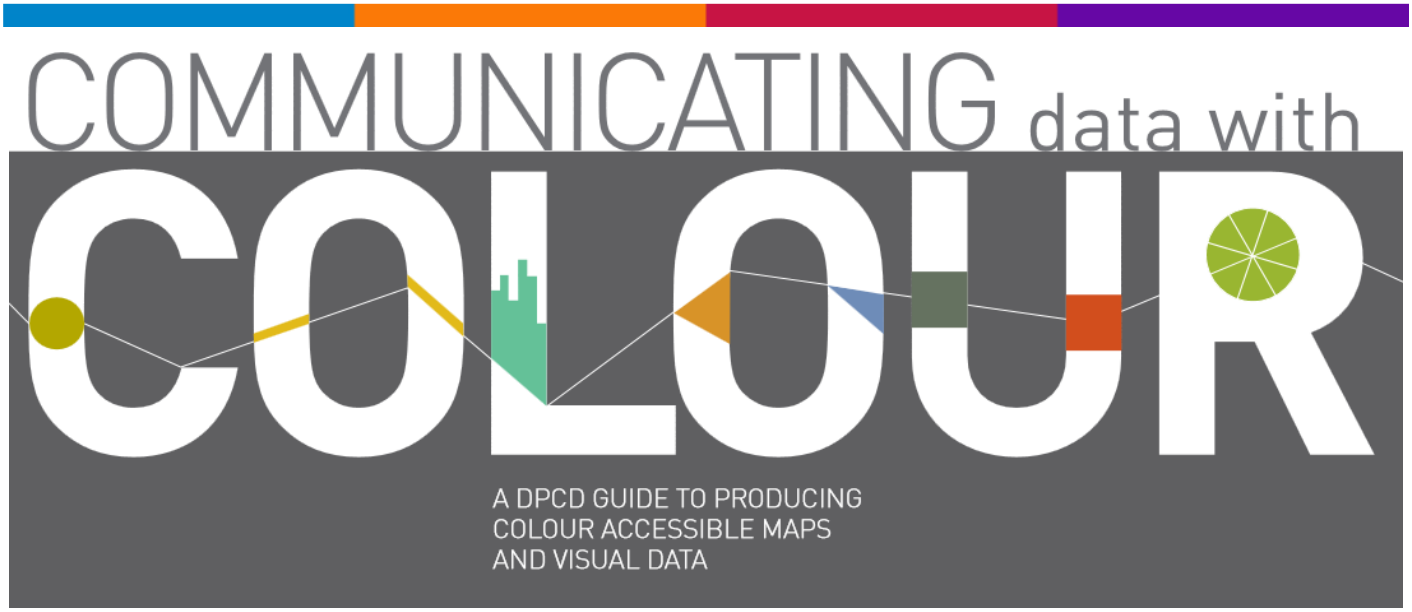
Sistema informativo territoriale della Soprintendenza BAP di Venezia e Laguna [WEBGIS]



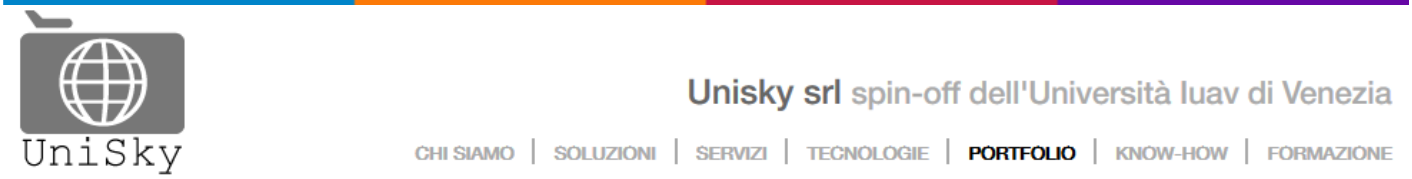
Manuale di rilievo e di documentazione digitale in archeologia

Versione elettronica integrale del testo su carta pubblicato nel luglio 2008 dalla casa editrice Aracne, articolata in 17 capitoli, due appendici, comprendente circa 200 immagini in formato JPEG e numerosi link a siti e pubblicazioni sugli argomenti trattati.



Communicating data with COLOUR

A DPCD GUIDE TO PRODUCING COLOUR ACCESSIBLE MAPS AND VISUAL DATA



Energy Web Feltre Conoscenza condivisa e collaborativa della città e del suo comportamento energetico

Energy Web Feltre (EWF) è un'iniziativa di ricerca in tema di contenimento dei consumi energetici a scala urbana orientato alla definizione di un quadro di conoscenze dello stato difatto relativo ai consumi e alle emissioni da condividere via Web. Un sistema di informazioni a disposizione dei cittadini, delle amministrazioni locali e del settore produttivo che crea relazioni tra famiglie, amministrazioni, enti pubblici, il tutto orientato allo sviluppo di politiche di risparmio energetico e alla diffusione delle energie rinnovabili.

Il progetto si basa sulla costruzione di un modello digitale ad altissima risoluzione del territorio derivato dall'integrazione di più rilievi condotti con tecniche innovative (basate su scansioni laser e ortofoto ad altissima risoluzione) definito "City Model" sul quale associare un insieme di dati integrati riferiti allo stato energetico e comportamentale degli edifici o dei luoghi, definito "City Sensing". L'incrocio di tali insiemi porta alla creazione dell'"Energy Model", un livello di lettura integrato di tutte le informazioni raccolte che costituisce il cuore del quadro di conoscenze dello stato di fatto relativo ai consumi e alle emissioni sul territorio condiviso via Web.

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